

1 in 150 SLOPE VARIES EXISTING SURFACE TEMPORARY BATTER AT STAGE BOUNDARY TYPICAL FILL SECTION NOT TO SCALE STAGE STAGE 1 EXISTING SURFACE

> TEMPORARY BATTER AT STAGE BOUNDARY TYPICAL CUT SECTION NOT TO SCALE

1\_in 150

SLOPE VARIES

NON STANDARD DRIVEWAY FOR LOTS 137, 138. REFER TO SHEET 05-06 FOR OFFSET AND DIMENSION DETAILS

HOUSE DRAIN LEVELS:

LOT 137 IL 190.70 FUTURE LOT 213 IL 193.50

PLEASE NOTE THAT CONNECTIONS SHOULD BE BUILT TO THE LEVELS PROVIDED.

CONNECTIONS CAN BE BUILT LOWER

IF REQUIRED.

LEGEND - LAYOUT PLAN STORMWATER DRAIN, PIT & PROPERTY INLET ────── SWALE DRAIN S SEWER & MAINTENANCE STRUCTURES − − −H HOUSE DRAIN E ELECTRICITY (U.GROUND) (INDICATIVE ONLY) G G GAS (INDICATIVE ONLY) TELSTRA (INDICATIVE ONLY) ---- W ---- WATER (INDICATIVE ONLY) —— Ag —— AG. DRAIN (INDICATIVE ONLY) OPTIC FIBRE (INDICATIVE ONLY) ——GW—— SERVICE CONDUITS TACTILE PAVERS ——Ex E—— EXISTING ELECTRICITY (UNDERGROUND) (INDICATIVE ONLY) —O/H E— EXISTING ELECTRICITY (OVERHEAD) (INDICATIVE ONLY) ---Ex G--- EXISTING GAS (INDICATIVE ONLY) EX T EXISTING TELSTRA (INDICATIVE ONLY) Ex 0— EXISTING OPTIC FIBRE (INDICATIVE ONLY) —Ex W— EXISTING WATER (INDICATIVE ONLY) —EX RW— EXISTING RECYCLED WATER (INDICATIVE ONLY) EX D- EXISTING STORMWATER DRAIN (INDICATIVE ONLY) —Ex S— EXISTING SEWER (INDICATIVE ONLY) − − −H EXISTING HOUSE DRAIN ---> ---> EXISTING SWALE DRAIN —Fut Ag — FUTURE AG DRAIN (INDICATIVE ONLY) —Fut E —— FUTURE ELECTRICITY (UNDERGROUND) (INDICATIVE ONLY) - FutO/H E- FUTURE ELECTRICITY (OVERHEAD) (INDICATIVE ONLY) — Fut T — FUTURE TELSTRA (INDICATIVE ONLY) — Fut 0 — FUTURE OPTIC FIBRE (INDICATIVE ONLY) --- Fut W--- FUTURE WATER (INDICATIVE ONLY) —Fut RW— FUTURE RECYCLED WATER (INDICATIVE ONLY) Fut D - FUTURE STORMWATER DRAIN (INDICATIVE ONLY) → FUT S — FUTURE SEWER (INDICATIVE ONLY) − − −H FUTURE HOUSE 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 CUT > 200mm DEEP 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 ── LIMIT OF WORKS EXISTING TREE TO BE REMOVED EXISTING TREE TO BE RETAINED PERMANENT SURVEY MARK TEMPORARY BENCH MARK PROPOSED DRIVEWAY

CUT OFF DRAIN TYPICAL SECTION

## **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. \_ocate all underground services before commencement of works **DIAL 1100 BEFORE YOU DIG** 

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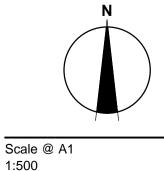
1	DW'S FOR LOTS 137,138,151A & 151 AMENDED 8.	.08.14	MB/NS	MB	
Н	ISSUED FOR CONSTRUCTION 7.	.08.14	NS	MB	
G	UPDATED POS EASEMENTS 31	1.07.14	AP/AP	MB	Caro
0	AS CONSTRUCTED 19	9.03.15	AP/AP	MB	-1111
N	CONSTRUCTION ISSUE 15	5.10.14	AP/AP	MB	ui U
М	POS AMENDMENT FOR LOT 151 24	4.09.14	AP/AP	MB	
L	LOT 132/133 DWAY AMENDMENTS 17	7.09.14	JZ/JZ	MB	Principal
K	LOTS 131/132 DWAY AMENDMENTS 09	9.09.14	AP/AP	MB	Peet Limited
J	ISSUED FOR CONSTRUCTION 14	+.08.14	MB/SS	MB	Level 3, 492 St Kilda Road Melbourne VIC 3004

DATE DES/DFT APP'D

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J.Zhou Drawn S.Sathasivam Checked Z.Gosev Authorised M.Bouwmeester

December 2013



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Level 10, 71 Queens Road, Melbourne VIC 3004

**URBAN DEVELOPMENT** 

## Arena Estate, Roxburgh Park

Stage 1 Hume City Council Roadworks and Drainage Layout Plan - 2

Drawing No. 0740E-01-03

Sheet No. 3 of 32

As Constructed

Rev O

These plans are design plans and are indicative only and parties must not make any objection, requisition or claim for compensation in relation to the plans. The final condition of lots upon completion may vary from the condition described in the plans.

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EGEND

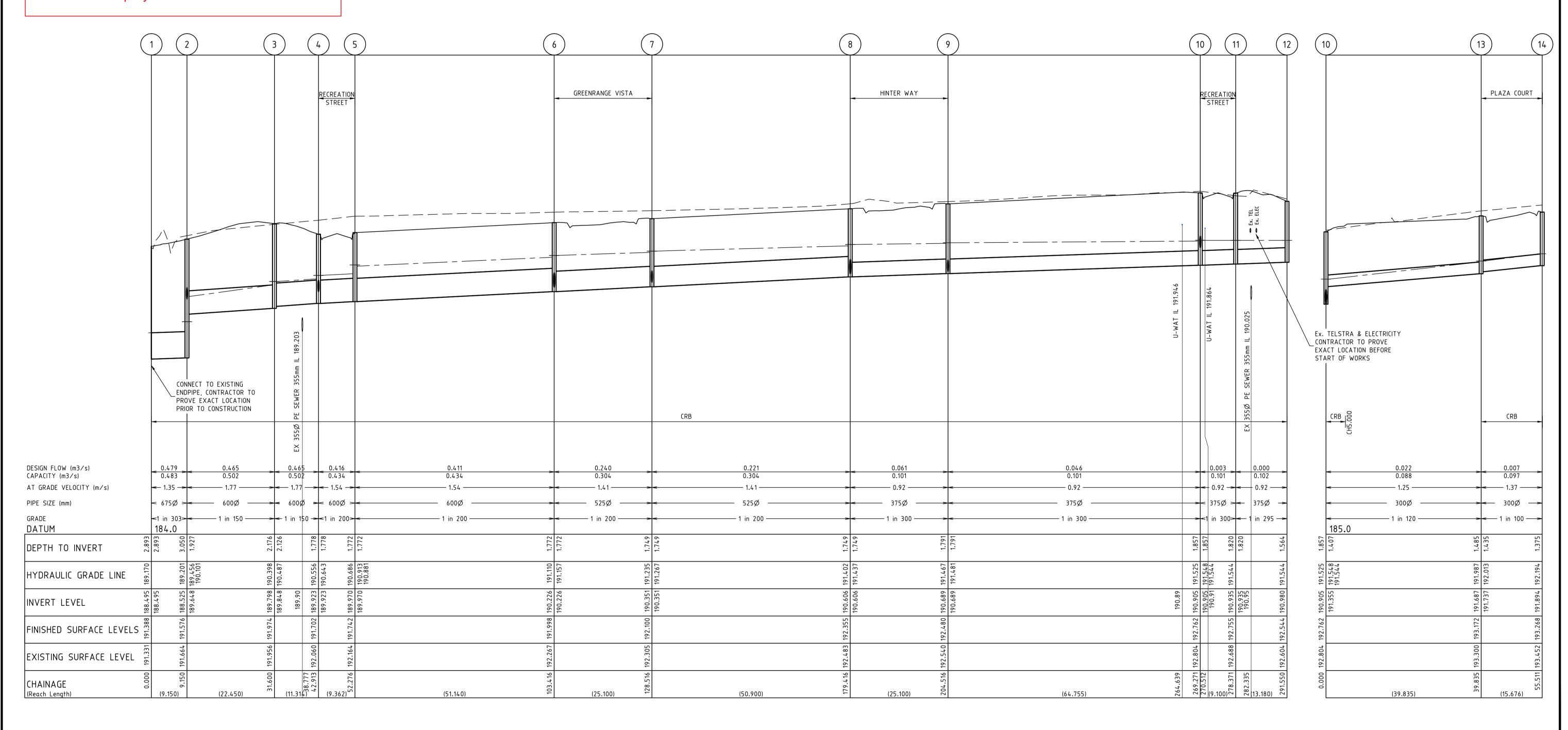
EXISTING SURFACE

DESIGN SURFACE

DRAINAGE PIPE/PIT

EXISTING DRAINAGE PIPE/PIT

HYDRAULIC GRADE LINE



						-
L						
ı	G	AS CONSTRUCTED	19.03.15	AP/AP	МВ	
I	F	CONSTRUCTION ISSUE	15.10.14	AP/AP	МВ	_ []
	Е	ISSUED FOR CONSTRUCTION	7.08.14	NS	МВ	<b>UI</b>
I	D	COUNCIL COMMENTS	9.07.14	AP/AP	МВ	
	С	ISSUED FOR TENDER	11.03.14	JZ/JZ	МВ	Principal
I	В	DRAIN AMENDED	12.02.14	JZ/JZ	МВ	Peet Limited
I	Α	ISSUED TO COUNCIL FOR APPROVAL	24.01.14	JZ/SS	МВ	Level 3, 492 St Kilda R Melbourne VIC 3004
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DATE DES/DFT APP'D

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J.Zhou

Drawn
S.Satha
Checked
Z.Gosev
Authoris
M.Bouw

Drawn
S.Sathasivam
Checked
Z.Gosev
Authorised
M.Bouwmeester
Date

December 2013

Designed

Scale @ A1 H1:500, V1:50 0 5 10 20 0 0.5 1 2 © SMEC Australia Pty Ltd ABN 47 065 475 149

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Arena Estate, Roxburgh Park
Stage 1

Hume City Council Roadworks and Drainage Drainage Longitudinal Sections - 1

Drawing No. 0740E-01-23
Sheet No. 23 of 32

Rev G

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AS CONSTRUCTED

CONSTRUCTION ISSUE

COUNCIL COMMENTS

ISSUED FOR TENDER

B DRAIN AMENDED

ISSUED FOR CONSTRUCTION

A ISSUED TO COUNCIL FOR APPROVAL

EGEND

- - - EXISTING SURFACE

- DESIGN SURFACE

- DRAINAGE PIPE/PIT

- - - EXISTING DRAINAGE PIPE/PIT

- HYDRAULIC GRADE LINE

Arena Estate, Roxburgh Park

As Constructed

Rev G

Stage 1

**Hume City Council** 

Sheet No. 24 of 32

Roadworks and Drainage

Drawing No. 0740E-01-24

Drainage Longitudinal Sections - 2

**SMEC** 

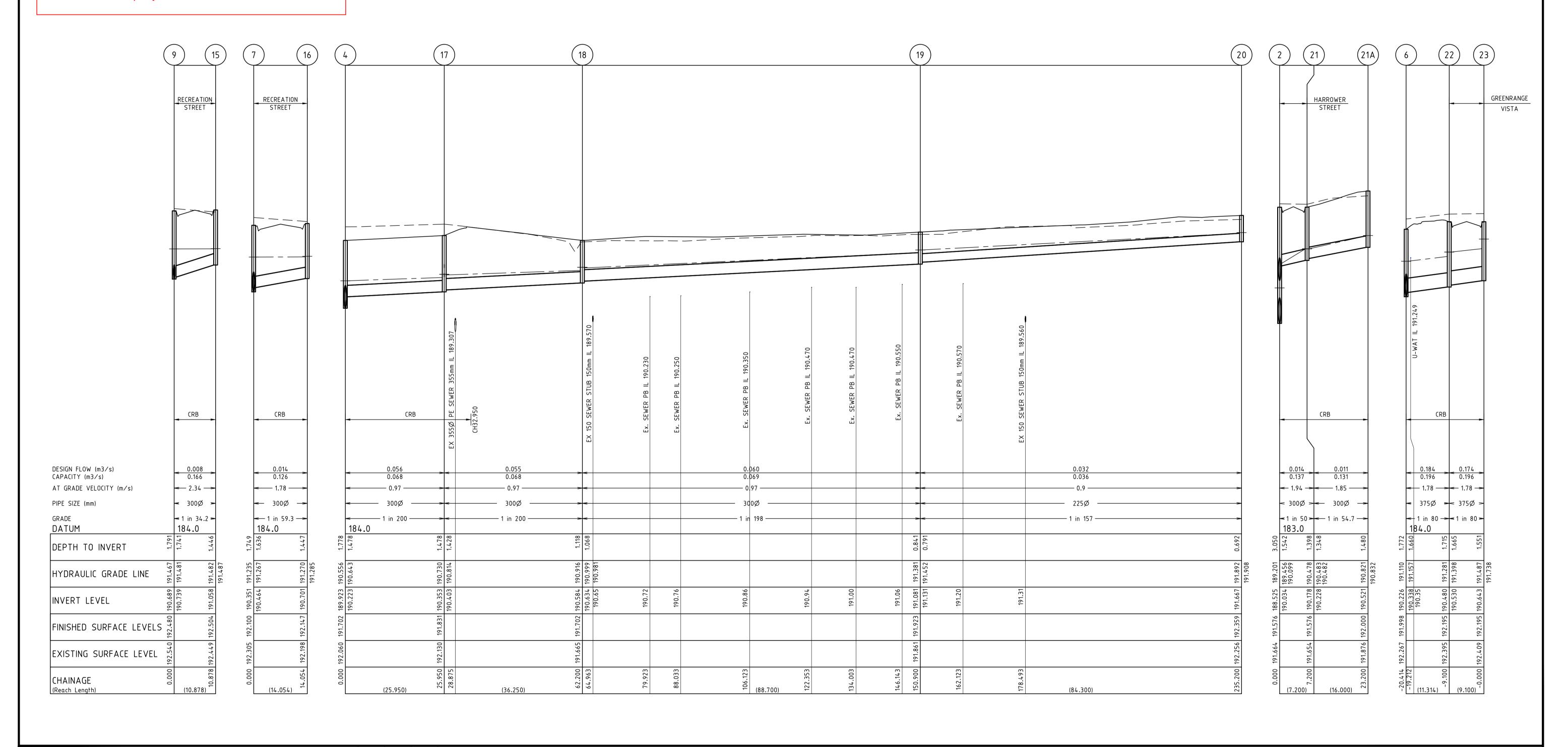
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Smec Urban



Designed

J.Zhou

S.Sathasivam

Checked

Z.Gosev

Date

Authorised

M.Bouwmeester

December 2013

Scale @ A1

H1:500, V1:50

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15.10.14 AP/AP MB

7.08.14 NS MB

9.07.14 AP/AP MB

| 11.03.14 | JZ/JZ | MB

|12.02.14| JZ/JZ | MB

24.01.14 JZ/SS MB

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Peet Limited

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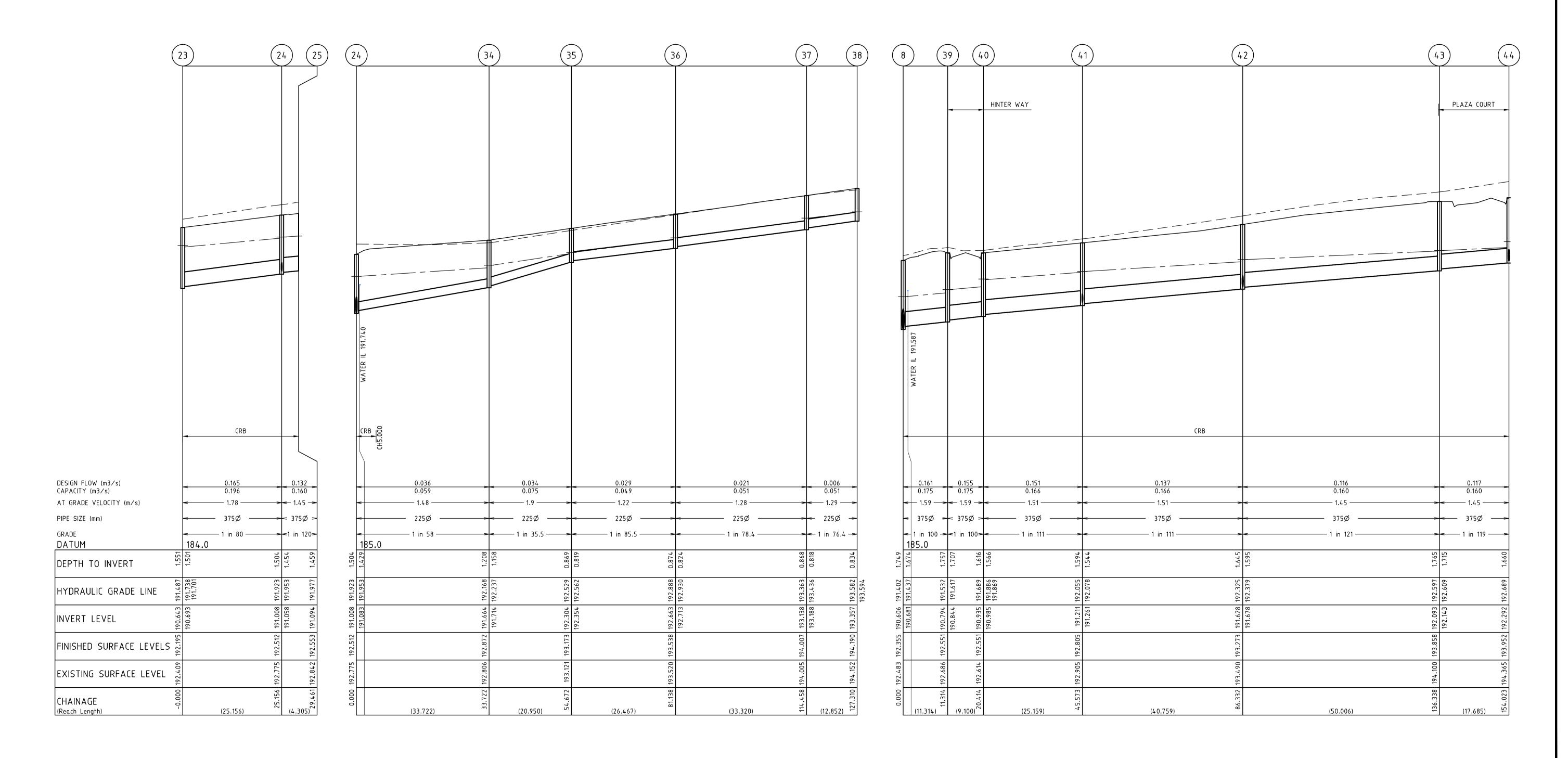
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<u>LEGEND</u>	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE



Н	AS CONSTRUCTED	19.03.15	AP/AP	MB	
G	CONSTRUCTION ISSUE	15.10.14	AP/AP	МВ	Car
F	POS AMENDMENT LOT 151	24.09.14	AP/AP	MB	- [ ] [
Е	ISSUED FOR CONSTRUCTION	7.08.14	NS	МВ	u u
D	COUNCIL COMMENTS	9.07.14	AP/AP	MB	
С	ISSUED FOR TENDER	11.03.14	JZ/JZ	МВ	Principal
В	DRAIN AMENDED	12.02.14	JZ/JZ	MB	Peet Limited
Α	ISSUED TO COUNCIL FOR APPROVAL	24.01.14	JZ/SS	МВ	Level 3, 492 St Kilda Road Melbourne VIC 3004
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J.Zhou Drawn S.Sathasivam Checked Z.Gosev Authorised M.Bouwmeester Date

Designed

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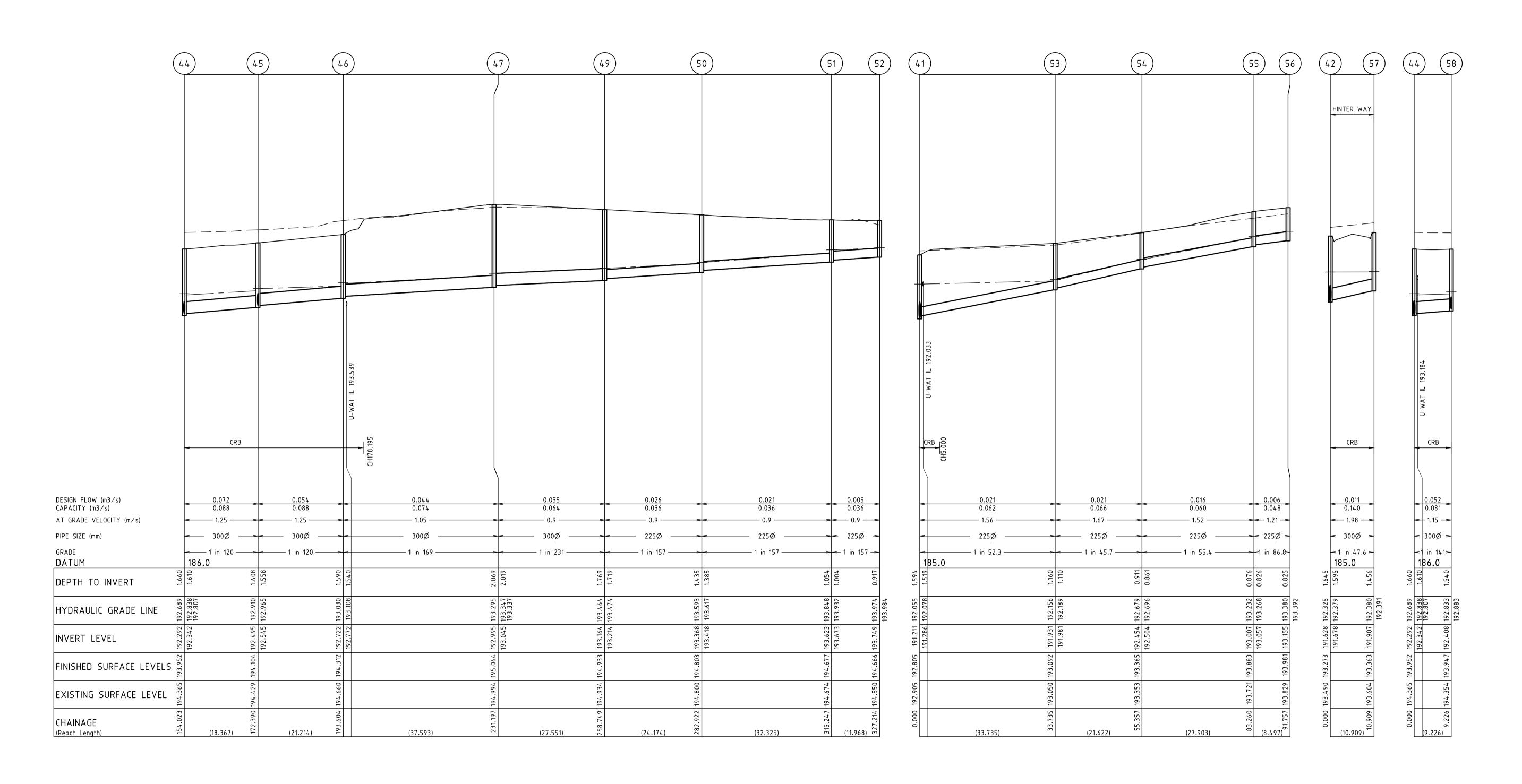
## Arena Estate, Roxburgh Park

Stage 1 Hume City Council Roadworks and Drainage Drainage Longitudinal Sections - 3

Drawing No. 0740E-01-25 Sheet No. 25 of 32

Rev H

— — — EXISTING SURFACE DESIGN SURFACE --- DRAINAGE PIPE/PIT — — — — EXISTING DRAINAGE PIPE/PIT - ---- HYDRAULIC GRADE LINE



G	AS CONSTRUCTED	19.03.15	AP/AP	MB	Caro
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D	COUNCIL COMMENTS	9.07.14	AP/AP	MB	
C	ISSUED FOR TENDER	11.03.14	JZ/JZ	МВ	Principal
В	DRAIN AMENDED	12.02.14	JZ/JZ	МВ	Peet Limited
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J.Zhou Drawn Checked Z.Gosev

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Arena Estate, Roxburgh Park

Stage 1 Hume City Council Roadworks and Drainage Drainage Longitudinal Sections - 4

Drawing No. 0740E-01-26 Sheet No. 26 of 32

Rev G

LEGEND

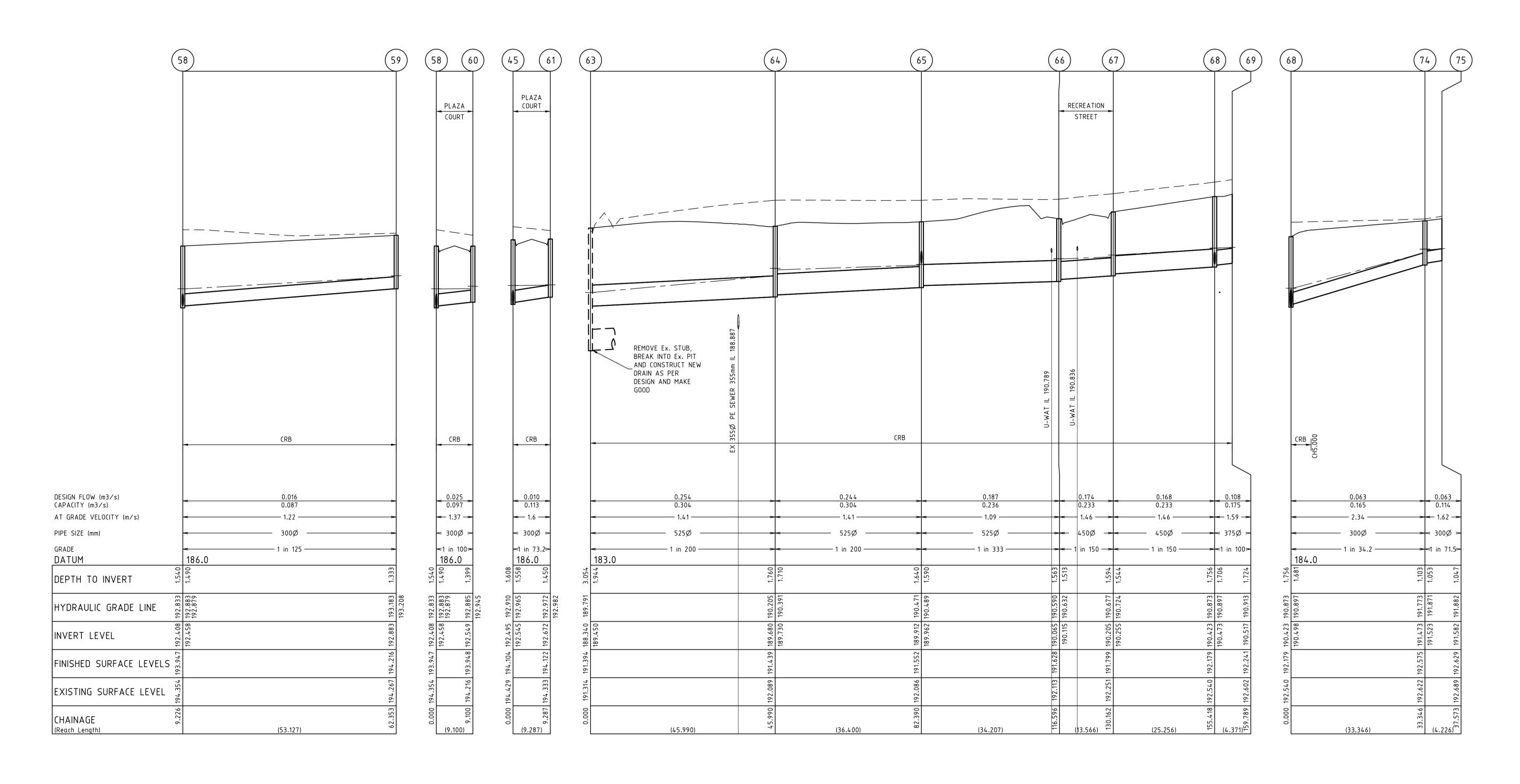
— — — — EXISTING SURFACE

— DESIGN SURFACE

— DRAINAGE PIPE/PIT

— — — EXISTING DRAINAGE PIPE/PIT

— — — HYDRAULIC GRADE LINE



G	AS CONSTRUCTED	19.03.15	AP/AP	MB	
F	CONSTRUCTION ISSUE	15.10.14	AP/AP	MB	_
Ε	ISSUED FOR CONSTRUCTION	7.08.14	NS	МВ	
D	COUNCIL COMMENTS	9.07.14	AP/AP	MB	
C	ISSUED FOR TENDER	11.03.14	JZ/JZ	МВ	   Principal
В	DRAIN AMENDED	12.02.14	JZ/JZ	MB	Peet Limited
Α	ISSUED TO COUNCIL FOR APPROVAL	24.01.14	JZ/SS	MB	Level 3, 492 St Melbourne VIC
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Peet Limited
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Melbourne VIC 3004

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Designed
J.Zhou

Drawn
S.Sathasivam

Checked
Z.Gosev

Authorised
M.Bouwmeester

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Date

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Arena Estate, Roxburgh Park

Stage 1
Hume City Council
Roadworks and Drainage
Drainage Longitudinal Sections - 5

**Drawing No. 0740E-01-27** Sheet No. 27 of 32

Rev G

	65	(65A)	47 48
	CH10.000		
DESIGN FLOW (m3/s) CAPACITY (m3/s) AT GRADE VELOCITY (m/s)	0.067 0.137 - 1.94		0.005 0.045 - 1.13
PIPE SIZE (mm) GRADE	300Ø ———————————————————————————————————	>	< 225Ø >
DATUM	184.0		187.0
	1.034	1.287	0.964
	190.489	191.534	192.995 193.295 194.101 193.346 194.121 194.346
NVERT LEVEL	190.518	191.234	, I
	755.1	192.522	195.065
EXISTING SURFACE LEVEL	080.74	192.506	0.000 194.994
	(35.800)	35.800	(2.000)

PIT NUMBER	TYPE	INTERNAL		INLET		OUTLET		F.S.L. (m)	DEPTH (m)	STANDARD	REMARKS
., ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INVERT R.L.(m)	DIAMETER (mm)	INVERT R.L. (m)		]	DRAWING	
1	ENDPIPE	WIDTH (IIIII)	ELINGTTI (IIIII)	675	188.495	DIATIETER (IIIII)	IIVVERT R.E. (III)	191.388	2.893		CONNECT TO EXISTING ENDPIPE
2	CHANNEL GRATED PIT	900	900	600	189.648	675	188.525	191.576	3.050	SD215/SD245	TO BE HAUNCHED
_				300	190.034						
3	CHANNEL GRATED PIT CHANNEL GRATED PIT	1050 1050	900 900	600 600	189.848	600	189.798 189.923	191.974 191.702	2.176 1.778	SD215/SD245 SD215/SD245	TO BE HAUNCHED  TO BE HAUNCHED
4	CHANNEL GRATED FIT	1030	900	300	190.223	000	109.923	191.702	1.776	302137 30243	TO BE HAUNCHED
5	CHANNEL GRATED PIT	900	900	600	189.970	600	189.970	191.742	1.772	SD215/SD245	TO BE HAUNCHED
6	JUNCTION PIT	900	900	525	190.226	600	190.226	191.998	1.772	SD230/SD245	TO BE HAUNCHED
				375	190.338						
7	CHANNEL GRATED PIT	900	900	525	190.351	525	190.351	192.100	1.749	SD215/SD245	TO BE HAUNCHED
8	JUNCTION PIT	900	900	300 375	190.464	525	190.606	192.355	1.749	SD230/SD245	TO BE HAUNCHED
	JONETION	700	700	375	190.681	323	170.000	1,2.333	1.747	302307 30243	TO DE TIMORCIES
9	CHANNEL GRATED PIT	600	900	375	190.689	375	190.689	192.480	1.791	SD215	
				300	190.739						
10	CHANNEL GRATED PIT	600	900	375	190.905	375	190.905	192.762	1.857	SD215	
11	CHANNEL GRATED PIT	600	900	300 375	191.355 190.935	375	190.935	192.755	1.820	SD215	
12	Ex JUNCTION PIT	600	900	373	190.933	375	190.980	192.544	1.564	30213	REMOVE Ex. 300Ø DRAIN PIPE AND CONSTRUCT NEW 375Ø PIPE TO PIT
13	DOUBLE CHANNEL GRATED PIT (HB2)	600	900	300	191.737	300	191.687	193.172	1.485	SD211	
14	CHANNEL GRATED PIT	600	900			300	191.894	193.268	1.375	SD215	
15	CHANNEL GRATED PIT	600	900			300	191.058	192.504	1.446	SD215	
16	CHANNEL GRATED PIT	600	900	200	400 / 67	300	190.701	192.147	1.447	SD215	
17	JUNCTION PIT	600	900	300	190.403	300	190.353	191.831	1.478	SD230	
18	JUNCTION PIT  JUNCTION PIT	600	900	300 225	190.634 191.131	300	190.584 191.081	191.702 191.923	1.118 0.841	SD230 SD230	
20	JUNCTION PIT	600	900	223	1/1.1/1	225	191.667	191.923	0.692	SD230	
21	CHANNEL GRATED PIT	600	900	300	190.228	300	190.178	191.576	1.398	SD215	
21A	CHANNEL GRATED PIT	600	900			300	190.521	192.000	1.480	SD215	
22	CHANNEL GRATED PIT	600	900	375	190.530	375	190.480	192.195	1.715	SD215	
23	CHANNEL GRATED PIT	600	900	375	190.693	375	190.643	192.195	1.551	SD215	
24	JUNCTION PIT	600	900	375	191.058	375	191.008	192.512	1.504	SD230	
25	ENDPIPE			225	191.083	375	191.094	192.553	1.459		BLANK OFF ENDPIPE
34	JUNCTION PIT	600	900	225	191.714	225	191.664	192.872	1.208	SD230	BEANK OIT ENDFIFE
35	JUNCTION PIT	600	900	225	192.354	225	192.304	193.173	0.869	SD230	
36	JUNCTION PIT	600	900	225	192.713	225	192.663	193.538	0.874	SD230	
37	JUNCTION PIT	600	900	225	193.188	225	193.138	194.007	0.868	SD230	
38	JUNCTION PIT	600	900			225	193.357	194.190	0.834	SD230	
39	CHANNEL GRATED PIT	600	900	375	190.844	375	190.794	192.551	1.757	SD215	
40	CHANNEL GRATED PIT	600	900 900	375 375	190.985 191.261	375	190.935	192.551	1.616 1.594	SD215	
41	JUNCTION PIT	600	900	225	191.286	375	191.211	192.805	1.594	SD230	
42	CHANNEL GRATED PIT	600	900	375	191.678	375	191.628	193.273	1.645	SD215	
				300	191.678						
43	CHANNEL GRATED PIT	600	900	375	192.143	375	192.093	193.858	1.765	SD215	
44	JUNCTION PIT	600	900	300	192.342	375	192.292	193.952	1.660	SD230	
	CHANGE COATED DIT	100	000	300	192.342	200	400 405	101 101	4.600	60045	
45	CHANNEL GRATED PIT	600	900	300 300	192.545 192.545	300	192.495	194.104	1.608	SD215	
46	JUNCTION PIT	600	900	300	192.772	300	192.722	194.312	1.590	SD230	
47	JUNCTION PIT	600	900	300	193.045	300	192.995	195.064	2.069	SD230	
				225	194.101						
48	ENDPIPE					225	194.121	195.060	0.940		BLANK OFF ENDPIPE
49	JUNCTION PIT	600	900	225	193.214	300	193.164	194.933	1.769	SD230	
50	JUNCTION PIT	600	900	225	193.418	225	193.368	194.803	1.435	SD230	
51	JUNCTION PIT	600	900	225	193.673	225	193.623	194.677	1.054	SD230	
52 53	JUNCTION PIT  JUNCTION PIT	600	900	225	191.981	225	193.749 191.931	194.666 193.092	0.917	SD230 SD230	
54	JUNCTION PIT	600	900	225	192.504	225	192.454	193.365	0.911	SD230	
55	JUNCTION PIT	600	900	225	193.057	225	193.007	193.883	0.876	SD230	
56	JUNCTION PIT	600	900			225	193.155	193.981	0.825	SD230	
57	CHANNEL GRATED PIT	600	900			300	191.907	193.363	1.456	SD215	
58	CHANNEL GRATED PIT	600	900	300	192.458	300	192.408	193.947	1.540	SD215	
50	HINCTION DIT	400	000	300	192.458	200	102.002	107 247	1 222	CD220	
59 60	JUNCTION PIT  CHANNEL GRATED PIT	600	900			300	192.883 192.549	194.216 193.948	1.333	SD230 SD215	
61	CHANNEL GRATED PIT	600	900			300	192.672	194.122	1.450	SD215	
63	Ex CHANNEL GRATED PIT	900	900	525	189.450	525	188.350	191.394	3.054	· · -	REMOVE Ex. 675Ø STUB, CONSTRUCT NEW 525Ø PIPE
64	JUNCTION PIT	900	900	525	189.730	525	189.680	191.439	1.760	SD230/SD245	TO BE HAUNCHED
65	JUNCTION PIT	900	900	525	189.962	525	189.912	191.552	1.640	SD230/SD245	TO BE HAUNCHED
				300	190.518						
65A	ENDPIPE	2.5	2.5.5			300	191.234	192.522	1.287	60044 4554 5	BLANK OFF ENDPIPE
66	DOUBLE CHANNEL GRATED PIT	900	900	450	190.115	525	190.065	191.628	1.563	SD216/SD245	TO BE HAUNCHED
67	CHANNEL GRATED PIT  JUNCTION PIT	600	900	450 375	190.255 190.473	450 450	190.205 190.423	191.799 192.179	1.594 1.756	SD215 SD230	
00	JONETION FIT	000	,,,,,	300	190.478	4,70	170.423	1/4.117	1.750	30230	
69	ENDPIPE			230		375	190.517	192.241	1.724		BLANK OFF ENDPIPE
74	JUNCTION PIT	600	900	300	191.523	300	191.473	192.575	1.103	SD230	
75	ENDPIPE					300	191.582	192.629	1.079		BLANK OFF ENDPIPE

Н	AS CONSTRUCTED	19.03.15	AP/AP	МВ	
G	CONSTRUCTION ISSUE	15.10.14	AP/AP	МВ	CIE
F	POS AMENDMENT LOT 151	24.09.14	AP/AP	МВ	- [][]
Ε	ISSUED FOR CONSTRUCTION	7.08.14	NS	МВ	ui
D	COUNCIL COMMENTS	9.07.14	AP/AP	МВ	
C	ISSUED FOR TENDER	11.03.14	JZ/JZ	МВ	Principal
В	DRAIN AMENDED	12.02.14	JZ/JZ	МВ	Peet Limited
Α	ISSUED TO COUNCIL FOR APPROVAL	24.01.14	JZ/SS	МВ	Level 3, 492 St Kilda Road Melbourne VIC 3004
RE	VISION	DATE	DES/DFT	APP'D	WIGIDOUTTIC VIO 0004

drend AT AITKEN All setting out should be carried out in accordance with GAA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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Designed
J.Zhou

Drawn
S.Sathasivam

Checked
Z.Gosev

Authorised
M.Bouwmeester

December 2013

Scale @ A1

0 5 10

0 0.5 1

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Arena Estate, Roxburgh Park

Stage 1
Hume City Council
Roadworks and Drainage
Drainage Longitudinal Sections - 6 &
Pit Schedule

Drawing No. 0740E-01-28

Sheet No. 28 of 32

Rev H