



LOCALITY PLAN MELWAYS REF: 468 D6





Principal Leopold Property Developments Pty Ltd Level 1, 6 Riverside Quay Southbank, Victoria 3006

# Estuary

# Stage 8

# City of Greater Geelong



Drawing Index

		-
0250EHL-08-	01	Cover Plan
0250EHL-08-	02	General Notes
0250EHL-08-	03	Layout Plan - 1
0250EHL-08-	04	Layout Plan - 2
0250EHL-08-	05	Services Layout
0250EHL-08-	06	Services Layout
0250EHL-08-	07	Intersection Detai
0250EHL-08-	08	Lip Profiles - 1
0250EHL-08-	09	NOT USED
0250EHL-08-	10	Setout Informatio
0250EHL-08-	11	Longitudinal Sect
0250EHL-08-	12	Longitudinal Sect
0250EHL-08-	13	Longitudinal Sect
0250EHL-08-	14	Cross Sections -
0250EHL-08-	15	Cross Sections -
0250EHL-06-	16	Cross Sections -
0250EHL-08-	17	Cross Sections -
0250EHL-08-	18	Cross Sections -
0250EHL-08-	19	Cross Sections -
0250EHL-08-	20	Cross Sections -
0250EHL-08-	21	Cross Sections -
0250EHL-08-	22	Cross Sections -
0250EHL-08-	23	Drainage Longitu
0250EHL-08-	24	Drainage Longitu
0250EHL-08-	25	Drainage Longitu
0250EHL-08-	26	Pit Schedule
0250EHL-08-	27	Details
0250EHL-08-	28	Subdivision Setor
0250EHL-08-	29	Subdivision Setor



Level 1, 47 Pakington Street, Geelong West, VIC, 3218 Tel: +61 3 5228 3100 Fax: +61 3 5228 3199 A.B.N. 99 124 206 819

- Plan 1 Plan - 2 ail Plan
- on ctions -1 ctions -2 ctions -3 Lemondra Street - 1 Lemondra Street - 2 **Citrina Street** - Wolla Street - 1 - Wolla Street - 2 Bolivina Street Dandelion Street - 1 - Dandelion Street - 2 - Dandelion Street - 3 udinal Sections - 1 udinal Sections - 2 udinal Sections - 3

out Plan - 1 out Plan - 2

## Standard Construction Notes

#### 1. GENERAL

- **Drawings** The drawings are to be read in conjunction with the contract 1.1 specification and the responsible Authorities standard drawings and current specifications for Roadworks and Drainage. Any observed discrepancy to be referred to the Superintendent prior to start of work.
- **Responsible Authority Documentation Availability** A set of the 1.2 respective responsible Authority standard construction documentation including drawings and specification/s are to be provided by the Contractor and made available on-site for the duration of the construction period.
- 1.3 **Conformity with Drawings** All works are to be finished in conformity with the lines, grades, thicknesses and cross sections shown in the drawings.
- **Materials and Workmanship** Materials and workmanship to comply with 1.4 responsible Authority specifications and relevant SAA Codes.
- **Tolerances** Works are to be constructed in compliance with tolerances 1.5 specified by the relevant responsible Authorities.
- 1.6 **Minimum Standards** The standards of work and materials stated in the drawings and specification are the minimum acceptable irrespective of relevant responsible Authority minimum standards.
- Sewer/Water Supply Construction notes specific to sewer and water supply 1.7 asset construction are incorporated in the drawings approved by the Water Company as attached hereto.

#### **EXISTING CONDITIONS** 2.

- **Discrepancy with Drawings** Any discrepancy observed/identified between 2.1 the drawings and existing conditions and site features are to be referred to the Superintendent prior to start of any related work.
- 2.2 Municipal Assets & Infrastructure The condition of existing Council assets potentially affected by the works is to be assessed by a joint site inspection with Council Officers prior to the start of works. Asset conditions are to be recorded and witnessed by Council and the Contractor. The Contractor is to arrange and record site inspections and is liable for all

rectification/reinstatement costs for damage to existing assets.

2.3 **Utility Services** - The locations of existing utility services, as shown in the drawings, are not guaranteed. Exact service locations are to be proven prior to start of works. Service location works are to comply with the requirements of the relevant responsible Authority. The Contractor is liable for rectification/reinstatement costs for damage to existing utility services.

#### NOTIFICATIONS 3.

- **Council** Minimum notification periods are: 3.1
- two (2) days written notice of intention to start works (a)
- two (2) days notice to inspect condition of existing Council assets (b)
- twenty four (24) hours notice for weekend work (c) (d)
  - twenty four (24) hours notice for:
  - inspection of drainage works
  - inspection of sub-soil drains
  - proof roll of prepared sub-grade or constructed pavement - inspection of prepared base for concrete works
  - other works as stated in the drawings or specified

Or as otherwise agreed with Council Officers.

3.2 **Property Owners/Tenants** - Seven (7) days written notice to property owners/tenants affected by the works.

#### **OCCUPATION OF PUBLIC ROADS** 4.

All roadworks signage to comply with VicRoads Worksite Traffic Management Code incorporating AS 1742.3.

- **Roads under VicRoads jurisdiction** The Contractor is to arrange VicRoads 4.1 consent via "Application for Consent - Works within Road Reserves" (refer VicRoads web site).
- 4.2 **Roads under Council control** The Contractor is to arrange and acquire requisite Road Closure Permits via Council's Traffic Officer.

#### SET OUT 5.

- 5.1 reference marks are to be verified prior to start of works.
- centreline, unless otherwise stated.
- unless otherwise stated.
- accurately set out from co ordinates and/or offsets as stated.
- the drawings or directed.
- TOPSOIL
- 6.1 the Superintendent.
- stated in the drawings or directed by the Superintendent.

#### 7. EXISTING VEGETATION

All existing trees and significant vegetation within and external to the worksite are to be retained, preserved and protected unless otherwise stated in the drawings or directed by the Superintendent.

#### **EXCAVATION/TRENCHING** 8.

- with the provisions of the Mines (Trenches) Regulations 1982.
- approved by the Superintendent.

#### 9. SOIL EROSION

The Contractor must install necessary protection works to effectively manage and limit soil erosion within the worksite. Works to include, but are not limited to:

- 9.1 Silt Fences - downstream of all exposed areas.
- Silt Barriers upstream of all pits 9.2
- 10. DRAINAGE WORK
- start of works.
- 10.2 **Pipe Class** Pipes to be, unless otherwise stated in the drawings:
- Roads & Reserves Class 2 Rubber Ring Jointed RCP (a) (b) UPVC
- not to be used as the basis for setting final pit cover levels
- the superintendent.
- 10.5 Sub-Soil Drains
- through the full pit wall thickness.
- (b) Details of granular filter material including source to be submitted to the
  - DRAWING NOTES
  - Do not scale drawings use Dimensions - Dimensions a otherwise stated.
  - Australian Height Datum R Australian Height (AHD) un

pal	
d Droporty	Dov

Property Developments Pty Ltd , 6 Riverside Quay ank, Victoria 3006

	۷.
	3.
SUED FOR APPROVAL 19.05.11 CB/CB JG	Principa
DUNCIL AMENDMENTS 14.04.11 CB/CB JG	Leopold
SUED TO COUNCIL FOR APPROVAL 18.03.11 CB/CB JG	Level 1, Southba
ON DATE DES/DFT APP	

Survey Stations and Reference Marks - The locations of survey stations and

5.2 **Road Chainages** - Road chainages as shown in the drawings are to road

5.3 **Kerb & Channel** - Kerb and channel radii and levels relate to edge of channel.

5.4 **Drainage Pits** - The locations and orientation of drainage pits are to be

5.5 **Pipe Drains** - Drainage lines are to be accurately set out from coordinates and/or offsets as stated. Further to Standard Note 5.4 drainage lines at pits are to be accurately set out to ensure that the outlet pipe is aligned directly opposite the inlet pipe (where deflection angles are 450 or less) or as otherwise stated in

**Stripping Limits** - Clearing and stripping of topsoil to be restricted to areas to be excavated/filled as stated in the drawings or limits as otherwise directed by

6.2 **Surplus Material** - Surplus topsoil must be re-used on-site unless otherwise

8.1 **Trenching** - Trenching operations exceeding 1.5 metres depth are to comply

8.2 Work close to Trees and Vegetation - Excavation work within the drip line of trees is not to be performed unless otherwise stated in the drawings or

8.3 Unstable Sub-Grade - Unstable sub-grade/"soft spots" to be excavated to a sound proof-rolled base and backfilled with material approved by Council.

10.1 **Existing Drains** - The location of existing drainage assets to be verified prior to

Easements - Rubber Ring Jointed RCP/FRP or Sewer Class Solvent Cement

10.3 **Pit Covers** - Pit covers are to be placed to match actual finished surface profiles - level and cross fall - of adjacent structures/surfaces. Finished surface levels stated in the drawings are indicative, for depth range purposes, and are

10.4 **Pit Construction** - Precast standard pits are to be installed. Cast in-situ standard pits are only to be constructed where approved by the Superintendent. All sumps in precast concrete pits are to be infilled with concrete flush to the inlet level of the outlet pipe unless otherwise approved by

(a) Entry to pits to be trimmed flush with inner wall and effectively mortared in place

- Superintendent prior to start of sub-soil drainage works.
- 11. BACKFILL MATERIAL
- 11.1 Trenches under all pavement, edgings/kerb sections & Nature Strips -20mm Class 3 Fine Crushed Rock or other material as approved by Council.
- 11.2 **Allotments/Reserves/** Selected best quality excavated in-situ material or other material as approved by Council.

## 12. COMPACTION STANDARDS

Compaction standards are to be checked and proven in accordance with the requirements of AS 1289. Where unspecified by the responsible Authority, the following minimum standards will apply:

#### 12.1 Structural Fill

- (a) Fill base top 150mm 95% standard compaction
- Fill zone 95% standard compaction Under road pavement - zone less than 450mm under road pavement surface (C) 98% standard compaction

#### 12.2 Road Pavement

- Road sub-grade top 150mm 98% standard compaction Pavement materials - 98% modified compaction 12.3 Trench Backfill Granular under all pavement & edgings/kerb sections - 98% modified (a) compaction
- Granular behind kerbing 95% modified compaction Earth around structures - 95% standard compaction (C)

## 13. CONCRETE WORK

- 13.1 Minimum Strength - Concrete for drainage pits to have a minimum compressive strength of 32 MPa at 28 days. - Concrete for all other applications to have a minimum compressive strength of 25 MPa at 28 days
- 13.2 **Bar Chairs** All reinforcement in footpaths, vehicle crossings and roads to be supported by appropriately sized bar chairs.
- 13.3 **Slump** Concrete to have 75mm maximum slump.
- 13.4 **Kerb Cement Content** Concrete for kerb extrusion machines to have a minimum cement content of 280 kg/m3.
- 13.5 Services Distribution Mains & Conduits Mains and conduits are to be installed prior to kerb section construction works.
- 13.6 **Footpaths** All footpaths are to be a minimum of 125mm thick with F62 reinforcement, bedded on min of 75mm compacted Class 3 FCR. Bedding to extend 100mm beyond the edges of the footpath. Contraction joints to be constructed at 12.5m intervals. Class 4 FCR is to be used where filling is required under footpath Class 3 FCR bedding material.
- 13.7 **Continuous Kerb** To allow for a continuous concrete kerb and channel pour the "Gatic" HD concrete surround is to be in place prior to the pour commencing. If the pit surrounds are not in place then the initial kerb and channel pour is to stop one metre either side of pit.

## 14. ROAD PAVEMENT WORK

- 14.1 **Pavement Composition** The minimum standard of pavement composition is stated in the drawings for the respective road sections.
- 14.2 **Road surfacing** Road surfacing must not be performed until all other works have been completed.

## 15. IDENTIFICATION MARKING

All identification marking figures are to be a minimum of 50mm high.

- 15.1 **Conduits** Letter "W", "G" "E" or "T" for water, gas, electricity or telecommunications conduit to be stamped into face of kerb sections at frontage of lot served.
- 15.2 House Drain Connections Letter "H" to be stamped into face of kerb sections opposite street drain connection point.

only dimensions stated.	Designed C. Barker		© SM Urban Pty Ltd ABN 99 124 206 819	smec	Estuary	
re in metres [m] unless	Drawn C. Barker		These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be	<b>X</b> urban	Stage 8 City of Greater Geelong Roadworks and Drainage	
educed levels are to less otherwise stated.	Checked C. Birkett		reproduced or copied, in whole or part, without the written	consulting group	_ General Notes	
	Authorised J. Golden	Scale @ A1 As Shown	permission of SM Urban Pty Ltd. The contents of this drawing are electronically generated, are	<b>Smec Urban</b> Level 1, 47 Pakington Street, Geelong West, VIC, 3218 <b>p</b> +61 3 5228 3100   <b>f</b> +61 3 5228 3199   www.smu.com.au	Drawing No. 0250EHL-08-02	Rev C
	Date March 2011		confidential and may only be used for the purpose for which they are intended.	Adelaide+61882236455Gold Coast+61755780222Brisbane+61738318988Melbourne+61398690800Canberra+61261261900Traralgon+61351730100	- Sheet No. 2 of 29 Approved for Constru	uction

15.3 Lot Nos. - Lot Nos. to be stenciled in white paint on face of kerb sections at lot frontages.

#### 16. TESTING

- 16.1 **Specified Testing** Testing will be conducted in compliance with specified requirements. The Contractor is liable for all costs.
- 16.2 **Proof-Rolling** Pneumatic tyred plant minimum weight 20 tonne with minimum ground contact pressure 450 kPa per tyre.

#### 17. EXPOSED SURFACES RESTORATION

- 17.1 **Topsoiling** All exposed residual surface areas at completion of civil works to be topsoiled with 100mm depth of best available material.
- 17.2 Allotments/Reserves Allotments and reserves are to be evenly graded at a minimum gradient of 1 in 100 to their nominated drainage connection points.
- 17.3 **Nature Strips** Nature strip surfaces are to be trimmed to grade between adjacent surfaces. Top-soiling and compaction operations are to ensure there is no later settlement/subsidence.
- 17.4 **Top-Dressing** Undisturbed grassed areas are to be top-dressed and evenly graded as directed by the Superintendent.
- 17.5 Hydroseeding At completion of the above works all prepared exposed surfaces are to be well watered and hydroseeded.
- 17.6 Batter Slopes Batter slopes shall be a maximum of 1 in 5 for fill and 1 in 3 for cut unless otherwise shown.

#### 18. FINAL WORKS PRESENTATION

At Practical Completion the following minimum standards of presentation will apply:

- Roads/Paved Areas All roads and paved areas are to be swept/washed down 18.1 to produce clean surfaces free of all deleterious materials.
- 18.2 **Pipe Systems** All pipe systems are to be flushed and cleared of all accumulated debris and deleterious materials.
- 18.3 **Site** The site is to be prepared to a state acceptable for presentation to the public for sale purposes and is to be in a condition satisfactory to the Superintendent with completion of, at least, the following activities:
- all incidental and minor works (a)
- (b) site clean up operations
- site cleared of all facilities, temporary structures, plant, litter, surplus materials, (C) etc. that are to be removed off-site
- 18.4 **Reserve Frontages** Round topped treated pipe bollards (0.6m high) are to be placed across reserve frontages at 1.5m centres. A demountable section for vehicle access consisting of an appropriate length of 50mm diameter (2.3mm wall thickness) galvanised water pipe, short section of chain (3 links) welded to each end. Two galvanised steel bollards - one each side of the entry, with one end to have a D20 padlock, which locks in to a link, which has been welded onto the bollard. Unless otherwise stated on plans.
- 18.5 Street Signs Street signs are to be located as indicated on the plans and installed in accordance with Vicroads Traffic Engineering Manual Volume 2. Mounting height is to be to the underside of the sign and is to be a minimum of 2.1m and maximum of 3.0m
- 18.6 **No Through Road** No through road signs are to be install below the street sign where applicable.

#### MAINTENANCE WORKS 19.

The Contractor must responsively repair/remediate defective works as directed during the maintenance period.

- 19.1 **Council Assets** for Maintenance Period of 3 months
- 19.2 Water Company Assets for Defects Liability Period of 12 months and Maintenance Period of 2 years
- 19.3 Inspection & General Maintenance Activities the Contractor must undertake regular site inspections of all completed works. Special attention must be given to the adequacy of the following soil protection works:

a)	Silt fences
b)	Silt barriers
c)	Areas hydroseeded



LEGEND – LAYOUT PLAN
□
●s
+ HOUSE DRAIN
TACTILE PAVERS
——————————————————————————————————————
Ex G EXISTING GAS
Ex T EXISTING TELSTRA
Ex W EXISTING WATER
───E× D─── EXISTING STORMWATER DRAIN
⊖—ex s−−− EXISTING SEWER
H EXISTING HOUSE DRAIN
> EXISTING SWALE DRAIN
141.34 EXISTING SURFACE LEVEL
FS140.35 FINISHED BUILDING LINE LEVEL
FR157.40 FINISHED RIDGE LINE LEVEL
TW159.30 TOP OF RETAINING WALL
BW159.30 BOTTOM OF RETAINING WALL
RETAINING WALL
— — ZERO LOT LINES
PAVEMENT TREATMENT
STRUCTURAL FILL > 200mm DEEP
EX. STRUCTURAL FILL > 200mm DEEP
DIRECTION OF FALL
OVERLAND FLOW
lpha allotment to be graded evenly in
DIRECTION OF FALL TO LEVELS INDICATED
CONCRETE EDGE STRIP WITH SUBSOIL DRAIN,
"NO ROAD" SIGN & BARRIER
← ← LIMIT OF WORKS
EXISTING TREE TO BE REMOVED
PERMANENT SURVEY MARK
PROPOSED DRIVEWAY

#### 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



City of Greater Geelong Roadworks and Drainage Layout Plan - 1

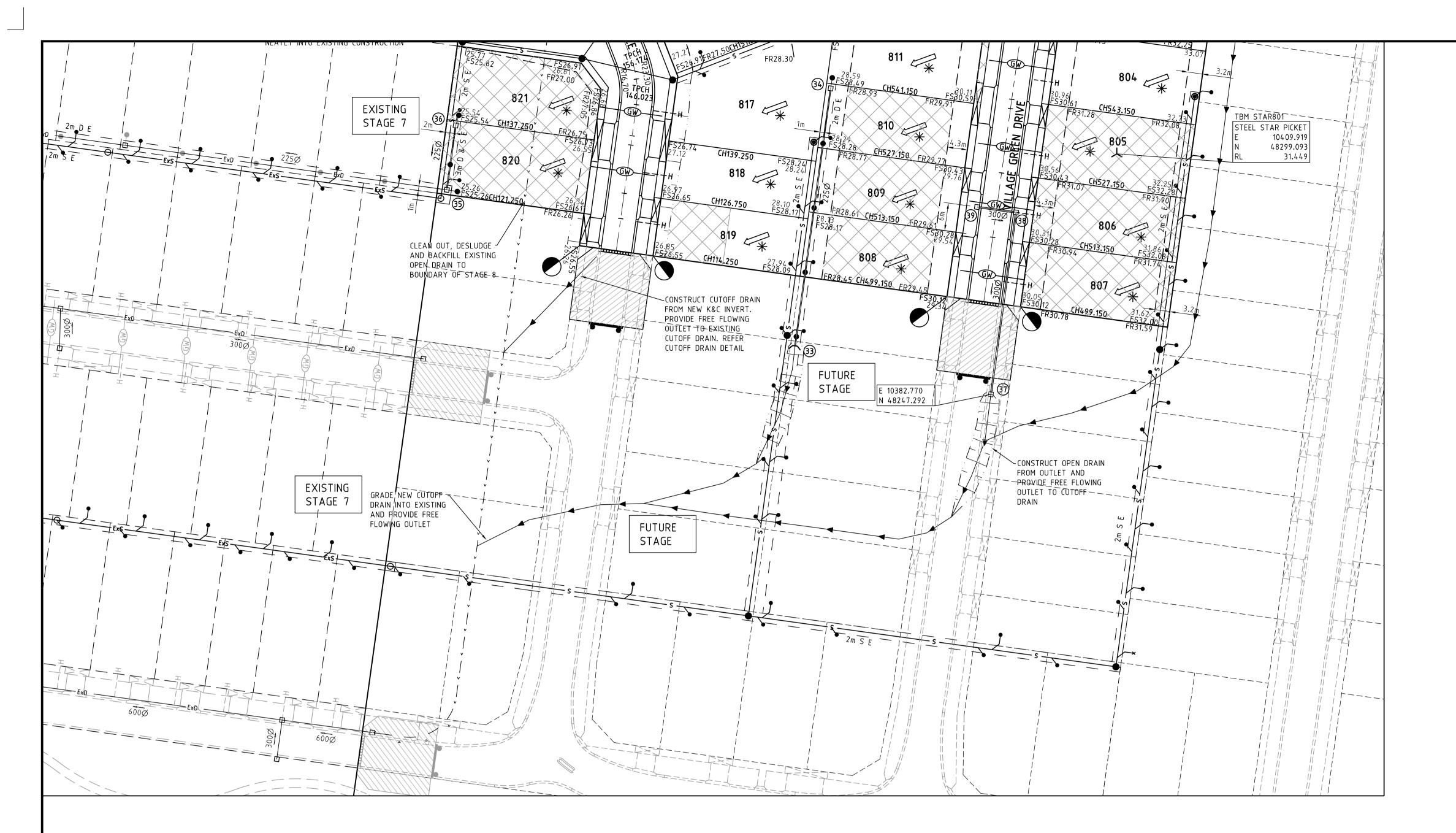
Drawing No. 0250EHL-08-03

Estuary

Sheet No. 3 of 29

Stage 8

Rev J

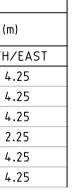


			ROAD LAYOUT 1	ABLE				
ROAD NAME	RESERVE WIDTH		ROAD WIDTH (m	)	KERB	ТҮРЕ	VERGE WIDTH (m)	
	(m)	LIP to LIP	INV to INV	BACK to BACK	NTH/WEST	STH/EAST	NTH/WEST	STH/E
EVERGLADE STREET	16.00	6.60	7.20	7.50	B2	B2	4.25	4.25
PARKFRONT DRIVE	16.00	6.60	7.20	7.50	B2	B2	4.25	4.25
TIDAL STREET	16.00	6.60	7.20	7.50	B2	B2	4.25	4.25
VILLAGE GREEN DRIVE LOTS 831-848	14.00	6.60	7.20	7.50	B2	B2	4.25	2.25
VILLAGE GREEN DRIVE LOTS 810-814	16.00	6.60	7.20	7.50	B2	B2	4.25	4.25
TREEFERN STREET	16.00	6.60	7.20	7.50	B2	B2	4.25	4.25

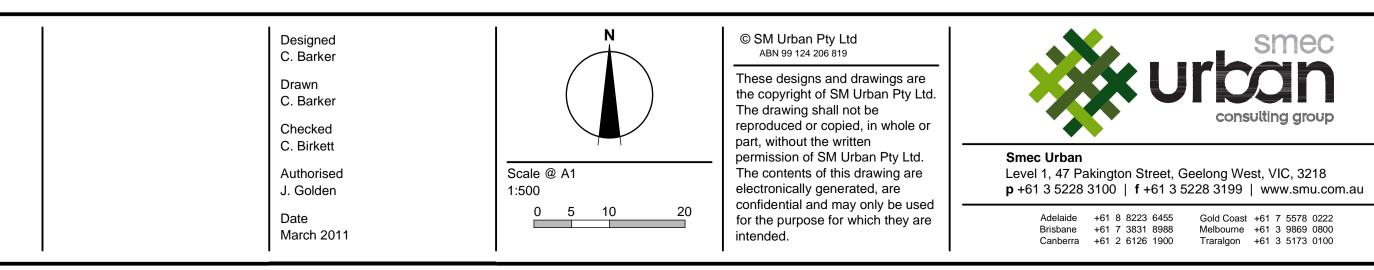
G	RL ADDED TO TBM STAR801	19.01.12	СВ∕СВ	JG	
F	ROAD NAMES AMENDED	03.11.11	СВ∕СВ	JG	
Е	LAYOUT AMENDED	29.07.11	CB/CB	JG	
D	WALUKARA SERVICES AMENDED	27.05.11	CB/CB	JG	
С	ISSUED FOR APPROVAL	19.05.11	CB/CB	JG	Princip
В	COUNCIL AMENDMENTS	14.04.11	CB/CB	JG	Leopo
А	ISSUED TO COUNCIL FOR APPROVAL	18.03.11	CB/CB	JG	Level South
RE	VISION	DATE	DES/DFT	APP'D	



ncipal eopold Property Developments Pty Ltd evel 1, 6 Riverside Quay outhbank, Victoria 3006



		SER	VICES OFFSET S	SCHEDULE				
	G	AS	WATER		ELECTRICITY		TELSTRA	
ROAD NAME	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)
EVERGREEN STREET	NORTH	2.10	NORTH	2.70	SOUTH	2.30	SOUTH	1.70
PARKFRONT DRIVE	NORTH	2.10	NORTH	2.70	SOUTH	2.30	SOUTH	1.70
TIDAL STREET	SOUTH	2.10	SOUTH	2.70	NORTH	2.30	NORTH	1.70
VILLAGE GREEN DRIVE LOTS 806-811	WEST	2.10	WEST	2.70	EAST	1.00	EAST	0.50
VILLAGE GREEN DRIVE LOTS 836-840	WEST	2.10	WEST	2.70	EAST	2.30	EAST	1.70
TREEFERN STREET	EAST	2.10	WEST	2.70	EAST	2.30	EAST	1.70



LEGEND – LAYOUT PLAN
STORMWATER DRAIN, PIT & PROPERTY INLET
●s
– – – HOUSE DRAIN
TACTILE PAVERS
Ex G EXISTING GAS
EXISTING TELSTRA
Ex W EXISTING WATER
- Ex D EXISTING STORMWATER DRAIN
⊖—ex s−−− EXISTING SEWER
EXISTING HOUSE DRAIN
>> EXISTING SWALE DRAIN
141.34 EXISTING SURFACE LEVEL
FS140.35 FINISHED BUILDING LINE LEVEL
FR157.40 FINISHED RIDGE LINE LEVEL
TW159.30 TOP OF RETAINING WALL
BW159.30 BOTTOM OF RETAINING WALL
BB RETAINING WALL
— — ZERO LOT LINES
PAVEMENT TREATMENT
STRUCTURAL FILL > 200mm DEEP
EX. STRUCTURAL FILL > 200mm DEEP
DIRECTION OF FALL
OVERLAND FLOW
st allotment to be graded evenly in
DIRECTION OF FALL TO LEVELS INDICATED
CONCRETE EDGE STRIP WITH SUBSOIL DRAIN,
"NO ROAD" SIGN & BARRIER
CLIMIT OF WORKS
EXISTING TREE TO BE REMOVED
PERMANENT SURVEY MARK
PROPOSED DRIVEWAY

### 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

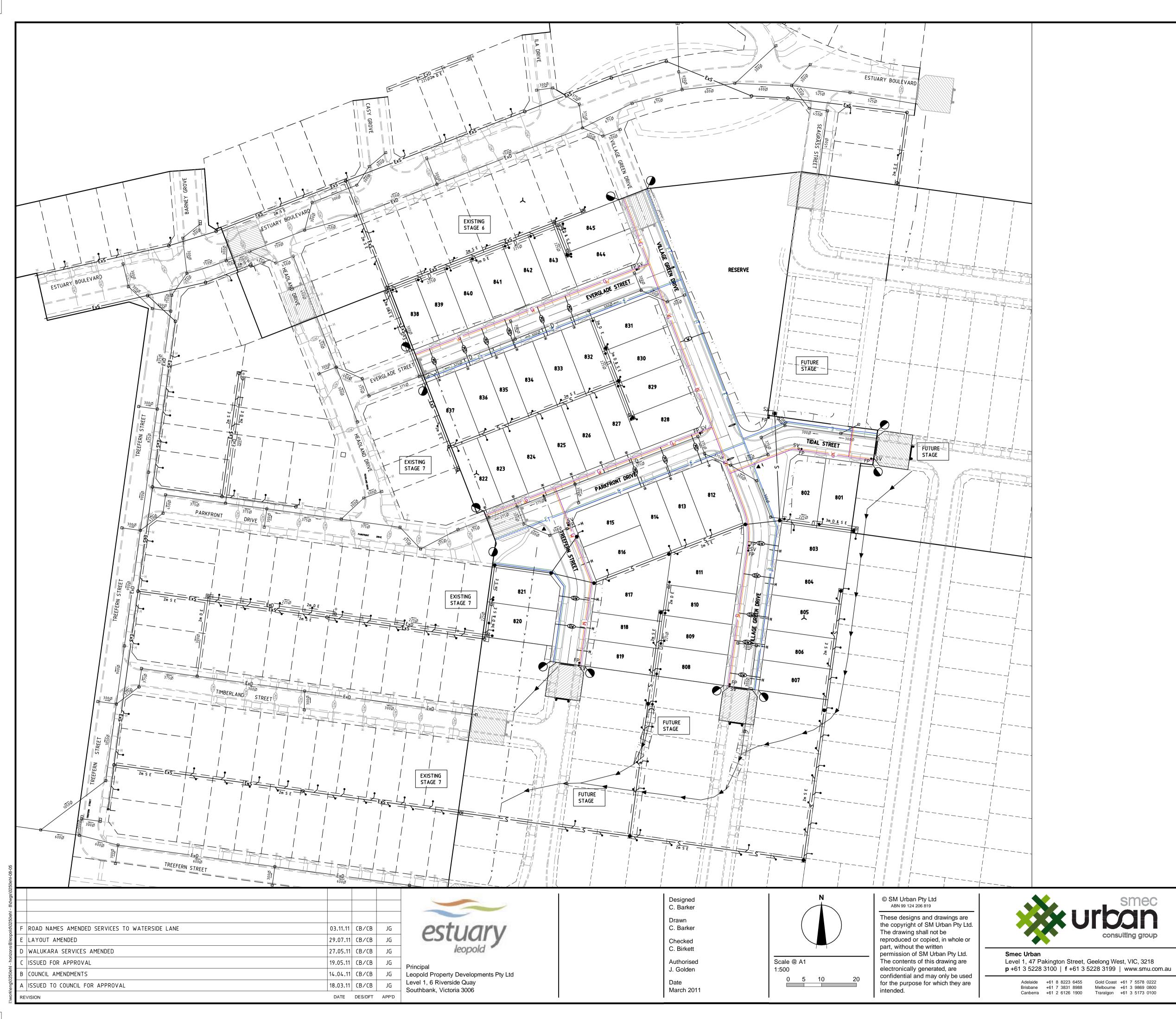
## Estuary Stage 8

Sheet No. 4 of 29

City of Greater Geelong Roadworks and Drainage Layout Plan - 2

Drawing No. 0250EHL-08-04

Rev G



LEGEND - FUNCTIONAL LAYOUT PLAN         — E       ELECTRICITY (UNDERGROUND)         — G       GAS         — T       TELSTRA         — W       WATER         — D       STORMWATER DRAIN, PIT & PROPERTY INLET         → SWALE DRAIN         ● S       SEWER & MAINTENANCE STRUCTURES        H       HOUSE DRAIN         ● SEVICE CONDUITS         ■ TACTILE PAVERS         ■ Ex E       EXISTING ELECTRICITY (UNDERGROUND)         • 0/H E       EXISTING ELECTRICITY (OVERHEAD)         ■ Ex G       EXISTING GAS         ■ Ex T       EXISTING WATER         ● Ex O       EXISTING STORMWATER DRAIN         ○ Ex S       EXISTING STORMWATER DRAIN         ○ Ex S       EXISTING SWATER         ● Ex D       EXISTING SWATER         ● Ex D       EXISTING SWATER         ● Ex D       EXISTING SUBLE DRAIN         ○ EXISTING SWALE DRAIN       >> EXISTING WATER         ■ AUBONCONCONCONCONCONCONCONCONCONCONCONCONCO	
G GAS T TELSTRA W WATER G GAS STORMWATER DRAIN, PIT & PROPERTY INLET SWALE DRAIN SWALE DRAIN SWALE DRAIN SEWER & MAINTENANCE STRUCTURES +H HOUSE DRAIN GW SERVICE CONDUITS TACTILE PAVERS EXISTING ELECTRICITY (UNDERGROUND) O/H E EXISTING ELECTRICITY (OVERHEAD) EXISTING GAS EXISTING GAS EXISTING TELSTRA EXISTING VATER EXISTING STORMWATER DRAIN C EXISTING SWALE C H EXISTING SWARE +H EXISTING SWARE C H EXISTING SWARE +H EXISTING SWARE C H EXISTING SWARE C H EXISTING SWALE DRAIN C EXISTING SWALE DRAIN C EXISTING SWALE DRAIN C C C EXISTING SWALE DRAIN C C C C C C C C C C C C C C C C C C C	LEGEND – FUNCTIONAL LAYOUT PLAN
<ul> <li>T TELSTRA</li> <li>W WATER</li> <li>O STORMWATER DRAIN, PIT &amp; PROPERTY INLET</li> <li>SWALE DRAIN</li> <li>SWALE DRAIN</li> <li>SEWER &amp; MAINTENANCE STRUCTURES</li> <li> + HOUSE DRAIN</li> <li>GW SERVICE CONDUITS</li> <li>TACTILE PAVERS</li> <li>Ex E EXISTING ELECTRICITY (UNDERGROUND)</li> <li>O/H E EXISTING ELECTRICITY (OVERHEAD)</li> <li>Ex G EXISTING GAS</li> <li>Ex T EXISTING TELSTRA</li> <li>Ex W EXISTING STORMWATER DRAIN</li> <li>EX S EXISTING STORMWATER DRAIN</li> <li>EX S EXISTING SWALE</li> <li>PAVEMENT TREATMENT</li> <li>DIRECTION OF FALL</li> <li>OVERLAND FLOW</li> <li>★ ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED</li> <li>CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN &amp; BARRIER</li> <li>C HIMIT OF WORKS</li> </ul>	ELECTRICITY (UNDERGROUND)
W       WATER         D       STORMWATER DRAIN, PIT & PROPERTY INLET         SWALE DRAIN       SEWER & MAINTENANCE STRUCTURES        +H       HOUSE DRAIN         GW       SERVICE CONDUITS         TACTILE PAVERS       Ex         Ex       E         EXISTING ELECTRICITY (UNDERGROUND)         O/H E       EXISTING ELECTRICITY (OVERHEAD)         Ex       G         Ex       S         Ex       STORMWATER         PAVEMENTING TELSTRA         Ex       W         EXISTING STORMWATER DRAIN         OF       EXISTING STORMWATER DRAIN         PAVEMENT TREATMENT       DIRECTION OF FALL         OVERLAND FLOW       X         ALLOTMENT TO BE GRADED EVENLY IN         DIRECTION OF FALL       DIRECTION OF FALL         OVERLAND FLOW       X         ALLOTMENT TO BE GRADED EVENLY IN         DIRECTION OF FALL       DIRECTION OF FALL         ONCRETE EDGE STRIP WITH SUBSOIL DRA	GAS
□       ●       STORMWATER DRAIN, PIT & PROPERTY INLET         ●       SWALE DRAIN         ●       SEWER & MAINTENANCE STRUCTURES         □       HOUSE DRAIN         ●       SERVICE CONDUITS         ■       TACTILE PAVERS         ■       Ex E         ■       EXISTING ELECTRICITY (UNDERGROUND)         □       0/H E         ■       EXISTING ELECTRICITY (OVERHEAD)         ■       Ex G         ■       EXISTING GAS         ■       Ex ISTING TELSTRA         ■       Ex ISTING STORMWATER DRAIN         ●       EXISTING STORMWATER DRAIN         ●       EXISTING STORMWATER DRAIN         ●       EXISTING SWARE         -       -         ■       EXISTING SWARE         •       EXISTING SWALE DRAIN         •       >         EXISTING SWALE DRAIN         -       -         ■       EXISTING SWALE DRAIN         •       >         ■       EXISTING SWALE DRAIN         •       >         ■       DIRECTION OF FALL         ■       OVERLAND FLOW         ★       ALLOTMENT TO BE GRADED EVENLY IN	TELSTRA
<ul> <li>SWALE DRAIN</li> <li>SEWER &amp; MAINTENANCE STRUCTURES</li> <li>HOUSE DRAIN</li> <li>SERVICE CONDUITS</li> <li>TACTILE PAVERS</li> <li>Ex E</li> <li>EXISTING ELECTRICITY (UNDERGROUND)</li> <li>O/H E</li> <li>EXISTING ELECTRICITY (OVERHEAD)</li> <li>Ex G</li> <li>EXISTING GAS</li> <li>Ex T</li> <li>EXISTING WATER</li> <li>Ex O</li> <li>EXISTING STORMWATER DRAIN</li> <li>EXISTING SEWER</li> <li>H EXISTING SWALE DRAIN</li> <li>SEXISTING SWALE DRAIN</li> <li>ZERO LOT LINES</li> <li>PAVEMENT TREATMENT</li> <li>DIRECTION OF FALL</li> <li>OVERLAND FLOW</li> <li>★ ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL</li> <li>OVERLAND FLOW</li> <li>★ ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED</li> <li>CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN &amp; BARRIER</li> </ul>	——————————————————————————————————————
<ul> <li>S - SEWER &amp; MAINTENANCE STRUCTURES</li> <li>HOUSE DRAIN</li> <li>SERVICE CONDUITS</li> <li>TACTILE PAVERS</li> <li>Ex E E EXISTING ELECTRICITY (UNDERGROUND)</li> <li>O/H E EXISTING ELECTRICITY (OVERHEAD)</li> <li>Ex G EXISTING GAS</li> <li>Ex T EXISTING TELSTRA</li> <li>Ex W EXISTING TELSTRA</li> <li>Ex D EXISTING STORMWATER DRAIN</li> <li>Ex S EXISTING SORMWATER DRAIN</li> <li>EX S EXISTING HOUSE DRAIN</li> <li>&gt; &gt; EXISTING SWALE DRAIN</li> <li>ZERO LOT LINES</li> <li>PAVEMENT TREATMENT</li> <li>DIRECTION OF FALL</li> <li>OVERLAND FLOW</li> <li>ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED</li> <li>CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN &amp; BARRIER</li> </ul>	□D
<ul> <li>- → H HOUSE DRAIN</li> <li>GW SERVICE CONDUITS</li> <li>TACTILE PAVERS</li> <li>Ex E E EXISTING ELECTRICITY (UNDERGROUND)</li> <li>O/H E EXISTING ELECTRICITY (OVERHEAD)</li> <li>Ex G EXISTING GAS</li> <li>Ex T EXISTING TELSTRA</li> <li>Ex W EXISTING WATER</li> <li>Ex D EXISTING STORMWATER DRAIN</li> <li>Ex S EXISTING SEWER</li> <li>- → EXISTING HOUSE DRAIN</li> <li>&gt; &gt; EXISTING SWALE DRAIN</li> <li>&gt; &gt; EXISTING SWALE DRAIN</li> <li>&gt; &gt; EXISTING SWALE DRAIN</li> <li>OVERLAND FLOW</li> <li>★ ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL</li> <li>OVERLAND FLOW</li> <li>★ ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED</li> <li>CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN &amp; BARRIER</li> <li>↓ LIMIT OF WORKS</li> </ul>	
GW       SERVICE CONDUITS         TACTILE PAVERS       TACTILE PAVERS         —Ex E       EXISTING ELECTRICITY (UNDERGROUND)         —O/H E       EXISTING ELECTRICITY (OVERHEAD)         —Ex G       EXISTING GAS         —Ex T       EXISTING TELSTRA         —Ex W       EXISTING WATER         —Ex D       EXISTING STORMWATER DRAIN         GEx S       EXISTING SEWER         ——H       EXISTING SWALE DRAIN         —> > EXISTING SWALE DRAIN         —— ZERO LOT LINES         PAVEMENT TREATMENT         DIRECTION OF FALL         OVERLAND FLOW         ※         ALLOTMENT TO BE GRADED EVENLY IN         DIRECTION OF FALL         OVERLAND FLOW         ※         ALLOTMENT TO BE GRADED EVENLY IN         DIRECTION OF FALL         OVERLAND FLOW         ※         ALLOTMENT TO BE GRADED EVENLY IN         DIRECTION OF FALL         OVERLAND FLOW         ※         ALLOTMENT TO BE GRADED EVENLY IN         DIRECTION OF FALL         OVERLAND FLOW         ※         ALLOTMENT TO BE GRADED EVENLY IN         DIRECTION OF FALL TO LEVELS INDICATED	●s
TACTILE PAVERS         Ex E       EXISTING ELECTRICITY (UNDERGROUND)         O/H E       EXISTING ELECTRICITY (OVERHEAD)         Ex G       EXISTING GAS         Ex T       EXISTING TELSTRA         Ex W       EXISTING WATER         Ex D       EXISTING STORMWATER DRAIN         Ex S       EXISTING SEWER        H       EXISTING SWALE DRAIN         >       > EXISTING SWALE DRAIN        H       EXISTING SWALE DRAIN        H       EXISTING SWALE DRAIN        H       EXISTING SWALE DRAIN	– –– –H HOUSE DRAIN
Ex E       EXISTING ELECTRICITY (UNDERGROUND)         O/H E       EXISTING ELECTRICITY (OVERHEAD)         Ex G       EXISTING GAS         Ex T       EXISTING TELSTRA         Ex W       EXISTING WATER         Ex D       EXISTING STORMWATER DRAIN         Ex S       EXISTING SEWER        H       EXISTING WALE DRAIN         >       > EXISTING SWALE DRAIN         PAVEMENT TREATMENT       DIRECTION OF FALL         OVERLAND FLOW       X         ALLOTMENT TO BE GRADED EVENLY IN         DIRECTION OF FALL TO LEVELS INDICATED         CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER	
<ul> <li>O/H E EXISTING ELECTRICITY (OVERHEAD)</li> <li>Ex G EXISTING GAS</li> <li>Ex T EXISTING TELSTRA</li> <li>Ex W EXISTING WATER</li> <li>Ex D EXISTING STORMWATER DRAIN</li> <li>Ex S EXISTING SEWER</li> <li>A EXISTING SWALE DRAIN</li> <li>&gt; &gt; A EXISTING SWALE DRAIN</li> <li>&gt; &gt; EXISTING LOT LINES</li> <li>PAVEMENT TREATMENT</li> <li>DIRECTION OF FALL</li> <li>OVERLAND FLOW</li> <li>★ ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED</li> <li>CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN &amp; BARRIER</li> <li>UIMIT OF WORKS</li> </ul>	TACTILE PAVERS
<ul> <li>—Ex G — EXISTING GAS</li> <li>—Ex T — EXISTING TELSTRA</li> <li>—Ex W — EXISTING WATER</li> <li>—Ex D ← EXISTING STORMWATER DRAIN</li> <li>④ — EXISTING SEWER</li> <li>- — H EXISTING HOUSE DRAIN</li> <li>→ &gt; EXISTING SWALE DRAIN</li> <li>→ &gt; EXISTING SWALE DRAIN</li> <li>— — ZERO LOT LINES</li> <li>PAVEMENT TREATMENT</li> <li>DIRECTION OF FALL</li> <li>OVERLAND FLOW</li> <li>★ ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED</li> <li>CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN &amp; BARRIER</li> <li>← ↓ LIMIT OF WORKS</li> </ul>	Ex E EXISTING ELECTRICITY (UNDERGROUND)
<ul> <li>Ex T EXISTING TELSTRA</li> <li>Ex W EXISTING WATER</li> <li>Ex D EXISTING STORMWATER DRAIN</li> <li>EX S EXISTING SEWER</li> <li>EXISTING HOUSE DRAIN</li> <li>&gt; EXISTING SWALE DRAIN</li> <li>&gt; EXISTING SWALE DRAIN</li> <li>&gt; ZERO LOT LINES</li> <li>PAVEMENT TREATMENT</li> <li>DIRECTION OF FALL</li> <li>OVERLAND FLOW</li> <li>ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED</li> <li>CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN &amp; BARRIER</li> <li>LIMIT OF WORKS</li> </ul>	O/H E EXISTING ELECTRICITY (OVERHEAD)
<ul> <li>Ex W→ EXISTING WATER</li> <li>Ex D→ EXISTING STORMWATER DRAIN</li> <li>Ex S→ EXISTING SEWER</li> <li>H EXISTING HOUSE DRAIN</li> <li>&gt; → EXISTING SWALE DRAIN</li> <li>ZERO LOT LINES</li> <li>PAVEMENT TREATMENT</li> <li>DIRECTION OF FALL</li> <li>OVERLAND FLOW</li> <li>ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED</li> <li>CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN &amp; BARRIER</li> <li>LIMIT OF WORKS</li> </ul>	Ex G EXISTING GAS
<ul> <li>Ex D EXISTING STORMWATER DRAIN</li> <li>Ex S EXISTING SEWER         <ul> <li>EXISTING HOUSE DRAIN</li> <li>EXISTING SWALE DRAIN</li> <li>EXISTING SWALE DRAIN</li> <li>ZERO LOT LINES</li> <li>PAVEMENT TREATMENT</li> <li>DIRECTION OF FALL</li> <li>OVERLAND FLOW</li> <li>ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED</li> <li>CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN &amp; BARRIER</li> <li>LIMIT OF WORKS</li> </ul> </li> </ul>	Ex T EXISTING TELSTRA
<ul> <li>→ Existing sewer</li> <li>→ H Existing house drain</li> <li>→ Existing swale drain</li> <li>→ ZERO LOT LINES</li> <li>PAVEMENT TREATMENT</li> <li>DIRECTION OF FALL</li> <li>OVERLAND FLOW</li> <li>★ ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED</li> <li>CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN &amp; BARRIER</li> <li>→ LIMIT OF WORKS</li> </ul>	
<ul> <li>+ EXISTING HOUSE DRAIN</li> <li>-&gt; EXISTING SWALE DRAIN</li> <li></li></ul>	Ex D EXISTING STORMWATER DRAIN
<ul> <li>&gt;&gt; EXISTING SWALE DRAIN</li> <li> ZERO LOT LINES</li> <li>PAVEMENT TREATMENT</li> <li>DIRECTION OF FALL</li> <li>OVERLAND FLOW</li> <li>* ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED</li> <li>CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN &amp; BARRIER</li> <li>LIMIT OF WORKS</li> </ul>	O-Ex S-EXISTING SEWER
<ul> <li>ZERO LOT LINES</li> <li>PAVEMENT TREATMENT</li> <li>DIRECTION OF FALL</li> <li>OVERLAND FLOW</li> <li>ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED</li> <li>CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN &amp; BARRIER</li> <li>LIMIT OF WORKS</li> </ul>	+ EXISTING HOUSE DRAIN
<ul> <li>PAVEMENT TREATMENT</li> <li>DIRECTION OF FALL</li> <li>OVERLAND FLOW</li> <li>★ ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED</li> <li>CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN &amp; BARRIER</li> <li>↓ LIMIT OF WORKS</li> </ul>	> EXISTING SWALE DRAIN
DIRECTION OF FALL OVERLAND FLOW ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER UIMIT OF WORKS	— — ZERO LOT LINES
<ul> <li>OVERLAND FLOW</li> <li>ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED</li> <li>CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN &amp; BARRIER</li> <li>LIMIT OF WORKS</li> </ul>	PAVEMENT TREATMENT
<ul> <li>ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED</li> <li>CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN &amp; BARRIER</li> <li>LIMIT OF WORKS</li> </ul>	DIRECTION OF FALL
DIRECTION OF FALL TO LEVELS INDICATED CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER UIMIT OF WORKS	
CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER UIMIT OF WORKS	st allotment to be graded evenly in
"NO ROAD" SIGN & BARRIER $\rightarrow$ LIMIT OF WORKS	
← → LIMIT OF WORKS	
$(\bigotimes)$ EXISTING TREE TO BE REMOVED	
	(X) EXISTING TREE TO BE REMOVED

#### 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

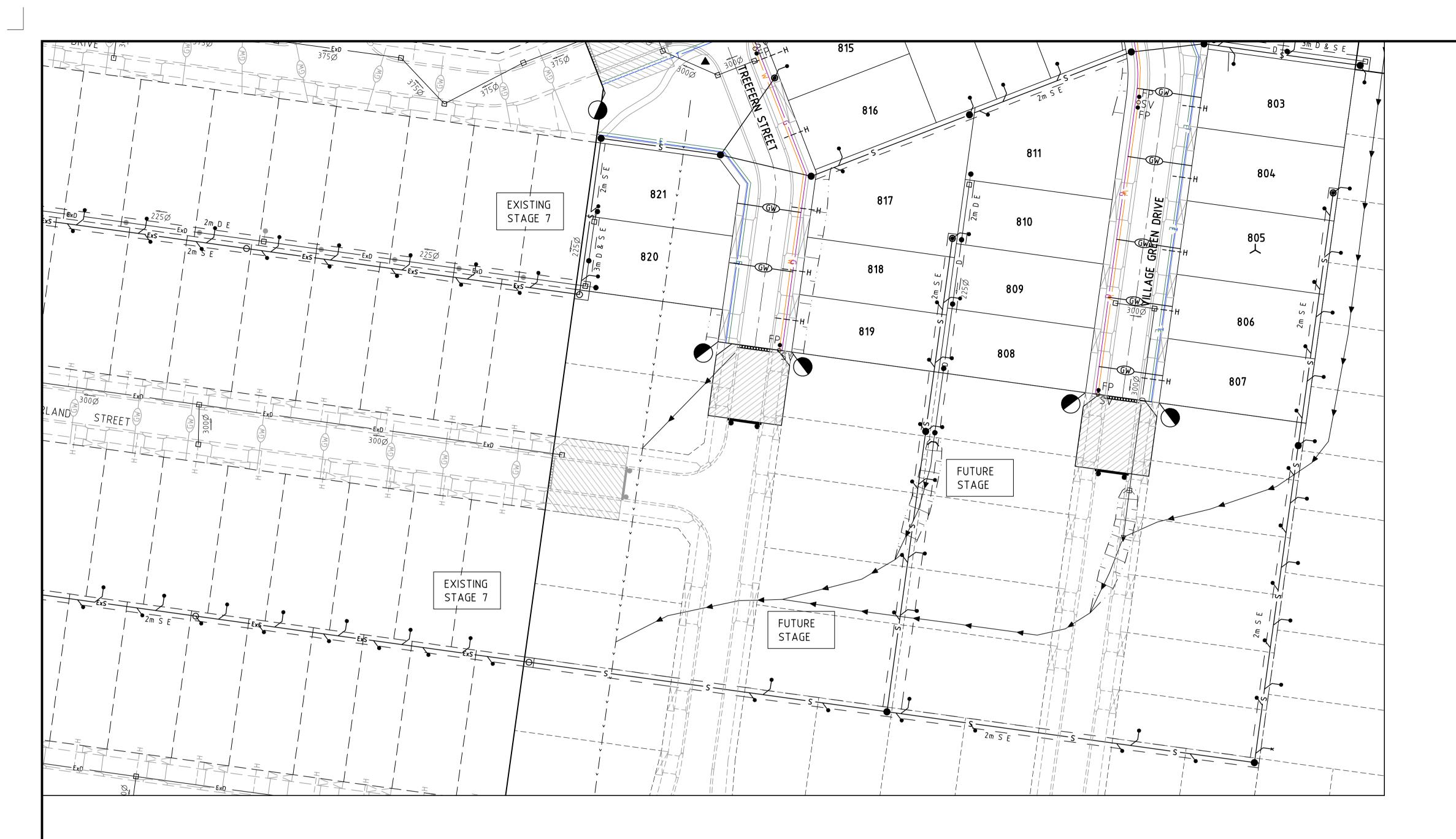


## Estuary Stage 8

City of Greater Geelong Roadworks and Drainage Services Layout Plan - 1

Drawing No. 0250EHL-08-05 Sheet No. 5 of 29

Rev F

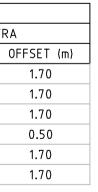


		SER	VICES OFFSET	SCHEDULE				
	G	GAS		WATER		ELECTRICITY		
ROAD NAME	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OF
EVERGREEN STREET	NORTH	2.10	NORTH	2.70	SOUTH	2.30	SOUTH	
PARKFRONT DRIVE	NORTH	2.10	NORTH	2.70	SOUTH	2.30	SOUTH	
TIDAL STREET	SOUTH	2.10	SOUTH	2.70	NORTH	2.30	NORTH	
VILLAGE GREEN DRIVE LOTS 806-811	WEST	2.10	WEST	2.70	EAST	1.00	EAST	
VILLAGE GREEN DRIVE LOTS 836-840	WEST	2.10	WEST	2.70	EAST	2.30	EAST	
TREEFERN STREET	EAST	2.10	WEST	2.70	EAST	2.30	EAST	

					1
F	ROAD NAMES AMENDED	03.11.11	СВ∕СВ	JG	P
E	LAYOUT AMENDED	29.07.11	CB/CB	JG	C
D	WALUKARA SERVICES AMENDED	27.05.11	CB/CB	JG	
С	ISSUED FOR APPROVAL	19.05.11	CB/CB	JG	Principal
В	COUNCIL AMENDMENTS	14.04.11	CB/CB	JG	Leopold P
Α	ISSUED TO COUNCIL FOR APPROVAL	18.03.11	CB/CB	JG	Level 1, 6 Southbank
REV	ISION	DATE	DES/DFT	APP'D	Couribani



old Property Developments Pty Ltd 1, 6 Riverside Quay bank, Victoria 3006



Designed C. Barker	N	© SM Urban Pty Ltd ABN 99 124 206 819	
Drawn C. Barker Checked		These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be reproduced or copied, in whole or part, without the written	XXX UI
C. Birkett Authorised J. Golden	Scale @ A1 1:500	permission of SM Urban Pty Ltd. The contents of this drawing are electronically generated, are	Smec Urban Level 1, 47 Pakington Street, Gee p +61 3 5228 3100   f +61 3 522
Date March 2011	0 5 10 20	confidential and may only be used for the purpose for which they are intended.	Adelaide +61 8 8223 6455 C Brisbane +61 7 3831 8988 N Canberra +61 2 6126 1900 T

LEGEND – LAYOUT PLAN
□
●───S──┬─● SEWER & MAINTENANCE STRUCTURES
TACTILE PAVERS
Ex E EXISTING ELECTRICITY (UNDERGROUND)
Ex G EXISTING GAS
Ex T EXISTING TELSTRA
Ex W EXISTING WATER
EXISTING STORMWATER DRAIN
⊖—Ex s── EXISTING SEWER
H EXISTING HOUSE DRAIN
>> EXISTING SWALE DRAIN
141.34 EXISTING SURFACE LEVEL
FS140.35 FINISHED BUILDING LINE LEVEL
FR157.40 FINISHED RIDGE LINE LEVEL
TW159.30 TOP OF RETAINING WALL
BW159.30 BOTTOM OF RETAINING WALL
8 RETAINING WALL
— — ZERO LOT LINES
PAVEMENT TREATMENT
STRUCTURAL FILL > 200mm DEEP
EX. STRUCTURAL FILL > 200mm DEEP
DIRECTION OF FALL
OVERLAND FLOW
st allotment to be graded evenly in
DIRECTION OF FALL TO LEVELS INDICATED
CONCRETE EDGE STRIP WITH SUBSOIL DRAIN,
"NO ROAD" SIGN & BARRIER
EXISTING TREE TO BE REMOVED
PERMANENT SURVEY MARK
TEMPORARY BENCH MARK
PROPOSED DRIVEWAY

#### 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



eelong West, VIC, 3218 228 3199 | www.smu.com.au

 Gold Coast
 +61
 7
 5578
 0222

 Melbourne
 +61
 3
 9869
 0800

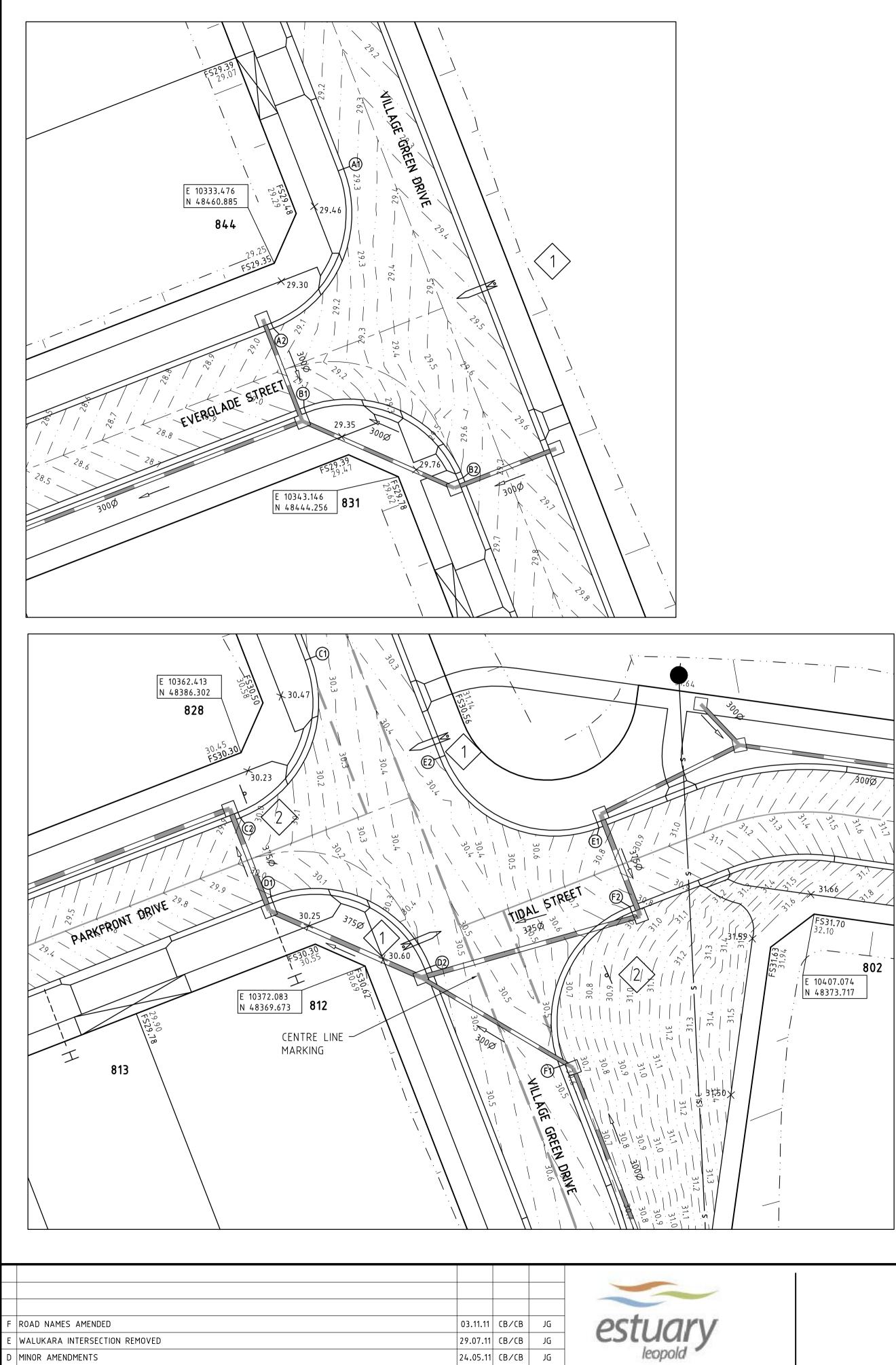
 Traralgon
 +61
 3
 5173
 0100

## Estuary

Stage 8 City of Greater Geelong Roadworks and Drainage Services Layout Plan - 2

Drawing No. 0250EHL-08-06 Sheet No. 6 of 29

Rev F



D MINOR AMENDMENTS

C ISSUED FOR APPROVAL

A ISSUED TO COUNCIL FOR APPROVAL

B COUNCIL AMENDMENTS

REVISION

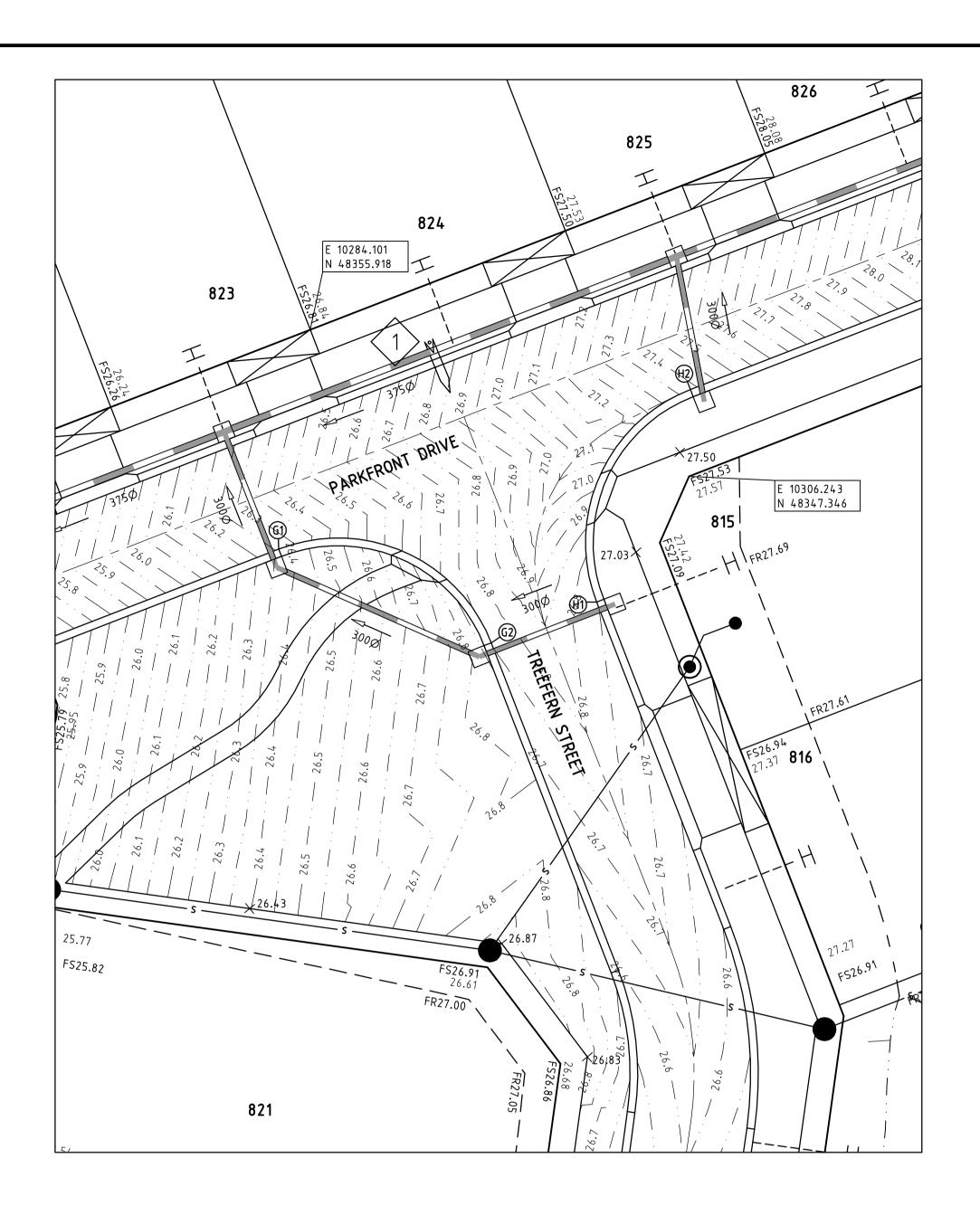
Principal
Leopold Property Developments Pty Ltd
Level 1, 6 Riverside Quay
Southbank, Victoria 3006

19.05.11 CB/CB JG

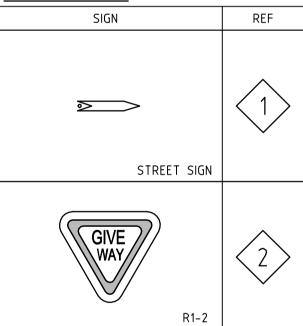
14.04.11 CB/CB JG

18.03.11 CB/CB JG

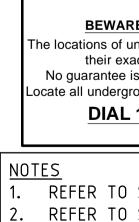
DATE DES/DFT APP'D







LEGEND - INTERSECTION PLAN
□━━━━━━━━━ STORMWATER DRAIN, PIT & PROPERTY INLET
●s
H HOUSE DRAIN
TACTILE PAVERS
H EXISTING HOUSE DRAIN
RETAINING WALL
PAVEMENT TREATMENT
CONCRETE EDGE STRIP WITH SUBSOIL DRAIN,
"NO ROAD" SIGN & BARRIER
← ← LIMIT OF WORKS
EXISTING TREE TO BE REMOVED
PERMANENT SURVEY MARK
人 TEMPORARY BENCH MARK
PROPOSED DRIVEWAY



	Designed C. Barker	N	© SM Urban Pty Ltd ABN 99 124 206 819	
	Drawn C. Barker Checked		These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be reproduced or copied, in whole or part, without the written	×xx Ur
C. Birkett Authorised J. Golden	Scale @ A1 1:200	part, without the written permission of SM Urban Pty Ltd. The contents of this drawing are electronically generated, are	<b>Smec Urban</b> Level 1, 47 Pakington Street, Geelo <b>p</b> +61 3 5228 3100   <b>f</b> +61 3 5228 3	
	Date March 2011	0 2 4 8	confidential and may only be used for the purpose for which they are intended.	Adelaide +61 8 8223 6455 Gold Brisbane +61 7 3831 8988 Mell Canberra +61 2 6126 1900 Tran

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

1. REFER TO SHEET No's 8 - 9 FOR LIP PROFILES. 2. REFER TO SHEET No 10 FOR SETOUT INFORMATION.



## Estuary

Stage 8 City of Greater Geelong Roadworks and Drainage Intersection Detail Plan

eelong West, VIC, 3218 228 3199 | www.smu.com.au

 Gold Coast
 +61
 7
 5578
 0222

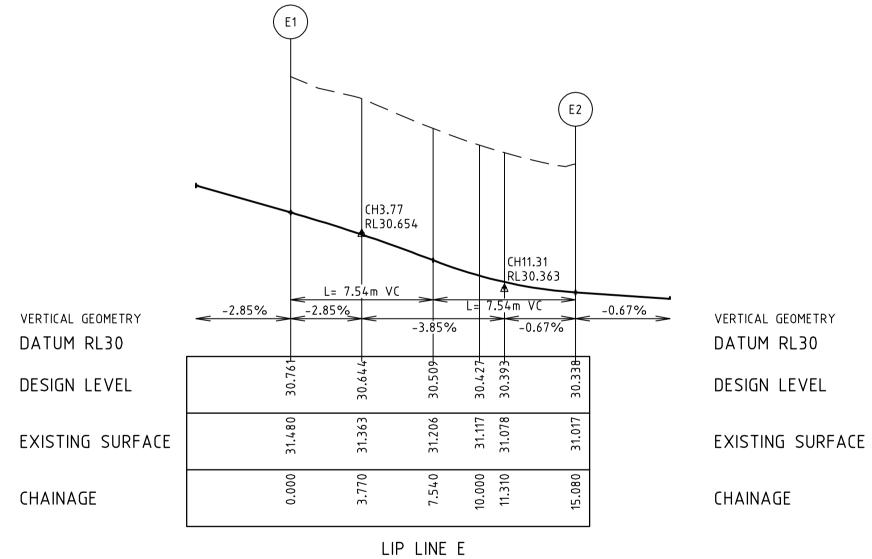
 Melbourne
 +61
 3
 9869
 0800

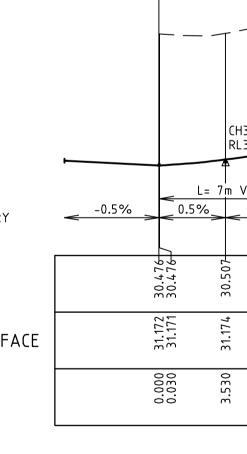
 Traralgon
 +61
 3
 5173
 0100

#### Drawing No. 0250EHL-08-07 Sheet No. 7 of 29

Rev F

	A1	CH3.77 RL29.316		A2		B1
VERTICAL GEOMETRY DATUM RL28 DESIGN LEVEL	<ul> <li>1.32%</li> <li>1.32</li> <li>1.32</li> <li>5.6</li> <li>6</li> </ul>	29.279 <u>29.219</u> <u>29.219</u> <u>29.219</u> <u>29.219</u> <u>29.219</u> <u>29.219</u>	-2.57%	-2.44% > 970762	VERTICAL GEOMETRY DATUM RL28 DESIGN LEVEL	2.44% 2.44% 2.44% 2.44% 2.44% 2.60 60
EXISTING SURFACE	29.407	29.444	29.394	29.253	EXISTING SURFACE	29.342
CHAINAGE	0.000	3.770	10.000	15.080	CHAINAGE	0000
		LIP LIN	ΕA			
	E1					

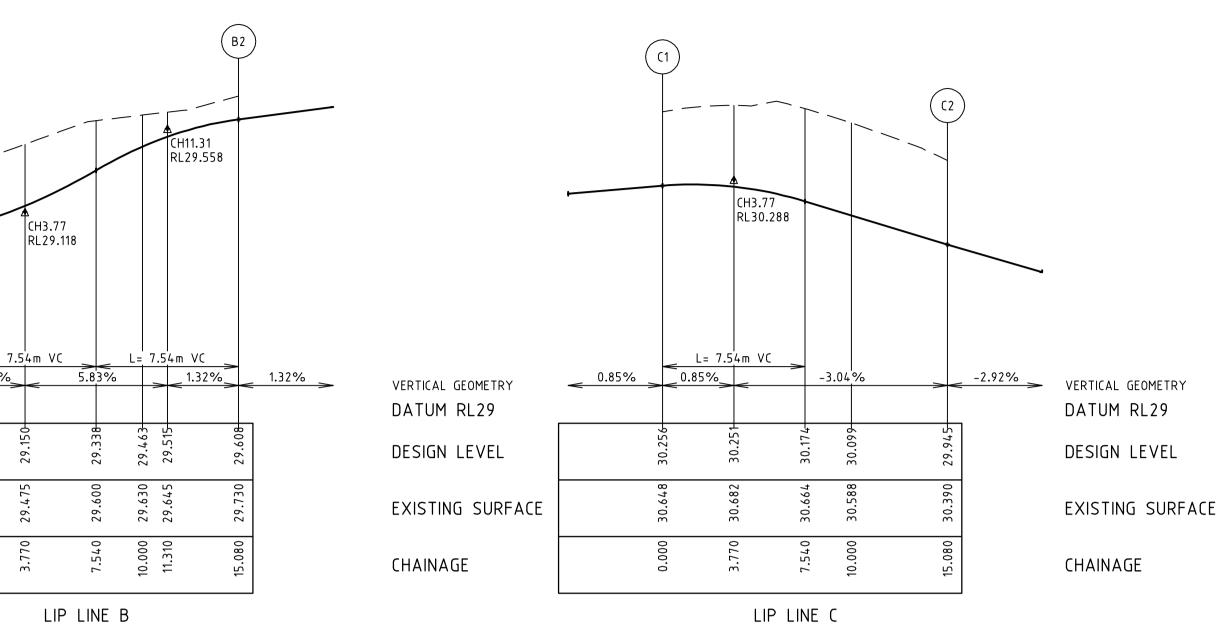


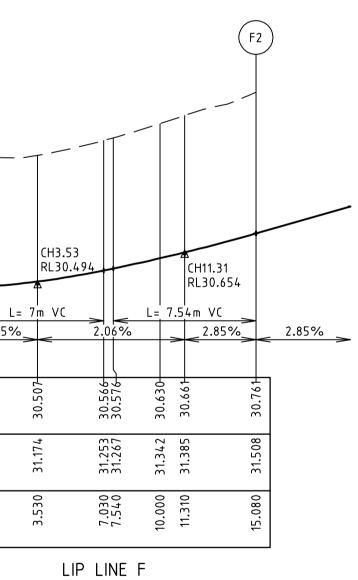


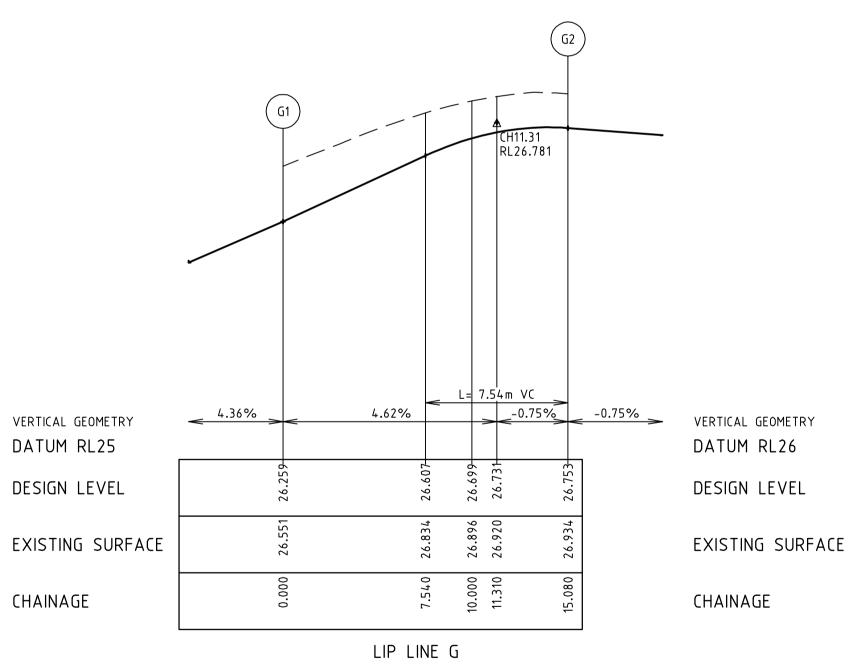
 $\bigcirc$ F1 )

<u>NOTES</u> 1. CHAINAGES REFER TO LIP OF KERB/EDGE OF CONCRETE. 2. REFER TO SHEET No 10 FOR SETOUT INFORMATION.

					estuary
	ISSUED FOR APPROVAL	19.05.11	CB/CB	JG	Principal
В	COUNCIL AMENDMENTS	14.04.11	CB/CB	JG	Leopold Property Developments Pty Ltd
Ϋ́Α	ISSUED TO COUNCIL FOR APPROVAL	18.03.11	СВ/СВ	JG	Level 1, 6 Riverside Quay Southbank, Victoria 3006
RE	VISION	DATE	DES/DFT	APP'D	



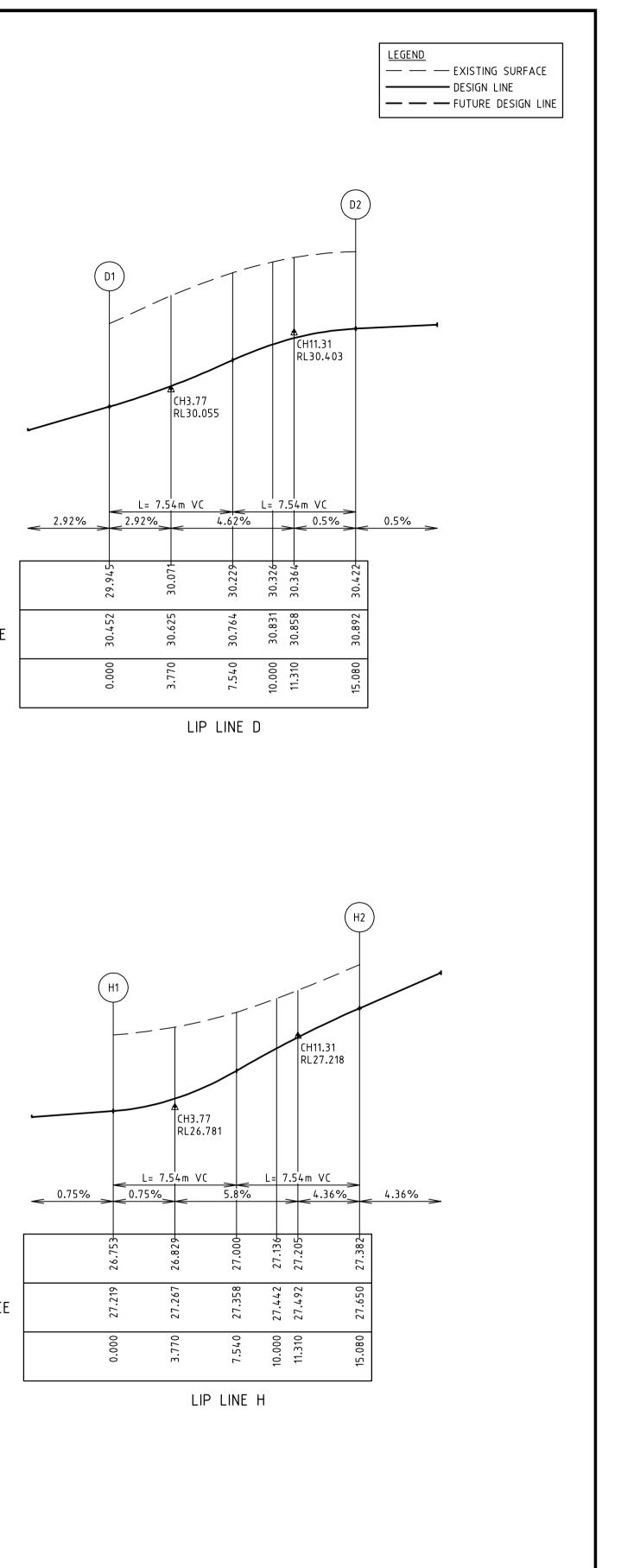




© SM Urban Pty Ltd ABN 99 124 206 819 Designed C. Barker These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be Drawn C. Barker consulting group reproduced or copied, in whole or Checked part, without the written C. Birkett **Smec Urban** Level 1, 47 Pakington Street, Geelong West, VIC, 3218 **p** +61 3 5228 3100 | **f** +61 3 5228 3199 | www.smu.com.au permission of SM Urban Pty Ltd. Scale @ A1 The contents of this drawing are Authorised electronically generated, are J. Golden H1:200, V1:20 confidential and may only be used 0 2 4 
 Adelaide
 +61
 8
 8223
 6455
 Gold Coast
 +61
 7
 5578
 0222

 Brisbane
 +61
 7
 3831
 8988
 Melbourne
 +61
 3
 9869
 0800

 Canberra
 +61
 2
 6126
 1900
 Traralgon
 +61
 3
 5173
 0100
 Date for the purpose for which they are March 2011 intended. 0.8





Estuary

Stage 8 City of Greater Geelong Roadworks and Drainage Lip Profiles - 1

Drawing No. 0250EHL-08-08 Sheet No. 8 of 29

Rev C

\_\_\_\_\_

					estuary
	RETURNS I & J REMOVED	29.07.11	CB/CB	JG	leopold *
	ISSUED FOR APPROVAL	19.05.11	CB/CB	JG	Principal
E	COUNCIL AMENDMENTS	14.04.11	СВ∕СВ	JG	Leopold Property Developments Pty Ltd
A	ISSUED TO COUNCIL FOR APPROVAL	18.03.11	CB/CB	JG	Level 1, 6 Riverside Quay Southbank, Victoria 3006
R	EVISION	DATE	DES/DFT	APP'D	

# $\mathbb{N}$ $\mathbb{O}$ $\mathbb{T}$ $\mathbb{O}$ $\mathbb{S}$ $\mathbb{E}$ $\mathbb{D}$

Designed C. Barker		© SM Urban Pty Ltd ABN 99 124 206 819	
Drawn C. Barker Checked		These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be reproduced or copied, in whole or part without the written	
C. Birkett Authorised J. Golden	Scale @ A1 H1:200, V1:20	part, without the written permission of SM Urban Pty Ltd. The contents of this drawing are electronically generated, are	Smec Urban Level 1, 47 Pakington Street, Geelong Wes p +61 3 5228 3100   f +61 3 5228 3199
Date March 2011	0 2 4 0 0.2 0.4 0	<ul> <li>confidential and may only be used for the purpose for which they are intended.</li> </ul>	Adelaide +61 8 8223 6455 Gold Coast Brisbane +61 7 3831 8988 Melbourne Canberra +61 2 6126 1900 Traralgon

#### <u>LEGEND</u>

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



elong West, VIC, 3218 28 3199 | www.smu.com.au

Gold Coast+61755780222Melbourne+61398690800Traralgon+61351730100

**Estuary** Stage 8 City of Greater Geelong Roadworks and Drainage Lip Profiles - 2

Drawing No. 0250EHL-08-09 Sheet No. 9 of 29

Rev D

<u>ALIGNMENT A</u>									
POINT NO A1 A2	E A S T I N G 1 0 3 3 8 . 8 8 3 1 0 3 3 3 . 4 0 5	N O R T F 4 8 4 6 4 8 4 5 5	8.238	RL 29.266 29.026					
CURVE NO A1 - A2	ا 90.000	RADIUS 9.600	ARC 15.080	A 2.8 1 2	B 2.0 8 1	X 3.674	Y 3.114	L 3.770	MID POINT RL 29.219
<u>ALIGNMENT B</u>									
POINT NO B1 B2	E A S T I N G 1 0 3 3 5 . 7 9 2 1 0 3 4 8 . 2 1 5	N O R T H 4 8 4 4 4 4 8 4 4 4	9.663	RL 29.026 29.608					
CURVE NO B1 - B2	l 90.000		ARC 15.080	A 2.8 1 2	B 2.0 8 1	X 3.674	Y 3.114	L 3.770	MID POINT RL 29.338
<u>ALIGNMENT C</u>									
POINT NO C1 C2	E A S T I N G 1 0 3 6 7 . 8 2 0 1 0 3 6 2 . 3 4 2	N O R T H 4 8 3 9 4 8 3 8	3.655	RL 30.256 29.945					
CURVE NO C1 - C2	 90.000	R A D I U S 9 . 6 0 0	ARC 15.080	A 2.812	B 2.0 8 1	X 3.674	Y 3.114	L 3.770	MID POINT RL 30.174
<u>ALIGNMENT D</u>									
POINT NO D1 D2	E A S T I N G 1 0 3 6 4 . 7 3 0 1 0 3 7 7 . 1 5 2	N O R T F 4 8 3 7 5 4 8 3 6 5	5.079	RL 29.945 30.422					
CURVE NO D1 – D2	 90.000	R A D I U S 9 . 6 0 0	ARC 15.080	A 2.812	B 2.0 8 1	X 3.674	Y 3.114	L 3.770	MID POINT RL 30.229
<u>ALIGNMENT E</u>									
POINT NO E1 E2	E A S T I N G 1 0 3 9 0 . 3 1 9 1 0 3 7 7 . 8 9 7	N O R T F 4 8 3 8 4 8 3 8	0.451	RL 30.761 30.338					
CURVE NO E1 - E2	 90.000	RADIUS 9.600	ARC 15.080	A 2.8 1 2	B 2.0 8 1	X 3.674	Y 3.114	L 3.770	MID POINT RL 30.509
<u>ALIGNMENT F</u>									
POINT NO F1 F2	E A S T I N G 1 0 3 8 7 . 2 2 9 1 0 3 9 2 . 7 0 7	N O R T F 4  8  3  6 4  8  3  7	1.876	RL 30.476 30.761					
CURVE NO F1 - F2	 90.000	RADIUS 9.600	ARC 15.080	A 2.8 1 2	B 2.0 8 1	X 3.674	Y 3.114	L 3.770	MID POINT RL 30.576
<u>ALIGNMENT G</u>									
POINT NO G1 G2	E A S T I N G 1 0 2 8 2 . 2 6 1 1 0 2 9 4 . 6 8 4	N O R T F 4 8 3 4 4 8 3 3	3.083	RL 26.259 26.753					
CURVE NO G1 – G2	 90.000	RADIUS 9.600	ARC 15.080	A 2.812	B 2.0 8 1	X 3.674	Y 3.114	L 3.770	MID POINT RL 26.607
<u>ALIGNMENT H</u>									
POINT NO H 1 H 2	E A S T I N G 1 0 3 0 0 . 8 3 7 1 0 3 0 6 . 3 1 4	N O R T H 4 8 3 3 4 4 8 3 5 5	9.993	RL 26.753 27.382					
CURVE NO H1 - H2	I 90.000	R A D I U S 9 . 6 0 0	ARC 15.080	A 2.812	B 2.081	X 3.674	Y 3.114		MID POINT RL 27.000

NOTES 1. SETOUT CO-ORDINATES REFER TO LIP OF KERB/EDGE OF CONCRETE. 2. REFER TO SHEET No's 8 - 9 FOR LIP PROFILES.

	ROAD NAMES AMENDED	03.11.11	СВ∕СВ	JG	estuary
	RETURNS I & J REMOVED	29.07.11	СВ∕СВ	JG	leopold "
	ISSUED FOR APPROVAL	19.05.11	СВ∕СВ	JG	Principal
E	COUNCIL AMENDMENTS	14.04.11	CB/CB	JG	Leopold Property Developments Pty Ltd
	ISSUED TO COUNCIL FOR APPROVAL	18.03.11	CB/CB	JG	Level 1, 6 Riverside Quay Southbank, Victoria 3006
F	EVISION	DATE	DES/DFT	APP'D	

	y B   x A   x B   y B   x B   y C. Barker   Drawn   C. Barker   C. Barker   C. Barker   C. Barker   C. Barker   C. Barker   Drawn   C. Barker   Designed   D. Barker   Drawn   C. Barker   Data
	IP 1 COORDINATE = 10381.2411 48267.2527 CHAINAGE = 499.1500 IP 2 COORDINATE = 10390.1125 48331.3784 CHAINAGE = 563.8864 INTERSECT ANGLE = 0°00'00" IP 3 COORDINATE = 10391.5344 48341.6558 CENTRE = 10350.4899 48336.8600
	499.15010381.24148267.2537°52'36"IP500.00010381.35848268.0957°52'36"TC563.88610390.11348331.3787°52'36"TC565.00010390.25048332.4836°16'53"TC570.00010390.48548337.475359°07'10"575.00010390.09748342.456351°57'27"580.00010389.09048347.351344°47'44"584.19010387.78148351.329338°47'40"584.19010387.78148366.068338°47'40"600.00010345.89148459.297338°47'40"735.97110332.88048492.832338°47'40"
	<u>VILLAGE GREEN DRIVE DESIGN LINE</u> CHAINAGE EASTING NORTHING BEARING
	INTERSECT ANGLE = 0°00'00" IP 5 COORDINATE = 10442.3946 48376.9068 CHAINAGE = 64.8304
RL	COORDINATE = 10409.1371 48381.5078 LENGTH = 5.1876 CHAINAGE = 31.2562 BEARING = 97°52′36″ IP 4 COORDINATE = 10409.1371 48381.5078 CHAINAGE = 31.2562
RL	START TANGENT COORDINATE = 10399.1620 48380.3422 LENGTH = 5.1876 CHAINAGE = 21.1046 BEARING = 68°47′40″ END TANGENT
	IP 3 COORDINATE = 10403.9984 48382.2187 CENTRE = 10406.3963 48361.6965 RADIUS = 20.0000 LENGTH = 10.1516 INTERSECT ANGLE = 29°04'56"
R L	IP 1 COORDINATE = 10379.4864 48372.7084 CHAINAGE = 0.0000 IP 2 COORDINATE = 10399.1620 48380.3422 CHAINAGE = 21.1046 INTERSECT ANGLE = 0°00'00"
RL	CHAINAGE         EASTING         NORTHING         BEARING           0.000         10379.486         48372.708         68°47'40"         IP           21.105         10399.162         48380.342         68°47'40"         TC           25.000         10402.907         48381.390         79°57'14"         TC           31.256         10409.137         48381.508         97°52'36"         IP           64.830         10442.395         48376.907         97°52'36"         IP
	COORDINATE = 10293.0943 48350.8257 CHAINAGE = 189.5989 <u>TIDAL STREET DESIGN LINE</u>
RL	IP 4 COORDINATE = 10305.1845 48319.6643 CHAINAGE = 156.1743 INTERSECT ANGLE = 0°00'00" IP 5
	END TANGENT COORDINATE = 10305.1845 48319.6643 LENGTH = 5.1876 CHAINAGE = 156.1743 BEARING = 338°47'40"
RL	START TANGENT COORDINATE = 10306.3500 48309.6892 LENGTH = 5.1876 CHAINAGE = 146.0227 BEARING = 7°52′36″
RL	IP 3 COORDINATE = 10307.0609 48314.8279 CENTRE = 10286.5387 48312.4300 RADIUS = -20.0000 LENGTH = 10.1516 INTERSECT ANGLE = 29°04'56"
	COORDINATE = 10301.9959 48278.2162 CHAINAGE = 114.2500 IP 2 COORDINATE = 10306.3500 48309.6892 CHAINAGE = 146.0227 INTERSECT ANGLE = 0°00'-0"
RL	114.250       10301.996       48278.216       7°52'36"       IP         146.023       10306.350       48309.689       7°52'36"       TC         150.000       10306.501       48313.657       356°28'57"         156.174       10305.184       48319.664       338°47'40"       CT         156.174       10305.184       48319.664       338°47'40"       IP         189.599       10293.094       48350.826       338°47'40"       IP         IP       1       10305.184       48319.664       338°47'40"       IP
	<u>TREEFERN STREET DESIGN LINE</u> CHAINAGE EASTING NORTHING BEARING

	R A E L E N I N 1	IGT	Н		T	А	.N	GL	E		=								2	0		0   3   ' !	0 3	3 2	2												
	STA	R T	-	ΤA	N (	5 E	N	Т																													
	L (	0 0 0 . E N . H A 8 E A	G I N	T H N A	 \        G	Ξ		=	:							39 1 56 7°	0 3	•	3 8	7 8	5 6	3 4						4	8	3	3	1	•	3	7	8 4	٢
	END	) T	A١	N C	iEN	١T																															
ΙP	L	00 EN HA BEA	G I N	T H N A	 \        G	Ξ		=	:						-	38 1 58 3°	0 4	•	3 1	7 8	5 9	3 6						4	8	3	5	1	•	3	2	86	<b>)</b>
	сос СНА ІN1 5	IN ER	A (	5 E			=									7. +.	1	8	9	6		' (				4	8	3	5	1	•	3	2	8	6		
ΙF	сос СНА	RD														2.										4	8	4	9	2		8	3	2	2		
PA	<u>RKF</u> CHA																		0	П	т	ы			-						D	F	•	п			_
	CΠA	A I IN	ΑU	л с				ге	5									IN.	υ	ĸ				ΝI	1								Α	ĸ			
ΙP	2 ( 2 8	54. )0. 31.	3 ( 0 (	59 00	)			1 1	0 0	2 2	66	• •	7 9	5 7	3 2					4 4	8 8	3 / 3 !	4 ( 5 ]	0 3	. 6 . 4		6 4					6 6	8 8	°	4 4	7' 7'	
	2 (	54. )0. 31.	3 0 0 0 8 0 1 1	59 00 31	, , , T E	Ξ		1 1 1	0 0 0	2 2 3	66 99		7 9 5	5 7 6 2	3 2 2 6 6		7	5	3	4 4 4	8 8 8	3 / 3 ! 3 !	4 ( 5 ]	0 3	. 6 . 4	0 9 2	6 4 2					6 6 6	8 8 8	0 0 0	4 4 4	7' 7'	4 4
	2 ( 2 8 1 C 0 ( C H A	94. 90. 91. 9RD	3 6 3 0 3 0 1 1 1 1	5 9 0 0 5 1 5 E			= =	1 1 1	0 0 0	2 2 3	66 99	· · · · · · · · · · · · · · · · · · ·	7 9 5 0	5 7 6 2 1 3	3 2 6 6 7 7	δ.	7 3 5	5 6 6	3 8 2	444 19 4	8 8 8	3 / 3 ! 3 !	4 ( 5 ]	0 3	. 6 . 4 . 8	50 9 2	6 4 2 8	3	4	0		6 6 6	8 8 0	。 。 5	4 4 7	7' 7'	4 4
ΙP	2 0 2 8 1 C 0 0 C H A 2 C 0 0	) 4 . ) 0 . ) R D ) R D ) R D ) R D	3 0 0 ( 0 8 1 N A ( 1 N A (		T E	Ē	= = = <u>E E</u>	1 1 1	0000	2 2 3	6 6 9 9 7 5	· . · . 1	7 9 5 0 0	5762132	3 2 6 6 7 5 7	5. +. 5.	73 50 N	56 68 E	3 8 2 1	444 19 40	8 8 8	3	4 0 5 : 8 :	032	. 4	6 0 9 2 4 4	642 8	3	4 8	0	•	6 6 6 8	8 8 0 2	。 。 5 2	4 4 7 2	7' 7'	444
I Р <u>Е V</u>	2 ( 2 8 1 C 0 ( C H A 2 C 0 ( C H A <u>( E R G</u> C H A 2 C 1 ( 1 6 1 6	) 4 . ) 0 . ) R D ) R D ) R D ) R D	3 0 0 0 1 1 A 0 1 1 A 0 A 0 0 0		x T 6 : : : : :	Ē	= = = <u>E E</u>	1 1 1 <u>5</u> E A	0 0 0 0 0 0	2 3 <u>D E</u> T 2 2	6 6 9 9 7 5 <u>5</u> 5 1 N 3 0	1 1 1 1 1 1	7 9 5 0 0 <u>6</u> 7 6	576 21 32 <u>7</u> 58	3 2 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	5 . + · 1 . 	73 50 N	5668 <u>E</u> N	3 8 2 1 0	444 19 40 R 44	8 8 8 7 8	333 H 41	4 ( 5 : 8 : 1   1 : 3 :	0 3 2 N 0 3 5	. 6 . 4 . 8 . 7	90 92 4 4 90	642 88 92	3	4	0	B	6 6 6 8 E 6 6	888 0 2 A 88	。。 5 2 R 。。	44472144	7' 7' 7' 7'	4 4 5 4 4
IР <u>Е</u> V IР	2 ( 2 8 1 C 0 C C H A 2 C 0 C C H A <u>2</u> C 0 C C H A 1 C 1 C C 0 C C H A	54. 00. 10. 00. 00. 00. 00. 00. 00	3 0 0 0 1 1 1 1 0 0 0 0 0 0 0 0 1 1 1 1			E R	= = = <u>E E</u>	1 1 1 E A 1 1 1	0 0 0 0 0 0	2 3 <u>D E</u> T 2 2	6 6 9 9 7 5 <u>5</u> 5 1 N 3 0	1 1 1 1 1 1	795 0 0 766 0	5762132 <u>7</u> 5822		5 . + · 1 . 	7350 N	5668 <u>E</u> N 5	38 21 0	444 19 40 R 444 6	8 8 8 8 8 8 8	333 H 41	4 ( 5 : 8 : 1   1 : 3 :	0 3 2 N 0 3 5	. 6 . 4 . 8 . 7		642 8 8 925	3	4	0	B	6 6 6 8 E 6 6 6	888 0 2 A 888	。。。 5 2 R。。。	444 7 2 1 444	7' 7' 7' 7'	4 4 5 4 4
IР <u>Е</u> V IР	2 ( 2 8 1 C 0 ( C H A 2 C 0 ( C H A <u>(C H A</u> C H A 1 ( 1 6 1 C 0 (	54. 00. 10 10 10 10 10 10 10 10 10 10	3 6 3 0 3 0 3 0 3 0 4 0 1 1 4 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			E R	= = = = = =	1 1 1 E A 1 1 1	0 0 0 0 0 0	2 2 3 <u>D E</u> T 2 2 3	6 6 9 5 7 5 1 N 3 9 6	1 1 1 1 1 1 1 1	795 0 0 766 0	576 21 32 7 582 2 3		5 . 	73 50 N 70 6	56 68 <u>E</u> N 50 2	3821 0005	444 19 40 R 444 60 2	8 8 8 8 8 8	333 H 41	4 ( 5 : 8 : 1   1 : 3 :	0 3 2 N 0 3 5	. 4 . 8 . 9 . 7 . 4		642 8 8 925 8	3 3 4	48	0 2 3	В	6666 8 E 6666 9	888 0 2 A 888 89	。。。 5 2 R。。。 9	444 7 2 1 444 5	7' 7' 7' 7'	4 4 5 4 4

CENTRE =	10350.4899	48341.6558 48336.8600		
	4	Designed C. Barker	© SM Urban Pty Ltd ABN 99 124 206 819	S S
y B x A B	y	Drawn C. Barker	These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be	
		Checked C. Birkett	reproduced or copied, in whole or part, without the written permission of SM Urban Pty Ltd.	Smec Urban
R	<	Authorised J. Golden	The contents of this drawing are electronically generated, are confidential and may only be used –	Level 1, 47 Pakington Street, Geelong West, <b>p</b> +61 3 5228 3100   <b>f</b> +61 3 5228 3199   w
LIP PROFILE SETO	UT	Date March 2011	for the purpose for which they are intended.	Adelaide +61 8 8223 6455 Gold Coast +61 Brisbane +61 7 3831 8988 Melbourne +61 Canberra +61 2 6126 1900 Traralgon +61

3784 3286 286 322 RING 8 ° 4 7 ′ 4 0 ″ I P 8 ° 4 7 ′ 4 0 ″ 8 ° 4 7 ′ 4 0 ″ I P 157 222 RING 8°47'40″ IP 8°47'40″ 8°47'40″ IP 95

> smec an ulting group

/est, VIC, 3218 ) | www.smu.com.au 

t +61 7 5578 0222 +61 3 9869 0800 +61 3 5173 0100

**Estuary** Stage 8 City of Greater Geelong Roadworks and Drainage Setout Information

Drawing No. 0250EHL-08-10 Sheet No. 10 of 29

Rev E

					estuary
D	ROAD NAMES AMENDED	03.11.11	СВ∕СВ	JG	leopoid
C	ISSUED FOR APPROVAL	19.05.11	СВ∕СВ	JG	Principal
В	COUNCIL AMENDMENTS	14.04.11	СВ∕СВ	JG	Leopold Property Developments Pty Ltd
А	ISSUED TO COUNCIL FOR APPROVAL	18.03.11	СВ/СВ	JG	Level 1, 6 Riverside Quay Southbank, Victoria 3006
RE	/ISION	DATE	DES/DFT	APP'D	



VILLAGE GREEN DRIVE LONGITUDINAL SECTION

VERTICAL GEOMETRY HORIZONTAL GEOMETRY DATUM RL26	-1.32 %
DESIGN CENTRELINE RIGHT LIP OF KERB EXISTING SURFACE AT RIGHT BOUNDARY	28.715
LEFT LIP OF KERB EXISTING SURFACE AT LEFT BOUNDARY	
EXISTING SURFACE CHAINAGE	760.000 28.885 778.971 28.684

												— · ·		CTION WITH											
				FUTUF	RE STAGE PROPOSED 8 DEVELOP	STAGE					CH 572.667 RL 30.660			STREET			<b>—</b>			I		1 1			
																				<b>~</b>	INTERSECTION W EVERGLADE STR	EET >	PROPOS	ED STAGE EXISTING STA	GE 6
	СН 419.912	~====	~	*										PARKFR	TION WITH	<b></b>							8 DEV		
	RL 29.481																								====
				4							<b>N</b>					6									
				<u>1 481.56</u> V. 29.74						CH 566.865						CH 634.786 ELV. 30.372									
																ELC									
VERTICAL GEOMETRY	L= 60m VC >	0.45 %	~ ~	L= 30m VC	->		1.13 %		<	L= 30m	_		-0.5 %	<		L= 50m VC		->			-1.32 %				
HORIZONTAL GEOMETRY										<	R= -40m HC	>													
DESIGN CENTRELINE	29.641- 29.481- 29.481-	29.559	29.650	29.760	29.917	30.104	30.263	30.40 <del>8</del> 30.42 <del>8</del> 30.444	30.542	30.610- 30.616- 30.639- 30.639- 30.651- 30.651-	30.65 <del>9-</del> 30.65 <del>6-</del> 30.645 <del>-</del> 30.645-	30.622	30.57 <del>5</del> 30.54 <i>6</i> 30.521	30.497	30.437	30.355	30.251	30.065 30.0417 30.03877	29.853	29.707	29.509	29.365	29.244- 29.21 <del>8-</del>	29.033	28.715
RIGHT LIP OF KERB					29.857 29.857	30.005 50.005	30.164	30.309 30.322 30.345	30.443	30.511 30.517 30.540 30.540 30.540	30.560 30.557 30.546 30.538	30.526	30.476 30.447 30.422	30.398	30.338	30.256 30.222	30.152	29.966 29.942 29.939	29.754	29.675 29.608	29.410	29.266	29.145 29.119	28.934	
EXISTING SURFACE AT					30.061	80.308	80.558	30.881 30.910 30.960	31.192	31.336 31.350 31.425 31.425 31.504						30.929 30.874		30.535 30.513 30.509	30.251	30.127 30.019	.9.765	.9.669	29.540 29.514	905.9	
RIGHT BOUNDARY LEFT LIP OF KERB					29.857	0.005	0.164	30.309 30.345 30.345	.443	30.511 30.517 30.540 30.540 30.540			).476 ).447 ).422	0.398	30.338	30.256 3 30.222 E		29.939 3 29.939 3 29.939	9.754	9.608	9.410	9.266 2	29.145 2	3.934	
EXISTING SURFACE AT					.354 2	.535 30	.762 3	30.078 30 30.108 30 30.161 30	.387 3(	30.542 3 30.560 3 30.643 30.643 30 30.643 30				m	mm		30.288	30.071 29 30.041 29 30.037 29	9.766 29	9.691 29	<i>5</i>	.256 2'	29.100 2' 29.073 2		
LEFT BOUNDARY	.810 614 502	700 98 700 44	+ 3 6 + 3 6	29.572 29.572	29.682 29.721 29.737 29	952 29	.150 29	0.561 30 30.561 30	779 30	30.939 30. 30.957 30 31.041 30. 31.041 30. 31.100 30			1.026         30           1.033         30           1.033         30	1.029	30.898 30.898	30.742 30 30.664 30		30.337 30 30.315 30 30.312 30	46 29	.919 29 .795 29	940	.516 29	29.339 29 29.335 29	29.053	885
EXISTING SURFACE	000 29. 00 29.	00 29.4	000 29. 64 29.4			150 29.	150	m	65 30.				222 31. 000 31. 70 31.	86					70 30.	000 29. 70 29.	00 29.4	170 29.		0 0	000 28.5
CHAINAGE	4 20.0	0.044	460.0	480.000	496.564 499.150 500.000	513.1	527.1	540.000 541.150 543.150	551.8	559.150 560.000 563.886 563.887 566.865		TP 584.1 584.7	TP 594.2 600.0	609.7	TP 620.000	TP 630.870 634.786	641.5	657.970 659.786 660.000	673.9	680.C	700.0	TP 710.8	720.000 721.970	735.97	760.0
									VII		EN DRIVE LON		'≃ ! N SECTION	<u> </u>	Ř										

VILLAGE GREEN DRIVE LONGITUDINAL SECTION

	signed Barker		© SM Urban Pty Ltd ABN 99 124 206 819	smec
Che	Barker ecked		These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be reproduced or copied, in whole or part, without the written	Consulting group
Auth		Scale @ A1 H1:500, V1:50	permission of SM Urban Pty Ltd. The contents of this drawing are electronically generated, are	Smec Urban Level 1, 47 Pakington Street, Geelong West, VIC, 3218 p +61 3 5228 3100   f +61 3 5228 3199   www.smu.com.au
Date Marc	rch 2011	0 5 10 20 0 0.5 1 2	confidential and may only be used for the purpose for which they are intended.	Adelaide+61882236455Gold Coast+61755780222Brisbane+61738318988Melbourne+61398690800Canberra+61261261900Traralgon+61351730100

LEGEND
— — EXISTING SURFACE
DESIGN LINE
RIGHT LIP OF KERB
LEFT BUILDING LINE
LEFT LIP OF KERB



**Estuary** Stage 8 City of Greater Geelong Roadworks and Drainage Longitudinal Sections -1

Drawing No. 0250EHL-08-11 Sheet No. 11 of 29

Rev D

	LEGEND — — — EXISTING SURFACE — — DESIGN LINE — — — FUTURE DESIGN LINE — · — RIGHT BUILDING LINE — · — LIGFT BUILDING LINE — LIGFT BUILDING LINE — LIEFT LIP OF KERB
PROPOSED STAGE 8 DEVELOPMENT	INTERSECTION WITH VILLAGE GREEN DRIVE
VERTICAL GEOMETRY         2.7 %	EXISTING STAGE         PROPOSED STAGE           TOEVELOPMENT         B DEVELOPMENT           B DEVELOPMENT         B DEVELOPMENT           <
HORIZONTAL GEOMETRY DATUM RL28 DESIGN CENTRELINE	HORIZONTAL GEOMETRY DATUM RL21 DESIGN CENTRELINE DESIGN CENTRELINE
BLOOM CLITELING         000000000000000000000000000000000000	25.454 25.5403 25.484 25.55403 25.484 25.52026.799 28.6492 26.799 26.299
EXISTING SURFACE AT 566. 71 566. 71 566. 71 566. 71 566. 71 566. 71 566. 71 71 72 72 72 72 72 72 72 72 72 72 72 72 72	EXISTING SURFACE AT 5:552 5:530 5:53
RIGHT BOUNDARY       imm       imm	Right Boundary       State       State <thstate< th="">       State       <thstate< th=""></thstate<></thstate<>
EXISTING SURFACE AT 756 00 20 20 20 20 20 20 20 20 20 20 20 20	EXISTING SURFACE AT 1 : 163 : 363 :
TELL BOUNDARY       33.551       33.32.631       32.32.631       33.33.551         39.639       33.794       33.794       33.551       33.33.551         39.639       33.775       33.766       33.551       33.33.551         39.639       33.775       33.631       33.33.555       33.555         39.639       33.555       33.555       33.555       33.555         39.639       33.555       33.555       33.555       33.555         39.639       33.555       33.555       33.555       33.555         39.639       33.555       33.555       33.555       33.555	TELL BOUNDARY       Z3.708       Z3.708       Z3.708         22.1234       21.152       26.036       26       26         28.875       28.875       27.152       26       26         29.074       28.875       27.153       27.153       27.293         29.074       28.875       28.875       28.932       28         29.074       29.074       26       26       26         29.074       29.074       27.153       27.153       27.153         29.074       29.074       28       28       28         29.074       29.076       26       26       26         29.074       29.114       27.153       27.153       27.153         29.074       28       28       28       28         29.074       29       28       28       28         29.074       29       29       28       28         29.074       29       28       28       28         29.29       28       28       28       28         29.29       29       28       28       28         29.29       29       28       28       28         29.29 </td
125.946       31.256         140.000       117.888         140.000       117.888         166.000       116.000         165.000       166.000         165.000       165.000	APPENDIX 118.00000000000000000000000000000000000
E ₽ TIDAL STREET LONGITUDINAL SECTION	EVERGLADE STREET LONGITUDINAL SECTION

E ROAD NAME D MINOR AME		03.11.11 29.07.11	CB/CB CB/CB	סר סר	estuary
C ISSUED FOR	APPROVAL	19.05.11	СВ∕СВ	JG	Principal
B COUNCIL AM	IENDMENTS	14.04.11	CB/CB	JG	Leopold Property Developments Pty Ltd
A ISSUED TO	COUNCIL FOR APPROVAL	18.03.11	CB/CB	JG	Level 1, 6 Riverside Quay Southbank, Victoria 3006
REVISION		DATE	DES/DFT	APP'D	

Designed C. Barker		© SM Urban Pty Ltd ABN 99 124 206 819	
Drawn C. Barker Checked		These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be reproduced or copied, in whole or	XXUI
C. Birkett Authorised J. Golden	Scale @ A1 H1:500, V1:50	part, without the written permission of SM Urban Pty Ltd. The contents of this drawing are electronically generated, are	Smec Urban Level 1, 47 Pakington Street, Gee p +61 3 5228 3100   f +61 3 522
Date March 2011	0 5 10 20 0 0.5 1 2	confidential and may only be used – for the purpose for which they are intended.	Adelaide +61 8 8223 6455 ( Brisbane +61 7 3831 8988 M Canberra +61 2 6126 1900



**Estuary** Stage 8 City of Greater Geelong Roadworks and Drainage Longitudinal Sections -2

Geelong West, VIC, 3218 228 3199 | www.smu.com.au

Gold Coast +61 7 5578 0222 Melbourne +61 3 9869 0800 Traralgon +61 3 5173 0100

Drawing No. 0250EHL-08-12 Sheet No. 12 of 29

Rev E

\_\_\_\_\_

- -					
-					
					PST
	E ROAD NAMES AMENDED	03.11.11	СВ∕СВ	JG	Con
	D WULAKARA LANE REMOVED	29.07.11	СВ∕СВ	JG	1
	C ISSUED FOR APPROVAL	19.05.11	СВ∕СВ	JG	Principal
	B COUNCIL AMENDMENTS	14.04.11	∣ св∕св	JG	Leopold Property [
<b>b</b>	A ISSUED TO COUNCIL FOR APPROVAL	18.03.11	СВ∕СВ	JG	Level 1, 6 Riversid
	REVISION	DATE	DES/DFT	APP'D	

tuary leopold

y Developments Pty Ltd rside Quay toria 3006

															INTERSECTION WI	I <u>T</u> H DRIVE								D	UTURE DESIGN LINE IGHT BUILDING LINE IGHT LIP OF KERB
								< INTE ← TRI	ERSECTION WITH EEFERN STREET	->														L	EFT BUILDING LINE EFT LIP OF KERB
					E <u>XIST</u>	TING STAGE 7 DEVELOPMENT	PROPOSED STA B DEVELOPMEN	AGE T																	
			CH 129.085 ELV. 24.239			CH 163.898								CH 259.912 ELV. 29.851											
VERTICAL GEOMETRY		4.41 %		_	4.11 %					4.36 %	6			L= 30m VC											
HORIZONTAL GEOMETRY				- R= ₩	-23m HC																				
DESIGN CENTRELINE	22.957	23.838	24.239	24.61 <del>1</del> - 24.687-	25.090	25.508 25.552 25.668	26.090	26.35 <del>8</del> 26.370-7 26.634-	27.241	27.48	27.876	28.48 <del>6</del> 28.48 <del>8</del> 7	28.983 29.030 29.097 29.197	29.610	30.04										
RIGHT LIP OF KERB							25.991	26.259 26.271 26.535	27.142	27.382	27.777 28.013	28.387 28.389	28.884 28.931 28.998 29.098	29.511 29.682 29.685 29.945	24.67										
EXISTING SURFACE AT RIGHT BOUNDARY										27.646	28.035 28.307	28.722 28.724	29.284 29.337 29.411 29.500	29.904 30.099 30.103 30.466	JU.466										INTERSECTION WITH
LEFT LIP OF KERB							25.991	26.259 26.271 26.535		27.382	27.777 28.013	28.387 28.389	28.884 28.931 28.998 28.998 29.098	29.511 29.682 29.685 29.685	246.62						<del>&lt;</del> FUTU	RE STAGE PROPOSED STAGE 8 DEVELOPMENT			
EXISTING SURFACE AT LEFT BOUNDARY						25.915		26.534 26.547 26.842		27.679.72	28.080 28.316	28.707	29.192 29.239 29.307 29.407	29.844 30.051 30.055 30.350	0 < F. 0 F -					CH 68.351 RL 25.865 — —					
EXISTING SURFACE	23.338	24.195	24.518	24.867 24.941	1 25.362	25.775 25.818 25.928		26.552 26.564 26.822			28.060	28.716	29.254 29.304 29.374 29.374	3 29.879 30.064 30.068	20.4.22							13.787 26.380			
CHAINAGE	100.000	120.000	129.085	138.14 <i>6</i> 14.0000	149.82	160.000 161.081 163.898	173.58	179.723 180.000 186.081	200.000	205.523	214.58	228.58	240.000 241.081 242.623 244.912	255.123 259.912 260.000 268.181	7 7 268.18					CH 68.351 ELV. 25.865 CH 75.426 ELV. 25.901		CH 11 ELV. J			
						PARK	FRONT DR	E IVE LONGIT	rudinal sect	TION				₩ VERTICAL GEOMETRY	-			-0.5 %		0.5 %	1.25 %	><	0.75 %		
														HORIZONTAL GEOMETRY									R= -20m HC		
														DESIGN CENTRELI	INE 26.207		26.107	26.007	25.907	25.86 <del>5  </del> 25.90 <del>1  </del> 25.95 <del>8  </del>	26.208	26.380 26.384 26.436 26.436	26.55 <del>6-</del> 26.577 <del>7</del> 26.627- 26.663- 26.663- 26.698- 26.698- 26.777- 27.77- 26.777- 27.77- 26.777- 26.777- 26.777- 26.777- 26.777- 26.777- 26.777- 26.777- 26.777- 27.77- 26.777- 27.77- 26.777- 26.777- 26.577- 27.77- 26.777- 26.777- 26.777- 26.777- 26.777- 26.777- 26.777- 26.777- 26.777- 26.777- 26.777- 26.777- 26.777- 26.777- 26.777- 26.777- 26.777- 27.77- 26.777- 27.77	26.769	26.852
														RIGHT LIP OF KE	ERB							26.285 26.328 26.337 26.378	26.457 26.457 26.472 26.523 26.564 26.599 26.599	26.670	26.753
														EXISTING SURFAC RIGHT BOUNDARY								26.847 26.891 26.906 26.971	27.101 27.124 27.133 27.133 27.180 27.298 27.298	27.368	27.415
														LEFT LIP OF KER								26.285 26.328 26.337 26.378	26.457 26.472 26.478 26.523 26.564 26.599 26.599	26.670	26.753
														EXISTING SURFAC LEFT BOUNDARY								26.258 26.330 26.345 26.411	26.545 26.579 26.592 26.664		
														EXISTING SURFAC	67		26.221	26.216	25.763	26.135 26.160 26.225	26.425	26.545 26.548 26.617 26.632 26.697 26.697	26.852 26.843 26.853 26.907 26.919 26.988 26.988	27.053	27.087
														CHAINAGE	0.000		20.000	0.000	60.000	68.351 75.426 80.000	100.000	113.787 114.250 120.000 121.250 126.750	137.250 139.250 140.000 146.023 151.561 156.174 156.000	165.599	176.699
-08-13																				TREEFERN STREE	T LONGITUDINAL SEC	TION	4 4		д Г

© SM Urban Pty Ltd ABN 99 124 206 819 Designed C. Barker smec consulting group These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be reproduced or copied, in whole or part, without the written permission of SM Urban Pty Ltd. The contents of this drawing are Drawn C. Barker Checked C. Birkett **Smec Urban** Level 1, 47 Pakington Street, Geelong West, VIC, 3218 **p** +61 3 5228 3100 | **f** +61 3 5228 3199 | www.smu.com.au Scale @ A1 Authorised The contents of this drawing are H1:500, V1:50 electronically generated, are J. Golden confidential and may only be used for the purpose for which they are intended. 
 0
 5
 10
 20

 0
 0.5
 1
 2

 Adelaide
 +61
 8
 8223
 6455
 Gold Coast
 +61
 7
 5578
 0222

 Brisbane
 +61
 7
 3831
 8988
 Melbourne
 +61
 3
 9869
 0800

 Canberra
 +61
 2
 6126
 1900
 Traralgon
 +61
 3
 5173
 0100
 Date March 2011

LEGEND
— — — EXISTING SURFACE
DESIGN LINE
RIGHT BUILDING LINE
RIGHT LIP OF KERB
LEFT BUILDING LINE
LEFT LIP OF KERB

#### TREEFERN STREET LONGITUDINAL SECTION



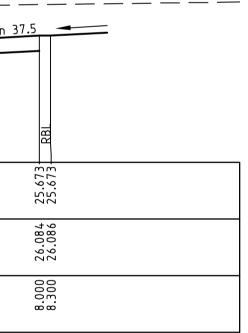
## Estuary

Stage 8 City of Greater Geelong Roadworks and Drainage Longitudinal Sections -3

Drawing No. 0250EHL-08-13 Sheet No. 13 of 29

Rev E

		OFFSET	-8.40 -8.300 -8.300 -8.300 -6.500 -9.750 -3.750 -6.500 -9.000 -8.300
	1 in 33.3 1 in 33.3 1 in 22.9 1 in 33.3		CH 95.000
DATUM25.0 DESIGN SURFACE	26.424 26.424 26.424 26.424 26.154 26		1 in 33.3 1 in 33.3 1 in 22.9 1 in 37.5
	26.619     2       26.619     2       26.633     2       26.663     2       26.663     2       26.669     2       26.693     2       26.693     2       26.693     2       26.693     2       26.693     2       26.693     2       26.693     2		
EXISTING SURFACE	56 5 56 5 57 5 57 5 57	DATUM26.0	7.531 7.491 7.531 7.491 7.371 7.491 7.531 8 7.531 8 7.531 8
OFFSET	-9.468 -8.300 -8.300 -8.300 -3.750 -3.750 3.750 8.300 8.300 8.300	DESIGN SURFACE	
	CH 66.500	EXISTING SURFACE	27.538 27.538 27.558 27.558 27.558 27.558 27.558 27.558 27.558 27.558 27.558 27.558 27.558 27.558
		OFFSET	-8.308 -8.300 -8.000 -8.300 -3.750 -3.750 -3.300 -3.300 8.300 8.300
	1 in 37.5 1 in 22.9 1 in 33.3 1 in 33.3 1 in 33.3 1 in 22.9 1 in 37.5		CH 92.000
			- $        -$
DATUM24.0			1 in 33.3 1 in 33.3 1 in 22.9
DESIGN SURFACE	26.050 25.754 25.754 25.714 25.714 25.714 25.714 25.714 25.714	DATUM26.0	
EXISTING SURFACE	26.050 26.050 26.062 26.086 26.086 26.086 26.121 26.121 26.139 26.139 26.149 26.151 26.151	DESIGN SURFACE	27.019- 26.979- 26.979- 26.848- 26.848- 26.879- 26.879- 26.879- 26.879- 26.979- 26.979- 27.019- 27.019-
	-10.077 26 -8.300 26 -8.300 26 -3.300 26 -3.300 26 -6.500 26 -3.300 26 -3.500 26 -3.5000 26 -3.50000 26 -3.5000000000000000000000000000000000000	EXISTING SURFACE	27.099 27.105 27.105 27.157 27.157 27.155 27.235 27.235 27.235 27.256 27.256 27.256
OFFSET		OFFSET	-8.783 -8.300 -8.000 -8.000 -8.000 -8.000 -3.750 -3.300 -3.300 -3.300 8.300 8.300
	CH 54.000		CH 79.000
	1 in 33.3 1 in 33.3		
DATUM24.0		DATUM26.0 DESIGN SURFACE	27.063 26.975 26.975 26.975 26.935 27.055 27
DESIGN SURFACE	25.673 25.673 25.673 25.673 25.673 25.673 25.673 25.673 25.673 25.673 25.673		
EXISTING SURFACE	25.978 25.988 25.998 25.998 26.014 26.017 26.017 26.053 26.053 26.074 26.074 26.084 26.084	EXISTING SURFACE	
DFFSET	-10.130 -8.3000 -8.3000 -8.3000 -3.300 3.750 -3.300 -3.300 8.3000 8.3000 8.3000	OFFSET	-8.832 -8.300 -8.300 -8.300 -8.300 -8.300 -8.300 -8.300 3.750 -3.300 8.300 8.300
	CH 52.500		CH 78.000
			1 in 33.3 1 in 33.3
DATUM24.0	25.316 25.316 4.9988 4.9988 4.958 4.958 4.9988 4.958 4.99888 4.99888 4.99888 4.99888 4.99888 4.99888 4.99888 4.99888 4.99888 4.99888 4.9988 4.99888 4.99888 4.99888 4.998888 4.998888 4.998888888 4.9988888 4.9988888888 4.9988888888888888888888888888888888888	DATUM25.0	26.580 26.580 26.580 26.330 26.341 26.341 26.341 26.331 26.331 26.331 26.331 26.331 26.331 26.331 26.331 26.501 1 2 26.331 26.501 1 2 26.501 1 2 26.501 2 26.231 2 26.251 2 27.25
DESIGN SURFACE		DESIGN SURFACE	
EXISTING SURFACE	25.316 25.336 25.339 25.374 25.440 25.446 25.458 25.446 25.458 25.465 25.465 25.466	EXISTING SURFACE	26.758 26.734 26.734 26.734 26.734 26.734 26.735 26.758 26.758 26.758 26.758 26.758 26.758 26.756 26.758
OFFSET	-10.209 -8.300 -8.000 -8.300 -3.750 -3.750 3.750 8.300 8.300	OFFSET	-9.373 -8.300 -8.000 -8.300 -3.750 -3.300 3.750 -3.300 8.300 8.300
	CH 40.000		CH 68.000
		Designed C. Barker	© SM Urban Pty Ltd ABN 99 124 206 819 SMEC Estuary
		Drawn	These designs and drawings are the copyright of SM Urban Pty Ltd. Stage 8 City of Great City of Grea
	estuary	C. Barker Checked	The drawing shall not be reproduced or copied, in whole or Cross Sect
AMENDED APPROVAL	03.11.11 CB/CB JG 19.05.11 CB/CB JG Principal	C. Birkett Authorised Scale @	part, without the writering       part, without the writering         permission of SM Urban Pty Ltd.       Smec Urban         The contents of this drawing are       Level 1, 47 Pakington Street, Geelong West, VIC, 3218
NDMENTS	14.04.11 CB/CB JG Leopold Property Developments Pty Ltd	J. Golden H1:100, Date 0	$\psi_{1.50}$ confidential and may only be used Sheet No. 1
OUNCIL FOR APPROVAL	18.03.11     CB/CB     JG       DATE     DES/DFT     APP'D		1       2       4       for the purpose for which they are intended.       Adelaide       +61       8       8223       6455       Gold Coast       +61       7       5578       0222         0.5       1       2       intended.       antended.       Adelaide       +61       7       3831       8988       Melbourne       +61       3       9869       0800       Adelaide       +61       3       5173       0100       Adelaide       Adelaide       +61       2       6126       1900       Traralgon       +61       3       5173       0100       Adelaide       Adelaide       +61       40       40       Adelaide       +61



		7.5 <u>1-in -27.9</u>		1 in 33.3 1 in 33.3		<u>1 in 22.9</u>	1 in 37		
DATUM26.0	127	2		+	-2		<u>ل</u>		]
DESIGN SURFACE	27.618- 27.635- 27.635-	27.595	27.475 <sup>.</sup> 27.365 <sup>.</sup>	27.46	27.365	71.41	27.595	27.635- 27.635-	
EXISTING SURFACE	27.618 27.619 27.624	27.646	27.683 27.689	27.727	27.766	711.17	27.804	27.822 27.826	
OFFSET	-8.402 -8.300 -8.000	-6.500	-3.750 -3.300	0.000	3.300	٥٢.٤	6.500	8.300	
				CH 95.000					



eater Geelong s and Drainage ctions - Everglade Street - 1 - CH95.000 lo. 0250EHL-08-14 14 of 29

## Rev D

## oproved for Construction

## LEGEND

DESIGN LINE 

	- $        -$	<u>- 1 in 33.3</u>	1 in 33	$\frac{1}{1}$ in 22.9 1 in 37.5 $=$ $  -$	_
		Ч			
DATUM28.0 DESIGN SURFACE	29.169	29.026	29.125	29.026 29.136 29.296 29.296 29.296	
	29.169 2° 29.182 29 29.187 29 29.212 29		29.295	29.342 29 29.348 29 29.410 29 29.414 29 29.414 29	
EXISTING SURFACE		50 29.247 00 29.253			
OFFSET	-9.059 -8.300 -8.000 -6.500	-3.750 -3.300	0.000	3.300 3.750 6.500 8.300 8.300	
		TPCH	147.100		
	- $        -$	<u>29</u> — 1 in <u>33.3</u>	1 in 33	$\frac{1}{1.3}$	
DATUM28.0 DESIGN SURFACE	28.974 28.974 28.974 28.934	28.704	28.803	28.704 28.934 28.974 28.974	
	28.860 26 28.866 28 28.866 28 28.868 28 28.880 28 28.880 28	28.902 21 28.906 25	28.932	28.965 28 28.970 21 29.031 28 29.031 28	
EXISTING SURFACE			0.000	3.750 28. 3.750 28. 6.500 29. 8.300 29. 29. 29.	
OFFSET	-8.983 -8.300 -8.000 -8.000	-3.750 -3.300	0.0	3.3 8.0 8.0 9	
		CH ·	135.000		
		2.91 in 33.3	1 in 33	3.3 <u>1 in 22.9</u> <u>1 in 37.5</u> <u>-</u> <u>-</u> <u>-</u>	
DATUM27.0					
DESIGN SURFACE	28.348- 28.503- 28.503- 28.503- 28.463-	28.343-28.233-	28.332	28.233+ 28.343+ 28.463+ 28.503+ 28.503+ 28.503+	
EXISTING SURFACE	28.348 28.361 28.365 28.365 28.387 28.387	28.439	28.509	28.553 28.5589 28.605 28.605 28.609	
	-9.230 28 -8.300 28 -6.500 28	-3.750 28 -3.300 28	0.000	3.300 28 8.300 28 8.300 28 8.300 28	
OFFSET	6 00 0 1 1 1 1			mm vo ∞∞	
		LH 1	20.000		
	- $        -$	291 in 33.3		1  in  22.9  1  in  37.5  =	
DATUM27.0 DESIGN SURFACE	27.942	27.909	27.898	27.799	
EXISTING SURFACE	27.953 2 <sup>2</sup> 27.953 2 <sup>2</sup> 27.958 2 <sup>2</sup> 27.987 2 <sup>2</sup>	28.050 2	28.114 2	28.171 2 28.212 2 28.233 2 28.233 2 28.233 2	
			0.000 28	3.750 28 3.750 28 6.500 28 8.300 28 8.300 28	
OFFSET	-9.065 -8.300 -8.000 -8.000	-3.750 -3.300			
		CH 1	07.500		
	- $    1 in 37.5 1 in 22$	<u>-9</u> 1 in 33.3		$1 \text{ in } 22.9  1 \text{ in } 37.5  \blacksquare  \blacksquare  \blacksquare  \blacksquare  \blacksquare  \blacksquare  \blacksquare  \blacksquare  \blacksquare  $	
DATUM27.0 DESIGN SURFACE	27.905 28.017 28.017 28.017 27.977	27.357	27.846	27.747 27.857 27.977 28.017 28.017	
				28.122 27 28.128 27 28.163 27 28.183 28 28.188 28	
EXISTING SURFACE	73 27.905 00 27.915 00 27.915 00 27.944	50 27.997 00 28.006	00 28.070		
OFFSET	-8.973 -8.300 -8.000 -8.000	-3.750 -3.300	0.000	3.300 3.750 6.500 8.300 8.300	
		CH <sup>7</sup>	106.000		
				1	
				estuary	
				estuary	
DAD NAMES AMENDED SUED FOR APPROVAL		03.11.11			
DUNCIL AMENDMENTS		14.04.11	CB/CB JG	Principal Leopold Property Developments Pty Ltd Level 1, 6 Riverside Quay	
SUED TO COUNCIL FOR APPROVAL		18.03.11 DATE	CB/CB JG DES/DFT APP'D	- Southbank, Victoria 3006	

REVISION

Designed C. Barker		© SM Urban Pty Ltd ABN 99 124 206 819	
Drawn C. Barker Checked		These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be reproduced or copied, in whole or part, without the written	XXX UI
C. Birkett Authorised J. Golden	Scale @ A1 H1:100, V1:50	permission of SM Urban Pty Ltd. The contents of this drawing are electronically generated, are	<b>Smec Urban</b> Level 1, 47 Pakington Street, Ge <b>p</b> +61 3 5228 3100   <b>f</b> +61 3 522
Date March 2011	0 1 2 4 0 0.5 1 2	confidential and may only be used for the purpose for which they are intended.	Adelaide+61882236455Brisbane+61738318988Canberra+61261261900

#### <u>LEGEND</u>

----- DESIGN LINE 



Geelong West, VIC, 3218 228 3199 | www.smu.com.au

Gold Coast +61 7 5578 0222 Melbourne +61 3 9869 0800 Traralgon +61 3 5173 0100

Estuary Stage 8 City of Greater Geelong Roadworks and Drainage Cross Sections - Everglade Street - 2 CH106.000 - CH147.100 Drawing No. 02505111 08 45 Drawing No. 0250EHL-08-15 Sheet No. 15 of 29

Rev D

3				estuarv
E ROAD NAMES AMENDED	03.11.11	СВ∕СВ	JG	estuary
D MINOR AMENDMENTS	29.07.11	CB/CB	JG	leopold *
C ISSUED FOR APPROVAL	19.05.11	CB/CB	JG	Principal
B COUNCIL AMENDMENTS	14.04.11	CB/CB	JG	Leopold Property Developments Pty L
A ISSUED TO COUNCIL FOR APPROVAL	18.03.11	СВ∕СВ	JG	Level 1, 6 Riverside Quay Southbank, Victoria 3006
REVISION	DATE	DES/DFT	APP'D	

\_\_\_\_

DATUM30.0

DESIGN SURFACE

EXISTING SURFACE			32.258		32.266 32.268	32.270	32.277 32.279	32.253	32.205 32.199	32.161	32.143 32.140	32.115	
OFFSET			-11.524		-8.300 -8.000	-6.500	-3.750 -3.300	000.0	3.300 3.750	6.500	8.000 8.300	10.666	
L								TPCH 31.256	REFER	INTERSECTION			
			26							.s			
				37.5	1 i	n 54.8		1 in 33.3	33.3				
DATUM30.0			LBL										
DESIGN SURFACE		31.651-	31.304	31.258-			31.138-	31.127-	31.028-				
EXISTING SURFACE		31.651	31.688 31.693	31.723			31.832 31.835	31.856	31.862 31.863				
OFFSET		-14.424	-12.339 -12.039	-10.323			-3.750 -3.300	0.000	3.300 3.750				
L								TPCH 21.105	REFER	INTERSECTION			
	_				<u> </u>								
						1 in 37.5		1 33.3 1 in	33.3				
DATUM30.0													
DESIGN SURFACE				31.411	30.978- 30.978-		30.871- 30.761-	30.860	30.761-				
EXISTING SURFACE				31.411	31.451 31.456		31.478 31.480	31.493	31.508 31.511				
OFFSET				-10.653	-8.055		-3.750 -3.300	0.000	3.300				

1 in 37.5 1 in 22.9

31.68

31.721-31.721-

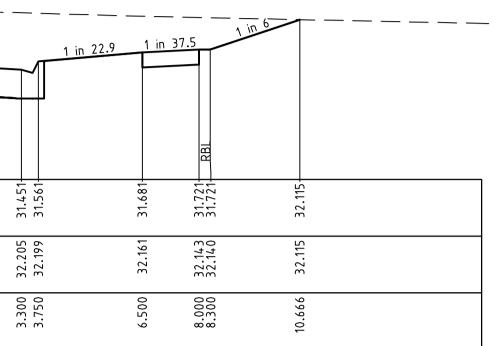
1 in 33.3

31.561-31.451-

1 in 33.3

31.550

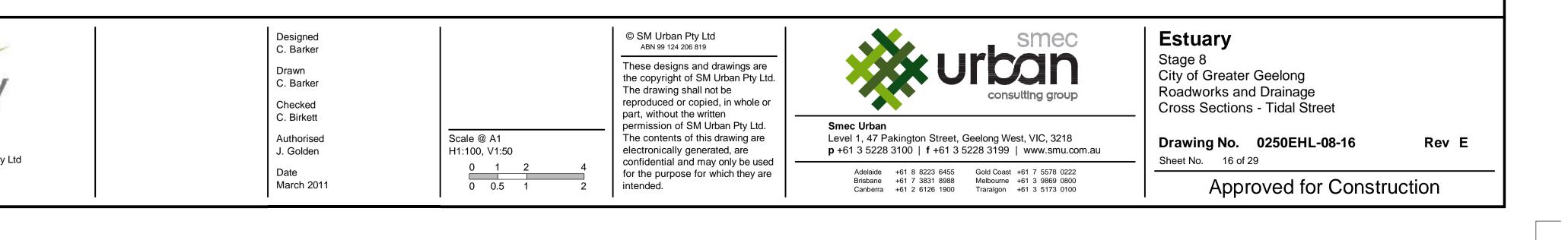
TPCH 12.900



			.5 <u>1 in 22.9</u>	1 in 33.3	1 in 33.3	<u>1 in 22.9</u>	1 in 35		·
DATUM32.0 DESIGN SURFACE	33.745	33.576	33.536	33.416	.4 05	33.306	.536	33.576 33.576 33.673	
DESIGN SONTACE					33		ŝ		
EXISTING SURFACE	33.745	33.753 33.756	33.767	33.787 33.791	33.794	33.739 33.734	33.694	33.680 33.678 33.673	
OFFSET	-9.319	-8.300 -8.000	-6.500	-3.750 -3.300	0.000	3.300 3.750	6.500	8.000 8.300 8.883	

	 1 in -	5 <u>1 in</u>	37.5 1 in 22.9	1 in 33.3	1 in 33.3	1 in 22.9	1 in 35		<u> </u>
DATUM32.0 DESIGN SURFACE	33.491	33.260 33.260	33.220	33.100	33.089	32.990	33.220	33.260 RBI	33.422
EXISTING SURFACE	33.491	33.500 33.502	33.511	33.528 33.531	33.551	33.495 33.487	33.446	33.433 33.430	33.4.22
OFFSET	-9.686	-8.300 -8.000	-6.500	-3.750 -3.300	0.000	3.750	6.500	8.000 8.300	9.266

— - DATUM31.0			37.5 1 in	22.9 1 in	33.3 1 in	<u>33.3</u> 1 in 27	2.9 1 in 3		6	
	79	22	12	32		32+	12	22	-26	
DESIGN SURFACE	32.75	32.352 <sup>.</sup> 32.352 <sup>.</sup>	32.312	32.192	32.18	32.082	32.312	32.352 <sup>-</sup> 32.352-	32.69	
EXISTING SURFACE	32.754	32.764 32.766	32.773	32.779 32.779	32.775	32.772 32.771	32.740	32.721 32.718	32.692	
OFFSET	-10.713	-8.300 -8.000	-6.500	-3.750 -3.300	0.000	3.300 3.750	6.500	8.000 8.300	10.338	



#### <u>LEGEND</u> — — EXISTING SURFACE ------ DESIGN LINE

CH 59.280

CH 43.280

DATUM26.0		<u>1 in 3</u>
DESIGN SURFACE	26.805 26.805 26.765	6.53
EXISTING SURFACE	26.842 26.842 26.842 26.842	<b>v</b> v
OFFSET	-8.300 -8.000 -8.000	r. e.

DATUM25.0	<u>1 in 37.5 1 in 27.9</u>	1 in 33.3
DESIGN SURFACE	26.529+ 26.529+ 26.489+	26.369- 26.259-
EXISTING SURFACE	26.534 26.534 26.532	26.528 26.529
OFFSET	-6.500 -6.500	-3.750 -3.300

	<u>1 in 37.5_</u>	<u>1 in 33.3</u>
DATUM25.0		
DESIGN SURFACE	26.261 26.221 26.221	26.101
EXISTING SURFACE	26.241 26.241 26.250	26.270 26.273
OFFSET	-8.300 -8.000 -6.500	-3.750 -3.300

DATUM25.0		<u>1 in 37.5</u>	<u>1 in 22.9</u>	1 in 33.3
DESIGN SURFACE	25.860+ 25.860+	പ	25.700-	+0.6.c.c2
EXISTING SURFACE	25.930 25.931	25.935	. 4	444.52
OFFSET	000 - 8- 0000	-6.500	-3.750	

DATUM25.0	 	<u>-1-in-37.5</u>	1 in 22.9		1 in 33.3
DESIGN SURFACE	80	25.860-	1028.02	25.700 <sup>-</sup> 75 590-	
EXISTING SURFACE	05.930	25.931	ccv.cz	25.942 75.942	+
OFFSET		-8.000	000.0-	-3.750	

				estuary
D ROAD NAMES AMENDED	03.11.11	СВ∕СВ	JG	leopola
C ISSUED FOR APPROVAL	19.05.11	CB/CB	JG	Principal
B COUNCIL AMENDMENTS	14.04.11	СВ∕СВ	JG	Leopold Property Developments Pty Ltd
A ISSUED TO COUNCIL FOR APPROVAL	18.03.11	СВ∕СВ	JG	Level 1, 6 Riverside Quay Southbank, Victoria 3006
REVISION	DATE	DES/DFT	APP'D	

Image: second		REFER INTE	RSECTION				
Image: Section of the section of t		DETAILS					
10       10 <td< th=""><th>3.3</th><th>1 in 33.3</th><th></th><th></th><th></th><th></th><th></th></td<>	3.3	1 in 33.3					
a       a         a	26.634	26.535					
9       9       9       1030							
3		3.300					
1 4 413     1 4 413       20     1 4 413       21     1 4 413       22     0 4 4       23     0 4 4       24     0 4 4       25     0 4 4       26     0 4 4       27     0 4 4       28     0 4 4       29     0 4 4       20     0 4 4       20     0 4 4       20     0 4 4       20     0 4 4       20     0 4 4       20     0 4 4       20     0 4 4       20     0 4 4       21     0 4 4       22     0 4 4       23     0 4 4       24     0 4 4       25     0 4 4       26     0 4 4       27     0 4 4       28     0 4 4       29     0 4 4       20     0 4 4       21     0 4 4       22     0 4 4       23     0 4 4       24     0 4 4       25     0 4 4       26     0 4 4       27     0 4 4       28     0 4 4       29     0 4 4       29     0 4 4       20     0 4 4       20     0			CH 186.081				REFER INTERSECTION
H     H     H     H       H     H     H       H     H <th></th> <th></th> <th></th> <th><u>1 in 58.3</u></th> <th></th> <th></th> <th></th>				<u>1 in 58.3</u>			
8571       971       971       971         971       971       971       971       971         971       971       971       971       971         971       971       971       971       971         971       971       971       971       971         971       971       971       971       971         971       971       971       971       971         971       971       971       971       971         972       971       971       971       971         971       971       971       971       971         972       971       971       971       971       971         971       971       971       971       971       971         972       971       971       971       971       971         973       971       971       971       971       971         972       971       971       971       971       971         973       971       971       971       971       971         973       972       971       971       971	3.3	1 in 33.3					
8571       971       971       971         971       971       971       971       971         971       971       971       971       971         971       971       971       971       971         971       971       971       971       971         971       971       971       971       971         971       971       971       971       971         971       971       971       971       971         972       971       971       971       971         971       971       971       971       971         972       971       971       971       971       971         971       971       971       971       971       971         972       971       971       971       971       971         973       971       971       971       971       971         972       971       971       971       971       971         973       971       971       971       971       971         973       972       971       971       971							
000       000       RTPCH 179.723       Impact of the section of the							
RTPCH 179.723							
11 1 3 2.3     11 1 3 2.3       11 1 3 2.3     61 77       11 1 3 2.3     61 77       11 1 3 2.3     61 77       11 1 3 2.3     61 77       11 1 3 2.3     61 77       11 1 3 2.3     61 77       11 1 3 2.3     61 77       11 1 3 2.3     61 77       11 1 3 2.3     61 77       11 1 3 2.3     11 1 3 2.3       11 1 3 2.3     11 1 3 2.3       11 1 3 2.3     11 1 3 2.3       11 1 3 2.3     11 1 3 2.3       11 1 3 2.3     11 1 3 2.3       11 1 3 2.3     11 1 3 2.3       11 1 3 2.3     11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.000	3.750					21.381
103     10.33.3       103     10.33.3       103     10.73.581       103     10.75.581       103     10.75.7       104     11.73.7       105.7     11.75.7       105.7     11.75.7       105.7     11.75.7       105.7     11.75.7       105.7     11.75.7       105.7     11.75.7 <td< th=""><th></th><th></th><th>RTPCH 179.723</th><th></th><th></th><th>REFER INTERSECTION DETAILS</th><th></th></td<>			RTPCH 179.723			REFER INTERSECTION DETAILS	
41997       16877         100978       0007         000797       0007         11n 323       000757         123       000757         123       000757         123       000757         123       000757         123       000757         124       000757         125       000757         125       000757         125       000757         125       000757         125       000757         125       000757         125       000757         125       000757         126       000757         126       000757         126       000757         126       000757         126       000757         126       000757         126       000757         126       000757         126       000757         126       <	3.3	1 in 33.3	1 in 47.9				
41997       16877         100978       0007         000797       0007         11n 323       000757         123       000757         123       000757         123       000757         123       000757         123       000757         124       000757         125       000757         125       000757         125       000757         125       000757         125       000757         125       000757         125       000757         125       000757         126       000757         126       000757         126       000757         126       000757         126       000757         126       000757         126       000757         126       000757         126       000757         126       <							
41997       16877         100978       0007         000797       0007         11n 323       000757         123       000757         123       000757         123       000757         123       000757         123       000757         124       000757         125       000757         125       000757         125       000757         125       000757         125       000757         125       000757         125       000757         125       000757         126       000757         126       000757         126       000757         126       000757         126       000757         126       000757         126       000757         126       000757         126       000757         126       <	26.090	25.991				C7C.02	
Image: Notestand Control of the section of the se							
CH 173.581     DEFEN INTERSECTION DEFAUS       3.3     1 in 33.3       4 in 32.1       6 is 20       7 is 20       7 is 20       7 is 20       8 is 20       7 is 20       8 is 20  <							
Lin 32.1 1 In 33.3 1 In 34.3 1 In 34.3 1			CH 173.581	REFE			
CH 164.371			1 in 37.1				
976'52     000'0     06'52     000'C     976'52       976'52     000'C     00'C     00'C     00'C       1 in 33.3	3.3	<u>1 in 33.3</u>					
0000 0000 0000 0000 0000 0000 0000 0000 0000	25.689-	25.590-		26.107-			
CH 164.371	25.946	25.943		25.982			
DETAILS DETAILS 1 in 33.3 1 in 32.1 0 52 28 85 52 28 85 52 28 7 52 28 85 52 28 7 52 57 57 7 52 57 7 52 57 7 52 57 7 52 57 7 52 57 7 52 57 7	0.000	3.300		18.849			
25.94.6 25.689 25.94.4 25.689 25.94.4 25.590 25.94.4 25.590 25.94.4 25.500 25.94.4 25.5000 25.94.4 25.5000 25.94.4 25.500000000000000000000000000000000000			CH 164.371	REFE	ER INTERSECTION AILS		
25.946 25.689	3.3	1 in 33.3	1 in 37.1				
25.946 25.943 25.982 25.982							
0.00							
	0.000	3.300		18.847			

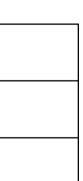
CH 164.369

	esigned . Barker		© SM Urban Pty Ltd ABN 99 124 206 819	
C. Cł	rawn . Barker hecked		These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be reproduced or copied, in whole or part, without the written	XXX UI
Αι	. Birkett uthorised Golden	Scale @ A1 H1:100, V1:50	part, without the written permission of SM Urban Pty Ltd. The contents of this drawing are electronically generated, are	<b>Smec Urban</b> Level 1, 47 Pakington Street, Ge <b>p</b> +61 3 5228 3100   <b>f</b> +61 3 522
	ate larch 2011	0 1 2 4 0 0.5 1 2	confidential and may only be used for the purpose for which they are intended.	Adelaide+61882236455Brisbane+61738318988Canberra+61261261900

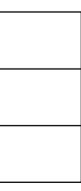
#### <u>LEGEND</u>

— — — EXISTING SURFACE ------ DESIGN LINE 









Geelong West, VIC, 3218 228 3199 | www.smu.com.au

Gold Coast +61 7 5578 0222 Melbourne +61 3 9869 0800 Traralgon +61 3 5173 0100

Estuary Stage 8 City of Greater Geelong Roadworks and Drainage Cross Sections - Parkfront Drive - 1 CH164.369 - CH186.081 Drawing No. 0250EHL-08-17 Sheet No. 17 of 29 Approved for Construction

Rev D

C ISSUED FOR APPROVAL B COUNCIL AMENDMENTS A ISSUED TO COUNCIL FOR APPROVAL REVISION			19.05.11     CB/CB     JG       14.04.11     CB/CB     JG       18.03.11     CB/CB     JG       DATE     DES/DFT     APP'D				Date	D, V1:50 electron	tents of this drawing are ically generated, are ntial and may only be used purpose for which they are d.	Level 1, 47 Pakington 3 <b>p</b> +61 3 5228 3100   <b>f</b> Adelaide +61 8 822 Brisbane +61 7 383 Canberra +61 2 612	+
D ROAD NAMES AMENDED			03.11.11 CB/CB JG	est	uary leopold		Designed C. Barker Drawn C. Barker Checked C. Birkett	ABN These of the copy The dra reprodu part, wit permiss	Jrban Pty Ltd <sup>29 124 206 819</sup> esigns and drawings are vright of SM Urban Pty Ltd. wing shall not be ced or copied, in whole or hout the written ion of SM Urban Pty Ltd. tents of this drawing are	Smec Urban	
			CH 202.08	81						CH 241.081	-
OFFSET		-8.300 -8.000 -6.500	-3.750 -3.300	0.000	3.300		OFFSET	-8.300 -8.000 -6.500	-3.750	0.000	3.300
EXISTIN	G SURFACE	27.534 27.533 27.533	27.516 27.515	27.505	27.503		EXISTING SURFACE	29.236 29.236 29.252	29.		29.325
	SURFACE	27.502+ 27.502+ 27.462-	27.342- 27.232-	27.331-	27.232-		DESIGN SURFACE	29.201- 29.201- 29.201-	29.041-	29.030-	28.931
DATUM2	26.0						 DATUM28.0	<u>1 in_37.5</u>		1 in 33.3	
		<u>1 in 37.5</u>	1-in 20.0	RTPCH 205.523	REFER INTERS	<u>ECTION</u>				CH 242.623	
OFFSET		-8.300 -8.000 -6.500	-3.750	0.000	3.300 3.750	6.500 8.000 8.300	OFFSET	-8.300 -8.000 -6.500	-3.750	0.000	3.300
EXISTIN	G SURFACE	0 27.680 0 27.679 0 27.675	0 27.668	0 27.658	0 27.650 0 27.649	0 27.647 0 27.646 0 27.645	EXISTING SURFACE	29.304 29.307 29.319			29.400
DATUM2 DESIGN	SURFACE	27.652	27.492	27.481	27.382	27.612	DATUM28.0 DESIGN SURFACE	29.268 29.268 29.28	29.108	29.097	28.998
			<u>1 in 22.9</u> <u>1 in</u>	33.3 1 in	<u>33.3</u>	<u>9 1 in 37.5</u>		<u>1_in_37.5</u>	<u>1 in 22.9</u> <u>1 in</u>	1 in 33.3	-
		<b></b> <u>1 in_37.5</u> _		CH 214.581		a 1 in 37.5 -	OFFSET	ې ب <mark>ې</mark> مې		сн 255.123	۔ ۲
OFFSET		-8.300 -8.000 -6.500	-3.750	0.000	3.300 3.750	6.500 8.000 8.300	EXISTING SURFACE	-8.300 -8.300 -8.000 29.839 -6.500 29.856	-3.750 29.860 -3.300 29.862		3.300 29.896
EXISTIN	G SURFACE	28.080 28.080 28.077	28.070 28.069	28.060	28.048 28.048	28.044 28.035 28.032	DESIGN SURFACE	839 844 856 29.781- 856 29.781- 856	360 29.621 <del>-</del> 362 29.511-		396 29.5
	SURFACE	28.047- 28.047- 28.047-	27.887-	27.876-	27.777- 27.887-	28.007- 28.047- 28.047-	DATUM28.0	811 7811 7811 781	511		511+
DATUM2								1.1 .			1

DATUM27.0		<u>in 37.5</u>	<u>1 în 22.9</u>	1 in 33.3	1 in 33.3	<u>1 in 22.9</u> <u>1</u>
DESIGN SURFACE	28.659 - 28.659 -	28.619-	28.499 <sup>.</sup> 28.389 <sup>.</sup>	28.488-	28.389 <sup>.</sup> 28.499-	28.619-
EXISTING SURFACE	28.707 28.709	28.717	28.719 28.719 28.719	28.718	28.717 28.717	28.720
OFFSET	-8.300 -8.300	-6.500	-3.750 -3.300	0.000	3.300 3.750	6.500
·				CH 228.	623	

CH 228.581

DATUM27.0

OFFSET

DATUM27.0

DESIGN SURFACE

EXISTING SURFACE

.9	-1 in-37.5		<u> </u>	 
		RBI		
		28.659 <sup>-</sup> 28.659-		
002 00	7.8.120	28.724 28.725		
	000.0	8.000 8.300		

	<u>1 in 37.5 1 in 7</u>	22.9 <u>1 in</u>	33.3 1 in 1	33.3 <u>1 in 2</u>	<u>2.9 1 in 37.5</u> <u>−</u> −	
28.657	co. 19.	28.497 <del>-</del> 28.387-	28.486-	28.387- 28.497-	28.657- 28.657- 28.657-	
28.706	28.716	28.717 28.717	28.716	28.715 28.715	28.717 28.722 28.723	
0000 8-	0 9	-3.750 -3.300	0.000	3.750	6.500 8.000 8.300	

	<u>in_37.5 1 in 22.9</u>	1 in 33.3	1 in 33.3	<u> </u>	
28.047- 28.047-	28.007-	. 77.	27.777+	27.887 <sup>+</sup> 28.007 <sup>+</sup>	28.047- 28.047-
28.080 28.080	28.077	28.070 28.069	28.060	28.048 28.044	28.035 28.032
-8.300	-6.500	-3.750	0.000	3.750	8.300 8.300

1 <u>in</u>	37.5	=
	RBL	
27.612	27.652-	
27.647	27.645 27.645	
6.500	8.000 8.300	



	<u></u>	1 in 37.5	<u>1 in 22.9</u> 1		<u>33.3</u> <u>1 in 2</u>	22.9 1 in 37.5	
	LBL					RBL	
DATUM29.0 DESIGN SURFACE	30.215	30.175	30.055	30.04.4	29.945	30.175	
EXISTING SURFACE	14 28 20		30.387	30.422	30.452	30.464 30.466 30.466	
OFFSET			-3.750 3	e 00000	3.300 3	6.500 3 8.300 3 8.300 3	
		ī		TPCH 268.181			
		1_in <del>_37.5</del>	<u>1 in 22 9</u>			2.9 <u>1 in 37.5</u>	
				in 33.3 1 in	33.3		
DATUM28.0	88 EB	t 1	21		21	8814 8814 8814 8814 8814 8814 8814 8814	
DESIGN SURFACE	29.781-		0 29.621- 2 29.511-	9 29.610	6 29.511 <sup>.</sup> 8 29.621 <sup>.</sup>	4 29.741- 29.781- 4 29.781-	
EXISTING SURFACE	22		29.860 29.862	29.879	29.89 29.89	29.904 29.904 29.904	
OFFSET		-6.500	-3.750 -3.300	0.000	3.300 3.750	6.500 8.000 8.300	
				CH 255.123			
		1_in_37.5—	<u>1 in 22.9</u> 1	in 33.3 1 in	33.3 <u>1 in 2</u>	22.9 1 in 37.5	
	Е					ßB	
DATUM28.0	29.268 20.268	29.228	29.108	29.097	28.998	29.228	
DESIGN SURFACE							
EXISTING SURFACE	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		0 29.341 0 29.345	0 29.374	0 29.400	0 29.408 29.411 0 29.411	
OFFSET		-6.500	-3.750	0.000	3.300 3.750	6.500 8.000 8.300	
				CH 242.623			
		<u>1_in_37.5</u>	<u>1 in 22.9</u>	in 33.3 1 in	<u>33.3</u> <u>1 in 2</u>		<u> </u>
DATUM28.0	29.201 29.201 29.201	29.161	29.041	330	28.931	29.201 BB	
DESIGN SURFACE				14 29.030			
EXISTING SURFACE			29.274 29.278	29.304	29.325 29.327	29.333 29.337 29.337	
OFFSET		-6.500	-3.750 -3.300	0.000	3.300 3.750	6.500 8.000 8.300	
				CH 241.081			
ed ker			ban Pty Ltd 124 206 819		<b>.</b>	smec	Estuary
~~·		These de	signs and drawings are ight of SM Urban Pty Ltd.		& ur	con	Stage 8 City of Grea

#### <u>LEGEND</u>

— — — EXISTING SURFACE ------ DESIGN LINE 



## ngton Street, Geelong West, VIC, 3218 00 | f +61 3 5228 3199 | www.smu.com.au

 61
 8
 8223
 6455
 Gold Coast
 +61
 7
 5578
 0222

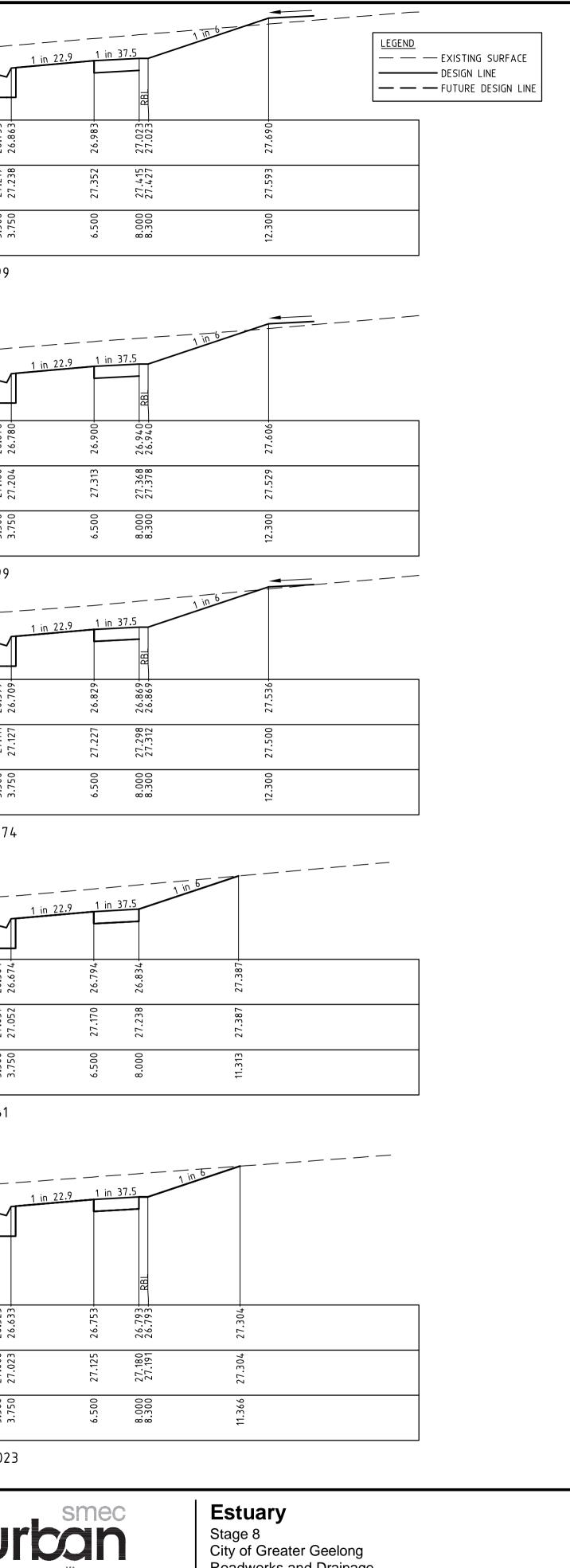
 61
 7
 3831
 8988
 Melbourne
 +61
 3
 9869
 0800

 61
 2
 6126
 1900
 Tranalgon
 +61
 3
 5173
 0100

## City of Greater Geelong Roadworks and Drainage Cross Sections - Parkfront Drive - 2 CH202.081 - CH268.181 Drawing No. 0250EHL-08-18 Sheet No. 18 of 29

Rev D Approved for Construction

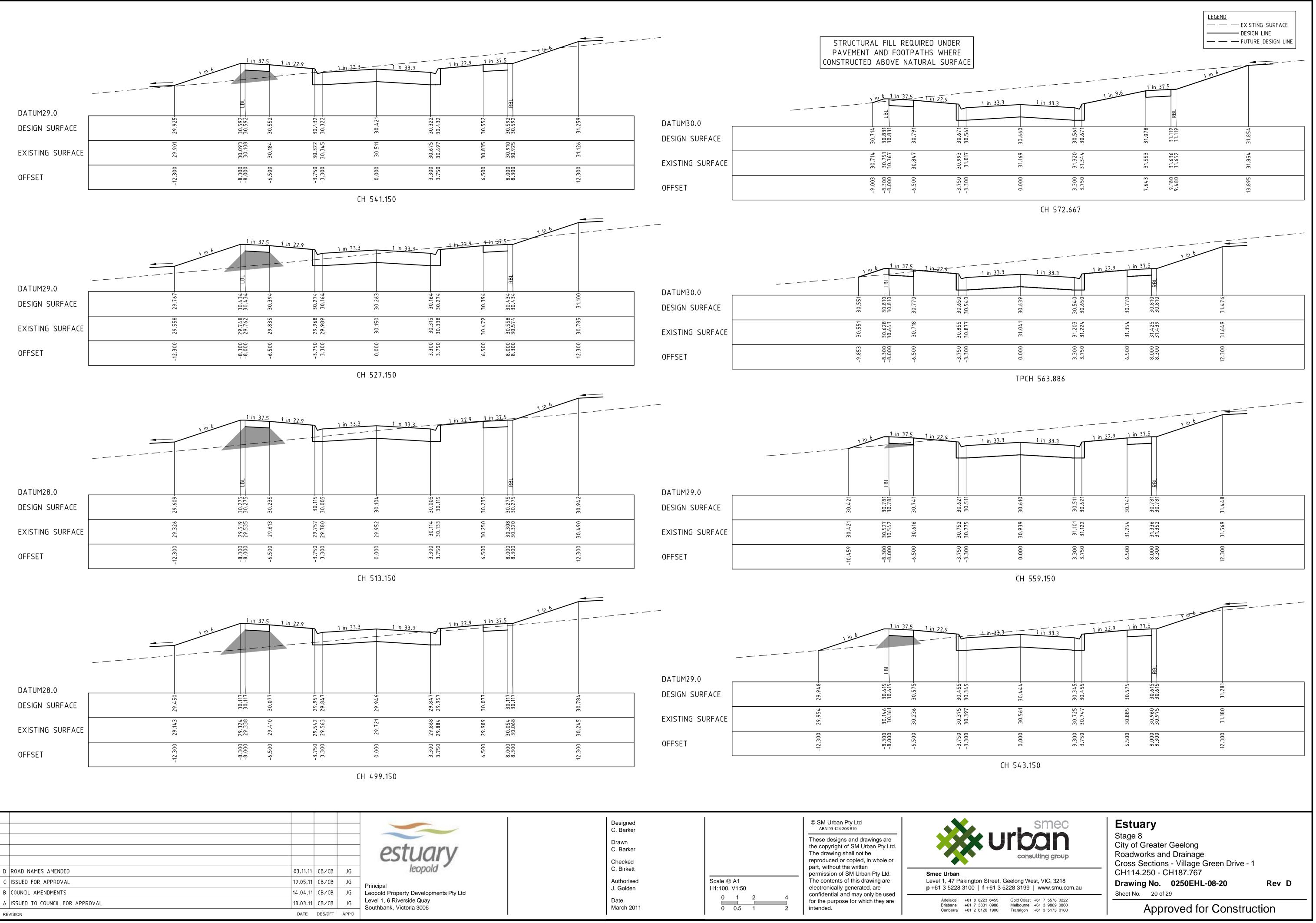
						GRADE EVENLY TO PATH REFER INTERSECTION PLAN	
	1 in 37.5 1	<u>in 22.9 1 in 33.3</u>		in 37.5	STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE	REFER INTERSECTION PLAN $ $	33.3 1 in 33.3 1 in 22.9 1 in 37.5
				BL	DATUM26.0 DESIGN SURFACE	26.753	26.852 26.863 26.983 26.983
DATUM25.0 DESIGN SURFACE	26.742 26.742 26.702	26.582	26.702	26.742	EXISTING SURFACE	26.934 2	27.087 2 27.219 2 27.238 2 27.352 2 27.352 2
EXISTING SURFACE	26.579 26.579 26.628 26.628 26.628	26.732 2 26.732 2 26.843	26.978 2 26.978 2 27.072 2			-3.750 26	0.000 27 3.300 27 3.750 27 6.500 27
OFFSET	8.300 8.300 6.500 2 2 2 2	-3.750 2 -3.300 2 0.000 2	3.750 2 3.6.500 2	8.300 2 8.300 2 11.269 2	OFFSET		ة ش
			Н 139.250				
	<u> </u>	in 22.0		in 37.5		GRADE EVENLY TO PATH REFER INTERSECTION PLAN	
		1 in 33.3	1 in 33.3				33.3 1 in 33.3 1 in 22.9 1 in 37.5
				E	DATUM26.0	6.670	26.769 26.670 26.780 26.900
	26.727 <u> </u>	26.567	567	26.727 <u></u> 26.727 <u></u> 27.212 <u></u>	DESIGN SURFACE	867 26.	
DESIGN SURFACE			.938 26.4 .955 26.5 049 26.6		EXISTING SURFACE	26.	0 27.053 0 27.186 0 27.204 0 27.313
EXISTING SURFACE	00 26.536 26.545 26.545 26.594	50 26.686 30 26.702 30 26.702	26.2	00 27.101 27.112 39 27.212	OFFSET	-3.750	0.0000 3.300 3.750 6.500
OFFSET	-8.300 -8.000 -6.500	-3.750 -3.300	3.300 3.750	8.300 8.300 11.209		GRADE EVENLY TO PATH REFER INTERSECTION PLAN	CH 165.599
			H 137.250	1			
		in 22.9 1 in 33.3	1 in 33.3 1 in 22.9 1		DATUM26.0		
					DESIGN SURFACE	26.709-	26.698 <sup>-</sup> 26.599- 26.709- 26.829-
DATUM25.0	0 4 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	88 77	888	62 48 RB	EXISTING SURFACE	26.858 26.858	26.988 27.111 27.127 27.227
DESIGN SURFACE	0 26.648 11 26.648 4 26.608	3 26.488 <sup>-</sup> 9 26.378- 7 26.477-	5 26.37 2 26.48 2 26.60	11 26.648- 31 26.648- 26.648- 26.648- 26.648-	OFFSET	-3.300	0.000 3.300 3.750 6.500
EXISTING SURFACE	26.400 26.411 26.464	26.579	26.922	26.971 26.981 25.981			TPCH 156.174
OFFSET	-8.300 -8.300 -8.000	-3.750 -3.300	3.300 3.750	8.000 8.300 10.780		GRADE EVENLY TO PATH REFER INTERSECTION PLAN	
			H 126.750				33.3 <u>1 in 33.3</u> <u>1 in 22.9</u> <u>1 in 37.5</u>
	1 in 6 1 in 37.5 1	in 22.91 in 33.3	1 in 33.3 1 in 22.9 1	in 37.5	DATUM26.0		
					DESIGN SURFACE	26.674	26.663 26.564 26.674 26.794
DATUM25.0	6 6				EXISTING SURFACE	26.806	26.920 27.037 27.052 27.170
DESIGN SURFACE	26.259	26.437-26.447-26.337-26.337-26.337-226.337-226.337-226.337-226.436-226-226-226-226-226-226-226-226-226-2	26.337- 5 26.447- 7 26.567-	26.607- 26.607- 1 26.991-	OFFSET	-3.300	0.000 3.300 3.750 6.500
EXISTING SURFACE	26.259 26.334 26.345 26.399 26.399	26.497 26.513 26.632	26.750 26.766 26.857	26.906 26.916 26.991			CH 151.561
OFFSET	-10.386 -8.300 -8.000 -8.000	-3.750 -3.300	3.300 3.750 6.500	8.000 8.300 10.602			
			Н 121.250			- 1 in 37.5 1 in 22.9	33.3 <u>1 in 33.3</u> <u>1 in 22.9</u> <u>1 in 37.5</u>
	1 in 37.5 1	<u>in 22.9</u> <u>1 in 33.3</u>	1 in 33.3 1 in 22.9 1	in 37.5			
DATUM25.0	222 23 222 2	85				26.793 26.793 26.753 26.633 26.633 26.523	26.622 26.523 26.633 26.753
DESIGN SURFACE	3 26.163 7 26.555 26.555 2 26.515	1 26.395 <sup>-</sup> 7 26.285- 8 26.384-	266266	7 26.555- 9 26.939-	DESIGN SURFACE		
EXISTING SURFACE	26.163 26.247 26.258 26.312	26.427	26.688	26.847 26.857 26.939	EXISTING SURFACE	300 26.655 300 26.664 500 26.709 750 26.793 300 26.793	000 26.907 300 27.008 750 27.023 500 27.125
OFFSET	-10.650 -8.300 -8.000 -6.500	-3.750 -3.300	3.300 3.750 6.500	8.000 8.300 10.604	OFFSET	-8.300 -8.300 -8.000 -3.750 -3.300	0.000 0.000 3.300 3.750 6.500
		(	H 114.250				TPCH 146.023
					Designed C. Barker	© SM Urban Pty Ltd ABN 99 124 206 819	smec
			petinary		Drawn C. Barker	These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be	Consulting group
D ROAD NAMES AMENDED		03.11.11 CB/CB JG	leopold		Checked C. Birkett	reproduced or copied, in whole or part, without the written permission of SM Urban Pty Ltd.	Smec Urban
C ISSUED FOR APPROVAL B COUNCIL AMENDMENTS		19.05.11         CB/CB         JG           14.04.11         CB/CB         JG	<ul> <li>Principal</li> <li>Leopold Property Developments Pty L</li> <li>Lovel 1, 6 Riverside Quay</li> </ul>	.td	AuthorisedScale @ A1J. GoldenH1:100, V1:50Date01	The contents of this drawing are electronically generated, are confidential and may only be used	Level 1, 47 Pakington Street, Geelong West, VIC, 3218 <b>p</b> +61 3 5228 3100   <b>f</b> +61 3 5228 3199   www.smu.com.a Adelaide +61 8 8223 6455 Gold Coast +61 7 5578 0222
A ISSUED TO COUNCIL FOR APPROVAL		18.03.11CB/CBJGDATEDES/DFTAPP'D	Level 1, 6 Riverside Quay Southbank, Victoria 3006		Date March 2011 0 0.5 1	for the purpose for which they are intended.	Adelaide +61 8 8223 6455 Gold Coast +61 7 5578 0222 Brisbane +61 7 3831 8988 Melbourne +61 3 9869 0800 Canberra +61 2 6126 1900 Traralgon +61 3 5173 0100



**Estuary** Stage 8 City of Greater Geelong Roadworks and Drainage Cross Sections - Treefern Street

Drawing No. 0250EHL-08-19 Sheet No. 19 of 29

Rev D



DATUM30.0		LBL	5	1 in 33.3
DESIGN SURFACE	30.714	30.831-	30.791+	30.561 <del>1</del> 30.561
EXISTING SURFACE	30.714	30.751 30.767	30.847	30.993 31.017
OFFSET	E00.e-	-8.300	-6.500	-3.750 -3.300

DATUM30.0			37.5 1 i	1 in 33.3
DESIGN SURFACE	30.551-	30.810- 30.810-	30.770-	30.650-
EXISTING SURFACE	30.551	30.628 30.643	30.718	30.855 30.877
OFFSET	-9.853	-8.300	-6.500	-3.750 -3.300

_		1 in 6	1 in 37	.5 1 in 22.9	<u> </u>
DATUM29.0		~			
DESIGN SURFACE		× × × ×	30.615- 30.615-	30.575	30.455- 30.345-
EXISTING SURFACE	, 10 OC	4cV.V2	30.146 30.161	30.236	30.375 30.397
OFFSET		- 12.300	-8.300 -8.000	-6.500	-3.750 -3.300

Designed C. Barker		© SM Urban Pty Ltd ABN 99 124 206 819	
Drawn C. Barker Checked		These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be reproduced or copied, in whole or part, without the written	XXX Ur
C. Birkett Authorised J. Golden	Scale @ A1 H1:100, V1:50	part, without the written permission of SM Urban Pty Ltd. The contents of this drawing are electronically generated, are	Smec Urban Level 1, 47 Pakington Street, Geelo p +61 3 5228 3100   f +61 3 5228
Date March 2011	0 1 2 4 0 0.5 1 2	confidential and may only be used for the purpose for which they are intended.	Adelaide +61 8 8223 6455 Go Brisbane +61 7 3831 8988 Me Canberra +61 2 6126 1900 Tra

TUM29.0			
SIGN SURFACE	-167 UE	30.781- 30.781- 30.781- 30.781-	
STING SURFACE	10 E	30.542	
SET	10 4 5 9	-8.300 -8.000	

					est
D	ROAD NAMES AMENDED	03.11.11	СВ/СВ	JG	
C	ISSUED FOR APPROVAL	19.05.11	СВ/СВ	JG	Principal
В	COUNCIL AMENDMENTS	14.04.11	СВ∕СВ	JG	Leopold Property
А	ISSUED TO COUNCIL FOR APPROVAL	18.03.11	СВ∕СВ	JG	Level 1, 6 Rivers Southbank, Victo
RE	/ISION	DATE	DES/DFT	APP'D	



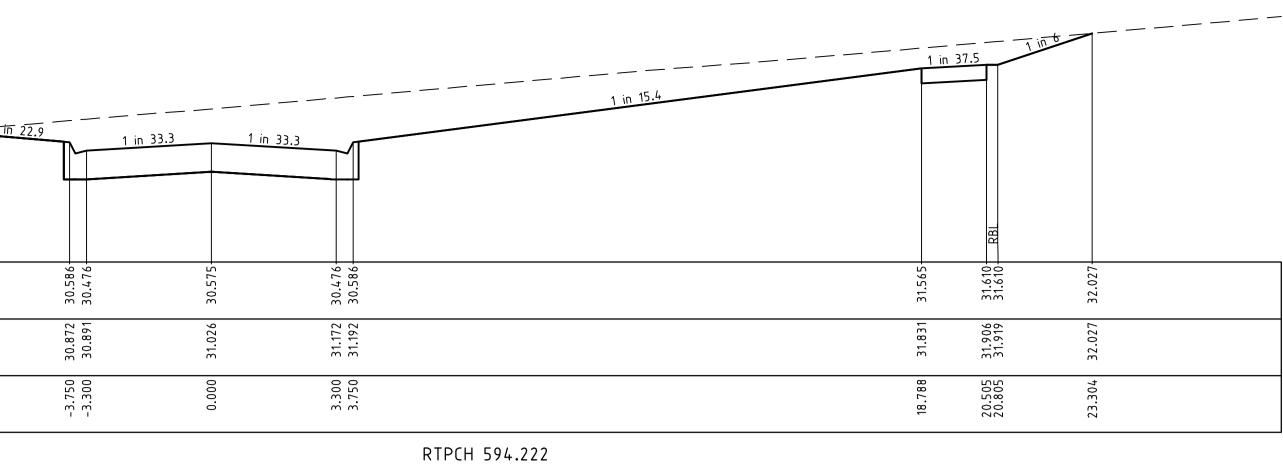
Principal Leopold Property Developments Pty Ltd Level 1, 6 Riverside Quay Southbank, Victoria 3006

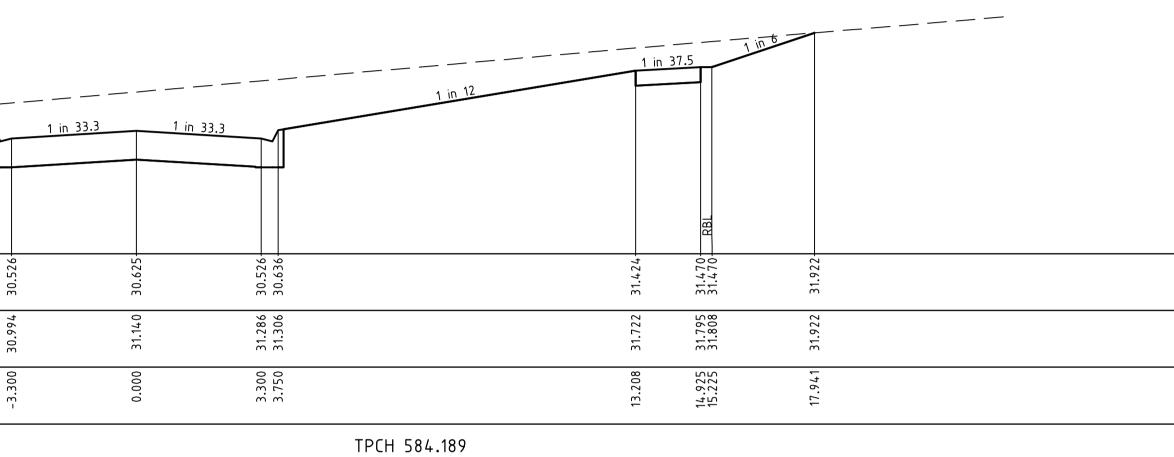
DATUM30.0	^	in		1 in 37.5	- Tin 22.9	 T
DESIGN SURFACE		0.72	30.830+ 30.830+	62.0		30.670
EXISTING SURFACE		0.72	30.762 30.778	0.85		31.004
OFFSET		6.	-8.300	പ		-3.750

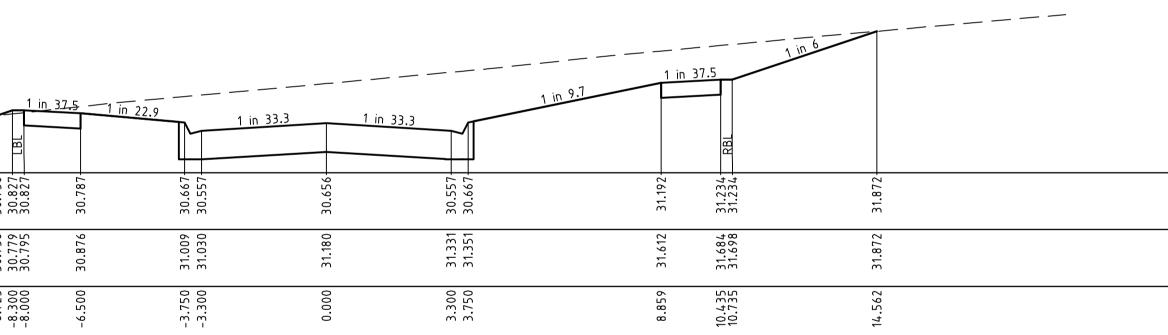
DATUM30.0		
DESIGN SURFACE	L. 8.8. L. V	30.06/
EXISTING SURFACE	30.779 30.779 30.779 30.876	700.15 700.15
OFFSET		06/.6-

	1 in <u>37.5</u>	-
DATUM29.0		
DESIGN SURFACE	30.771- 30.771- 30.796- 30.756- 30.636-	
EXISTING SURFACE	30.771 30.777 30.777 30.789 30.974 30.974	
OFFSET	-8.451 -8.300 -8.300 -8.300 -8.300 -8.300 -8.300 -8.300 -3.750	

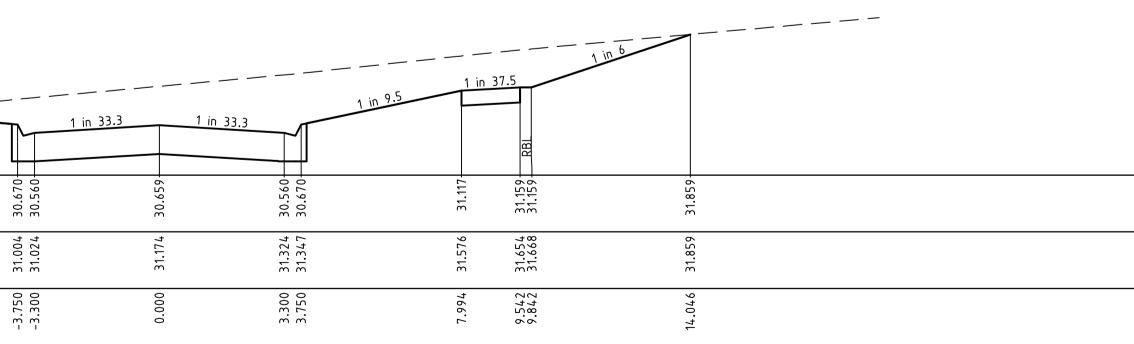
	- $        -$	
DATUM29.0		
DESIGN SURFACE	30.664- 30.746- 30.746- 30.706-	30.586-30.476-
EXISTING SURFACE	30.664 30.664 30.696 30.756	30.872
OFFSET	-8.791 -8.300 -8.000 -6.500	-3.300







CH 576.366



CH 573.892

Designed C. Barker		© SM Urban Pty Ltd ABN 99 124 206 819	
Drawn C. Barker Checked		These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be reproduced or copied, in whole or part, without the written	XXX Ur
C. Birkett Authorised J. Golden	Scale @ A1 H1:100, V1:50	permission of SM Urban Pty Ltd. The contents of this drawing are electronically generated, are	Smec Urban Level 1, 47 Pakington Street, Geele p +61 3 5228 3100   f +61 3 5228
Date March 2011	0 1 2 4 0 0.5 1 2	confidential and may only be used for the purpose for which they are intended.	Adelaide +61 8 8223 6455 Gc Brisbane +61 7 3831 8988 Me Canberra +61 2 6126 1900 Tra

#### LEGEND



Geelong West, VIC, 3218 228 3199 | www.smu.com.au

Gold Coast+61755780222Melbourne+61398690800Traralgon+61351730100

# Stage 8City of Greater GeelongRoadworks and DrainageCross Sections - Village Green Drive - 2CH188.992 - CH209.322Drawing No.0250EHL-08-21Rev DSheet No.21 of 29

Estuary

Approved for Construction

	- 1 in 6 1 in 37.5 1 in	<u>n 22.9 — — — — 1 in</u>		<u>33.3</u> <u>1 in</u>			
					RBL		
DATUM29.0	30.027	30.076	30.065	29.966	30.196	30.631	
DESIGN SURFACE							
EXISTING SURFACE	56 30.027 00 30.061 00 30.071 00 30.121	50 30.213 30 30.228	00 30.337	00 30.446 50 30.461	00 30.535 30.545	30.631	
OFFSET	-9.556 -8.300 -8.000	-3.750	0.000	3.300 3.750	6.300	8.912	
			CH 657.970			6 <b></b>	
		<u>n 22.9</u> — — — — — 1 in		<u>33.3</u> <u>1 in</u>	18.8		
DATUM29.0	82 45 82 18 82 18	52		52 62	82 82 82	87	
DESIGN SURFACE	5 30.245 <sup>-</sup> 8 30.422 <sup>-</sup> 8 30.422 <sup>-</sup> 6 30.382 <sup>-</sup>	7 30.262 <sup>.</sup> 3 30.152 <sup>.</sup>	9 30.251	5 30.152- 1 30.262-	0 30.382 <sup>.</sup>	87 30.887	
EXISTING SURFACE	30.245 30.278 30.288 30.336	30.427 30.443	30.559	30.675 30.691	30.770 30.781	30.8	
OFFSET	-9.364 -8.300 -8.000 -6.500	-3.750 -3.300	0.000	3.300 3.750	6.000	6.333	
			CH 641.970				_
		n 22.9 1 in				26	
					Ĭ		
DATUM29.0					RBI		
DESIGN SURFACE	30.486- 30.486-	30.366+	30.355-	30.256+ 30.366+	30.486 <sup>-</sup> 30.486-	31.059-	
EXISTING SURFACE	30.487 30.497 30.509 30.571	30.627 30.648	30.742	30.840	30.929	31.059	
OFFSET	- 8.5336 - 8.300 - 8.300 - 8.000 - 6.500	-3.750	0.000	3.300	6.000	9.738	
			CH 630.870				
						1 in 6	
		NTERSECTION					
		1 in	33.3 1 in	33.3 <u>1 in</u>			
			33.3 1 in	33.3 <u>1 in</u>			
ΠΑΤΙΙΜ29 Δ			33.3 1 in	<u>33.3</u> 1 in			
DATUM29.0 DESIGN SURFACE			33.3 1 in		30.568	31.337	
		1 in 88.00	30.437	30.338	30.568		
DESIGN SURFACE		1 in 30.796 30.338	30.898 30.437	31.032 30.338 31.032 30.448	31.148 30.568 31.165 30.568	31.337	
DESIGN SURFACE		1 in 	0.000 30.898 30.437	30.338	30.568		
DESIGN SURFACE		1 in 	30.898 30.437	3.750 31.032 30.448	6.000 31.148 30.568 6.300 31.165 30.568	31.337	
DESIGN SURFACE		1 in 1 in 800 30.796 -3.300 -3.300	LETOE 868.0E 000.0 TPCH 620.022	3.750 31.032 30.448	31.148 30.568 31.165 30.568	31.337	
DESIGN SURFACE		1 in 1 in 885 962.08 962.08 1 in 885 1 in 885 1 in 885 1 in 885 1 in 885 1 in 885 1 in 885 1 in 1 in	LETOE 868.0E 000.0 TPCH 620.022	3.70 8.50 8.720 31.032 30.448 8.50 31.032 30.448 8.50 31.032 30.448 8.50 8.50 9.70 9.70 9.70 9.70 9.70 9.70 9.70 9.7	6.000 31.148 30.568 6.300 31.165 30.568	31.337	
DESIGN SURFACE		1 in 1 in 885 962.08 962.08 1 in 885 1 in 885 1 in 885 1 in 885 1 in 885 1 in 885 1 in 885 1 in 1 in	LETOE 868.0E 000.0 TPCH 620.022	3.70 8.50 8.720 31.032 30.448 8.50 31.032 30.448 8.50 31.032 30.448 8.50 8.50 9.70 9.70 9.70 9.70 9.70 9.70 9.70 9.7	6.000 31.148 30.568 6.300 31.165 30.568	31.337	
DESIGN SURFACE	30.692 30.692 30.692 30.692 30.692	1 in 1 in 885 962.08 962.08 1 in 885 1 in 885 1 in 885 1 in 885 1 in 885 1 in 885 1 in 885 1 in 1 in	LETOE 868.0E 000.0 TPCH 620.022	3.70 8.50 8.720 31.032 30.448 8.50 31.032 30.448 8.50 31.032 30.448 8.50 8.50 9.70 9.70 9.70 9.70 9.70 9.70 9.70 9.7	6.000 31.148 30.568 6.300 31.165 30.568	31.337	
DESIGN SURFACE	30.671 30.692 30.692 30.652	30.532 30.532 1 in 20.422 30.422 1 in 1 in 20.796	LETTOR 868.0E 000.0 TPCH 620.022	33.3 30.422 30.422 33.3 30.422 33.3 30.422 30.422 30.448 224.08 31.032 30.448 224.08 31.032 30.448 31.032 30.4488 30.448 30.44888 30.44888 30.44888 30.44888 30.44888 30.44888 30.44888 30.44888 30.448888 30.448888 30.4488888 30.4488888 30.448888888 30.448888888888 30.4488888888888888888888888888888888888	6.000 31.148 30.568 6.300 31.165 30.568	31.337	
DESIGN SURFACE	30.671 30.671 30.671 30.692 30.692 30.692 30.652 30.652 30.652	30.873 30.873 30.873 30.872 30.872 30.422 1 iu 1 iu 1 iu 1 iu 1 iu 1 iu 1 iu 1 iu	LETTOR 888.00 TPCH 620.022 33.3 1 in 33.2 1 in	3.101 224.05 8.2.05 10.15 1	6.000 31.148 30.568 6.300 31.165 30.568	31.337	
DESIGN SURFACE	30.671 30.692 30.692 30.652	-3.750 30.873 30.532 -3.300 30.873 30.552 -3.300 30.875 30.552 -3.300 30.875 30.552 -3.300 30.875 30.552 -3.300 30.875 30.552 -3.300 30.875 30.552 -3.300 30.875 30.552 -3.300 30.752 -3.300 30.752 -3.300 -3.300 30.752 -3.300 30.752 -3.3000 -3.3000 -3.3000 -3.3000 -3.3000 -3.3000 -3.3000 -3.3000 -	LETTOR 868.00 00000 TPCH 620.022 33.3 1 in 33.2 1 in 1	33.3 30.422 30.422 33.3 30.422 33.3 30.422 30.422 30.448 224.08 31.032 30.448 224.08 31.032 30.448 31.032 30.4488 30.448 30.44888 30.44888 30.44888 30.44888 30.44888 30.44888 30.44888 30.44888 30.448888 30.448888 30.4488888 30.4488888 30.448888888 30.448888888888 30.4488888888888888888888888888888888888	6.000 31.148 30.568 6.300 31.165 30.568	31.337	
DESIGN SURFACE	30.671 30.671 30.671 30.692 30.692 30.692 30.652 30.652 30.652	-3.750 30.873 30.532 -3.300 30.873 30.552 -3.300 30.875 30.552 -3.300 30.875 30.552 -3.300 30.875 30.552 -3.300 30.875 30.552 -3.300 30.875 30.552 -3.300 30.875 30.552 -3.300 30.752 -3.300 30.752 -3.300 -3.300 30.752 -3.300 30.752 -3.3000 -3.3000 -3.3000 -3.3000 -3.3000 -3.3000 -3.3000 -3.3000 -	LETTOR 888.00 TPCH 620.022 33.3 1 in 33.2 1 in	33.30 31.174 8.5.05 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15	8995:0E 871:1E 000.9 11ERSECTION	10.914 31.337	
DESIGN SURFACE	30.671 30.671 30.671 30.692 30.692 30.692 30.652 30.652 30.652	-3.750 30.873 30.532 -3.300 30.873 30.552 -3.300 30.875 30.552 -3.300 30.875 30.552 -3.300 30.875 30.552 -3.300 30.875 30.552 -3.300 30.875 30.552 -3.300 30.875 30.552 -3.300 30.752 -3.300 30.752 -3.300 -3.300 30.752 -3.300 30.752 -3.3000 -3.3000 -3.3000 -3.3000 -3.3000 -3.3000 -3.3000 -3.3000 -	LETTOR 868.00 00000 TPCH 620.022 33.3 1 in 33.2 1 in 1	33.30 31.174 8.5.05 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15	8995:0E 871:1E 000.9 11ERSECTION	10.914 31.337	
DESIGN SURFACE	30.671 30.671 30.671 30.692 30.692 30.692 30.652 30.652 30.652	-3.750 30.873 30.532 -3.300 30.873 30.552 -3.300 30.875 30.552 -3.300 30.875 30.552 -3.300 30.875 30.552 -3.300 30.875 30.552 -3.300 30.875 30.552 -3.300 30.875 30.552 -3.300 30.752 -3.300 30.752 -3.300 -3.300 30.752 -3.300 30.752 -3.3000 -3.3000 -3.3000 -3.3000 -3.3000 -3.3000 -3.3000 -3.3000 -	LETTOR 868.00 00000 TPCH 620.022 33.3 1 in 33.2 1 in 1	33.30 31.174 8.5.05 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15 005.5 10.15	8995:0E 871:1E 000.9 11ERSECTION	10.914 31.337	
DESIGN SURFACE	30.671 30.671 30.671 30.692 30.692 30.692 30.652 30.652 30.652		LEFTOR 0000	33.3 REFER IN DETAILS 002:2 0 0 0 0 0 0 0 0 0 0 0 0 0	6.000 31.148 30.568 6.300 31.165 30.568	10.914 31.337	
DESIGN SURFACE	30.671 30.671 30.671 30.692 30.692 30.692 30.652 30.652 30.652	1 in 1	LE 7.0E 868.0E 000.0 TPCH 620.022 33.3 1 in 100.0 10	33.3 Principal	Bevelopments Pty Lt		

	STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE	ن_۱	in 6 1 in 3	7.5 <u>1 in 22.9</u>	└ <u> 1-in 33.3</u>	in3.3		18.8 1 in		
	DATUM28.0	785	29.204	29.164	)34 	EC CO	934	29.164	344	]
	DESIGN SURFACE	5 28.785				8 29.033	3 28.934 <sup>.</sup> 5 29.044 <sup>.</sup>		4 29.3	
	EXISTING SURFACE	28.785	28.861 28.870	28.919	29.022	29.128	29.233 29.245	29.306 29.314	29.344	
	OFFSET	- 10.815	-8.300	-6.500	00 9.300 	0.000	3.300 3.750	6.000 6.300	7.378	
		'			CH 735.970					
		1	in 6 1 in 3	7.5 1 in 22.9	<u> </u>	1 in 33.3		18.8 T IN	6	
	DATUM28.0									
	DESIGN SURFACE	29.007	29.389 <sup>.</sup> 29.389.	29.349	29.119	29.218	29.119- 29.229-	29.349- 29.349-	29.557	
	EXISTING SURFACE	29.007	29.063 29.073	29.124	29.228	29.335	29.438 29.451	29.514 29.522	29.557	
	OFFSET	10.594	-8.000		000E.E -	0.000	3.300	6.000	7.545	
				1	CH 721.970				-	
			<u> </u>	7.5 1 in 22.9				18.8 in	<u> </u>	
6			in 6		<u> </u>	<u> </u>		10.0		
31.059-										
31.059	 DATUM28.0					22	200 200 200	96 96 RB	27	
9.738	DESIGN SURFACE	29.180	29.536- 29.536			29.365	29.266- 29.376-	29.496- 29.496-	29.727	
6	EXISTING SURFACE	29.180	29.246 29.256	29.302	246.42	29.516	29.609 29.617	29.669 29.680	29.727	
	OFFSET	-10.435	-8.300	-6.500	007.6- 008.8-	0.000	3.300 3.750	6.000 6.300	7.687	
					LTPCH 710.870	)				
			1 in 6 1 in 3	7.5 <u>1 in 22.9</u>	<u>+_in−33.3</u>	1 in 33.3		18.8	<u> </u>	
31.337	 DATUM29.0		LBL					RBL		
	DESIGN SURFACE	29.574-	29.878- 29.878-	29.838-	29.608-	29.707-	29.608- 29.718-	29.838- 29.838-	30.083-	
31.337		29.574	29.635			29.795	29.935	30.019	30.083	
10.914	EXISTING SURFACE						3.300 29 3.750 29	6.300 30 6.300 30		
	OFFSET	-10.123	-8.300	-6.500	000.e-	0.000	3.3	6.9	7.775	
					LTPCH 685.070	)				
			1 in 6 1 in 3	7.5 <u>1 in 22.9</u>	1 in 33.3	1 in 33.3		18.8	III 6 -	
	DATUM29.0		LBL		-			RBL		
	DESIGN SURFACE	29.721+	30.024- 30.024-	29.984-	29.754-	29.853-	29.754 <del>-</del> 29.864-	29.984-	30.331-	
	EXISTING SURFACE	29.721	29.760		29.917	30.046	30.159	30.251	30.331	
		.122 2	-8.300		2	0.000	3.300 3.	6.000 3	8.380	
	OFFSET	-10.	φφ		۲ ק ק CH 673.970	0.0	m m	۰. ۵۰	8	
	Designed		© SM Urban P		. •		C	mec		Estuary
	C. Barker Drawn		ABN 99 124 200 These designs	and drawings are		<b>X</b> U	irh	<u>'in</u>		Stage 8
	C. Barker Checked		The drawing sh reproduced or o	copied, in whole or			consult	ng group		City of Greater Gee Roadworks and Dra Cross Sections - V
	C. Birkett Authorised	Scale @ A1	part, without the permission of S The contents o	e written SM Urban Pty Ltd. f this drawing are	Smec Urban Level 1, 47 F	akington Street,	Geelong West,	VIC, 3218		Cross Sections - V CH220.170 - CH35 Drawing No. 02
	Date	H1:100, V1:50 0 1 2 4	for the purpose	enerated, are d may only be used e for which they are	p +61 3 5228 Adelaide Brisbane	+61 8 8223 6455 +61 7 3831 8988	5228 3199   W Gold Coast +61 Melbourne +61	7 5578 0222		Sheet No. 22 of 29
	March 2011	0 0.5 1 2	intended.		Canberra		Traralgon +61			Approve



eelong Drainage Village Green Drive - 3 351.070 Drawing No. 0250EHL-08-22 Rev D Sheet No. 22 of 29

## Approved for Construction

#### <u>LEGEND</u> — — — EXISTING SURFACE

------ DESIGN LINE 

DESIGN FLOW (m3/s) CAPACITY (m3/s) AT GRADE VELOCITY (m/s) PIPE SIZE (mm) GRADE DATUM		0.045 0.095 		0.024 0.073 	0.007 0.057 
DEPTH TO INVERT	0.742		0.707		0.673
HYDRAULIC GRADE LINE	24.315		26.442		27.480 27.559 27.555 27.724 27.730
			26.086		27.255 2 27.305 2 27.499 2
NVERI LEVEL	23.97				
	0 4.948 23.970 24.205				
INVERT LEVEL FINISHED SURFACE LEVEL EXISTING SURFACE LEVEL	48 24.948		26.793 26.793 2		27.978     27.978     2       21.978     2     2       2     2     2       2     2     2       2     2     2       2     2     2       2     2     2       2     2     2       2     2     2

2)

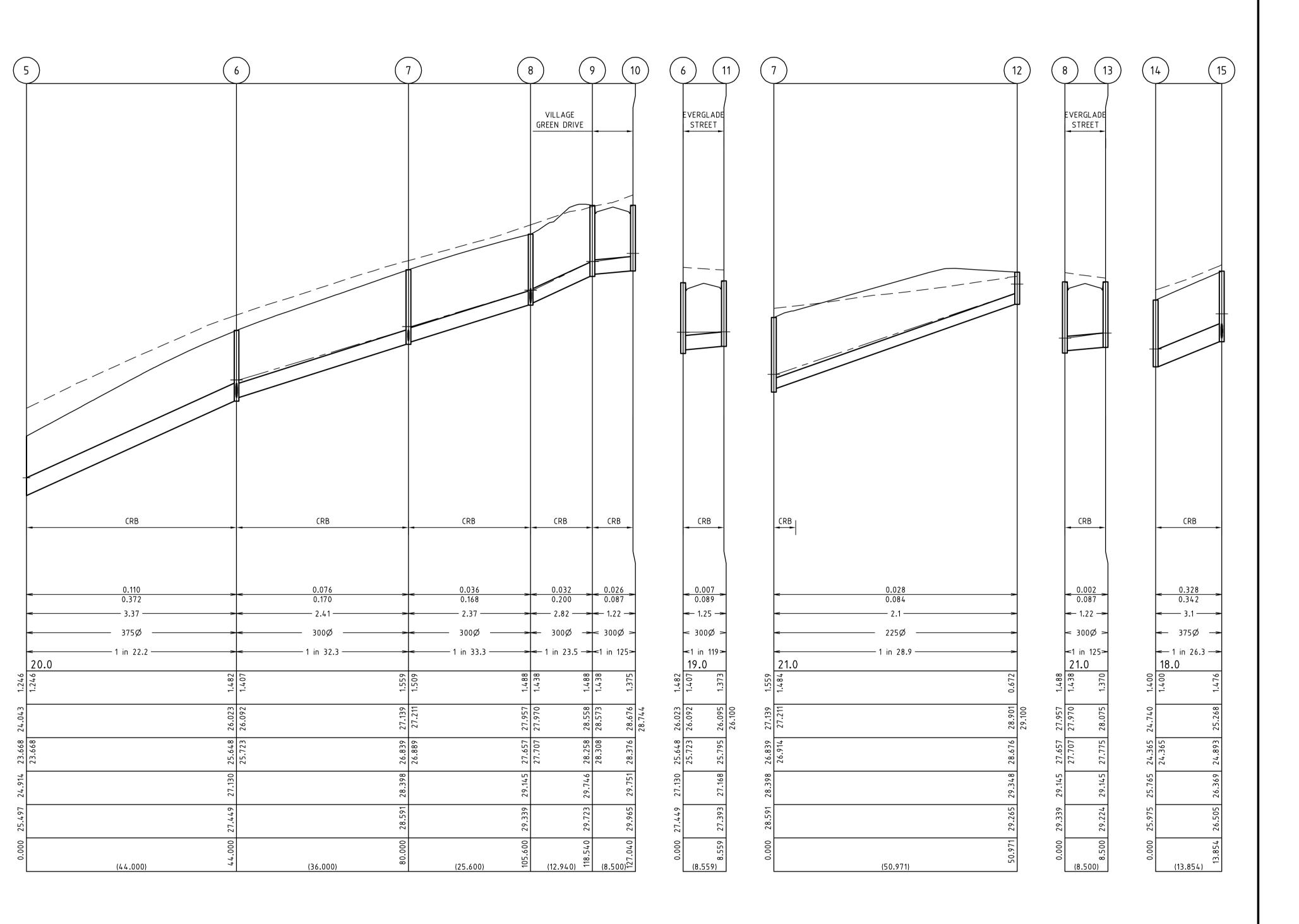
(з)

(4)

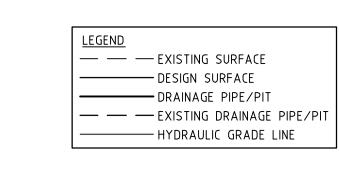
(1)

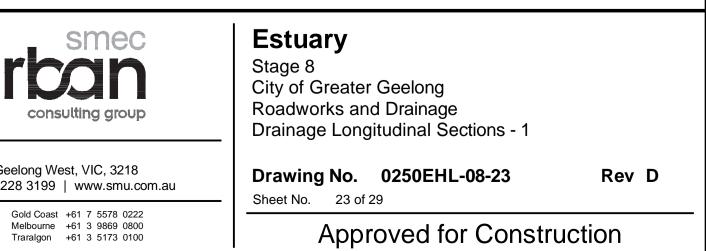
s@leopold\0250ehl - 8\dwgs\						estuary
rizon	D	ROAD NAMES AMENDED	03.11.11	СВ/СВ	JG	ieupulu
od - Ir	С	ISSUED FOR APPROVAL	19.05.11	СВ∕СВ	JG	Principal
ng\0250ehl	В	COUNCIL AMENDMENTS	14.04.11	СВ∕СВ	JG	Leopold Property Developments Pty Ltd
\eng\0	А	ISSUED TO COUNCIL FOR APPROVAL	18.03.11	СВ/СВ	JG	Level 1, 6 Riverside Quay Southbank, Victoria 3006
l:\work	RE	VISION	DATE	DES/DFT	APP'D	





Designed C. Barker		© SM Urban Pty Ltd ABN 99 124 206 819	
Drawn C. Barker Checked		These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be reproduced or copied, in whole or	XXX UI
C. Birkett Authorised J. Golden	Scale @ A1 H1:500, V1:50	<ul> <li>part, without the written</li> <li>permission of SM Urban Pty Ltd.</li> <li>The contents of this drawing are</li> <li>electronically generated, are</li> </ul>	<b>Smec Urban</b> Level 1, 47 Pakington Street, Gee <b>p</b> +61 3 5228 3100   <b>f</b> +61 3 522
Date March 2011	0 5 10 20 0 0.5 1 2	confidential and may only be used for the purpose for which they are intended.	Adelaide +61 8 8223 6455 0 Brisbane +61 7 3831 8988 M Canberra +61 2 6126 1900



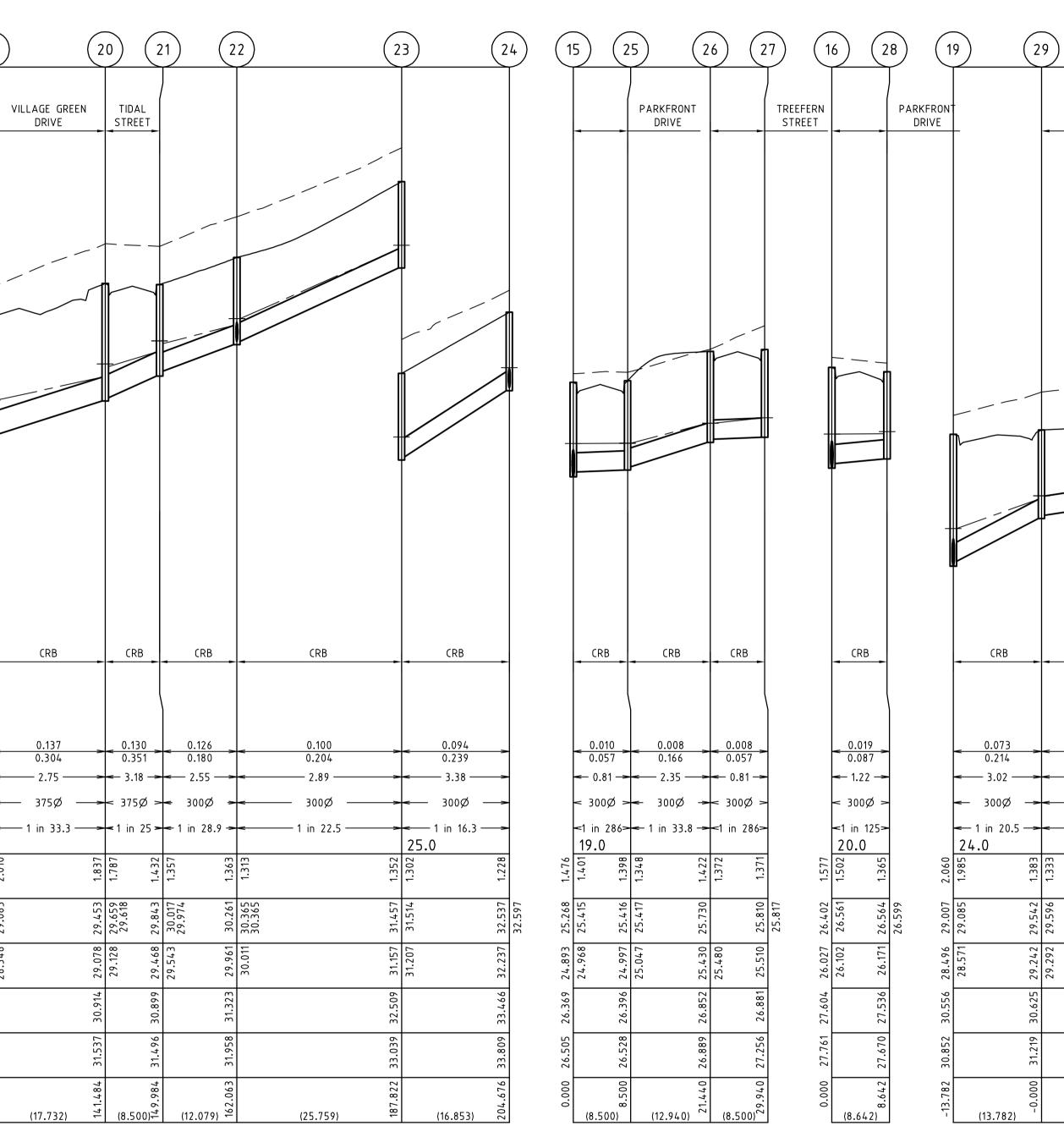


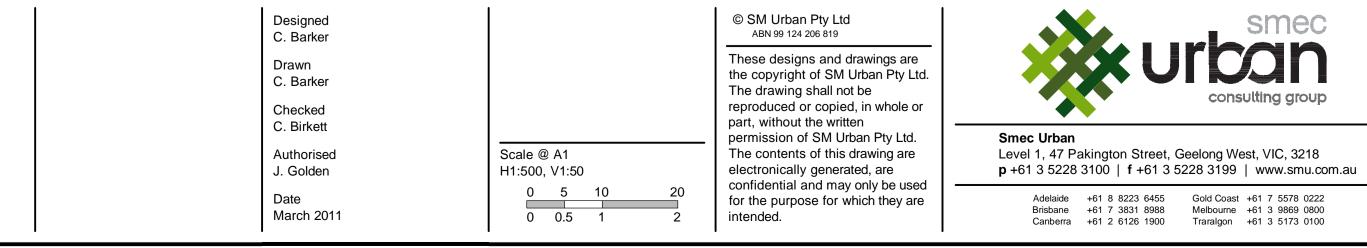
(	15	(16)		(17)	(1	8) (	19
						PARKFRONT DRIVE	-
	СКВ		CRB	CF	₹B	CRB	• •
DESIGN FLOW (m3/s) CAPACITY (m3/s) AT GRADE VELOCITY (m/s)	<ul> <li>0.259</li> <li>0.343</li> <li>3.11</li> </ul>		<u>    0.229</u> 0.293 ——2.65 ——		2 <u>17</u> 304	<ul> <li>&lt; 0.209</li> <li>&lt; 0.304</li> <li>&lt; 2.75 ──</li> </ul>	<del>&gt; &lt;</del>
PIPE SIZE (mm) GRADE DATUM			375Ø 1 in 35.9		33.3~	<del>- 1</del> in 33.3 -	
DEPTH TO INVERT	1.476 1.426	1.577 1.527		2.309 2.259	2.004	1.954	2.060
HYDRAULIC GRADE LINE	25.268	26.402 26.561		28.127 28.606 28.543	28.673	28.824	29.085
INVERT LEVEL	24.943	26.027		27.752 27.802	28.057	28.107	28.496 28.546
FINISHED SURFACE LEVELS	26.369	27.604		30.061	30.061	ע זיז גר ר	30.56
EXISTING SURFACE LEVEL	26.505	27.761		30.359	30.439	ר בי ר בי ר בי	30.852
CHAINAGE (Reach Length)	158. EL (28.358)	42.212	(60.100)		<u>.</u> 	(12.940)	123.122

					1
					P
Ε	ROAD NAMES AMENDED	03.11.11	CB/CB	JG	
D	DRAINAGE LAYOUT AMENDMENTS	29.07.11	СВ∕СВ	JG	
С	ISSUED FOR APPROVAL	19.05.11	СВ∕СВ	JG	Principal
В	COUNCIL AMENDMENTS	14.04.11	CB/CB	JG	Leopold Pro
A	ISSUED TO COUNCIL FOR APPROVAL	18.03.11	CB/CB	JG	Level 1, 6 R Southbank,
RE	/ISION	DATE	DES/DFT	APP'D	Coulibanit,



Property Developments Pty Ltd **Riverside Quay** k, Victoria 3006





10         1				
VILLAGE GREEN DRIVE           VILLAGE GREEN DRIVE           0.067           0.067           0.016           0.116           1.14           3000           1.14           1.14           1.14           1.11			 	DESIGN SURFACE DRAINAGE PIPE/PIT EXISTING DRAINAGE PIPE/PIT
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3		31	22 32
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
7.822     31.414     30.797     29.554     29.981     11.414       57.0     29.624     29.981     29.091     29.091       87.0     29.624     29.981     10.10       81.1     30.797     29.624     29.981       7.11     29.624     29.981     10.14       81.1     1.00     31.350     32.622     32.622       210.0     31.958     31.323     29.961     30.365       1.11     30.365     1.30.365     1.31.304       1.11     30.365     1.31.305     30.365       1.11     30.365     1.31.31     30.365       1.11     30.433     30.433     1.30.43	0.067 0.116 — 1.64 — >	<ul><li>0.124</li><li>3.12</li></ul>		<u> </u>
7.822     31.414     30.797       7.822     31.414     30.797       6000     31.414     30.797       6000     31.958     31.323       6.7000     31.958     31.323       6.7000     31.958     31.340       6.4402     31.830     31.340	29.849	29.979 29.979	32.847 32.915	30.261 1.363 30.365 1.313 7 30.365 1.313 7 30.437 1.204 7 30.447
	7.822 31.414 30.797		33.304 33.350	0.000 31.958 31.323 4.402 31.830 31.340

Estuary

Stage 8 City of Greater Geelong Roadworks and Drainage Drainage Longitudinal Sections - 2

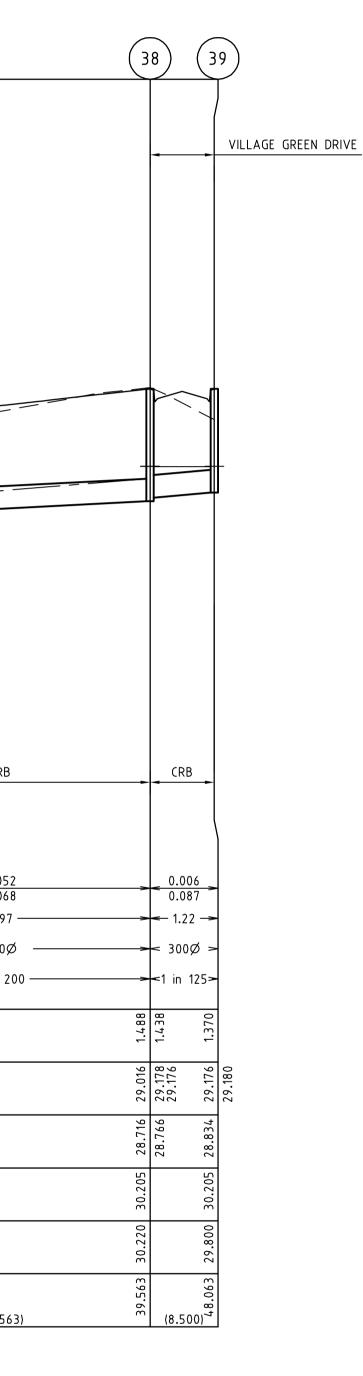
Drawing No. 0250EHL-08-24 Sheet No. 24 of 29

Rev E

	33)	34	35	5) (	36) (	37)	
DESIGN FLOW (m3/s) CAPACITY (m3/s) AT GRADE VELOCITY (m/s) PIPE SIZE (mm) GRADE DATUM	$ \begin{array}{c} 0.036 \\ 0.048 \\$	0.714		<ul> <li>0.014</li> <li>0.059</li> <li>1.48 ──</li> <li>225Ø ─</li> <li>1 in 58.6 ─</li> <li>18.0</li> </ul>		1.272	0.052 0.068 0.97 300Ø 1 in 20
HYDRAULIC GRADE LINE		28.065 28.326	24.778			28.696	
	27.200 21	27.840	24.665 21			28.519 26	
FINISHED SURFACE LEVELS	++C.17	28.553	25.340		100.0	29.790	
EXISTING SURFACE LEVEL		28.597	25.343	, , , , , , , , , , , , , , , , , , ,	440.02	29.728	
CHAINAGE (Reach Length)	(56.000)	56.000	0.000	(14.000)	000.4	0000	(39.56)

\_\_\_\_\_

	ROAD NAMES AMENDED DRAINAGE LAYOUT AMENDMENTS	03.11.11		סר	estuary
	ISSUED FOR APPROVAL	19.05.11		JG	Principal
В	COUNCIL AMENDMENTS	14.04.11	СВ∕СВ	JG	Leopold Property Developments Pty Ltd
Α	ISSUED TO COUNCIL FOR APPROVAL	18.03.11	CB/CB	JG	Level 1, 6 Riverside Quay Southbank, Victoria 3006
RE	VISION	DATE	DES/DFT	APP'D	



00 -

Designed C. Barker		© SM Urban Pty Ltd ABN 99 124 206 819	
Drawn C. Barker		These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be	
Checked		reproduced or copied, in whole or part, without the written	· • • •
C. Birkett		permission of SM Urban Pty Ltd.	Smec Urban
Authorised	Scale @ A1	The contents of this drawing are	Level 1, 47 Pakington Street, Geo
J. Golden	H1:500, V1:50	electronically generated, are	<b>p</b> +61 3 5228 3100   <b>f</b> +61 3 522
Date March 2011	0 5 10 20 0 0.5 1 2	confidential and may only be used for the purpose for which they are intended.	Adelaide +61 8 8223 6455 Brisbane +61 7 3831 8988 Canberra +61 2 6126 1900

#### <u>LEGEND</u> — — — EXISTING SURFACE ------ DESIGN SURFACE DRAINAGE PIPE/PIT



Geelong West, VIC, 3218 228 3199 | www.smu.com.au

Gold Coast+61755780222Melbourne+61398690800Traralgon+61351730100

**Estuary** Stage 8 City of Greater Geelong Roadworks and Drainage Drainage Longitudinal Sections - 3

Drawing No. 0250EHL-08-25 Sheet No. 25 of 29

Rev E

						PIT SCHED	ULE				
PIT	TYPE	INTERNAL		INLET OUTLET			ESL (m)	DFPTH (m)	STANDARD DRAWING	REMARKS	
NUMBER		WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INVERT R.L.(m)	DIAMETER (mm)	INVERT R.L. (m)				REIMARIO
1	EX PIT			225	24.205			24.948	0.977		CONNECT TO EXISTING PIT
2	JUNCTION PIT	600	600	225	26.136	225	26.086	26.793	0.707	SD 425	
3	JUNCTION PIT	600	600	225	27.305	225	27.255	27.978	0.723	SD 425	
4	JUNCTION PIT	600	600			225	27.499	28.189	0.690	SD 425	
5	Ex ENDPIPE			375	23.668			24.914	1.246		CONNECT TO EXISITNG ENDPIPE
6	SIDE ENTRY PIT	900	900	300	25.723	375	25.648	27.130	1.482	SD 430	
				300	25.723						
7	JUNCTION PIT	900	900	300	26.889	300	26.839	28.398	1.559	SD 420	
				225	26.914						
8	SIDE ENTRY PIT	900	900	300	27.707	300	27.657	29.145	1.488	SD 430	
				300	27.707						
9	SIDE ENTRY PIT	900	900	300	28.308	300	28.258	29.746	1.488	SD 430	
10	SIDE ENTRY PIT	900	900			300	28.376	29.751	1.375	SD 430	
11	SIDE ENTRY PIT	900	900			300	25.795	27.168	1.373	SD 430	
12	JUNCTION PIT	600	900			225	28.676	29.348	0.672	SD 425	
13	SIDE ENTRY PIT	900	900			300	27.775	29.145	1.370	SD 430	
14	JUNCTION PIT	900	900	375	24.365			25.765	1.400	SD 420	
15	SIDE ENTRY PIT	900	900	375	24.943	375	24.893	26.369	1.476	SD 430	
				300	24.968						
16	SIDE ENTRY PIT	900	900	375	26.077	375	26.027	27.604	1.577	SD 430	
				300	26.102						
17	SIDE ENTRY PIT	900	900	375	27.802	375	27.752	30.061	2.309	SD 430	
18	SIDE ENTRY PIT	900	900	375	28.107	375	28.057	30.061	2.004	SD 430	
19	SIDE ENTRY PIT	900	900	375	28.546	375	28.496	30.556	2.060	SD 430	
				300	28.571						
20	SIDE ENTRY PIT	900	900	375	29.128	375	29.078	30.914	1.837	SD 430	
21	SIDE ENTRY PIT	900	900	300	29.543	375	29.468	30.899	1.432	SD 430	
22	JUNCTION PIT	900	900	300	30.011	300	29.961	31.323	1.363	SD 420	
				300	30.011			00 500	1.050	05.400	
23	SIDE ENTRY PIT	900	900	300	31.207	300	31.157	32.509	1.352	SD 430	
24	JUNCTION PIT	900	900	200	20.007	300	32.237	33.466	1.228	SD 420	
		000	000	300	32.287	200	24.007	24.204	1 200	CD 400	
25	SIDE ENTRY PIT	900	900	300	25.047	300	24.997	26.396	1.398	SD 430	
26	JUNCTION PIT	900	900	300	25.480	300	25.430	26.852	1.422	SD 420	
27	SIDE ENTRY PIT	900	900			300	25.510	26.881	1.371	SD 430	
28	SIDE ENTRY PIT	900	900	200	20.202	300	26.171	27.536	1.365	SD 430	
29 30	SIDE ENTRY PIT	900	900	300 225	29.292	300 300	29.242 29.549	30.625 30.797	1.383 1.248	SD 430 SD 420	
30		600	900	223	29.024	225		33.350	0.728	SD 420	
31	JUNCTION PIT	800	900	225	32.672	225	32.622	33.300	0.720	SD 425	
32	JUNCTION PIT	900	900	225	52.072	300	30.137	31.340	1.204	SD 420	
33	ENDWALL	,00	700	225	27.200	500	50.157	27.944	0.744		
34	JUNCTION PIT	600	900		27.200	225	27.840	28.553	0.744	SD 425	
35	EX PIT		,00	225	24.665			25.340	0.675		CONNECT TO EXISTING PIT
36	JUNCTION PIT	600	900		21.000	225	24.904	25.601	0.698	SD 425	
37	ENDWALL		,	300	28.519		2	29.790	1.272		
38	SIDE ENTRY PIT	900	900	300	28.766	300	28.716	30.205	1.488	SD 430	
39	SIDE ENTRY PIT	900	900			300	28.834	30.205	1.370	SD 430	

					estuary
D	DRAINAGE LAYOUT AMENDMENTS	29.07.11	CB/CB	JG	leopold *
C	ISSUED FOR APPROVAL	19.05.11	CB/CB	JG	Principal
В	COUNCIL AMENDMENTS	14.04.11	CB/CB	JG	Leopold Property Developments Pty Ltd
А	ISSUED TO COUNCIL FOR APPROVAL	18.03.11	CB/CB	JG	Level 1, 6 Riverside Quay Southbank, Victoria 3006
RE	VISION	DATE	DES/DFT	APP'D	

Designed C. Barker		© SM Urban Pty Ltd ABN 99 124 206 819	
Drawn C. Barker Checked		These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be reproduced or copied, in whole or port, without the written	XXX UI
C. Birkett Authorised J. Golden	Scale @ A1 H1:500, V1:50	part, without the written permission of SM Urban Pty Ltd. The contents of this drawing are electronically generated, are	Smec Urban Level 1, 47 Pakington Street, Gee p +61 3 5228 3100   f +61 3 522
Date March 2011	0 5 10 20 0 0.5 1 2	confidential and may only be used for the purpose for which they are intended.	Adelaide +61 8 8223 6455 G Brisbane +61 7 3831 8988 M Canberra +61 2 6126 1900 T

LEGEND
— — — EXISTING SURFACE
DESIGN SURFACE
DRAINAGE PIPE/PIT





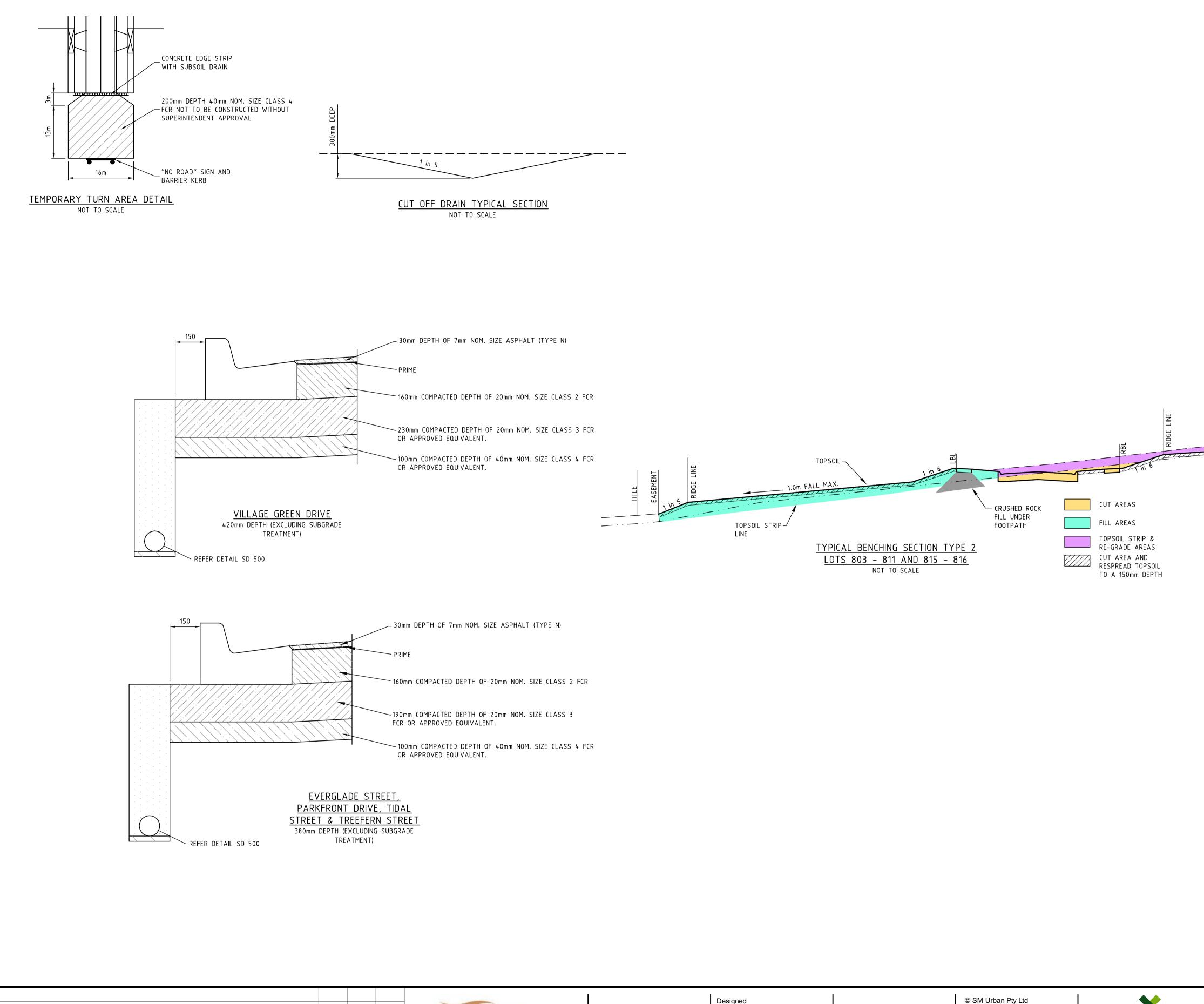
Geelong West, VIC, 3218 228 3199 | www.smu.com.au 

Gold Coast +61 7 5578 0222 Melbourne +61 3 9869 0800 Traralgon +61 3 5173 0100

**Estuary** Stage 8 City of Greater Geelong Roadworks and Drainage Pit Schedule

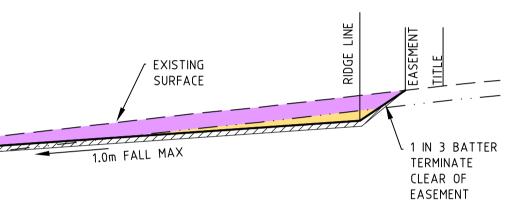
Drawing No. 0250EHL-08-26 Sheet No. 26 of 29

Rev D



R	VISION	DATE	DES/DFT	APP'D	
A	ISSUED TO COUNCIL FOR APPROVAL	18.03.11	СВ∕СВ	JG	Level 1, 6 Riverside Quay Southbank, Victoria 3006
В	COUNCIL AMENDMENTS	14.04.11	CB/CB	JG	Leopold Property Developments Pty Ltd
С	ISSUED FOR APPROVAL	19.05.11	CB/CB	JG	Principal
D	MINOR AMENDMENTS	29.07.11	CB/CB	JG	leopold
Ε	ROAD NAMES AMENDED	03.11.11	CB/CB	JG	cscaary
					potinry

Designed C. Barker		© SM Urban Pty Ltd ABN 99 124 206 819	
Drawn C. Barker Checked		These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be reproduced or copied, in whole or part, without the written	XXX U
C. Birkett Authorised J. Golden	Scale @ A1 As Shown	permission of SM Urban Pty Ltd. The contents of this drawing are electronically generated, are	<b>Smec Urban</b> Level 1, 47 Pakington Street, Ge <b>p</b> +61 3 5228 3100   <b>f</b> +61 3 52
Date March 2011		confidential and may only be used for the purpose for which they are intended.	Adelaide +61 8 8223 6455 Brisbane +61 7 3831 8988 Canberra +61 2 6126 1900





Geelong West, VIC, 3218 228 3199 | www.smu.com.au

Gold Coast+61755780222Melbourne+61398690800Traralgon+61351730100

## Estuary

Stage 8 City of Greater Geelong Roadworks and Drainage Details

Drawing No. 0250EHL-08-27 Sheet No. 27 of 29

Rev E

					octuary
E	ROAD NAMES AMENDED	03.11.11	СВ∕СВ	JG	estuary
	SEWER & DRAINAGE AMENDMENTS	29.07.11	CB/CB	JG	leopold
(	ISSUED FOR APPROVAL	19.05.11	CB/CB	JG	Principal
E	COUNCIL AMENDMENTS	14.04.11	CB/CB	JG	Leopold Property Developments Pty Ltd
° 4	ISSUED TO COUNCIL FOR APPROVAL	18.03.11	СВ∕СВ	JG	Level 1, 6 Riverside Quay Southbank, Victoria 3006
F	EVISION	DATE	DES/DFT	APP'D	



843 375mʻ **842** 375mʻ **841** 480m` 840 375mʻ **839** 420mʻ STREET EVERGLADE R1 **834** 448mʻ 58 **835** 32) 47 40 **835** 32) 47 40 **836** 448mʻ **837** 448m' **824** 512m` 823 y **822** 400m' 824 823 822 PARKFRONT WOLLA WOLLA STREET WOLLA STREET 97°52′40″ +-E-2 821 499mʻ 97\*53' 1m -E-397°52'40″ (32) +E-3 820 512m' E-5 🔨 132 E-5 — 1~1 97°52′40″ ∖3 97**°**53′

**838** 375m'

LEMONDRA STREET





## Estuary

Stage 8 City of Greater Geelong Roadworks and Drainage Subdivision Setout Plan - 1

Drawing No. 0250EHL-08-28 Sheet No. 28 of 29

Rev E

8\dwgs\(						1
						-
50eh						
old\02						P
@leop	E	ROAD NAMES AMENDED	03.11.11	СВ∕СВ	JG	C.
izons	D	SEWER & DRAINAGE LAYOUT AMENDMENTS	29.07.11	СВ∕СВ	JG	
ioh - Ir	C	ISSUED FOR APPROVAL	19.05.11	СВ∕СВ	JG	Principal
250eh	В	COUNCIL AMENDMENTS	14.04.11	CB/CB	JG	Leopold Pr
work\eng\0250ehl - horizons@leopold\0250ehl	А	ISSUED TO COUNCIL FOR APPROVAL	18.03.11	СВ∕СВ	JG	Level 1, 6 Southbank
\work	RE	· ·//SION	DATE	DES/DFT	APP'D	Journalik



823

(27)

(32)

820

512m'

(32)

97°52'40″

+ E-2

-F-3

+-E-3

3 97**°**53'

E-5 🔨

E-5 —

97**°**53′ 1m

400mʻ

**822** بر الج

822

WOLLA WOLLA STREET

WOLLA STREET

400m'

Property Developments Pty Ltd Riverside Quay ank, Victoria 3006



Designed C. Barker Drawn C. Barker Checked	N	© SM Urban Pty Ltd ABN 99 124 206 819 These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be reproduced or copied, in whole or	<b>V</b> UI
C. Birkettpart, without the written permission of SM Urban Pty Ltd.Authorised J. GoldenScale @ A1 1:500The contents of this drawing are electronically generated, are	Smec Urban Level 1, 47 Pakington Street, Gee p +61 3 5228 3100   f +61 3 5228		
Date March 2011	0 5 10 20	confidential and may only be used for the purpose for which they are intended.	Adelaide +61 8 8223 6455 G Brisbane +61 7 3831 8988 M Canberra +61 2 6126 1900 T



eelong West, VIC, 3218 228 3199 | www.smu.com.au

 Gold Coast
 +61
 7
 5578
 0222

 Melbourne
 +61
 3
 9869
 0800

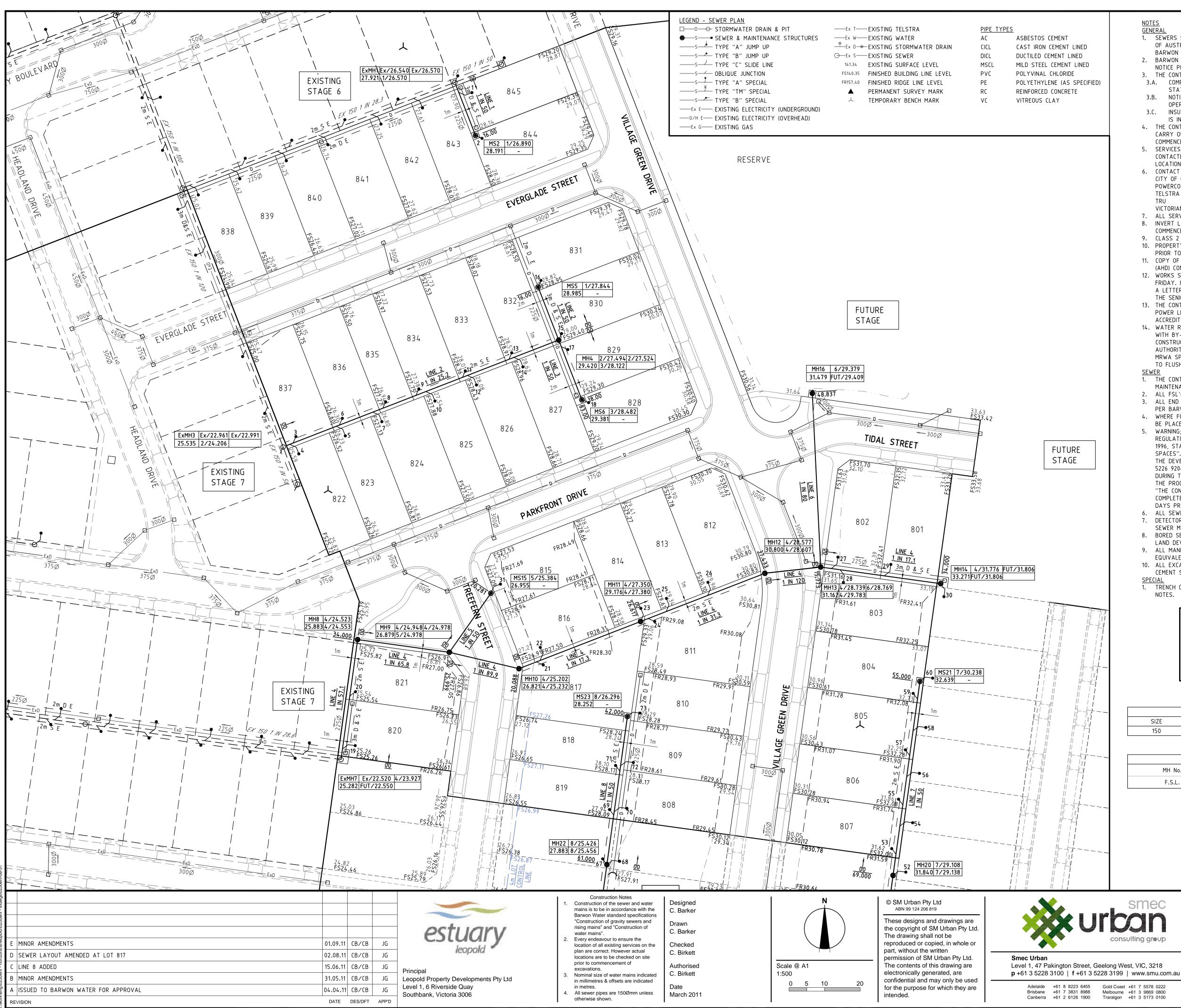
 Traralgon
 +61
 3
 5173
 0100

## Estuary

Stage 8 City of Greater Geelong Roadworks and Drainage Subdivision Setout Plan - 2

Drawing No. 0250EHL-08-29 Sheet No. 29 of 29

Rev E



#### <u>NOTES</u> GENERAL 1. SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE WATER SERVICES ASSOCIATION OF AUSTRALIA STANDARD CODES (WSA 02-2002 - WSA 03-2002) IN CONJUNCTION WITH BARWON WATERS SUPPLEMENTS TO THE CODES. 2. BARWON WATER AND THE PROJECT MANAGER TO BE NOTIFIED 7 CLEAR WORKING DAYS NOTICE PRIOR TO COMMENCEMENT OF WORKS. 3. THE CONTRACTOR SHALL 3.A. COMPLY WITH SAFETY REQUIREMENTS OF THE MINES ACT, GENERAL REGULATIONS AND STATUTORY RULES, AND THE MINES (TRENCHES) REGULATIONS 1982.

- NOTIFY THE DEPARTMENT OF LABOUR OF HIS INTENTION TO COMMENCE TRENCHING 3.B. OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER. INSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS
- IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS. 4. THE CONTRACTOR SHALL MAKE ALL WORKS AVAILABLE FOR THE INSPECTOR/SURVEYOR TO CARRY OUT THE NECESSARY INSPECTIONS AND SURVEYING BEFORE BACKFILLING IS COMMENCED.
- 5. SERVICES ARE APPROXIMATE ONLY. ALL RELEVANT SERVICE AUTHORITY'S ARE TO BE CONTACTED PRIOR TO THE COMMENCEMENT OF EXCAVATION TO ESTABLISH THEIR EXACT LOCATION.
- 6. CONTACT PRIOR TO COMMENCEMENT OF WORKS: CITY OF GREATER GEELONG
- POWERCOR
- TELSTRA TRU
- VICTORIAN WORKCOVER AUTHORITY
- 7. ALL SERVICES ARE TO BE LOCATED ON SITE PRIOR TO ANY EXCAVATION. 8. INVERT LEVELS OF EXISTING SEWERS AND WATERMAINS TO BE CHECKED PRIOR TO THE
- COMMENCEMENT OF WORKS. 9. CLASS 2 BACKFILL TO BE USED UNDER DRIVEWAYS FOR WATER AND SEWER RETICULATION.
- 10. PROPERTY OWNERS ARE TO BE NOTIFIED IN WRITING BY THE CONSULTANT 14 CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS 11. COPY OF CADASTRAL MAP GRID (MGA) CONNECTION & COPY OF AUSTRALIAN HEIGHT DATUM
- (AHD) CONNECTION IS TO BE PROVIDED BY CONTRACTOR 12. WORKS SHALL BE EFFECTED BETWEEN THE HOURS OF 8:00am AND 5:00pm MONDAY -FRIDAY. IN THE EVENT THAT WORKS ARE TO BE EFFECTED OUTSIDE THESE WORKING HOURS, A LETTER REQUESTING APPROVAL FOR SUCH OUT OF HOURS WORK SHALL BE LODGED TO
- THE SENIOR QUALITY AUDITOR. 13. THE CONTRACTOR SHALL COMPLY WITH SAFETY REQUIREMENTS RELATING TO WORKING NEAR POWER LINES AS SET BY THE CHIEF ELECTRICAL INSPECTOR WHERE NECESSARY AN ACCREDITED TRAINED SPOTTER IS TO BE PROVIDED.
- 14. WATER RESTRICTIONS ARE TO APPLY FROM MIDNIGHT JUNE 30th 2006, IN ACCORDANCE WITH BY-LAW NO. 187. ONLY TRIGGER HOSES (MAXIMUM SIZE 25mm) MAY BE USED FOR CONSTRUCTION WORK NOT INCLUDING TRENCHING, UNLESS OTHERWISE EXEMPTED BY THE AUTHORITY IN WRITING. MECHANICAL COMPACTION IS TO BE USED IN ACCORDANCE WITH MRWA SPECIFICATION 04-03 FOR TRENCH WORKS UNTIL FURTHER NOTICE. ANY WATER USED TO FLUSH WATER MAINS IS TO BE RECLAIMED AND USED FOR CONSTRUCTION PURPOSES.
- <u>SEWER</u> 1. THE CONTRACTOR SHALL CORE CUT ALL HOLES INTO EXISTING PRECAST SEWER
- MAINTENANCE HOLES. ALL FSL'S SHOWN IN MAINTENANCE HOLES INFORMATION BOX ARE TOP OF MANHOLE LEVELS.
- 3. ALL END OF LINES NOMINATED AS TMS ARE TO HAVE A TERMINAL MAINTENANCE SHAFT AS
- PER BARWON WATER STANDARD DRAWING 70095. 4. WHERE FUTURE SEWER MAINS ARE INDICATED A 150mm ACCESS COUPLING AND CAP ARE TO BE PLACED OUT OF THE MANHOLE.
- 5. WARNING; ENTRY INTO ANY MAINTENANCE HOLE IS CONTROLLED BY CONFINED SPACE REGULATIONS BEING "OCCUPATIONAL HEALTH & SAFETY (CONFINED SPACES) REGULATIONS 1996, STATUTORY RULE № 148/1996 AND A.S. 2865 - 1995 SAFE WORKING IN CONFINED SPACES". PERSON(S) REQUIRING ACCESS TO ANY BARWON WATER MANHOLE AS PART OF THE DEVELOPER WORKS PROCESS MUST CONTACT THE SENIOR QUALITY AUDITOR PH (03) 5226 9204 FOR ANY REQUIREMENTS
- DURING THE CONSTRUCTION OF WORKS TO GAIN ACCESS TO A BARWON WATER MANHOLE THE PROCEDURE AS OUTLINED IN THE ATTACHED FLOWCHART IS TO BE FOLLOWED, AND "THE CONFINED SPACE ENTRY PERMIT APPLICATION FORM" (ALSO ATTACHED) IS TO BE COMPLETED AND LODGED WITH THE SENIOR QUALITY AUDITOR 3 (THREE) CLEAR WORKING DAYS PRIOR TO ENTRY.
- 6. ALL SEWERS ARE TO BE PVC-SN8 7. DETECTOR TAPE TO BE PLACED OVER SEWERS AT ALL ROAD CROSSINGS AND ALL CURVED SEWER MAINS.
- 8. BORED SECTIONS OF SEWER TO BE CCTV INSPECTED IN ACCORDANCE WITH BARWON WATER'S LAND DEVELOPMENT MANUAL AND SUBMITTED TO BARWON WATER FOR ACCEPTANCE.
- 9. ALL MANHOLE JOINTS, INCLUDING DROPS TO BE SEALED WITH FERROPRE OR APPROVED
- EQUIVALENT. 10. ALL EXCAVATIONS AROUND A NEWLY CONSTRUCTED MANHOLE TO BE BACKFILLED WITH 3% CEMENT STABILISED SAND.
- SPECIAL 1 TRENCH COMPACTION RESULTS TO BE SUBMITTED BY CONSULTANT WITH 'AS CONSTRUCTED'

1. TRENCH CON NOTES.	MPACTION F	RESULTS TO BE	SUB	BMITTED BY CONSUL	TANT WITH 'A	AS CONSTRUCTED'
т	he location the No guara ocate all un	WARE OF UNE s of underground ir exact position ntee is given that derground servio IAL 1100 B	DER d ser n sho at all ces t BEF	NING GROUND SERVICE rvices are approxima build be proven on sit existing services are before commenceme ORE YOU DIC 0.com.au	ate only and e. e shown. ent of works	
	NFW	SEWER MAINS				
SIZE		YPE		LENGTH	_	
150	PV	C SN8		789m		
MH No. F.S.L.				NSTREAM INVERT		UPSTREAM INVERT UPSTREAM INVERT
						/MENCE UNTIL ARWON WATER
				DEVE	ED BY BARW LOPMENT SE CO-ORDINAT PMENT & COM	ERVICES OR
SMEC DODIN consulting group			iter 3	R <b>egion Wa</b> No. L006988 Plan 1	iter Au	thority
ng West, VIC, 3218 199   www.smu.com.au		Drawing No	ο.	0250EHL-08	-51	Rev E

Gold Coast +61 7 5578 0222

Melbourne +61 3 9869 0800 Traralgon +61 3 5173 0100 Sheet No. 1 of 5 Approved for Construction



			SERVICES OFF	SET SCHEDULE				
	C	iAS	WATER		ELECTRICITY		TELSTRA	
ROAD NAME	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)
LEMONDRA STREET	NORTH	2.10	NORTH	2.70	SOUTH	2.30	SOUTH	1.70
WOLLA STREET	NORTH	2.10	NORTH	2.70	SOUTH	2.30	SOUTH	1.70
CITRINA STREET	SOUTH	2.10	SOUTH	2.70	NORTH	2.30	NORTH	1.70
DANDELION STREET LOTS 806-811	WEST	2.10	WEST	2.70	EAST	1.00	EAST	0.50
DANDELION STREET LOTS 836-840	WEST	2.10	WEST	2.70	EAST	2.30	EAST	1.70
BOLIVINA STREET	EAST	2.10	WEST	2.70	EAST	2.30	EAST	1.70
WALAKARA LANE	WEST	1.60	WEST	2.10	EAST	2.30	EAST	1.70

F	MINOR AMENDMENTS	01.09.11	CB/CB	JG	
Е	SEWER LAYOUT AMENDED FOR LOT 817	02.08.11	CB/CB	JG	
D	MH19 COVER LEVEL AMENDED	01.07.11	CB/CB	JG	
С	LINE 8 ADDED	15.06.11	CB/CB	JG	Princ
В	MINOR AMENDMENTS	31.05.11	CB/CB	JG	Leop
А	ISSUED TO BARWON WATER FOR APPROVAL	04.04.11	CB/CB	JG	Leve Sout
RE	VISION	DATE	DES/DFT	APP'D	000



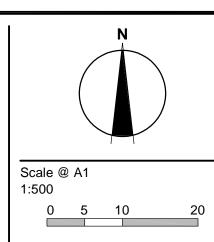
incipal eopold Property Developments Pty Ltd evel 1, 6 Riverside Quay outhbank, Victoria 3006

трм		NODTUINC		DECEDIDITION
TBM	EASTING	NORTHING	RL	DESCRIPTION
ROD501	10106.39	48560.27	21.19	ROD
ROD502	10309.58	48587.59	28.62	ROD
MOOLAP PM69	1000.00	50000.00	-	BRASS PLAQUE
MOOLAP PM321	9897.742000	48994.921	9.436	BRASS PLAQUE
MOOLAP PM302	10212.03	48959.504	22.180	BRASS PLAQUE
		SURVEY CONTI	ROL	
ТВМ	EASTING	NORTHING	RL	DESCRIPTION
ROD501	277245.07	5768919.27	21.19	ROD
ROD502	277448.31	5768946.60	28.62	ROD
MOOLAP PM69	277138.66	5770359.31	-	BRASS PLAQUE
MOOLAP PM321	277040	5769480	9.436	BRASS PLAQUE
MOOLAP PM302	277310	5769280	22.180	BRASS PLAQUE

	Construction Notes	I _
1.	Construction of the sewer and water	D
	mains is to be in accordance with the	IС
	Barwon Water standard specifications	
	"Construction of gravity sewers and	D
	rising mains" and "Construction of	l c
_	water mains".	
2.	Every endeavour to ensure the	
	location of all existing services on the	
	plan are correct. However actual	C
	locations are to be checked on site	
	prior to commencement of	A
~	excavations.	lс
3.	Nominal size of water mains indicated	1 ~
	in millimetres & offsets are indicated	
	in metres.	יין
4.	All sewer pipes are 150Ømm unless	M

otherwise shown.

Designed . Barker rawr . Barker hecked . Birkett Authorised . Birkett Date March 2011



© SM Urban Pty Ltd ABN 99 124 206 819

These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be reproduced or copied, in whole or part, without the written permission of SM Urban Pty Ltd. The contents of this drawing are electronically generated, are confidential and may only be used for the purpose for which they are intended.



<u>LEGEND – S</u>	EWER PLAN
	STORMWATER DRAIN & PIT
S—_s	SEWER & MAINTENANCE STRUCTURES
s	TYPE "A" JUMP UP
s	TYPE "B" JUMP UP
s	TYPE "C" SLIDE LINE
s	OBLIQUE JUNCTION
s	TYPE "A" SPECIAL
s	TYPE "TM" SPECIAL
s	TYPE "B" SPECIAL
——Ex E——	EXISTING ELECTRICITY (UNDERGROUND)
——0/Н Е——	EXISTING ELECTRICITY (OVERHEAD)
——————————————————————————————————————	EXISTING GAS
——Ex T——	EXISTING TELSTRA
——Ex W——	EXISTING WATER
Ex D-	EXISTING STORMWATER DRAIN
⊖—E× S—	EXISTING SEWER
141.34	EXISTING SURFACE LEVEL
FS140.35	FINISHED BUILDING LINE LEVEL
FR157.40	FINISHED RIDGE LINE LEVEL
	PERMANENT SURVEY MARK
↓ ↓	TEMPORARY BENCH MARK
PIPE TYPES	
AC	ASBESTOS CEMENT
CICL	CAST IRON CEMENT LINED
DICL	DUCTILED CEMENT LINED
MSCL	MILD STEEL CEMENT LINED
PVC	POLYVINAL CHLORIDE
PE	POLYETHYLENE (AS SPECIFIED)
RC	REINFORCED CONCRETE
VC	VITREOUS CLAY

#### 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

BARWON WATER APPROVED CONTRACTOR TO CONNECT TO EXISTING ACCESS CHAMBER AT CONTRACTORS COST. 7 CLEAR DAYS NOTICE PRIOR TO THE COMMENCEMENT OF WORKS MUST BE GIVEN TO THE SUPERINTENDENT AND BARWON WATER SENIOR QUALITY AUDITOR.

BARWON WATER APPROVED CONTRACTOR TO CONSTRUCT NEW HOUSE CONNECTIONS OVER EXISTING MAIN AT CONTRACTORS COST. 7 CLEAR DAYS NOTICE PRIOR TO THE COMMENCEMENT OF WORKS MUST BE GIVEN TO THE SUPERINTENDENT AND BARWON WATER SENIOR QUALITY AUDITOR.

> WORKS SHALL NOT COMMENCE UNTIL PLANS ARE SIGNED BY BARWON WATER

ACCEPTED BY BARWON WATER DEVELOPMENT SERVICES CO-ORDINATOR **DEVELOPMENT & CONSERVATION** 

**Barwon Region Water Authority** 

Drawing No. 0250EHL-08-52

Barwon Water No. L006988

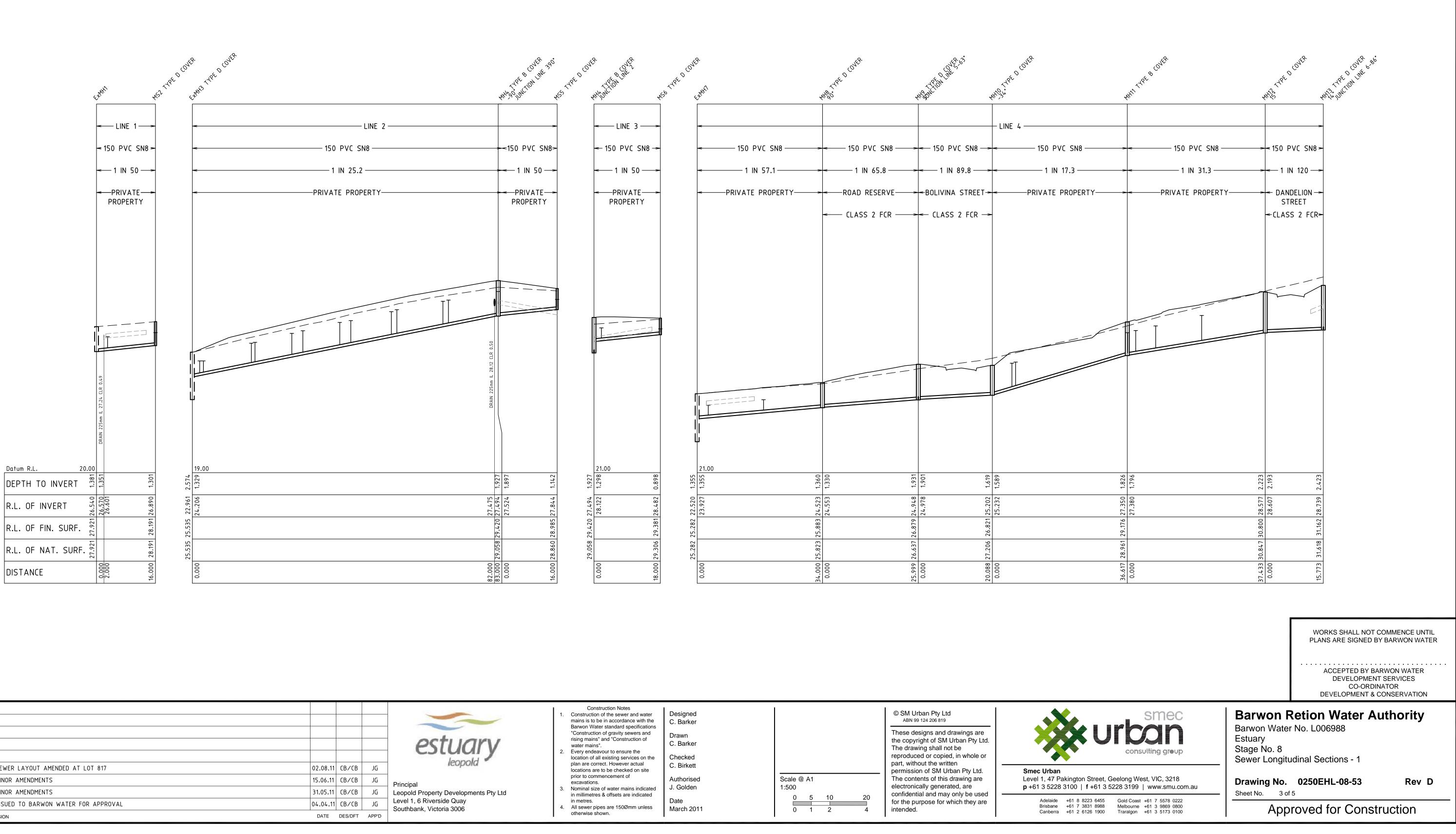
Estuary

Stage No. 8

Sewer Detail Plan 2

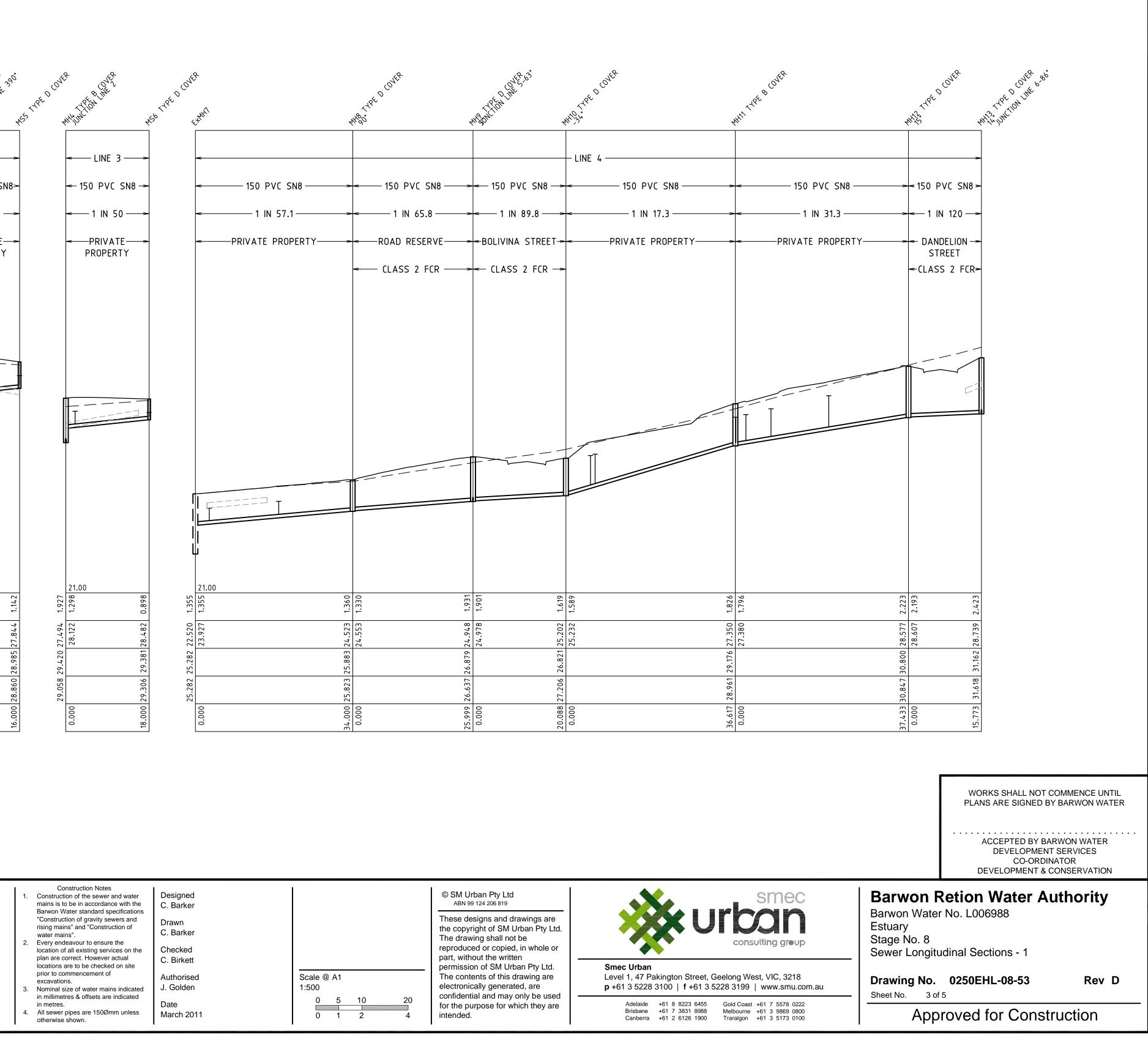
Sheet No. 2 of 5

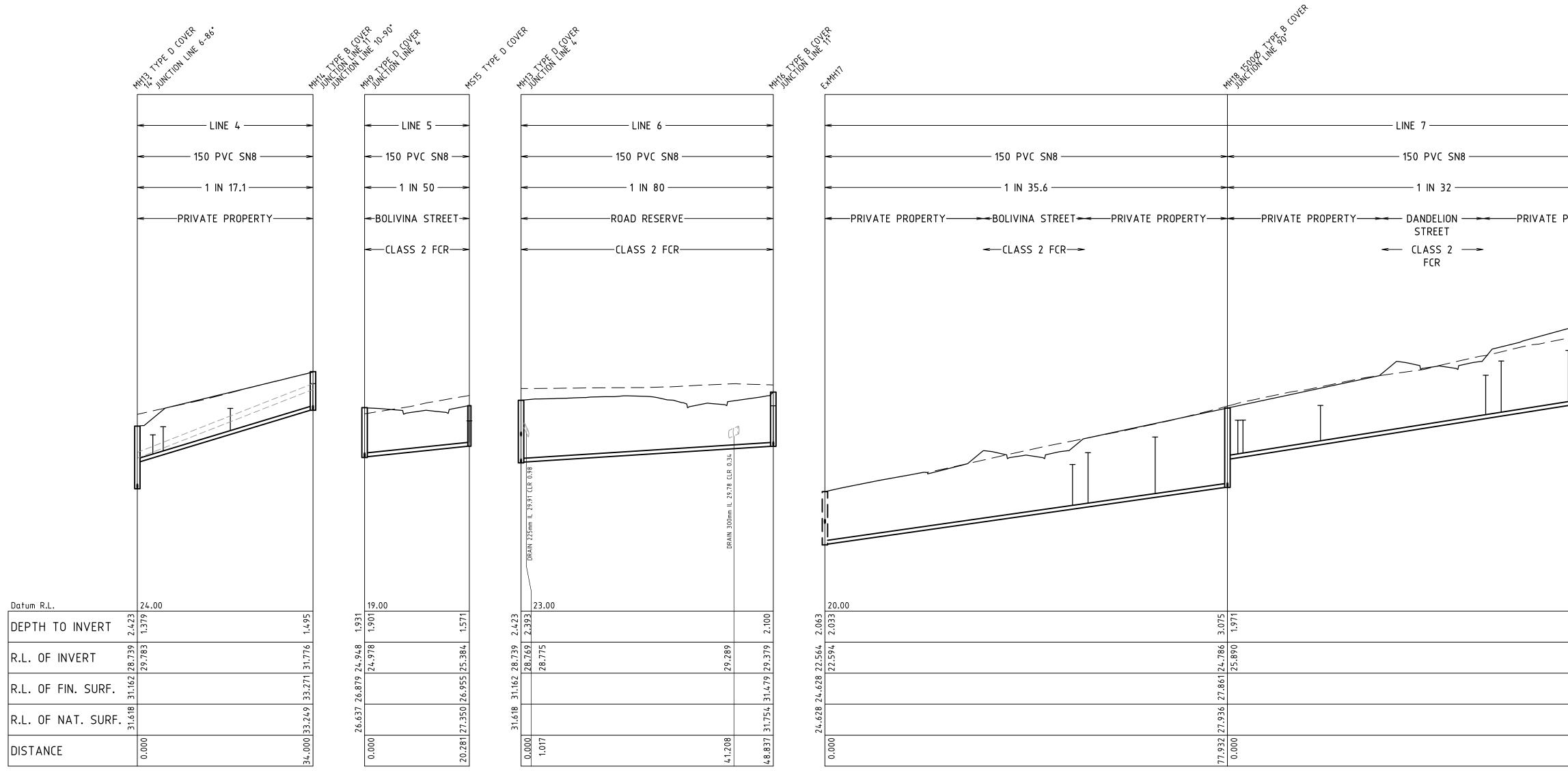
Rev F



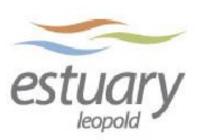
					estuc
D	SEWER LAYOUT AMENDED AT LOT 817	02.08.11	CB/CB	JG	leopo
C	MINOR AMENDMENTS	15.06.11	СВ∕СВ	JG	Principal
В	MINOR AMENDMENTS	31.05.11	СВ∕СВ	JG	Leopold Property Develop
А	ISSUED TO BARWON WATER FOR APPROVAL	04.04.11	CB/CB	JG	Level 1, 6 Riverside Quay Southbank, Victoria 3006
RE	/ISION	DATE	DES/DFT	APP'D	





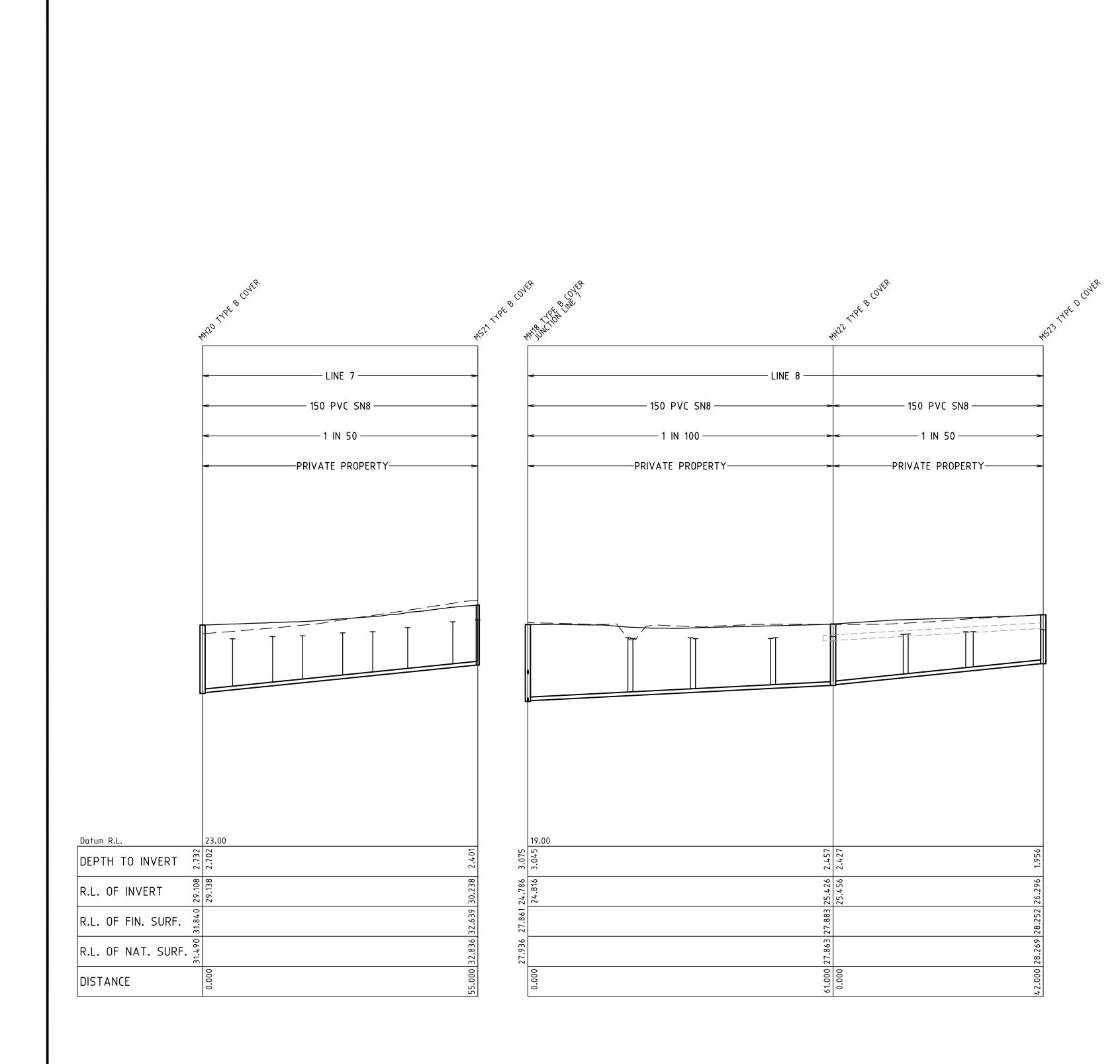


					~
F	MINOR AMENDMENTS	01.09.11	СВ∕СВ	JG	Pctu
Ε	SEWER LAYOUT AMENDED AT LOT 817	02.08.11	CB/CB	JG	CSU
D	MH19 COVER LEVEL AMENDED	01.07.11	СВ∕СВ	JG	leoj
С	MINOR AMENDMENTS	15.06.11	CB/CB	JG	Principal
В	MINOR AMENDMENTS	31.05.11	CB/CB	JG	Leopold Property Develo
Α	ISSUED TO BARWON WATER FOR APPROVAL	04.04.11	CB/CB	JG	Level 1, 6 Riverside Qua Southbank, Victoria 300
RE	VISION	DATE	DES/DFT	APP'D	



evelopments Pty Ltd Quay 3006

MHONCTON	<ul> <li>————————————————————————————————————</li></ul>		LINE 7 150 PVC SN8 1 IN 32 IVATE PROPERTY DANDELION STREET		2. NOTO THE D LOVER NOTO THE
	CLASS 2 FCR		- CLASS 2		
29.379	24.628 24.628 22.564 2.033 0.000 22.594 2.033 00 000 000 000 000 000 000 000 000 000	77.932         27.936         24.786         3.075           0.000         25.890         1.971		80.000 31.056 31.697 28.388 3.309 0.000 31.056 31.697 28.388 3.309	69.000 31.490 31.840 29.108 2.732
ma Bai "Co risii wa 2. Eve loc: pla loc: pric exc 3. Nor in r in r 4. All	Construction Notes nstruction of the sewer and water ains is to be in accordance with the rwon Water standard specifications onstruction of gravity sewers and ing mains" and "Construction of atter mains". ery endeavour to ensure the ana re correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an are correct. However actual ration of all existing services on the an ar	AB       These the control of the difference       Scale @ A1       1:500       0     5       10     20	rawing shall not be duced or copied, in whole or without the written ssion of SM Urban Pty Ltd. ontents of this drawing are onically generated, are lential and may only be used e purpose for which they are brisbane	Pakington Street, Geelong West, VIC, 3218         28 3100   <b>f</b> +61 3 5228 3199   www.smu.com.au         a +61 8 8223 6455       Gold Coast +61 7 5578 0222	WORKS SHALL NOT COMMENCE UNTIL PLANS ARE SIGNED BY BARWON WATER 



	MINOR AMENDMENTS	01.09.11	CB/CB	JG	estuary
D	SEWER LAYOUT AMENDED FOR LOT 817	02.08.11	СВ∕СВ	JG	ieopoia
C	LINE 8 ADDED	15.06.11	CB/CB	JG	Principal
В	MINOR AMENDMENTS	31.05.11	СВ∕СВ	JG	Leopold Property Developments Pty Ltd
А	ISSUED TO BARWON WATER FOR APPROVAL	04.04.11	CB/CB	JG	Level 1, 6 Riverside Quay Southbank, Victoria 3006
RE	EVISION	DATE	DES/DFT	APP'D	

LINE	MANHOLE	HC LOT NAME	CONNECTION TYPE
NO.	NO.	NO.	
1	MH 1	1 Lot 845	A Special
1	M S 2	2 Lot 844	B
2	M H 3	4 Lot 822	A Special
2	MH 3	3 Lot 837	B
2	MH 3	5 Lot 823	A Special
2	MH 3	6 Lot 836	B
2	MH 3	7 Lot 824	A Special
2	MH 3	8 Lot 835	В
2	MH 3	9 Lot 834	B
2	MH 3	10 Lot 825	A Special
2	МН 3	11 Lot 833	B
2	МН 3	12 Lot 826	A Special
2	MH 3	13 Lot 832	В
2	MH 3	14 Lot 827	A Special
2	MH 4	15 Lot 830	B
2	M S 5	16 Lot 831	B
3	M H 4	17 Lot 829	B
3	M S 6	18 Lot 828	B
4	MH 7	19 Lot 820	A Special
4	MH 7	20 Lot 821	В
4	MH 1 0	21 Lot 817	B
4	MH 1 0	22 Lot 816	A Special
4	MH 1 1	23 Lot 814	A Special
4	MH 1 1	24 Lot 811	B
4	MH 1 1	25 Lot 813	A Special
4	MH 1 1	26 Lot 812	A Special
4	MH 1 3	27 Lot 802	A Special
4	MH 1 3	28 Lot 803	A Special
4	MH 1 3	29 Lot 801	A Special
4	MH 1 4	30 Lot 1213	A Special
5	MS 15	31 Lot 815 32 NOT USED	A Special
7	MH 1 7	33 Lot 912	B
7	MH 1 7	34 Lot 911	A Special
7	MH 1 7	35 Lot 913	B
7	MH 1 8	36 Lot 914	
7	MH 1 8	37 Lot 916	A Special
7	MH 1 8	38 Lot 915	B
7	MH 1 8	39 Lot 927	B
7	MH 1 8	40 Lot 926	A Special
7	MH 1 8	41 Lot 928	B
7	MH 1 9	42 Lot 1203	A Special
7	MH 1 9	43 Lot 925	B
7	MH 1 9	44 Lot 1204	A Special
7	MH 1 9	45 Lot 924	B
7	MH 1 9	46 Lot 1205	A Special
7	MH 1 9	47 Lot 923	B
7	MH 1 9	48 Lot 1206	A Special
7	MH 1 9	49 Lot 922	В
7	MH 1 9	50 Lot 1207	A Special
7	MH 1 9	51 Lot 921	B
7	MH 2 0	52 Lot 1208	A Special
7	MH 2 0	53 Lot 807	B
7	MH 2 0	54 Lot 1209	A Special
7	MH 2 0	55 Lot 806	B
7	MH 2 0	56 Lot 1210	A Special
7	M H 2 0	57 Lot 805	B
7	M H 2 0	58 Lot 1211	A Special
7	MH 2 0	59 Lot 804	B
7	M S 2 1	60 Lot 1212	A Special
8	MH 1 8	61 Lot 910	В
8	MH 1 8	62 Lot 917	A Special
8	MH 1 8	63 Lot 909	B
8	MH 1 8	64 Lot 918	A Special
8	MH 1 8	65 Lot 908	B
8	MH 1 8	66 Lot 919	A Special
8	MH 2 2	67 Lot 907	B
8	MH 2 2	68 Lot 920	A Special
8	MH 2 2	69 Lot 819	B
8	MH 2 2	70 Lot 808	A Special
8	MH 2 2	71 Lot 818	B
8	MH 2 2	72 Lot 809	A Special
8	MH 2 2	73 Lot 810	A Special

2	Construction Notes Construction of the sewer and water mains is to be in accordance with the Barwon Water standard specifications "Construction of gravity sewers and rising mains" and "Construction of water mains". Every endeavour to ensure the location of all existing services on the plan are correct. However actual locations are to be checked on site prior to commencement of excavations. Nominal size of water mains indicated	Designed C. Barker Drawn C. Barker Checked C. Birkett Authorised J. Golden	Scale @ A1 1:500	© SM Urban Pty Ltd ABN 99 124 206 819 These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be reproduced or copied, in whole or part, without the written permission of SM Urban Pty Ltd. The contents of this drawing are electronically generated, are	Smec Urban Level 1, 47 Pakington Street, Geelong West, VIC, 3218 p +61 3 5228 3100   f +61 3 5228 3199   www.smu.com.au
4	in millimetres & offsets are indicated in metres. 4. All sewer pipes are 150Ømm unless otherwise shown.	be a watch mains indicated by a watch mains indi	confidential and may only be used for the purpose for which they are intended.	Adelaide         +61         8         8223         6455         Gold Coast         +61         7         5578         0222           Brisbane         +61         7         3831         8988         Melbourne         +61         3         9869         0800           Canberra         +61         2         6126         1900         Traralgon         +61         3         5173         0100	

C H A I N A G E	IL SEWER	IL BRANCH	B R A N C H H E I G H T
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 2\ 6\ .\ 6\ 2\\ 2\ 6\ .\ 8\ 9\\ 2\ 4\ .\ 2\ 7\\ 2\ 4\ .\ 3\ 1\\ 2\ 4\ .\ 8\ 3\\ 2\ 4\ .\ 8\ 7\\ 2\ 5\ .\ 2\ 7\\ 2\ 5\ .\ 3\ 9\\ 2\ 5\ .\ 7\ 9\\ 2\ 5\ .\ 9\ 1\\ 2\ 6\ .\ 3\ 5\\ 2\ 6\ .\ 4\ 1\\ 2\ 6\ .\ 9\ 1\\ 2\ 6\ .\ 9\ 7\\ 2\ 7\ .\ 4\ 9\\ 2\ 7\ .\ 8\ 4\\ 2\ 8\ .\ 1\ 5\\ 2\ 8\ .\ 4\ 8\\ 2\ 3\ .\ 9\ 7\\ 2\ 4\ .\ 2\ 4\\ 2\ 8\ .\ 1\ 5\\ 2\ 8\ .\ 4\ 8\\ 2\ 3\ .\ 9\ 7\\ 2\ 4\ .\ 2\ 4\\ 2\ 5\ .\ 5\ 2\\ 2\ 5\ .\ 5\ 8\\ 2\ 7\ .\ 4\ 4\\ 2\ 5\ .\ 5\ 2\\ 2\ 5\ .\ 5\ 8\\ 2\ 7\ .\ 4\ 4\\ 2\ 7\ .\ 6\ 2\\ 2\ 8\ .\ 0\ 3\\ 2\ 9\ .\ 9\ 3\\ 3\ 0\ .\ 0\ 5\\ 3\ 0\ .\ 8\ 4\\ 3\ 1\ .\ 7\ 8\\ 2\ 5\ .\ 3\ 8\\ 4\ 3\ 1\ .\ 7\ 8\\ 2\ 5\ .\ 3\ 8\\ 4\ 3\ 1\ .\ 7\ 8\\ 2\ 5\ .\ 3\ 8\ 4\\ 3\ 1\ .\ 7\ 8\\ 2\ 5\ .\ 3\ 8\ 4\\ 3\ 1\ .\ 7\ 8\\ 2\ 5\ .\ 3\ 8\ 4\\ 3\ 1\ .\ 7\ 8\\ 2\ 5\ .\ 3\ 8\ 4\ 8\\ 3\ 1\ .\ 7\ 8\\ 2\ 5\ .\ 3\ 8\ 4\ 8\\ 3\ 1\ .\ 7\ 8\\ 2\ 5\ .\ 3\ 8\ 4\ 8\\ 3\ 1\ .\ 7\ 8\\ 2\ 5\ .\ 3\ 8\ 4\ 8\ 8\ 8\ 8\ 8\ 8\ 8\ 8\ 8\ 8\ 8\ 8\ 8\$	27.37 27.60 25.06 25.06 26.02 26.07 26.56 26.70 27.15 27.25 27.73 27.84 28.30 28.36 28.83 28.40 28.840 28.80 24.66 24.96 26.94 27.00 28.59 28.71 28.59 28.71 28.59 28.71 28.59 28.71 28.59 28.71 28.59 28.71 28.59 28.71 28.59 28.71 28.59 28.71 28.96 29.52 30.83 31.14 31.85 32.80 26.37	$\begin{array}{c} 0 & . & 7 & 5 \\ 0 & . & 7 & 1 \\ 0 & . & 8 & 0 \\ 0 & . & 7 & 6 \\ 1 & . & 2 & 0 \\ 1 & . & 2 & 0 \\ 1 & . & 2 & 9 \\ 1 & . & 3 & 1 \\ 1 & . & 3 & 6 \\ 1 & . & 3 & 3 \\ 1 & . & 3 & 8 \\ 1 & . & 3 & 3 \\ 1 & . & 3 & 8 \\ 1 & . & 3 & 3 \\ 1 & . & 3 & 8 \\ 1 & . & 3 & 8 \\ 1 & . & 3 & 8 \\ 1 & . & 3 & 8 \\ 1 & . & 3 & 8 \\ 1 & . & 3 & 8 \\ 1 & . & 3 & 8 \\ 1 & . & 3 & 8 \\ 1 & . & 3 & 8 \\ 1 & . & 3 & 8 \\ 1 & . & 3 & 8 \\ 1 & . & 3 & 8 \\ 1 & . & 3 & 8 \\ 1 & . & 3 & 8 \\ 1 & . & 3 & 8 \\ 1 & . & 3 & 8 \\ 1 & . & 3 & 8 \\ 1 & . & 3 & 8 \\ 1 & . & 3 & 8 \\ 1 & . & 3 & 4 \\ 0 & . & 5 & 6 \\ 0 & . & 7 & 1 \\ 1 & . & 4 & 2 \\ 1 & . &$
$\begin{array}{c} 4 \ 7 \ . \ 9 \ 3 \\ 5 \ 0 \ . \ 9 \ 3 \\ 6 \ 3 \ . \ 9 \ 3 \\ 2 \ . \ 0 \ 0 \\ 3 \ . \ 0 \ 0 \\ 1 \ 8 \ . \ 0 \ 0 \\ 5 \ 0 \ . \ 0 \ 0 \\ 5 \ 0 \ . \ 0 \ 0 \\ 5 \ 3 \ . \ 0 \ 0 \\ 5 \ 3 \ . \ 0 \ 0 \\ 1 \ 2 \ . \ 5 \ 0 \\ 1 \ 2 \ . \ 5 \ 0 \\ 1 \ 2 \ . \ 5 \ 0 \\ 1 \ 2 \ . \ 5 \ 0 \\ 1 \ 2 \ . \ 5 \ 0 \\ 1 \ 2 \ . \ 5 \ 0 \\ 1 \ 4 \ 2 \ . \ 5 \ 0 \\ 1 \ 4 \ 2 \ . \ 5 \ 0 \\ 1 \ 4 \ 2 \ . \ 5 \ 0 \\ 1 \ 4 \ 2 \ . \ 5 \ 0 \\ 1 \ 4 \ . \ 0 \ 0 \\ 1 \ 4 \ . \ 0 \ 0 \\ 2 \ 0 \ 0 \\ 2 \ 8 \ . \ 0 \ 0 \\ 1 \ 4 \ . \ 0 \ 0 \\ 2 \ 0 \ 0 \\ 2 \ 1 \ . \ 0 \ 0 \\ 2 \ 0 \ 0 \\ 2 \ 1 \ 0 \ 0 \\ 2 \ 5 \ 0 \\ 3 \ 3 \ . \ 5 \ 0 \\ 4 \ 9 \ . \ 5 \ 0 \\ 1 \ 4 \ 8 \ . \ 5 \ 0 \\ 4 \ 9 \ . \ 5 \ 0 \\ 1 \ 4 \ 8 \ . \ 5 \ 0 \\ 4 \ 9 \ . \ 5 \ 0 \\ 1 \ 4 \ 8 \ . \ 5 \ 0 \\ 1 \ 4 \ 8 \ . \ 5 \ 0 \\ 1 \ 4 \ 9 \ . \ 5 \ 0 \\ 1 \ 4 \ 8 \ . \ 5 \ 0 \\ 1 \ 4 \ 9 \ . \ 5 \ 0 \\ 1 \ 4 \ 8 \ . \ 5 \ 0 \\ 1 \ 4 \ 9 \ . \ 5 \ 0 \\ 1 \ 4 \ 8 \ . \ 5 \ 0 \\ 1 \ 4 \ 9 \ . \ 5 \ 0 \\ 1 \ 4 \ 8 \ . \ 5 \ 0 \\ 1 \ 4 \ 9 \ . \ 5 \ 0 \\ 1 \ 4 \ 9 \ . \ 5 \ 0 \\ 1 \ 4 \ 9 \ . \ 5 \ 0 \\ 1 \ 4 \ 9 \ . \ 5 \ 0 \\ 1 \ 4 \ 8 \ . \ 5 \ 0 \\ 1 \ 4 \ 9 \ . \ 5 \ 0 \\ 1 \ 4 \ 8 \ . \ 5 \ 0 \\ 1 \ 4 \ 9 \ . \ 5 \ 0 \\ 1 \ 4 \ 1 \ 0 \ 0 \ 1 \ 5 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0$	$\begin{array}{c} 2 \ 3 & . \ 9 \ 5 \\ 2 \ 4 & . \ 0 \ 3 \\ 2 \ 4 & . \ 4 \ 0 \\ 2 \ 5 & . \ 9 \ 4 \\ 2 \ 5 & . \ 9 \ 7 \\ 2 \ 6 & . \ 4 \ 4 \\ 2 \ 7 & . \ 4 \ 6 \\ 2 \ 7 & . \ 5 \ 5 \\ 2 \ 7 & . \ 9 \ 6 \\ 2 \ 8 & . \ 5 \ 8 \\ 2 \ 8 \ 1 \ 1 \ 1 \ 1 \ 1 \ 1 \ 1 \ 1 \ 1$	25.68 26.14 27.39 27.40 27.96 29.13 29.68 30.91 30.94 31.00 31.03 31.06 31.07 31.12 31.14 31.21 31.21 31.21 31.22 31.44 31.21 31.22 31.44 31.57 31.57 31.57 31.57 31.74 31.97 32.05 27.34 27.30 27.33 27.38 27.38 27.38 27.38 27.38 27.38 27.38 27.38 27.38 27.38 27.58 27.57 27.58 27.65	$1 \cdot 7 \cdot 3$ $2 \cdot 10$ $2 \cdot 34$ $1 \cdot 4 \cdot 6$ $1 \cdot 4 \cdot 3$ $1 \cdot 5 \cdot 2$ $1 \cdot 6 \cdot 7$ $2 \cdot 1 \cdot 3$ $2 \cdot 4 \cdot 7$ $2 \cdot 4 \cdot 0$ $2 \cdot 4 \cdot 2$ $2 \cdot 3 \cdot 6$ $2 \cdot 3 \cdot 5$ $2 \cdot 2 \cdot 8$ $2 \cdot 2 \cdot 2 \cdot 2$ $2 \cdot 2 \cdot 2 \cdot 2 \cdot 2$ $2 \cdot 2 \cdot$

WORKS SHALL NOT COMMENCE UNTIL PLANS ARE SIGNED BY BARWON WATER

ACCEPTED BY BARWON WATER DEVELOPMENT SERVICES CO-ORDINATOR DEVELOPMENT & CONSERVATION



**Barwon Retion Water Authority** Barwon Water No. L006988

Estuary Stage No. 8 Sewer Longitudinal Sections - 3

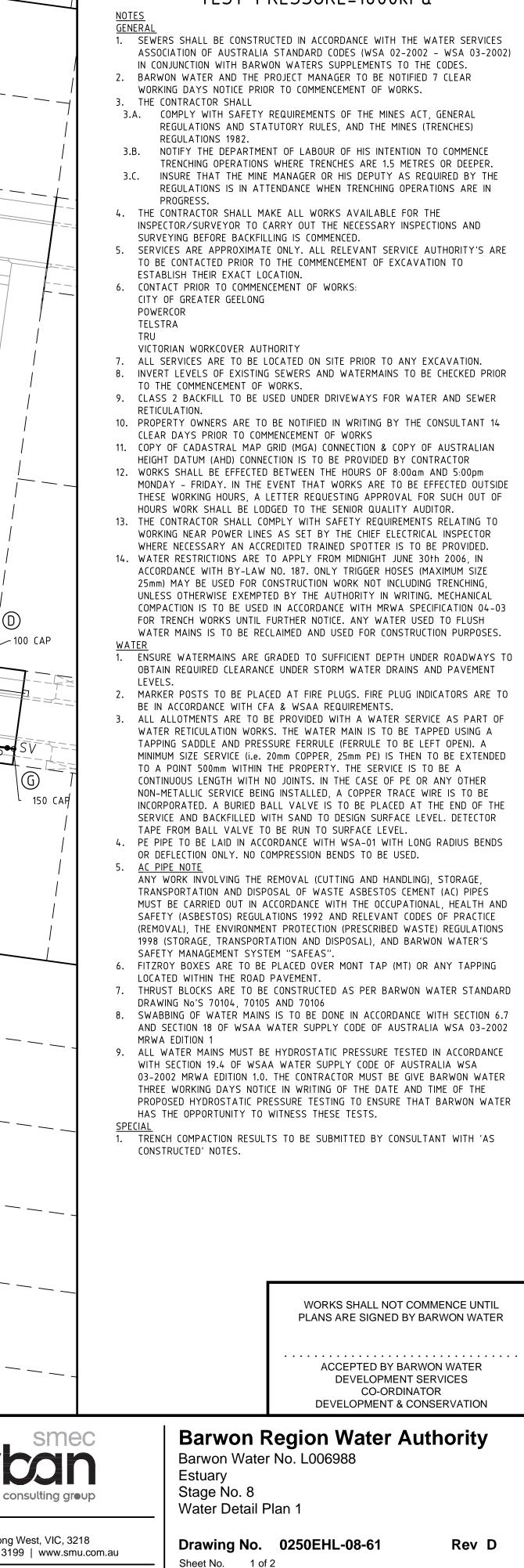
Drawing No. 0250EHL-08-55 Sheet No. 5 of 5

Rev E

<u>LEGEND - WATER PLAN</u> □───□──── STORMWATER DRAIN & PIT	
WATER MAIN	
─────────────────────────────────────	3000 1500
→ NON RETURN VALVE → FIRE PLUG	
───── DEAD END CAP ───E× E─── EXISTING ELECTRICITY (UNDERGROUND)	Ex0 1500 TI
O/H E EXISTING ELECTRICITY (OVERHEAD) Ex G EXISTING GAS	
Ex T EXISTING TELSTRA Ex W EXISTING WATER	
$- E \times D \longrightarrow EXISTING STORMWATER DRAIN  - E \times S \longrightarrow EXISTING SEWER$	
141.34 EXISTING SURFACE LEVEL	
FS140.35 FINISHED BUILDING LINE LEVEL FR157.40 FINISHED RIDGE LINE LEVEL	
▲ PERMANENT SURVEY MARK ↓ TEMPORARY BENCH MARK	225\$
SWAB DIRECTION	
AC ASBESTOS CEMENT CICL CAST IRON CEMENT LINED	839
DICL DUCTILED CEMENT LINED MSCL MILD STEEL CEMENT LINED	838
PVC POLYVINAL CHLORIDE	
PE POLYETHYLENE (AS SPECIFIED) RC REINFORCED CONCRETE	REMUVE AND REUSE
VC VITREOUS CLAY	AND STOP VALVE
WARNING	
BEWARE OF UNDERGROUND SERVICES The locations of underground services are approximate only and	3000 AT EX 10000 PVE STREET 3150
their exact position should be proven on site. No guarantee is given that all existing services are shown.	3000 AR EX 1000 PVE EX 1000 PVE EX EVERGLADE STREET 3150 BI EVERGLADE STREET
Locate all underground services before commencement of works DIAL 1100 BEFORE YOU DIG	835
www.1100.com.au	
	H GW HH
	REMOVE AND REUSE
	200 EXISTING FIRE PLUG AND STOP VALVE
	SV JL 3750 BI
	$\frac{E \times D}{375 \varnothing} = \frac{1}{375 \varphi} = \frac{1}{375 \varphi$
	$= - \frac{1}{4} = - $
	$\begin{bmatrix} -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 $
	01.05.12 CB/CB JG
D MINOR AMENDMENTS	01.05.12 CB/CB JG
C WULAKARA LANE REMOVED	02.08.11 CB/CB JG Principal
B MINOR AMENDMENTS A ISSUED TO BARWON WATER FOR APPROVAL	31.05.11     CB/CB     JG     Leopold Property Developments Pty Ltd       04.04.11     CB/CB     JG     Level 1, 6 Riverside Quay
REVISION	DATE DES/DFT APP'D Southbank, Victoria 3006

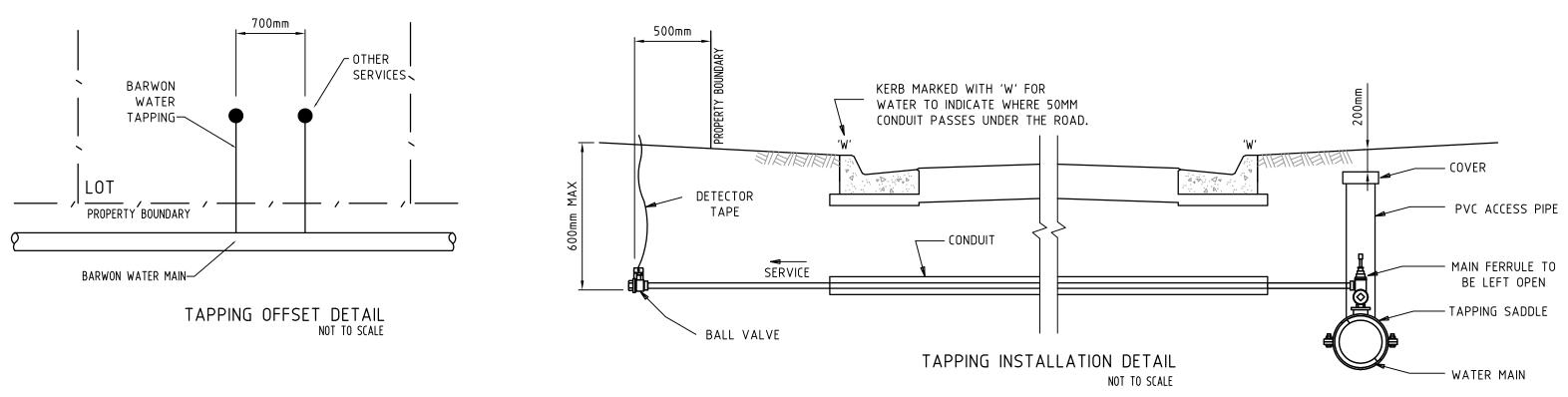


## DESIGN HEAD=112.6m AHD TEST PRESSURE=1600kPa



Melbourne +61 3 9869 0800

 $|\mathbb{D}|$ 



SERVICES OFFSET SCHEDULE									
	0	GAS		WATER		ELECTRICITY		TELSTRA	
ROAD NAME	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	
EVERGALDE STREET	NORTH	2.10	NORTH	2.70	SOUTH	2.30	SOUTH	1.70	
PARKFRONT DRIVE	NORTH	2.10	NORTH	2.70	SOUTH	2.30	SOUTH	1.70	
TIDAL STREET	SOUTH	2.10	SOUTH	2.70	NORTH	2.30	NORTH	1.70	
VILLAGE GREEN DRIVE LOTS 806-811	WEST	2.10	WEST	2.70	EAST	1.00	EAST	0.50	
VILLAGE GREEN DRIVE LOTS 836-840	WEST	2.10	WEST	2.70	EAST	2.30	EAST	1.70	
TREEFERN STREET	EAST	2.10	WEST	2.70	EAST	2.30	EAST	1.70	

SURVEY STATIO	NS (HORIZONTAL – AR	BITARY, VERTI	CAL – AHD)

TBM	EASTING	NORTHING	RL	DESCRIPTION
R0D501	10106.39	48560.27	21.19	ROD
ROD502	10309.58	48587.59	28.62	ROD
MOOLAP PM69	1000.00	50000.00	-	BRASS PLAQUE
MOOLAP PM321	9897.742000	48994.921	9.436	BRASS PLAQUE
MOOLAP PM302	10212.03	48959.504	22.180	BRASS PLAQUE

SURVEY CONTROL						
TBM	EASTING	NORTHING	RL	DESCRIPTION		
ROD501	277245.07	5768919.27	21.19	ROD		
ROD502	277448.31	5768946.60	28.62	ROD		
MOOLAP PM69	277138.66	5770359.31	-	BRASS PLAQUE		
MOOLAP PM321	277040	5769480	9.436	BRASS PLAQUE		
MOOLAP PM302	277310	5769280	22.180	BRASS PLAQUE		

	THRUST RESTRAINT SCHEDULE					
	LOCATION		TYPE	AREA (m²)	NUMBER	
A	PARKFRONT TIDAL	&	150x100 TEE	0.80	2	
В	B VILLAGE GREEN DRIVE		225x150 TEE	1.70	2	
C	C EVERGLADE STREET		225×100 TEE	1.70	1	
D	TREEFERN &	TIDAL	100 CAP	0.38	2	
E	TREEFERN &	TIDAL	100x22.5° BEND	0.16	2	
F	F TIDAL STREET		150x22.5° BEND	0.32	1	
G	G TIDAL STREET		150 CAP	0.80	1	
Н	H VILLAGE GREEN DRIVE		225 CAP	1.70	1	
I	I VILLAGE GREEN DRIVE		225x11.25° BENE	0.34	4	
NEW WATER MAINS						
SIZE		ΤΥΡΕ	LENGTH			
	100	Р	VC (CL-16)	217		
	150	P	VC (CL-16)	179		
	225	Р	VC (CL-16)	234		

					estuary
D	MINOR AMENDMENTS	01.05.12	CB/CB	JG	leopold
С	WULAKARA LANE REMOVED	02.08.11	CB/CB	JG	Principal
В	MINOR AMENDMENTS	31.05.11	CB/CB	JG	Leopold Property Developments Pty Ltd
А	ISSUED TO BARWON WATER FOR APPROVAL	04.04.11	CB/CB	JG	Level 1, 6 Riverside Quay Southbank, Victoria 3006
RE	EVISION	DATE	DES/DFT	APP'D	

- 1. ALL LOTS ARE TO BE TAPPED USING A TAPPING SADDLE AND PRESSURE
- FERRULE. 2. A MINIMUM SIZE SERVICE (IE 20MM COPPER, 25MM PE) IS THEN TO BE
- EXTENDED TO A POINT 500MM WITHIN THE PROPERTY. 3. SERVICE PIPE BETWEEN MAIN FERRULE AND BALL VALVE TO BE A
- CONTINUOUS LENGTH (IE NO JOINS) 4. SERVICE TO BE TYPE 'B' COPPER OR CLASS 12 TYPE 50 PE. 5. IN THE CASE OF PE OR ANY OTHER NON-METALLIC SERVICE BEING
- INSTALLED, A COPPER TRACE WIRE IS TO BE INCORPORATED. 6. A BURIED BALL VALVE IS TO BE PLACED AT THE END OF THE SERVICE.
- 7. DETECTOR TAPE IS TO BE RUN TO SURFACE LEVEL. 8. BALL VALVE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARDS (IE STAMPED 'W') BRASS FITTING WITH STAINLESS STEEL BALL.

	Construction Notes Construction of the sewer and water mains is to be in accordance with the Barwon Water standard specifications "Construction of gravity sewers and rising mains" and "Construction of water mains". Every endeavour to ensure the location of all existing services on the plane or exerct Llowurge exturble	Designed C. Barker Drawn C. Barker Checked	N	© SM Urban Pty Ltd ABN 99 124 206 819 These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be reproduced or copied, in whole or part, without the written	<b>V</b> UI
:		C. Birkett Authorised J. Golden	Scale @ A1 1:500	permission of SM Urban Pty Ltd. The contents of this drawing are electronically generated, are	Smec Urban Level 1, 47 Pakington Street, Geo p +61 3 5228 3100   f +61 3 522
	<ul> <li>in millimetres &amp; offsets are indicated</li> <li>in metres.</li> <li>All sewer pipes are 150Ømm unless otherwise shown.</li> </ul>	Date March 2011	0 5 10 20	confidential and may only be used for the purpose for which they are intended.	Adelaide +61 8 8223 6455 Brisbane +61 7 3831 8988 Canberra +61 2 6126 1900

WORKS SHALL NOT COMMENCE UNTIL PLANS ARE SIGNED BY BARWON WATER

ACCEPTED BY BARWON WATER DEVELOPMENT SERVICES CO-ORDINATOR DEVELOPMENT & CONSERVATION



eelong West, VIC, 3218 228 3199 | www.smu.com.au

Gold Coast+61755780222Melbourne+61398690800Traralgon+61351730100

**Barwon Region Water Authority** Barwon Water No. L006988 Estuary Stage No. 8 Water Detail Plan 2

Drawing No. 0250EHL-08-62 Sheet No. 2 of 2

Rev D