UTILITIES LEGEND

EXISTING UTILITIES COMPILED THROUGH THE DIAL BEFORE YOU DIG SERVICE	EXISTING UTILITIES SURVEYED ON SITE	EXISTING UTILITIES TO BE EXHUMED OR ABANDONED	NEW UTILITIES	
Ø375 eSW Ø375 eSW	Ø375 zSW Ø375 zSW	Ø375 SW Ø375 SW	Ø375 STORMWATER LINE WITH R-SUMP, PLANTATION SUMP, MANHOLE AND HEADWALL
		Ø300 SW Ø300 SW	Ø300 STORMWATER LINE WITH, GRATED SUMP, KISS SUMP AND PIPE END CAP
		IR HER SS SS SS	SUBSOIL LINE WITH HIGH END RISER INTERMEDIATE RISER AND HEAD WALL
Ø150 eW Ø150 eW	Ø150 zW Ø150 zW	H SV TW Ø150 W Ø150 W	Ø150 WATER MAIN WITH HYDRANT, STOP VALVE, THRUST WALL AND PIPE END CAP
		SC TS Ø150 W Ø150 W CTB PTB	Ø150 WATER MAIN WITH WATER METER, TIE AND STOP COCK, CONCRETE THRUST BLOCK, TRENCH STOP AND CONCRETE THRUST PIER
Ø150 eS Ø150 eS	Ø150 zS Ø150 zS	SCOUR STOP Ø150 S Ø150 S	Ø150 SEWER MAIN WITH MANHOLE, SCOUR STOP AND PIPE END CAP
eG eG eG	zG zG zG	G G G	GAS MAIN
eAAPT eAAPT	zAAPT zAAPT	AAPT AAPT	AAPT CONDUIT
eICON eICON	zICON zICON	ICON ICON	ICON CONDUIT
eIINET eIINET	zIINET zIINET	IINET IINET	IINET CONDUIT
eCOMM eCOMM	zCOMM zCOMM	COMM COMM	MISCELLANEOUS COMMUNICATIONS CONDUIT
eNBN eNBN	zNBN zNBN	NBN NBN	NBN CONDUIT
eNGEN eNGEN	zNGEN zNGEN	NGEN NGEN	NEXTGEN CONDUIT
eOF eOF eOF	zOF zOF zOF	OF OF OF	OPTIC FIBRE CONDUIT
eOPT eOPT	zOPT zOPT	OPT OPT	OPTUS CONDUIT
eSSICT eSSICT	zSSICT zSSICT	SSICT SSICT	SSICT CONDUIT
eTEL eTEL	zTEL zTEL	TEL TEL	TELSTRA CONDUIT
eTR eTR eTR	zTR zTR zTR	TR TR TR	TRANSACT CONDUIT
eVF eVF eVF	zVF zVF zVF	VF VF VF	VODAFONE CONDUIT
eHV eHV eHV	zHV zHV zHV	HV HV HV	ELECTRICITY ABOVE GROUND - HIGH VOLTAGE
eLV eLV eLV	zLV zLV zLV	LV LV LV	ELECTRICITY ABOVE GROUND - LOW VOLTAGE
eHV eHV eHV	zHV zHV zHV	HV HV HV	ELECTRICITY BELOW GROUND - HIGH VOLTAGE
eLV eLV eLV	zLV zLV zLV	LV LV LV	ELECTRICITY BELOW GROUND - LOW VOLTAGE
LT LT LT		LT LT	STREET LIGHT CONDUIT WITH PEDESTRIAN STREET LIGHT AND SINGLE REACH STREET COLUMN
			UTILITY EASEMENT

UTILITIES MAY BE SHOWN AS FINE BLACK FOR PROPOSED AND GREY FOR EXISTING

GENERAL LEGEND

EXISTING	EXISTING TO BE REMOVED	NEW	
			BLOCK BOUNDARY
			TREE

NOTATION

AL	ALIGNMENT
BK	BARRIER KERB
CH	CHAINAGE
CK	CASTELLATED KERB
CL	COVER LEVEL
CTB	CONCRETE THRUST BLOCK
CT	CONCRETE THRUST PIER
DP	DOWN PIPE
FSL	FINISHED SURFACE LEVEL
FK	FLUSH KERB
H	HYDRANT
HER	HIGH END RISER
HW	HEAD WALL
IL	INVERT LEVEL
IP	INTERSECTION POINT
IR	INTERMEDIATE RISER
K4A	k4A KERB
KR	KERB RETURN
KG	KERB AND GUTTER
KO	KERB ONLY
MH	MANHOLE
MK	MOUNTABLE KERB
MKG	MOUNTABLE KERB AND GUTTER
MS	MOWING STRIP
OCI	OPEN CONCRETE INVERT
PC	PRAM CROSSING
PTB	PIER THRUST BLOCK
PR	PRAM RAMP
RL	REDUCED LEVEL
ROCI	REINFORCED OPEN CONCRETE INVERT
RVC	REINFORCED VEHICLE CROSSING
SC	STOP COCK
SS	SUBSOIL
SV	STOP VALVE
TP	TANGENT POINT
TS	TRENCH STOP
TW	THRUST WALL
VC	VEHICULAR CROSSING

GENERAL NOTES

1. THE CONTRACTOR MUST COMPLY WITH CURRENT WORK AND HEALTH AND SAFETY LEGISLATION, REGULATIONS AND CODES OF PRACTICE.
2. THE CONTRACTOR MUST SECURE ALL PERMITS. ARRANGE ALL CLEARANCES AND PAY ALL FEES REQUIRED TO COMPLETE THE PROJECT BEFORE COMMENCING WORK OR PRIOR TO THEM CAUSING DELAY TO THE PROJECT.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION WORKS BEING CARRIED OUT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING LEVELS WITHIN THE SITE PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPANCIES SHALL BE REFERRED TO THE DESIGN CONSULTANT A MINIMUM 7 DAYS PRIOR TO COMMENCEMENT OF ASSOCIATED WORKS.
5. THE CONTRACTOR SHALL ENSURE DISTURBED SURFACES OUTSIDE THE GENERAL LIMIT OF WORK IS REINSTATED AT THE CONTRACTORS EXPENSE, TO THE SUPERINTENDENTS SATISFACTION, THESE SURFACES INCLUDE BUT ARE NOT LIMITED TO ROAD PAVEMENTS, KERBS , VERGE PAVING OR GRASSING, PEDESTRIAN FOOTPATHS AND DRIVEWAYS.
6. THE CONTRACTOR IS RESPONSIBLE FOR MAKING SMOOTH CONNECTION TO EXISTING.
7. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL TEMPORARY EARTHWORKS IN A STABLE CONDITION DURING CONSTRUCTION. TEMPORARY SHORING AND BATTERING MUST BE IN ACCORDANCE WITH AS3798
8. THE CONTRACTOR SHALL MAKE PROVISIONS FOR BOTH VEHICULAR AND PEDESTRIAN TRAFFIC AND SITE VISITORS. THE CONTRACTOR MUST ENSURE SAFE ACCESS FOR NON CONSTRUCTION PEOPLE.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION OF ALL NECESSARY TEMPORARY TRAFFIC MANAGEMENT PLANS APPROVED IN ACCORDANCE WITH AS1742.3 AND RELEVANT AUTHORITY REQUIREMENTS.
10. THE CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION OF ALL NECESSARY POLLUTION CONTROL PLANS AND THEIR APPROVAL.
11. THE CONTRACTOR SHALL ENSURE ALL MATERIALS AND WORKMANSHIP IS IN ACCORDANCE WITH RELEVANT CURRENT CODES, STANDARDS, CONTRACT REQUIREMENTS AND AUTHORITY REQUIREMENTS.
12. THE CONTRACTOR SHALL LIAISE WITH ALL ADJACENT CONTRACTS TO ENSURE ALL ALIGNMENTS AND LEVELS OF NEW OR RELOCATED UTILITIES ARE COMPATIBLE.
13. THE INFORMATION PROVIDED IN THESE DRAWINGS PREPARED BY SELLICK CONSULTANTS IS SOLELY FOR THE USE OF THE RECIPIENT. SELLICK CONSULTANTS HAS NO DUTY OF CARE OR ACCEPTS ANY RESPONSIBILITY FOR A THIRD PARTY WHO MAY RELY UPON THESE DOCUMENTS FOR ANY PURPOSE.
14. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER ENGINEERING/ ARCHITECTURAL DRAWINGS AND SPECIFICATIONS OR OTHER WRITTEN INSTRUCTION THAT MAY BE ISSUED DURING THE TIME OF THE CONTRACT.
15. BLOCK BOUNDARIES SHOWN ON THESE DRAWINGS ARE IN ACCORDANCE WITH SUPPLIED DIGITAL DATA OR SURVEYED.
16. DO NOT SCALE THESE DRAWINGS.
17. ALL DIMENSIONS ARE IN MILLIMETERS OR METERS.
18. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
19. ORIGIN OF SURVEYED AND DESIGN COORDINATES - NOTED CO-ORDINATE SYSTEM

UTILITIES NOTES

1. THE UTILITIES INDICATED ON THESE DRAWINGS WERE COMPILED FROM DIGITAL PLANS ISSUED BY UTILITY AUTHORITIES VIA THE DIAL BEFORE YOU DIG SERVICE. THE INFORMATION PROVIDED WAS PREPARED SOLELY FOR THE USE OF THE AUTHORITY AND IS NOT NECESSARILY ACCURATE.
2. BEFORE COMMENCING WORK THE CONTRACTOR SHALL CONTACT THE RELEVANT UTILITY AUTHORITIES AND VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES ON SITE AND OBTAIN NECESSARY CLEARANCES FOR POTHOLING AND CONSTRUCTION. DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND THE PHYSICAL ONSITE CONDITIONS MUST BE REPORTED BACK TO THE DESIGN CONSULTANT A MINIMUM 7 DAYS PRIOR TO COMMENCEMENT OF WORKS.
3. BEFORE COMMENCING EXCAVATION THE CONTRACTOR SHALL EXPOSE ALL CROSSINGS AND CONNECTIONS POINTS ON EXISTING UNDERGROUND UTILITIES. THE LEVELS OF CONNECTION POINTS AND LEVELS OF EACH CROSSING SHALL BE SURVEYED AND ANY VARIATIONS OF THE LEVELS GIVEN OR ANY DIFFICULTIES IN BEING ABLE TO ACHIEVE THE REQUIRED GRADES OF NEW PIPELINES SHALL BE REPORTED TO THE SUPERINTENDENT. A MINIMUM OF 7 DAYS PRIOR TO THE COMMENCEMENT OF WORKS
4. BEFORE COMMENCING WORK THE CONTRACTOR SHALL ARRANGE THE RELOCATION OR ADJUSTMENT OF A UTILITY SERVICE TO THE APPROVAL OF THE RELEVANT UTILITY AUTHORITY.
5. BEFORE COMMENCING WORK THE CONTRACTOR SHALL LOCATE AND MARK ALL UTILITIES WITHIN THE EXTENT OF WORKS.
6. IF AN UNDERGROUND SERVICE IS DAMAGED DURING CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT AND THE RELEVANT UTILITY AUTHORITY IMMEDIATELY. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT NO EXTRA COST TO THE PRINCIPLE.

ICON WATER NOTES

1. ALL WORK ON ICON WATER WATER SUPPLY AND SEWER MAINS TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT STANDARDS. REFER TO WWW.ICONWATER.COM.AU FOR THE CURRENT RELEASE OF STANDARDS
   - WSA-02 'GRAVITY SEWERAGE CODE OF AUSTRALIA'
   - STD-SPE-G-011 'ICON WATER SUPPLEMENT TO WSA-02'
   - WSA-03 'WATER SUPPLY CODE OF AUSTRALIA'
   - STD-SPE-G-012 'ICON WATER SUPPLEMENT TO WSA-03'
   - STD-SPE-M-006 'REQUIREMENTS FOR PROPERTY SERVICE CONNECTIONS'
2. CONNECTIONS AND OR DISCONNECTIONS OF SEWER AND WATER AT THE MAIN TO BE MADE BY ICON WATER AT CONTRACTOR'S EXPENSE. THE CONTRACTOR IS TO EXPOSE THE MAIN AT THE LOCATION OF THE CONNECTION/DISCONNECTION IN PREPARATION FOR THE WORK BY ICON WATER. ALL EXCAVATION IN THE VICINITY OF MAINS IS TO BE CARRIED OUT BY HAND.
3. THE CONTRACTOR MUST VISIT THE SITE OF WORKS BEFORE TENDERING AND MAKE ALLOWANCES IN THEIR TENDER FOR ALL TOPOGRAPHIC CONSTRAINTS AFFECTING THE EXECUTION OF THE WORKS AND THE RESTORATION OF THE SITE.
4. ALTHOUGH THE POSITIONS OF EXISTING UNDERGROUND SERVICES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS, THE CONTRACTOR SHALL CONFIRM THE DEPTH AND LOCATION OF ALL SERVICES ON SITE BEFORE COMMENCING EXCAVATIONS. CONTRACTOR TO ADVISE DESIGN ENGINEER IF NOT IN ACCORDANCE WITH THE PLAN.
5. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD). ALL COORDINATES ARE BASED ON NOTED CO-ORDINATE SYSTEM.
6. THE CONTRACTOR MUST SECURE ALL PERMITS, ARRANGE ALL CLEARANCES AND PAY ALL FEES REQUIRED TO COMPLETE THE PROJECT BEFORE COMMENCING WORK.
7. WORK AS EXECUTED DRAWINGS, TIE BOOK AND DEPOSITED PLAN MUST BE SUBMITTED BEFORE CONNECTION.
8. ANY NON-METALLIC WATER SERVICE IS TO BE INSTALLED WITH TRACER WIRE AND TESTED.
9. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF AT AN APPROVED SPOIL AREA.
10. THE CONTRACTOR SHALL REINSTATE ALL DISTURBED SURFACES TO MATCH EXISTING.
11. THE CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION OF ALL NECESSARY TEMPORARY TRAFFIC MANAGEMENT PLANS AND THEIR APPROVAL.
12. CONTRACTOR TO CONFIRM DEPTH OF SEWER AND STORMWATER TIE POINTS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ADVISE DESIGN ENGINEER IF NOT IN ACCORDANCE WITH PLAN.
13. ANY DEVIATION OF PIPE MATERIAL TO BE PROPOSED TO ENGINEER PRIOR TO INSTALLATION.
14. FOR ALL ICON CONNECTIONS THE CONTRACTOR SHALL SUPPLY ALL PIPE AND FITTING SIZES DN300 OR LARGER. PIPE AND FITTING MATERIALS ARE TO BE SUBMITTED TO ICON WATER PRIOR TO WORKS FOR APPROVAL.
15. SULPHATE RESISTING (SR) CONCRETE IS TO BE USED ON ALL SEWER MAINTENANCE STRUCTURES.

SEWER EXPLANATIONS

PIPE INFORMATION BOX

601.005	UPSTREAM INVERT LEVEL
Ø150	PIPE INTERNAL DIAMETER
uPVC	PIPE MATERIAL RCP,VC OR PVC
13.5m	PIPE LENGTH
7.62%	PIPE GRADE
600.022	DOWNSTREAM INVERT LEVEL

SEWER STRUCTURE ID

S2-1 SEWER LINE S2, SEWER STRUCTURE '1'

File Name P:\2022\220392_B9-S132-Casey\04_CAD\4.2_Drawings\CIV\220392-drg-civ-gn-0002.dwg

Rev	Description	Date	Drawn By
C	FOR DEVELOPMENT APPROVAL	23.09.2022	RT
B	FOR DEVELOPMENT APPROVAL	21.09.2022	RT
A	FOR DEVELOPMENT APPROVAL	16.09.2022	RT

Scales

North

sellick consultants Est. 1965
www.sellickconsultants.com.au

Client Logo

Worth Street Pty Ltd

KGCAPITOL

Status: NOT FOR CONSTRUCTION

Original Size	A1	Drawn By RT	Drafting Check AM
Date Plotted	23-Sep-22	Designed By LT	Design Check
Coordinate System	STROMLO GRID	Approved AM	Approved Date
Height Datum	AHD	Approved Signature	

Project Name and Location: PROPOSED MIXED USE DEVELOPMENT
BLOCK 9 SECTION 132 CASEY

Drawing Title: GENERAL NOTES AND LEGEND

Project Number	Type	Discipline	Sub-Discipline	Drg No.	Rev
220392	DRG	CIV	GN	0002	C