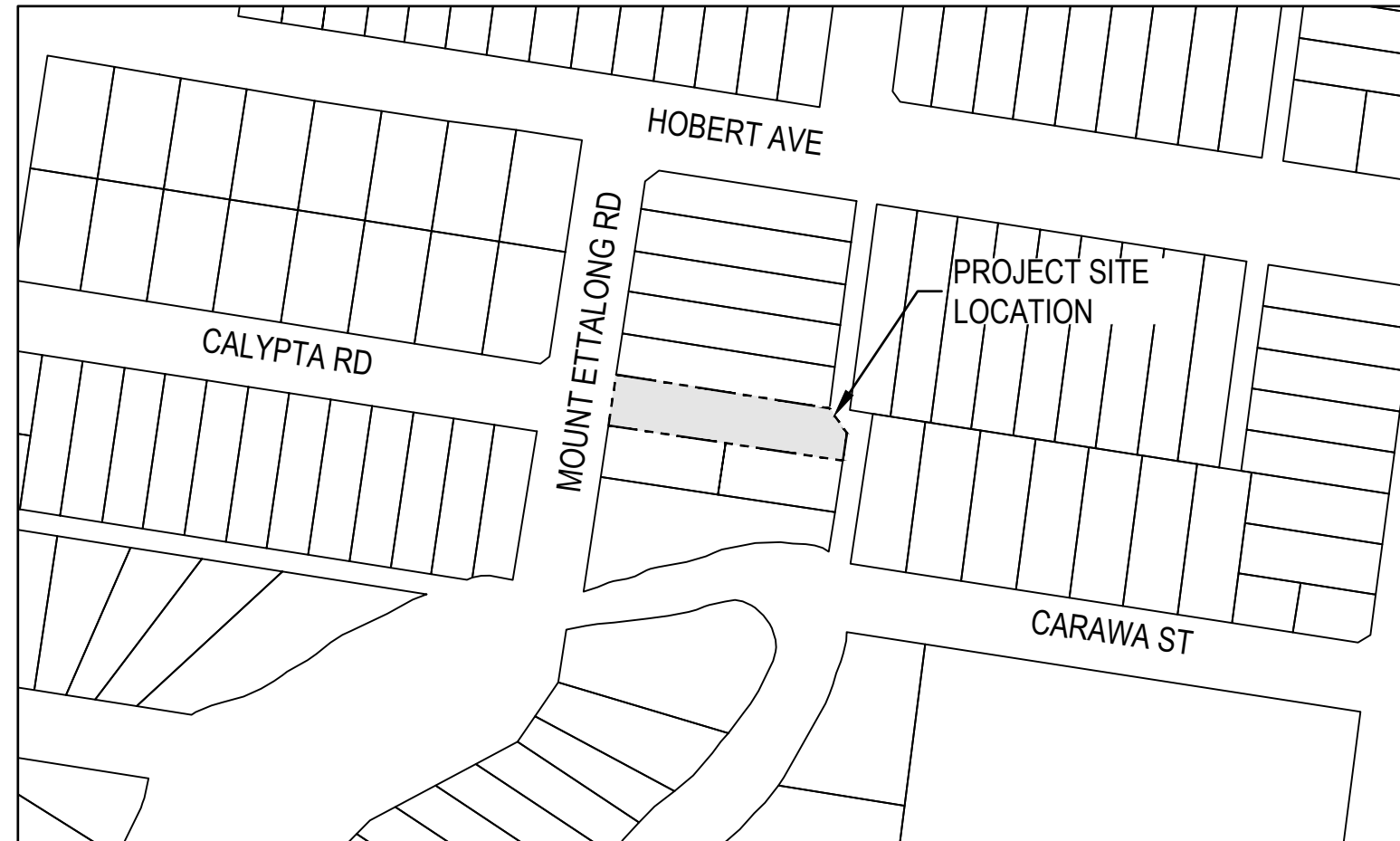




STORMWATER WORKS for 12 MOUNT ETTALONG ROAD UMINA BEACH NSW 2257

Prepared by
WALLACE INFRASTRUCTURE DESIGN PTY LTD



LOCATION PLAN
(NTS)

DWG No.	DRAWING DESCRIPTION	REV
C01.01	LEGEND, DRAWING SCHEDULE AND LOCATION PLAN	A
C02.01	GENERAL NOTES	A
C04.01	CIVIL DETAIL PLAN	A
C04.02	STORMWATER LONGITUDINAL SECTION	A
C05.01	STORMWATER PIT DETAILS	A

ABBREVIATIONS

A/G	ABOVE GROUND	IFC	ISSUED FOR CONSTRUCTION	SV	STOP VALVE
AGG	AGGREGATE	IFCR	ISSUED FOR CLIENT REVIEW	SW	STORMWATER
ARCH	ARCHITECT	IL	INVERT LEVEL	SWP	STORMWATER PIT
ASP	ASPHALT	IO	INSPECTION OPENING	THK	THICKNESS
BM	BENCHMARK	KIP	KERB INLET PIT	TJ	TRAVERSE JOINT
CAD	COMPUTER AIDED DRAFTING	L	LENGTH	TOW	TOP OF WALL
C-C	CENTRE TO CENTRE	LP	LAMP POST (SURVEY)	TW	TRADE WASTE
CH	CHAINAGE	MAX	MAXIMUM	TYP	TYPICAL
CI	CAST IRON	MC	MASS CONCRETE	U/G	UNDERGROUND
CJ	CONSTRUCTION JOINT	MH	MANHOLE	UNO	UNLESS NOTED OTHERWISE
CL	COVER LEVEL or CENTRE LINE	MIN	MINIMUM	U/S	UPSTREAM
CO	CLEAN OUT (SUBSOIL)	MISC	MISCELLANEOUS	VC	VITRIFIED CLAY PIPE
COG	CHANGE OF GRADE	N	NORTH	VP	VENT PIPE
CONC	CONCRETE	NRV	NON RETURN VALVE	VR	VERTICAL RISER
CTRL	CONTROL	NTS	NOT TO SCALE	W	WIDTH
CR	CROWN	OD	OUTER DIAMETER	WC	WATER CLOSET
CTS	CENTRES	OF	OVERFLOW	WL	WATER LEVEL
D	DEPTH	OH	OVERHEAD	WM	WATER METER
DIA	DIAMETER	PP	POWER POLE	WS	WASTE STACK
DP	DOWNPIPE	PPE	PERSONAL PROTECTIVE EQUIP.		
DRG	DRAWING	PVC	POLYVINYLCHLORIDE		
D/S	DOWN STREAM	PV	PRESSURE VENT		
DTM	DIGITAL TERRAIN MODEL	PVP	PRESSURE VENT PIPE		
EB	EDGE BITUMIN	QA	QUALITY ANALYSIS		
EX	EXISTING	QTY	QUANTITY		
ESL	EXISTING SURFACE LEVEL	R	RADIUS		
FH	FIRE HYDRANT	RC	REINFORCED CONCRETE		
FHR	FIRE HOSE REEL	REV	REVISION		
FFL	FINISHED FLOOR LEVEL	RL	REDUCED LEVEL		
FGL	FINISHED GROUND LEVEL	RW	RETAINING WALL		
FSL	FINISHED SURFACE LEVEL	SFW	SEALED FLOOR WASTE		
FW	FLOOR WASTE	SL	SURFACE LEVEL		
GA	GENERAL ARRANGEMENT	SMH	SEWER MANHOLE		
GI	GALVANISED IRON	SMV	SEWER MAIN VENT		
GFL	GARAGE FINISHED LEVEL	SOD	SIDE OUTLET DRAIN		
IC	INSPECTION CHAMBER	S/S	STAINLESS STEEL		
ID	INSIDE DIAMETER	STD	STANDARD		

LINETYPES & SYMBOLS

GENERAL

SITE BOUNDARY	----
CADASTRAL BOUNDARY	----
EASEMENT BOUNDARY	----
EXISTING FEATURES	
DRAINAGE PIPE	----
CONTOURS	---30---
STORMWATER PIPE	----
STORMWATER PIT	■
ELECTRICAL CABLE - U/G	-----E-----E-----
ELECTRICAL CABLE - O/H	-----OHE-----
EXISTING SEWER PIPE	-----S-----S-----
EXISTING WATER	-----W-----W-----
EXISTING WATER (HYDRANT)	●
EXISTING WATER (STOP VALVE)	X
EXISTING TELECOM	-----OFC-----
COMMUNICATIONS PIT	■
EXISTING GAS	-----G-----G-----
EXISTING BUILDING	----
TREES / SHRUBS	○ ○ ○ ○
PROPOSED - BUILDING (INDICATIVE ONLY)	
DWELLING NUMBER	UNIT 01
FINISHED FLOOR LEVEL	FFL 5.00
BUILDING FOOTPRINT	----

PROPOSED - UTILITIES

SEWER	----
WATER	----
COMMUNICATIONS	---T---T---
COMMUNICATIONS - OPTIC FIBRE	---OFC---OFC---
COMMUNICATIONS PIT	■
GAS	---G---G---
ELECTRICAL CABLE - U/G	-----E-----E-----
ELECTRICAL CABLE - O/H	-----OHE-----OHE-----
REDUNDANT	· X · X · X · X · X · X ·
PROPOSED - EROSION AND SEDIMENT CONTROL	
SITE EXCLUSION FENCE	— [X] — [X] — [X] —
SEDIMENT FENCE	— [] — [] — [] —
DIVERSION DRAIN	— > > > —
STABLISED SITE ACCESS	■
MATERIAL STOCKPILE	■
SLOPE DIRECTION	→
GEOTEXTILE INLET FILTER	■
MESH AND GRAVEL INLET FILTER	■
SANDBAG / HAY BALES	■
PROPOSED CONTOURS	
MAJOR CONTOUR INTERVAL	— 10 —
MINOR CONTOUR INTERVAL	----

PROPOSED - STORMWATER

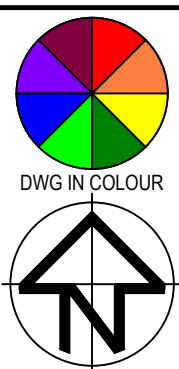
SW PIPE (INCL. DIA/GRADE/LENGTH)	ØXXXmm uPVC X.X% GRADE, X.XXm
SW PIPE - CHARGED (INCL. DIA/GRADE/LENGTH)	ØXXXmm uPVC CHARGE X.X% GRADE, X.XXm
SW PIT - GRATED / JUNCTION	■
SW - KERB INLET PIT (INCLUDING LINTEL)	■
RAINWATER/REUSE TANK	○ OR ■
GROSS POLLUTANT TRAP	■ GPT
GRATED DRAIN	■
INFILTRATION TRENCH	■
HEADWALL	■
SUBSOIL	→ → →
SW SWALE	→ → →
PIPE RISER	○ XX
PIPE DROPPER	○ XX
OVERLAND FLOW PATH	→
SW PIT NUMBER	?
SW CATCHMENT (NUMBER / AREA IN ha)	XX XXXX

PROPOSED - CIVIL

CONCRETE	■
ASPHALTIC CONCRETE	■
SAND	■
EARTH	■
RIP RAP	■
BUILDING / STRUCTURES	■
TIMBER	■
BLOCK PAVERS	■
RETAINING WALL	■
KERB RAMP	■
VEHICULAR CROSSING	■
FENCE	○ ○ ○ ○
BATTER	■
BOLLARD - TYPE 1 (FIXED)	● B-T1
BOLLARD - TYPE 2 (REMOVABLE)	● B-T2
LINEMARKING - CHEVRON	■
EXPANSION JOINT	— EJ —
TRAVERSE JOINT	--- TJ ---
CONTROL JOINT	----- CJ -----
FINISHED GRADE LEVELS	25.758
EXISTING GRADE LEVELS	25.710

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DESIGN INTENT AND SCOPE OF WORKS
REQUIRED FOR THE INSTALLATION OF SERVICES
AS DETAILED, AND PERTAINED WITHIN THE
SPECIFICATION AND SHOULD BE READ IN
CONJUNCTION WITH THE ARCHITECTURAL
SPECIFICATION, ASSOCIATED SPECIFICATION,
CODES AND STANDARDS. ALL DIMENSIONS,
LEVELS AND EXISTING SERVICES SHALL BE
INVESTIGATED AND CONFIRMED ON SITE BY THE
SUBCONTRACTOR AND BUILDER PRIOR TO THE
COMMENCEMENT OF ANY WORKS.



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REV	DESCRIPTION	DATE	APPVD	ENDOD
A	\$4.55 ISSUE	10.06.26	S.S.	-

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PROJECT:

STORMWATER WORKS for
LOT 1, DP 221482
12 MOUNT ETTALONG ROAD
UMINA BEACH NSW 2257

DRAWING TITLE:

CIVIL SERVICES
LEGEND, DRAWING SCHEDULE
AND LOCATION PLAN

DRAWING STATUS

PRELIMINARY

SCALE:		ORIG. SIZE	
N.T.S.		A1	
DRAWN	DESIGNED	CHECKED	APPROVED
DB	SS	SS	SS
PROJECT No.		DRAWING No.	
26156		C01.01	
		REV	
		A	

GENERAL NOTES

1. ALL CONSTRUCTION WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S ENGINEERING REQUIREMENTS FOR DEVELOPMENTS.
2. ALL DIMENSIONS, EASEMENTS AND LOTS SUBJECT TO REGISTRATION OF DEPOSITED PLAN.
3. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND CONSULTANT'S DRAWINGS AND SPECIFICATIONS, AND OTHER WRITTEN REPORTS (e.g GEOTECHNICAL, ARBORIST, ENVIRONMENTAL, ETC.). ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH ANY WORKS.
4. ALL LEVELS SHALL BE OBTAINED FROM ESTABLISHED BENCH MARKS AS DIRECTED BY THE SUPERVISOR.
5. THE DEVELOPER, SHALL ENSURE ALL ASSOCIATED DOCUMENTATION (GEOTECHNICAL, LANDSCAPE, ARCHITECTURAL, ELECTRICAL, TELECOM, GAS ETC.) HAS BEEN APPROVED FOR CONSTRUCTION BEFORE COMMENCING ANY WORKS.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION, PROTECTION AND ADJUSTMENT TO ALL IN GROUND AND ABOVE GROUND SERVICES. SEE HUNTER WATER'S NOTICE OF REQUIREMENTS.
7. EROSION CONTROL MEASURES, DEVICES, SILT TRAPS. ETC. ARE TO BE INSTALLED BEFORE ANY SITE DISTURBANCE IN ACCORDANCE WITH COUNCIL INSPECTORS REQUIREMENTS AND SITE SEDIMENTATION AND EROSION CONTROL PLANS.
8. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ALL WORKS ARE CARRIED OUT IN ACCORDANCE WITH THE WORK HEALTH SAFETY ACT.
9. VEHICULAR ACCESS AND ALL SERVICES ARE TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION WORKS.
10. ALL WASTE OR DEMOLISHED MATERIALS SHALL BE DISPOSED OF OFF SITE TO A COUNCIL APPROVED SITE. ALL FEES AND CHARGES SHALL BE INCLUDED IN THE CONTRACT SUM.
11. CONSTRUCTION VIBRATION TO COMPLY WITH AS2760.1-2004 AND/OR NSW DEPT OF ENVIRONMENT AND CONSERVATION NOISE REQUIREMENTS
12. EMISSIONS FROM SITE ARE NOT TO INTERFERE WITH THE AMENITY OF THE NEIGHBORHOOD.
13. NOISE EMISSIONS ARE TO COMPLY WITH NSW EPA NOISE CONTROL MANUAL. TIME RESTRICTIONS APPLY TO CONSTRUCTION WORKS AS FOLLOWS: 7AM TO 6PM MON-FRI; 8AM TO 1PM SAT.
14. TREES & SHRUBS WHICH ARE FELLED SHALL BE SALVAGED FOR RE-USE, EITHER IN LOG FORM, OR AS A WOODCHIP MULCH FOR EROSION CONTROL AND/OR SITE REHABILITATION. NON-SALVAGEABLE MATERIAL SUCH AS ROOTS & STUMPS SHALL BE DISPOSED OF IN AN APPROVED MANNER.
15. 'ESCP' REFERS TO EROSION AND SEDIMENT CONTROL PLAN, 'SWMP' REFERS TO SOIL AND WATER MANAGEMENT PLAN, AND, 'ESC' REFERS TO EROSION AND SEDIMENT CONTROL.
16. SEDIMENT, INCLUDES, BUT IS NOT LIMITED TO, CLAY, SILT, SAND, GRAVEL, SOIL, MUD, CEMENT AND CERAMIC WASTE.
17. ANY REFERENCE TO THE BLUE BOOK REFERS TO "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION", LANDCOM, 2004.
18. ANY REFERENCE TO THE IECA WHITE BOOKS (2008) REFERS TO IECA 2008, "BEST PRACTICE EROSION AND SEDIMENT CONTROL". BOOKS 1-6. INTERNATIONAL EROSION CONTROL ASSOCIATION (AUSTRALASIA), PICTON, NSW.
19. ANY MATERIAL DEPOSITED IN ANY CONSERVATION AREA FROM WORKS ASSOCIATED WITH THE DEVELOPMENT SHALL BE REMOVED IMMEDIATELY BY MEASURES INVOLVING MINIMAL GROUND AND/OR VEGETATION DISTURBANCES AND NO MACHINERY, OR FOLLOWING DIRECTIONS BY COUNCIL AND/OR WITHIN A TIMEFRAME ADVISED BY COUNCIL.

SURVEY NOTES

1. THE EXISTING SURVEY CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN DERIVED FROM SURVEY INFORMATION SUPPLIED BY CLARKE DOWDIE & ASSOCIATES, DATED 04.08.2015.
2. THE INFORMATION SHOWN IS PROVIDED AS A BASIS FOR THE DESIGN. WALLACE DESIGN GROUP DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.
3. SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTRACTOR SHALL CONTACT CLARKE DOWDIE & ASSOCIATES AND OR WALLACE DESIGN GROUP FOR CLARIFICATION.
4. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.

STORMWATER NOTES

1. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DETAILS.
2. ALL WORKS ARE TO BE IN ACCORDANCE WITH AS3500, COUNCIL'S DEVELOPMENT CONTROL PLAN AND PROPRIETARY MANUFACTURERS RECOMMENDATIONS.
3. UNLESS OTHERWISE STATED, ALL STORMWATER PIPES (INCLUDING DOWNPIPES AND RAINWATER TANK OVERFLOW PIPES) ARE TO BE uPVC SEWER GRADE, U.N.O JOINTED & INSTALLED TO MANUFACTURERS RECOMMENDATIONS.
4. ALL uPVC STORMWATER LINES TO HAVE ALL JOINTS, INC. DOWNPIPE CONNECTIONS, FULLY SOLVENT WELDED, INCLUDING ANY CHARGED LINES.
5. CONNECT DOWNPIPES AS REQUIRED TO NOMINATED HARVESTING TANK IN ACCORDANCE WITH APPROVED DEVELOPMENT PLANS AND HYDRAULIC ENGINEERS DESIGN.
6. ALL LEVELS ARE DATUM AHD.
7. ALL LEVELS ARE FINISHED PAVEMENT OR LAWN LEVELS.
8. CONTRACTOR TO ALLOW FOR ALL PIPE SUPPORT SYSTEM TO SOFFIT AS PER MANUFACTURERS SPECIFICATIONS.
9. ALL CONCRETE TO BE MANUFACTURED AND SUPPLIED IN ACCORDANCE WITH AS1379.
10. AT COUNCIL'S DISCRETION, ALL CONCRETE CAN BE SUBJECT TO PROJECT ASSESSMENT AND TESTING TO AS1379
11. MINIMUM PIPE COVERS TO BE IN ACCORDANCE WITH AS3500.
12. PITTS TO BE FILLED ACCORDINGLY TO MEET INVERTS AS NEEDED.
13. CONTRACTOR TO CONFIRM ALL LEVELS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES ARE TO BE IMMEDIATELY REPORTED TO WALLACE DESIGN GROUP.

SUBSOIL DRAINAGE NOTES

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATIONS FOR SUBSURFACE DRAINAGE.
2. SUBSOIL PIPE TO BE Ø100 SLOTTED PVC OR CORRUGATED CIRCULAR PLASTIC PIPE AND ENCLOSED IN SEAMLESS FILTER FABRIC SOCK
3. SUBSOIL DRAINS SHALL CONSIST OF A 300 (MINIMUM) WIDE TRENCH, BACKFILLED WITH 7 OR 10mm AGGREGATE AND WRAPPED IN BIDIM A12 GEOTEXTILE FABRIC OR SIMILAR, LAPPED AT THE TOP. DEPTH OF TRENCH TO EXTEND 450 (MINIMUM) IN ROCK OR 600 (MINIMUM) IN EARTH BELOW FINISHED SUB-GRADE LEVEL. INVERT OF TRENCH SHOULD ALSO BE LOWER THAN THE INVERT OF ANY SERVICE CROSSINGS.

PAVEMENT NOTES

1. THE PAVEMENT DESIGN RECOMMENDATIONS SHOWN ON THESE DRAWINGS ARE INDICATIVE ONLY AND SHALL BE CONFIRMED BY A QUALIFIED/REGISTERED GEOTECHNICAL ENGINEER AT CONSTRUCTION CERTIFICATE STAGE.

RETAINING WALL NOTES

1. ALL RETAINING WALLS SHOWN ON THESE PLANS SHALL BE DESIGNED BY A QUALIFIED & REGISTERED STRUCTURAL ENGINEERING AT TIME OF CONSTRUCTION CERTIFICATE STAGE.

SEWER & WATER NOTES

1. WORKS CARRIED OUT MUST BE IN ACCORDANCE WITH ALL CONDITIONS SPECIFIED BY CENTRAL COAST COUNCIL LISTED IN THE NOTICE OF DETERMINATION.
2. ALL SEWER WORKS TO BE CARRIED OUT BY A WATER AGENCY ACCREDITED CIVIL CONTRACTOR IN ACCORDANCE WITH CENTRAL COAST COUNCILS' 'SPECIFICATION FOR CONSTRUCTION OF WATER SUPPLY AND SEWERAGE BY CONTRACTORS.' PRE-PAID INSPECTION ACCOUNT No. 454 APPLIES.
3. WORKS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, CONSTRUCTION NOTES, WSA 03 SYDNEY WATER EDITION AND WSA SYDNEY WATER STANDARD DRAWINGS AND CENTRAL COAST COUNCIL WATER AND SEWER DEVELOPMENT SUPPLEMENTARY DOCUMENTS. REFER TO ESSENTIAL DOCUMENTS INCLUDING:

- *

Water and Sewer Development Supplement to the Sydney Water Edition of Water Services Association of Australia (WSAA) Codes - This supplement specifies mandatory requirements for planning, design and construction of sewerage assets within the Central Coast Local Government area.
- *

Minor Works Sewer Guideline – Central Coast Council: Sets out technical requirements and work instructions for construction activities allowed under the Minor Works (Sewer) process.
- *

Development Design Checklist – Central Coast Council: Detailed checklist providing hold points for water and sewer design. Using this checklist is highly encouraged during the design process and will likely reduce the wait time for design approval.
- *

Water and Sewer Development Construction Notes – Central Coast Council: These are to be placed on water and sewer design drawings for approval.
- *

Water and Sewer Development Construction List of Requirements – Central Coast Council: List of requirements to fulfill prior to, during and post construction of water and sewer assets.
- *

Water Main Chlorination and Commissioning Process – Central Coast Council: Provides the instruction and procedures required to ensure water main safety prior to commissioning.
- *

Water Service Installation Requirements – Central Coast Council: Guideline to the installation of DN20 and DN25 water services with the Central Coast Council potable water supply network.
- *

Water Meter Policy (expected to be available end of April 2023) – Central Coast Council: Ensures that appropriate water meter arrangements are provided for various development types.
- *

Work as Executed Requirements Pack – Central Coast Council: Standard for delivery of water and sewerage information at the "Constructed" stage of a civil project.

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REV	DESCRIPTION	DATE	APPVD	ENDOD	

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PROJECT:

STORMWATER WORKS for
LOT 1, DP 221482
12 MOUNT ETTALONG ROAD
UMINA BEACH NSW 2257

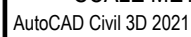
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CIVIL SERVICES
GENERAL NOTES

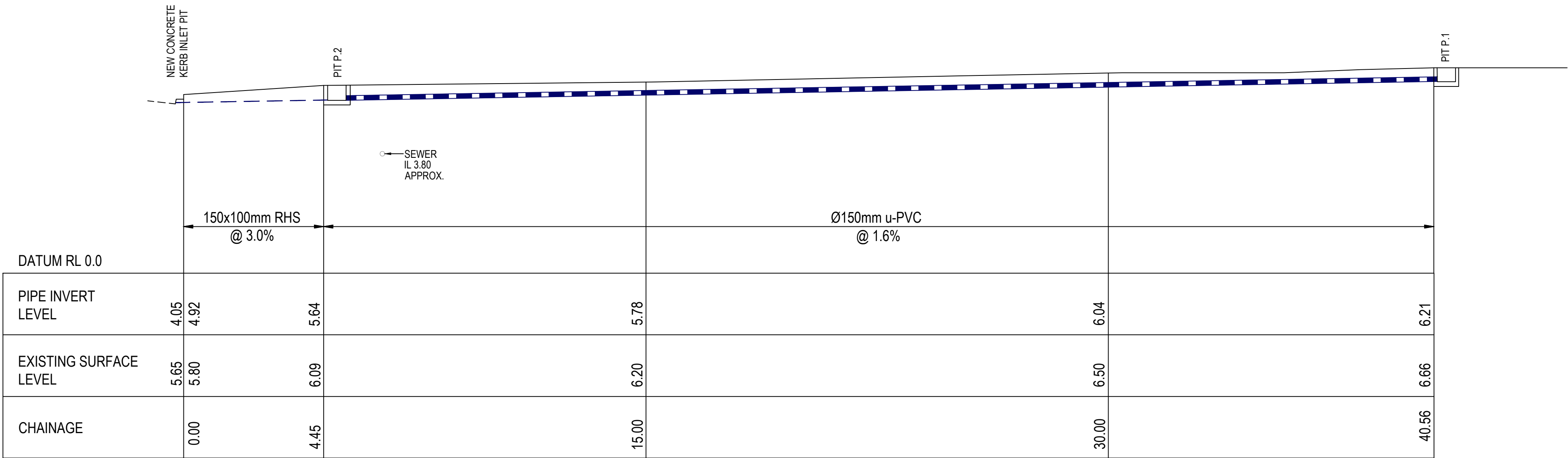
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PRELIMINARY

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DRAWN DB	DESIGNED SS	CHECKED SS	APPROVED SS	ENDORSED	DATE	10.06.26
PROJECT No. 26156					DRAWING No. C02.01	
					REV	A

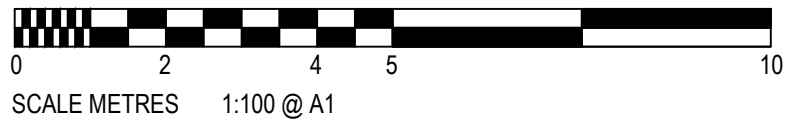


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DRAWN DB	DESIGNED SS	CHECKED SS	APPROVED SS	ENDORSED	DATE 10.06.26
PROJECT No. 26156		DRAWING No. C04.01			REV A



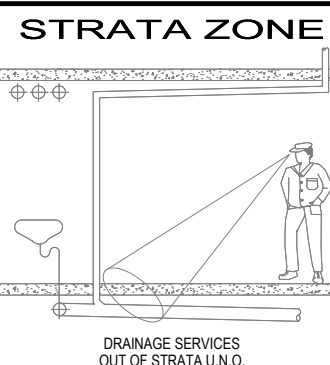
STORMWATER LONGITUDINAL SECTION

1:100



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REV	DESCRIPTION		DATE	APPVD	ENDOD
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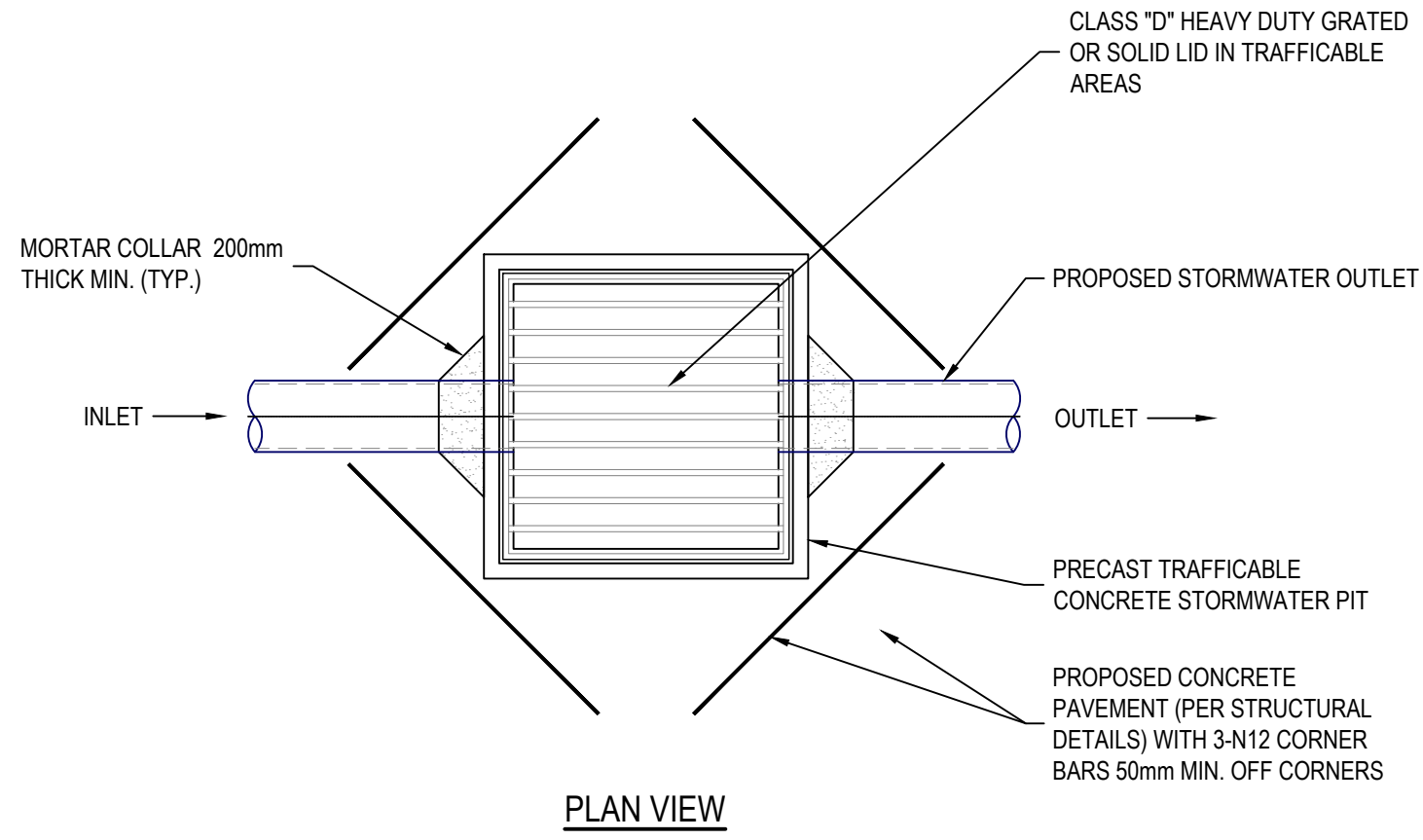


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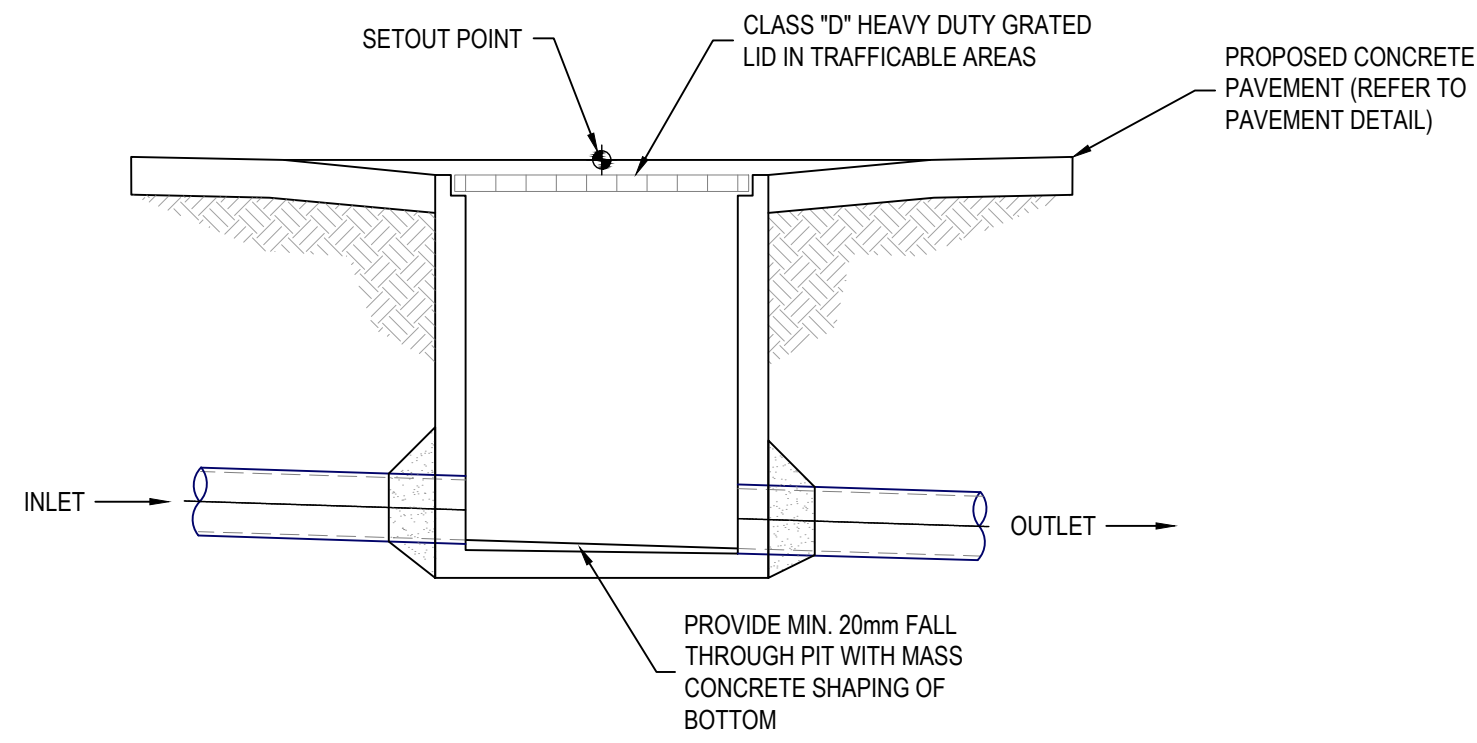
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UMINA BEACH NSW 2257

DRAWING TITLE:
CIVIL SERVICES
STORMWATER
LONGITUDINAL SECTION

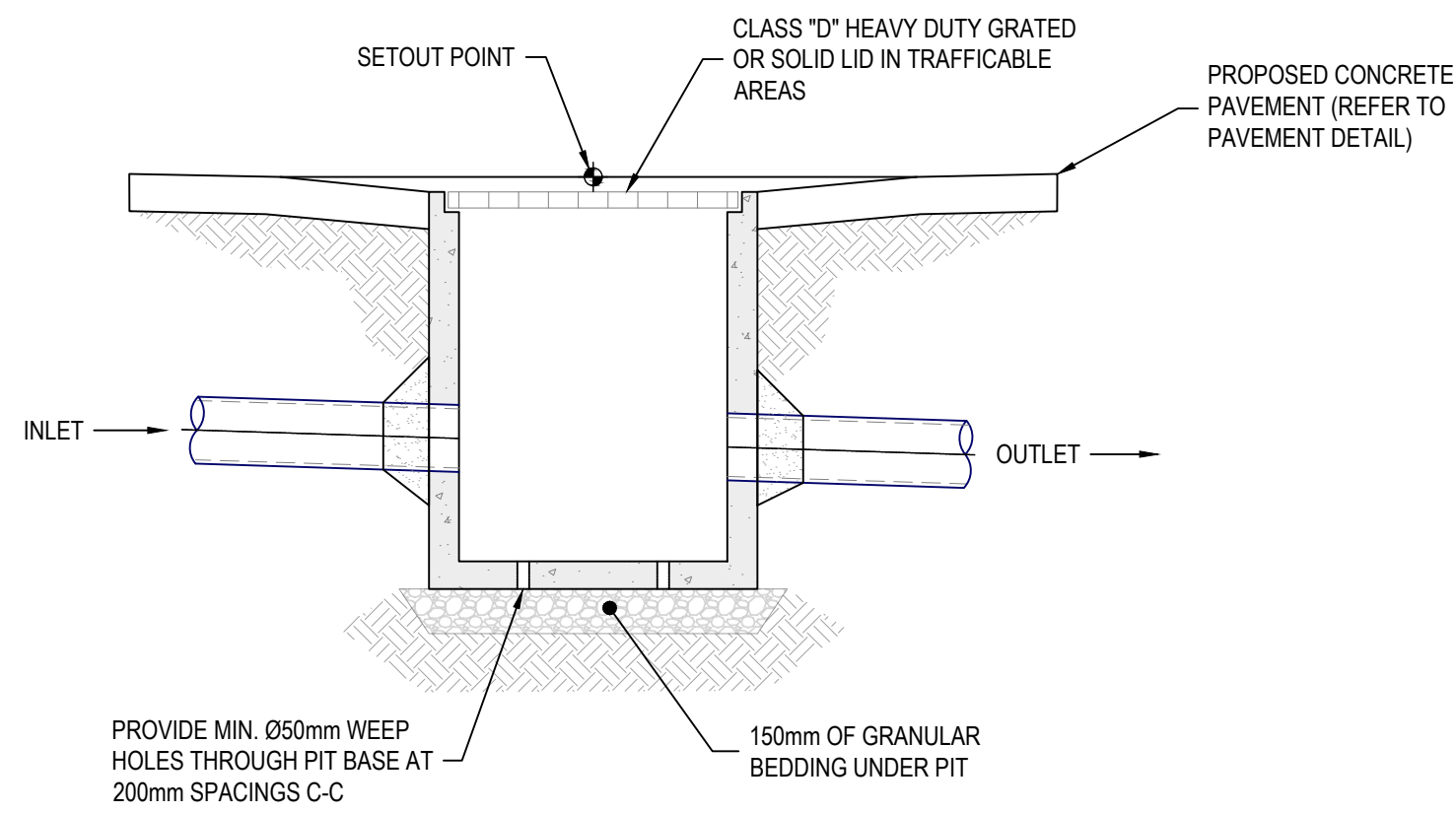
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PRELIMINARY					
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DRAWN	DESIGNED	CHECKED	APPROVED	ENDORSED	DATE
DB	SS	SS	SS		10.06.26
PROJECT No.			DRAWING No.		REV
26156			C04.02		A



PLAN VIEW



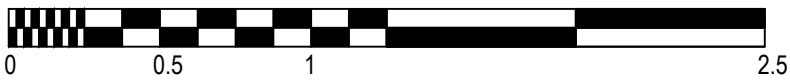
SECTION VIEW



SECTION VIEW WITH 300 SUMP PIT

TYPICAL DEPRESSED STORMWATER DRAINAGE PIT IN PAVED AREAS

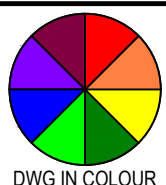
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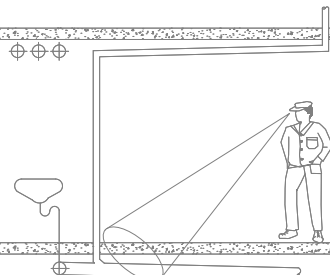
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DWG IN COLOUR

STRATA ZONE



DRAINAGE SERVICES OUT OF STRATA ZONE

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REV	DESCRIPTION	DATE	APPVD	ENDOD
A	S4.55 ISSUE	10.06.26	S.S.	-

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PROJECT:

STORMWATER WORKS for
LOT 1, DP 221482
12 MOUNT ETTALONG ROAD
UMINA BEACH NSW 2257

DRAWING TITLE:

CIVIL SERVICES
STORMWATER PIT DETAILS

DRAWING STATUS

PRELIMINARY

SCALE: 1:25					ORIG. SIZE A1	
DRAWN DB	DESIGNED SS	CHECKED SS	APPROVED SS	ENDORSED	DATE	10.06.26
PROJECT No. 26156				DRAWING No. C05.01		REV A