

THIS DETAIL SURVEY IS NOT A "LAND SURVEY" AS DEFINED BY THE SURVEYING AND SPATIAL INFORMATION ACT, 2002. IF ANY CONSTRUCTION OR DESIGN WORK, WHICH RELIES ON CRITICAL SETBACKS FROM THE STREET OR BOUNDARIES IS PLANNED, IT WOULD BE IMPERATIVE TO CARRY OUT FURTHER SURVEY WORK TO DETERMINE THE BOUNDARY DIMENSIONS.

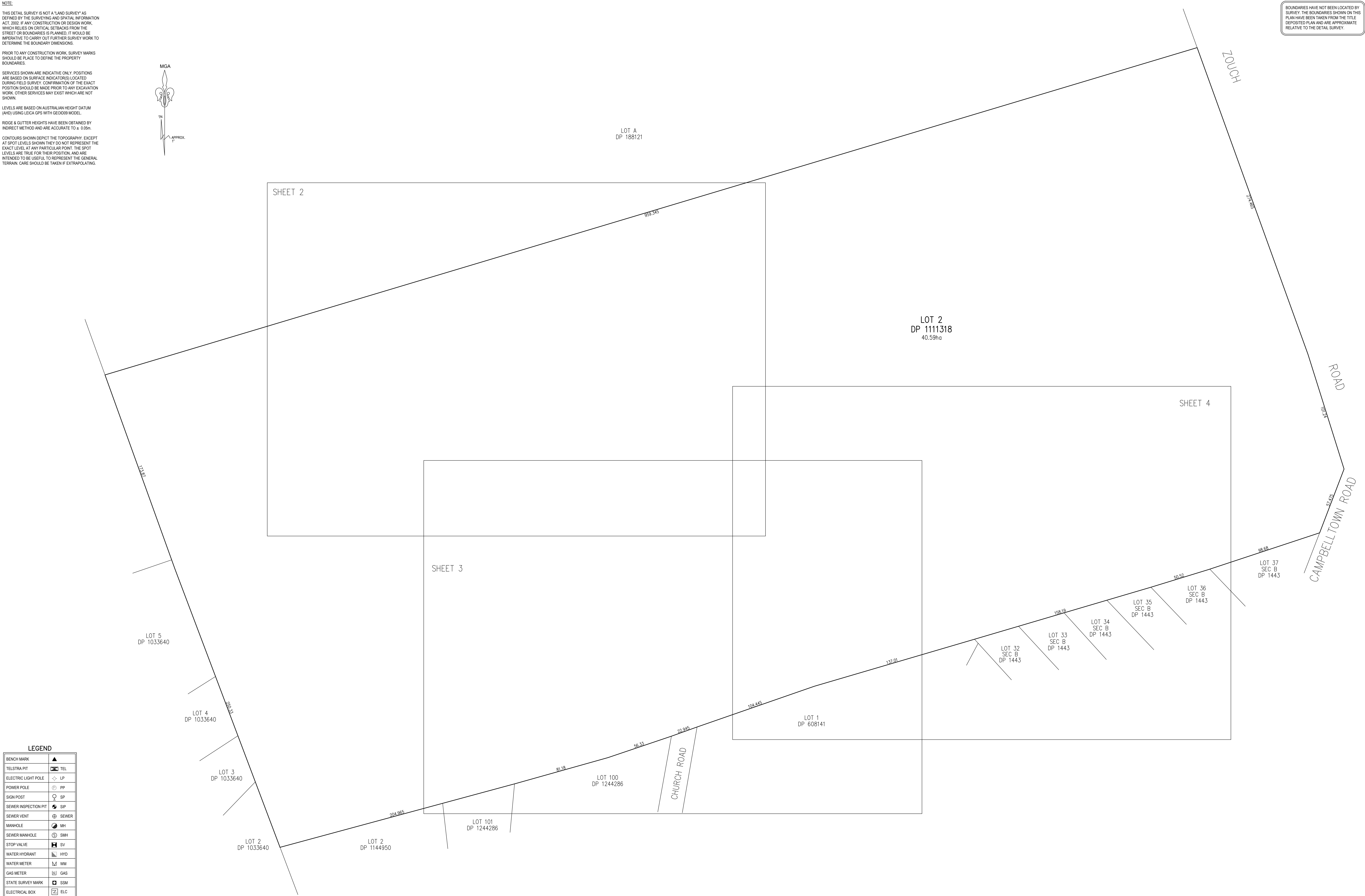
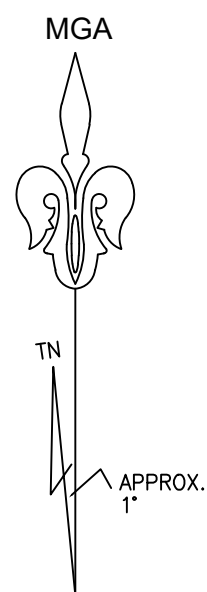
SERVICES SHOWN ARE INDICATIVE ONLY. POSITIONS ARE BASED ON SURFACE INDICATOR(S) LOCATED DURING FIELD SURVEY. CONFIRMATION OF THE EXACT POSITION SHOULD BE MADE PRIOR TO ANY EXCAVATION WORK. OTHER SERVICES MAY EXIST WHICH ARE NOT SHOWN.

LEVELS ARE BASED ON AUSTRALIAN HEIGHT DATUM (AHD) USING LEICA GPS WITH GEOID09 MODEL.

RIDGE & GUTTER HEIGHTS HAVE BEEN OBTAINED BY
INDIRECT METHOD AND ARE ACCURATE TO $\pm 0.05\text{m}$.

CONTOURS SHOWN DEPICT THE TOPOGRAPHY. EXCEPT AT SPOT LEVELS SHOWN THEY DO NOT REPRESENT THE EXACT LEVEL AT ANY PARTICULAR POINT. THE SPOT LEVELS ARE TRUE FOR THEIR POSITION, AND ARE INTENDED TO BE USEFUL TO REPRESENT THE GENERAL TERRAIN. CARE SHOULD BE TAKEN IF EXTRAPOLATING.

BOUNDARIES HAVE NOT BEEN LOCATED BY SURVEY. THE BOUNDARIES SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM THE TITLE DEPOSITED PLAN AND ARE APPROXIMATE RELATIVE TO THE DETAIL SURVEY.



LEGEND	
BENCH MARK	
TELSTRA PIT	
ELECTRIC LIGHT POLE	
POWER POLE	
SIGN POST	
SEWER INSPECTION PIT	
SEWER VENT	
MANHOLE	
SEWER MANHOLE	
STOP VALVE	
WATER HYDRANT	
WATER METER	
GAS METER	
STATE SURVEY MARK	
ELECTRICAL BOX	

NOTE:
INFORMATION CONTAINED IN THIS PLAN
IS THE COPYRIGHT OF TOTAL SURVEYING
SOLUTIONS. THE USE OR DUPLICATION
WITHOUT THE WRITTEN CONSENT OF TOTAL
SURVEYING SOLUTIONS CONSTITUTES AN
INFRINGEMENT OF COPYRIGHT.

REVISION No.	REVISION DATE:	COMMENT:

NASTASI & ASSOCIATES
CONSULTING CIVIL & STRUCTURAL ENGINEERS
 APR 45 533 226 008

HEAD OFFICE: UNIT 5, 1-3 WHYLLA PLACE, PRESTONS NEW 2175, Ph: (02) 96072864 / 87086617
QLD: 14939, 4 VIEW ST, SURFACE PARADISE, GOLD COAST 4217, Ph: (02) 96072864 / 87086617
VIC: - EC: 403769 PRESTONS, Ph: (02) 96072864 / 87086617

EMAIL ADDRESS: ORDERS@NASTASIASSOCIATES.COM.AU / **WEB SITE:** WWW.NASTASIASSOCIATES.COM.AU

ADDRESSES: to.me@nastasiassociates.com.au in.kredex.com/company/nastasiassociates

LEGEND:

EB - EDGE OF BITUMEN	TG - TOP OF GUTTER
TB - TOP OF BANK	RR - ROOF RIDGE
BB - BOTTOM OF BANK	FL - FLOOR LEVEL
WT - TOP OF WINDOW	INV - INVERT LEVEL
WB - BOTTOM OF WINDOW	ELEC - ELECTRICAL PIT
NS - NATURAL SURFACE	Ø 4/10/H16 - DIAMETER/SPREAD/HEIGHT

PLAN SHOWING DETAIL & LEVELS OVER LOT 2 IN DP1111318		JOB No.: 191404	LGA: LIVERPOOL
		PLAN No.: 191404_A	DATUM: AHD
CLIENT:	NATASI & ASSOCIATES CONSULTING ENGINEERS	DATE:	02/07/2019
PROJECT:	DETAIL SURVEY	DRAWN:	TF
ADDRESS:	12-14 ZOUGH ROAD, DENHAM COURT	CHK:	JV
			SHEET 1 OF 4



TSS TOTAL SURVEYING
SOLUTIONS
ARTARMON | CAMDEN | MANLY VALE

NOTE:

THIS DETAIL SURVEY IS NOT A "LAND SURVEY" AS DEFINED BY THE SURVEYING AND SPATIAL INFORMATION ACT, 2002. IF ANY CONSTRUCTION OR DESIGN WORK WHICH RELIES ON CRITICAL SETBACKS FROM THE STREET OR BOUNDARIES IS PLANNED, IT WOULD BE IMPERATIVE TO CARRY OUT FURTHER SURVEY WORK TO DETERMINE THE BOUNDARY DIMENSIONS.

PRIOR TO ANY CONSTRUCTION WORK, SURVEY MARKS SHOULD BE PLACED TO DEFINE THE PROPERTY BOUNDARIES.

SERVICES SHOWN ARE INDICATIVE ONLY. POSITIONS ARE BASED ON SURFACE INDICATORS(S) LOCATED DURING FIELD SURVEY. CONFIRMATION OF THE EXACT POSITION SHOULD BE MADE PRIOR TO ANY EXCAVATION WORK. OTHER SERVICES MAY EXIST WHICH ARE NOT SHOWN.

LEVELS ARE BASED ON AUSTRALIAN HEIGHT DATUM (AHD) USING LEICA GPS WITH GEO309 MODEL.

RIDGE & GUTTER HEIGHTS HAVE BEEN OBTAINED BY INDIRECT METHOD AND ARE ACCURATE TO ± 0.05m.

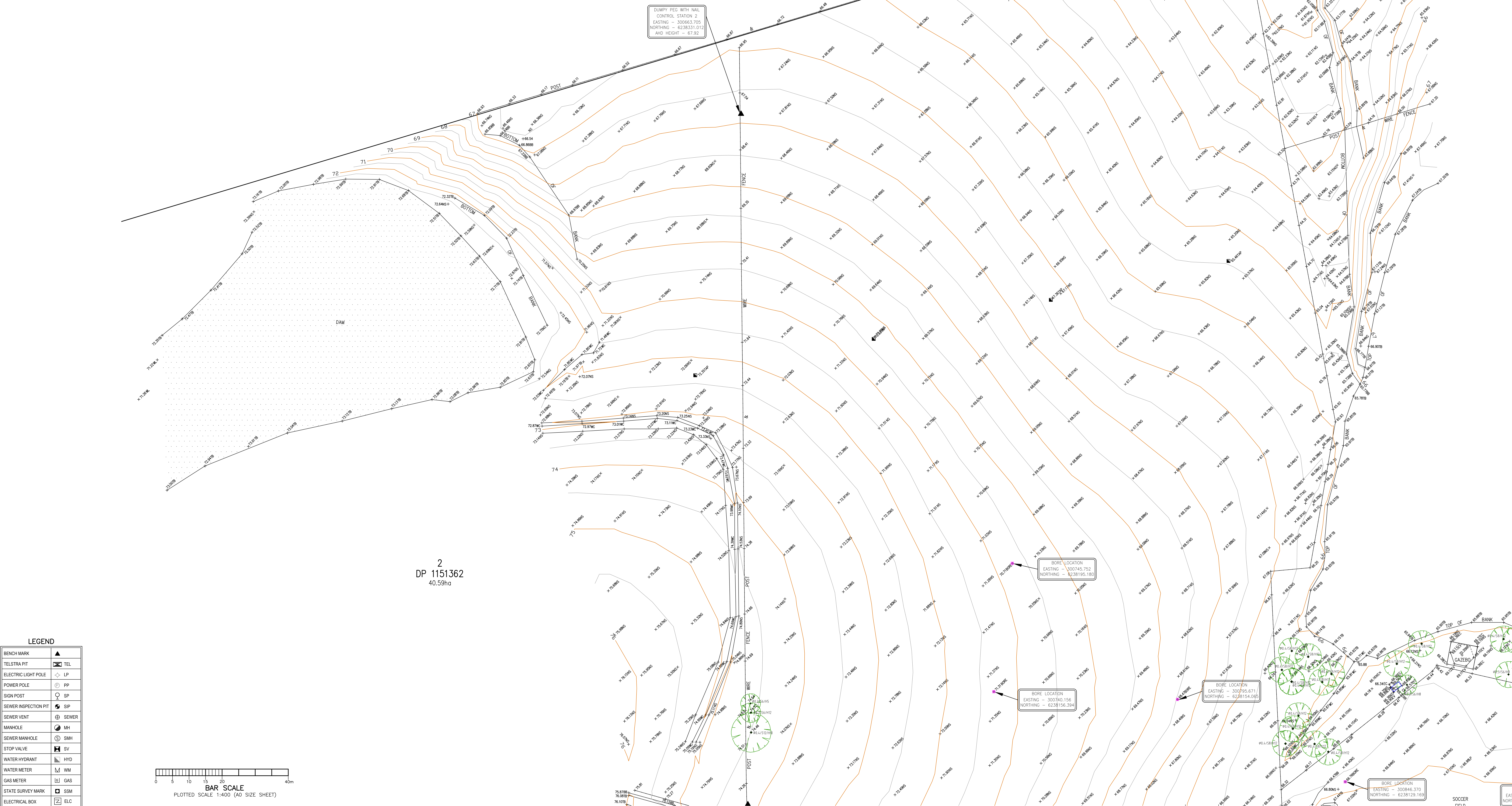
CONTOURS SHOWN DEPICT THE TOPOGRAPHY EXCEPT AT SPOT LEVELS SHOWN THEY DO NOT REPRESENT THE EXACT LEVEL AT ANY PARTICULAR POINT. THE SPOT LEVELS ARE TRUE FOR THEIR POSITION AND ARE INTENDED TO BE USEFUL TO REPRESENT THE GENERAL TERRAIN. CARE SHOULD BE TAKEN IF EXTRAPOLATING.

MGA



APPROX

1



NOTE:

INFORMATION CONTAINED IN THIS PLAN IS THE COPYRIGHT OF TOTAL SURVEYING SOLUTIONS. THE USE OR DUPLICATION WITHOUT THE WRITTEN CONSENT OF TOTAL SURVEYING SOLUTIONS CONSTITUTES AN INFRINGEMENT OF COPYRIGHT.

REVISION No.	REVISION DATE:	COMMENT:

LEGEND:

EB - EDGE OF BITUMEN
TB - TOP OF BANK
BB - BOTTOM OF BANK
WT - TOP OF WINDOW
WB - BOTTOM OF WINDOW
NS - NATURAL SURFACE

TG - TOP OF GUTTER
RR - ROOF RIDGE
FL - FLOOR LEVEL
INV - INVERT LEVEL
ELEC - ELECTRICAL PIT
Ø 4/10/10/16 - DIAMETER/SPREAD/HEIGHT

PLAN SHOWING DETAIL & LEVELS
OVER LOT 2 IN DP1111318

CLIENT: NASTASI & ASSOCIATES CONSULTING ENGINEERS

PROJECT: DETAIL SURVEY

ADDRESS: 12-14 ZOUC ROAD, DENHAM COURT

JOB No.: 191404

PLAN No.: 191404_A

DATE: 02/07/2019

DRAWN: TF

CHK: JV

LGA: LIVERPOOL

DATUM: AHD

SCALE: 1:400@A02

CONT. INTERVAL: 0.5m

SHEET 2 OF 4

NOTE:

THIS DETAIL SURVEY IS NOT A "LAND SURVEY" AS DEFINED BY THE SURVEYING AND SPATIAL INFORMATION ACT, 2002. IF ANY CONSTRUCTION OR DESIGN WORK, WHICH RELIES ON CRITICAL SETBACKS FROM THE STREET OR BOUNDARIES IS PLANNED, IT WOULD BE IMPERATIVE TO CARRY OUT FURTHER SURVEY WORK TO DETERMINE THE BOUNDARY DIMENSIONS.

PRIOR TO ANY CONSTRUCTION WORK, SURVEY MARKS SHOULD BE PLACED TO DEFINE THE PROPERTY BOUNDARIES.

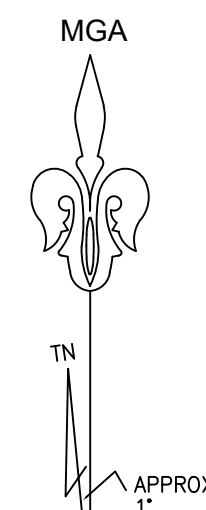
SERVICES SHOWN ARE INDICATIVE ONLY. POSITIONS ARE BASED ON SURFACE INDICATORS LOCATED DURING FIELD SURVEY. CONFIRMATION OF THE EXACT POSITION SHOULD BE MADE PRIOR TO ANY EXCAVATION WORK. OTHER SERVICES MAY EXIST WHICH ARE NOT SHOWN.

LEVELS ARE BASED ON AUSTRALIAN HEIGHT DATUM (AHD) USING LEICA GPS WITH GEOID09 MODEL.

RIDGE & GUTTER HEIGHTS HAVE BEEN OBTAINED BY INDIRECT METHOD AND ARE ACCURATE TO $\pm 0.05m$.

CONTOURS SHOWN DEPICT THE TOPOGRAPHY, EXCEPT AT SPOT LEVELS SHOWN THEY DO NOT REPRESENT THE EXACT LEVEL AT ANY PARTICULAR POINT. THE SPOT LEVELS ARE TRUE FOR THEIR POSITION, AND ARE INTENDED TO BE USEFUL TO REPRESENT THE GENERAL TERRAIN. CARE SHOULD BE TAKEN IF EXTRAPOLATING.

BOUNDARIES HAVE NOT BEEN LOCATED BY SURVEY. THE BOUNDARIES SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM THE TITLE DEPOSITED PLAN AND ARE APPROXIMATE RELATIVE TO THE DETAIL SURVEY.



2
DP 1151362
40.59ha

LEGEND

BENCH MARK	▲
TELSTRA PIT	TEL
ELECTRIC LIGHT POLE	LP
POWER POLE	PP
SIGN POST	SP
SEWER INSPECTION PIT	SIP
SEWER VENT	SEWER
MANHOLE	MH
SEWER MANHOLE	SMH
STOP VALVE	SV
WATER HYDRANT	HYD
WATER METER	WM
GAS METER	GAS
STATE SURVEY MARK	SSM
ELECTRIC BOX	ELC

NOTE:

INFORMATION CONTAINED IN THIS PLAN IS THE COPYRIGHT OF TOTAL SURVEYING SOLUTIONS. THE USE OR DUPLICATION WITHOUT THE WRITTEN CONSENT OF TOTAL SURVEYING SOLUTIONS CONSTITUTES AN INFRINGEMENT OF COPYRIGHT.

REVISION No. REVISION DATE: COMMENT:



NASTASI & ASSOCIATES
CONSULTING CIVIL & STRUCTURAL ENGINEERS
ABN 45 533 220 056

HEAD OFFICE: UNIT 5, 1-3 WHIFFALL PLACE, PRESTONS NSW 2170, PH: (02) 9072284 / 9789517
GPO: 19100 NSW & VIC: 101 SURFACES PARADISE, GOLD COAST 4217, PH: (02) 9072284 / 9789517
VIC: 101 40769 PRESTONS, PH: (02) 9072284 / 9789517
EMAIL ADDRESS: ORDERS@NASTASIASSOCIATES.COM.AU / WEB SITE: WWW.NASTASIASSOCIATES.COM.AU
B: nastasiassociates M: nastasiassociates

LEGEND:

EB - EDGE OF BITUMEN
TB - TOP OF BANK
BB - BOTTOM OF BANK
WT - TOP OF WINDOW
WB - BOTTOM OF WINDOW
NS - NATURAL SURFACE

TG - TOP OF GUTTER
RR - ROOF RIDGE
FL - FLOOR LEVEL
INV - INVERT LEVEL
ELEC - ELECTRICAL PIT
Ø 4/10/116 - DIAMETER/SPREAD/HEIGHT

PLAN SHOWING DETAIL & LEVELS
OVER LOT 2 IN DP1111318

CLIENT: NATASI & ASSOCIATES CONSULTING ENGINEERS

PROJECT: DETAIL SURVEY

ADDRESS: 12-14 ZOUC ROAD, DENHAM COURT

JOB No.: 191404

PLAN No.: 191404_A

DATE: 02/07/2019

DRAWN: TF

CHK: JV

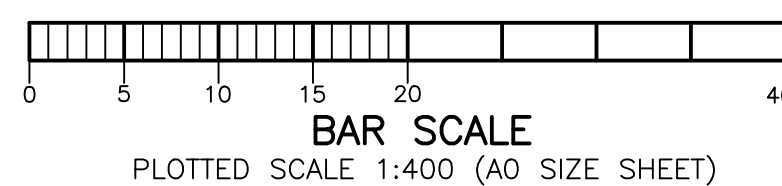
LGA: LIVERPOOL

DATUM: AHD

SCALE: 1:400@A02

CONT. INTERVAL: 0.5m

SHEET 3 OF 4



TSS TOTAL SURVEYING SOLUTIONS
ARTARMON | CAMDEN | MANLY VALE

NOTE:

THIS DETAIL SURVEY IS NOT A "LAND SURVEY" AS DEFINED BY THE SURVEYING AND SPATIAL INFORMATION ACT, 2002. IF ANY CONSTRUCTION OR DESIGN WORK, WHICH RELIES ON CRITICAL SETBACKS FROM THE STREET OR BOUNDARIES IS PLANNED, IT WOULD BE IMPERATIVE TO CARRY OUT FURTHER SURVEY WORK TO DETERMINE THE BOUNDARY DIMENSIONS.

PRIOR TO ANY CONSTRUCTION WORK, SURVEY MARKS SHOULD BE PLACED TO DEFINE THE PROPERTY BOUNDARIES.

SERVICES SHOWN ARE INDICATIVE ONLY. POSITIONS ARE BASED ON SURFACE INDICATOR(S) LOCATED DURING FIELD SURVEY. CONFIRMATION OF THE EXACT POSITION SHOULD BE MADE PRIOR TO ANY EXCAVATION WORK. OTHER SERVICES MAY EXIST WHICH ARE NOT SHOWN.

LEVELS ARE BASED ON AUSTRALIAN HEIGHT DATUM (AHD) USING LEICA GPS WITH GEO309 MODEL.

RIDGE & GUTTER HEIGHTS HAVE BEEN OBTAINED BY INDIRECT METHOD AND ARE ACCURATE TO ± 0.05m.

CONTOURS SHOWN DEPICT THE TOPOGRAPHY, EXCEPT AT SPOT LEVELS SHOWN THEY DO NOT REPRESENT THE EXACT LEVEL AT ANY PARTICULAR POINT. THE SPOT LEVELS ARE TRUE FOR THEIR POSITION, AND ARE INTENDED TO BE USEFUL TO REPRESENT THE GENERAL TERRAIN. CARE SHOULD BE TAKEN IF EXTRAPOLATING.

BOUNDARIES HAVE NOT BEEN LOCATED BY SURVEY. THE BOUNDARIES SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM THE TITLE. DEPOSITED PLAN AND ARE APPROXIMATE RELATIVE TO THE DETAIL SURVEY.

MGA



TN

APPROX.



2
DP 1151362
40.59ha

MANHOLE LOCATION
EASTING - 301139.431
NORTHING - 6238135.733
RL - 78.15

MANHOLE LOCATION
EASTING - 301137.194
NORTHING - 6238110.603
RL - 78.08

MANHOLE LOCATION
EASTING - 301175.094
NORTHING - 6238118.683
RL - 79.87

BORE LOCATION
EASTING - 300918.815
NORTHING - 6238126.099

BORE LOCATION
EASTING - 300915.083
NORTHING - 6238084.304

LEGEND

BENCH MARK	▲
TELSTRA PIT	TEL
ELECTRIC LIGHT POLE	LP
POWER POLE	PP
SIGN POST	SP
SEWER INSPECTION PIT	SIP
SEWER VENT	SEWER
MANHOLE	MH
SEWER MANHOLE	SMH
STOP VALVE	SV
WATER HYDRANT	HYD
WATER METER	WM
GAS METER	GAS
STATE SURVEY MARK	SSM
ELECTRIC BOX	ELC

NOTE:

INFORMATION CONTAINED IN THIS PLAN IS THE COPYRIGHT OF TOTAL SURVEYING SOLUTIONS. THE USE OR DUPLICATION WITHOUT THE WRITTEN CONSENT OF TOTAL SURVEYING SOLUTIONS CONSTITUTES AN INFRINGEMENT OF COPYRIGHT.

REVISION No. REVISION DATE: COMMENT:

NASTASI & ASSOCIATES
CONSULTING CIVIL & STRUCTURAL ENGINEERS
ABN 45 533 326 056
HEAD OFFICE: UNIT 5, 1-3 WYFALLA PLACE, PRESTONS NSW 2170, PH: (02) 96072864 / 97895517
Q23: 11910 WYFALLA PLACE, NEWCASTLE, NEWCASTLE NSW 2315, PH: (02) 96072864 / 97895517
VIC: 1/ 50 KOTING PRESTONS, PH: (02) 96072864 / 97895517
EMAIL ADDRESS: ORDERS@NASTASIASSOCIATES.COM.AU / WEB SITE: WWW.NASTASIASSOCIATES.COM.AU
B: nastasiassociates.com.au W: www.nastasiassociates.com.au

LEGEND:

EB - EDGE OF BITUMEN
TB - TOP OF BANK
BB - BOTTOM OF BANK
WT - TOP OF WINDOW
WB - BOTTOM OF WINDOW
NS - NATURAL SURFACE

TG - TOP OF GUTTER
RR - ROOF RIDGE
FL - FLOOR LEVEL
INV - INVERT LEVEL
ELEC - ELECTRICAL PIT
Ø 4/S10/H16 - DIAMETER/SPREAD/HEIGHT

PLAN SHOWING DETAIL & LEVELS
OVER LOT 2 IN DP1111318

CLIENT: NATASI & ASSOCIATES CONSULTING ENGINEERS

PROJECT: DETAIL SURVEY

ADDRESS: 12-14 ZOUCR ROAD, DENHAM COURT

0 5 10 15 20 40m
BAR SCALE
PLOTTED SCALE 1:400 (A0 SIZE SHEET)

JOB No.: 191404

PLAN No.: 191404_A

DATE: 02/07/2019

DRAWN: TF

CHK: JV

LGA: LIVERPOOL

DATUM: AHD

SCALE: 1:400@A02

CONT. INTERVAL: 0.5m

SHEET 4 OF 4



TSS TOTAL SURVEYING SOLUTIONS
ARTARMON | CAMDEN | MANLY VALE