

# BANKSTOWN TOWN HALL LIBRARY

## CNR RICKARD RD & CHAPEL ST, BANKSTOWN

### STORMWATER DRAINAGE CONCEPT PLANS

#### LEGEND

##### CIVIL DRAINAGE SYMBOLS

	STW	STORMWATER DRAINAGE PIPE
	STWRM	STORMWATER RISING MAIN
		STORMWATER DRAINAGE CHANNEL
	CO	SUB SOIL DRAINAGE WITH CLEAN OUT
	SSRM	SUB SOIL RISING MAIN
	EB-LF	EARTH BANK LOW FLOW
	EB-HF	EARTH BANK HIGH FLOW
	EM	EXCAVATED MATERIAL
		FLUME
	DD	DIVERSION DRAIN
		DIVERSION DRAIN
	OF	OVERFLOW PATH
	OFD	OVERFLOW DRAIN
	CLD	CONCRETE LINED DRAIN
	RLD	ROCK LINED DRAIN
	TD	TABLE DRAIN
		V DRAIN (L)
		V DRAIN (R)
		SWALE or SPEED HUMP
		OVERLAND FLOW DIRECTIONAL ARROW
		OVERLAND FLOW PATH
	DP	DOWN PIPE
		PAVED AREA DRAIN.
		DROP TO OR RISE FROM
		RISE TO OR DROP FROM
		TEE DROP
		TEE RISE
	VERT	VERTICAL RISER IN DRAINAGE
		FLOW DIRECTIONAL ARROWS ON ALL PIPING SERVICES
		PIPELINE TERMINATED WITH BLANK FLANGE
		PIPELINE PLUGGED OFF
	CO	CLEAROUT
	F.P.	FLUSHING POINT
		NEW PIPE
		RISER
		SERVICE
		SIZE
		DROPPER
		NON-RETURN FLAP VALVE ON INSIDE FACE OF PIT AT ALL DOWN PIPES & SUB SOIL DRAINAGE LINES TO OSD SYSTEM

##### CIVIL ABBREVIATIONS

BWL	DRAINAGE LEVELS
IL	BOTTOM WATER LEVEL
OL	INVERT LEVEL
SL	OBVERT LEVEL
TWL	SURFACE LEVEL
	TOP WATER LEVEL
LD	GRATES & COVERS
MD	LIGHT DUTY CLASS 'B'
HD	MEDIUM DUTY CLASS 'C'
EHD	HEAVY DUTY CLASS 'D'
MP	EXTRA HEAVY DUTY CLASS 'E'
	MULTI PART COVER OR GRATE
CDS	PITS
DCP	CDS TECHNOLOGIES
DGGP	STORMWATER TRAPS
	DISCHARGE CONTROL PIT
GPT	DOUBLE GRATED GULLY PIT (CAST IRON)
JP	GROSS POLLUTANT TRAP
KEP	JUNCTION PIT
KEU	KERB ENTRY PIT
MPC	KERB ENTRY UNIT
MPG	MULTI PART COVER
SGGP	MULTI PART GRATE
SWP	SINGLE GRATED GULLY PIT (GMS)
	STORMWATER PIT
SS	DRAINAGE LINES
STRW	SUBSOIL DRAINAGE
STW	STORMWATER RISING MAIN
GD	STORMWATER DRAIN
OLD	AGEGRADED DRAIN
OLD	OPEN LINED DRAIN
OLD	OPEN UNLINED DRAIN
CO	FEATURES
DP	CLEAROUT
FP	DOWN PIPE
IO	FLUSHING POINT
OF	INSPECTION OPENING
RO	GUTTER OVERFLOW PIPE
DTU	RAINWATER OUTLET
	DRAINAGE TURNUP
OSD	OSD
PSD	ONSITE DETENTION
OF	PERMISSIBLE SITE DISCHARGE
SWMP	OVERFLOW PATH
ESCP	STORM WATER MANAGEMENT PLAN
	EROSION & SEDIMENT CONTROL PLAN
	OSD ABOVE GROUND
	KEP - KERB ENTRY PIT
	DOUBLE GRATED GULLY PIT
	JUNCTION PIT WITH COVER
	SURFACE INLET PIT (FLUSH/RAISED)
	SURFACE INLET PIT (DEPRESSED)
	GRATED TRENCH DRAIN
	PIT No.
	LINE No.

##### EROSION & SEDIMENTATION SYMBOLS

	B	FENCES
		BARRIER FENCE
	X	SEDIMENT FENCE
		SILT FENCE ON LEVEL
		SILT FENCE ON GRADE
	W	WIND FENCE
		BANKS
		DIVERSION CHANNEL/BANK
		LEVEL SPREADER
	EB	EARTH BANK
	EBLF	EARTH BANK LOW FLOW
	EBHF	EARTH BANK HIGH FLOW
	EM	EXCAVATED MATERIAL
		TRAPS
		GEOTEXTILE SEDIMENT TRAP
		CHECK DAMS (STRAW BALE OR ROCK)
		CONCRETE ENERGY DISSIPATOR
		STABILISED CONSTRUCTION SITE VEHICLE ENTRY/EXIT GRID
		SEDIMENT TRAP
		GEOTEXTILE FILTER BAGS OR SOCK

#### LEGEND

##### SURVEY & MAPPING SYMBOLS

		PROPERTY BOUNDARY
		EASEMENT
		FENCE OFF BOUNDARY
		FENCE ALONG BOUNDARY
		FENCE ON BOUNDARY
	*	STATE BOUNDARY
	X	COUNTY BOUNDARY
	.	PARISH BOUNDARY
	+++	SHIRE/MUNICIPAL BOUNDARY
	P	NATIONAL PARK BOUNDARY
	R	STATE RECREATION BOUNDARY
	:	STATE FOREST BOUNDARY
	*	TELSTRA EXCHANGE BOUNDARY
	RL 165.40	PROPOSED SURFACE LEVEL

##### GENERAL ABBREVIATIONS

CTS	CENTERS
CL	CENTRE LINE
DIA	DIAMETER
DHR	DEPARTMENT OF MAIN ROADS
DWG	DRAWING
EX	EXISTING
GALV	GALVANIZED
HD GALV	HOT DIPED GALVANIZED
ID	INTERNAL DIAMETER
L.O.C.	LIMIT OF CONTRACT
MAX	MAXIMUM
MIN	MINIMUM
NB	NOMINAL BORE
N.I.C.	NOT IN CONTRACT
No.	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
REV	REVISION
RTA	ROADS AND TRAFFIC AUTHORITY
SO	SQUARE
SRA	STATE RAIL AUTHORITY
STD	STANDARD
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL

##### LEVELS ABBREVIATIONS

CL	CEILING LEVEL
FFL	FINISHED FLOOR LEVEL
FGL	FINISHED GROUND LEVEL
GL	EXISTING GROUND LEVEL
HL	HIGH LEVEL
HP	HIGH POINT
LL	LOW LEVEL
ML	MID LEVEL
NS	NATURAL SURFACE LEVEL
PL	PLATFORM LEVEL
RL	REDUCED LEVEL
US	UNDER SIDE
USFL	UNDERSIDE FLOOR

##### SURVEY ABBREVIATIONS

AHD	AUSTRALIAN HEIGHT DATUM
BK	BOTTOM OF KERB
BM	BENCH MARK
CL	CENTRE LINE
D.E.	DRAINAGE EASEMENT
DH&W	DRILL HOLE & WING
FD	FOUND
INV	INVERT
K & G	KERB & GUTTER
R.O.W.	RIGHT OF CARRIAGEWAY
SSM	STATE SURVEY MARK
TK	TOP OF KERB

##### WATER & SEWER ABBREVIATIONS

AC	ACCESS CHAMBER
BT	BOUNDARY TRAP
GM	GRAVITY MAIN
HYD	HYDRANT
IO	INSPECTION OUTLET
LH	LAMP HOLE
MH	MAN HOLE
PS	PUMP STATION
RM	RISING MAIN
SV	STOP VALVE
SWW	SYDNEY WATER WATERMAIN
WM	WATER METER

##### WATER & SEWER SYMBOLS

	PROPOSED SYDNEY WATER SEWER
	FUTURE SYDNEY WATER SEWER
	EXISTING SYDNEY WATER SEWER
	EXISTING SYDNEY WATER SEWER
	EXISTING SYDNEY WATER SEWER
	EXISTING SYDNEY WATER SEWER

##### SERVICES & UTILITIES SYMBOLS

A	AIR
C	CABLES
D	DRAINS
E	ELECTRICAL
LV	LOW VOLTAGE
HV	HIGH VOLTAGE
V	TRANSMISSION POWER LINES
EFF	COMMON EFFLUENT
ERM	EFFLUENT RISING MAIN
F	FUEL
G	GAS
G(HP)	GAS HIGH PRESSURE
G(MP)	GAS MEDIUM PRESSURE
G(LP)	GAS LOW PRESSURE
GAS	GAS
NG	NATURAL GAS
H	HYDRAULIC POWER
I	IRRIGATION
RTA	RTA ROADS & TRAFFIC AUTHORITY
SRA	SRA STATE RAIL SERVICE
S	SEWER
SRM	SEWER RISING MAIN
T	TELECOMMUNICATIONS TELSTRA
OF	OPTICAL FIBRE OF
SMOF	OPTICAL FIBRE CABLE SMOF
OP	OPTUS
OCC	OVERHEAD COMMUNICATION CABLE
W	WATER
WRM	WATER RISING MAIN
MS	MISCELLANEOUS SERVICE
X	X
Y	Y
Z	Z
	DRAINAGE CULVERTS & PIPE SIZES GREATER THAN & INCLUDING 450 DIA TO BE SHOWN IN FULL WIDTH

NOTE:-  
'e' ON SERVICE LINE REPRESENTS EXISTING SERVICE OR THE USE OF LOWER CASE LETTER.  
'x' ON SERVICE LINE REPRESENTS SERVICE TO BE ABANDONED.

##### DRAFTING SYMBOLS

	AMENDMENT No.
	SCALE BARS
	SCALE 1:250
	SCALE 1:500
	SECTION No.
	REFERENCE DRAWING

##### MATERIALS

Br	BRASS
CI	CAST IRON
CICL	CAST IRON CEMENT LINED
CONC	CONCRETE
CP	CHROMIUM PLATED
Cu	COPPER
DICL	DUCTILE IRON CEMENT LINED
FRC	FIBRE REINFORCED CEMENT GALVANISED
GMS	MILD STEEL
MS	MILD STEEL
NY	NYLON
PE	POLYETHYLENE
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RHS	RECTANGULAR HOLLOW SECTION
SS	STAINLESS STEEL

##### CATCHMENT SYMBOLS

	PIT CATCHMENT
	LINE CATCHMENT
	MAJOR CATCHMENT
	SUB CATCHMENT
	LIMIT OF CATCHMENT

##### CATCHMENT ABBREVIATIONS

P(I)	PAVED CATCHMENT AREA
R(I)	ROOFED CATCHMENT AREA
A(I)	LANDSCAPE CATCHMENT AREA
T(I)	TERRACE CATCHMENT AREA
ARI	AVERAGE RECURRENCE INTERVAL
CA	CATCHMENT AREA
Ha	HECTARE
L/s	LITRES PER SECOND (VELOCITY)
m/s	METRES PER SECOND (VELOCITY)
CUMECs	CUBIC METRES PER SECOND
Q	QUANTITY OF FLOW

##### DRAWING LIST

CD-01	TITLE SHEET, DRAWING LIST, ABBREVIATIONS & LEGEND
CD-02	SPECIFICATION NOTES
CD-03	BASEMENT FLOOR STORMWATER DRAINAGE CONCEPT PLAN
CD-04	GROUND FLOOR STORMWATER DRAINAGE CONCEPT PLAN
CD-05	ROOF PLAN STORMWATER DRAINAGE CONCEPT PLAN

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ISSUE FOR DEVELOPMENT APPLICATION

TITLE:  
TITLE SHEET, DRAWING LIST,  
ABBREVIATIONS & LEGEND

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