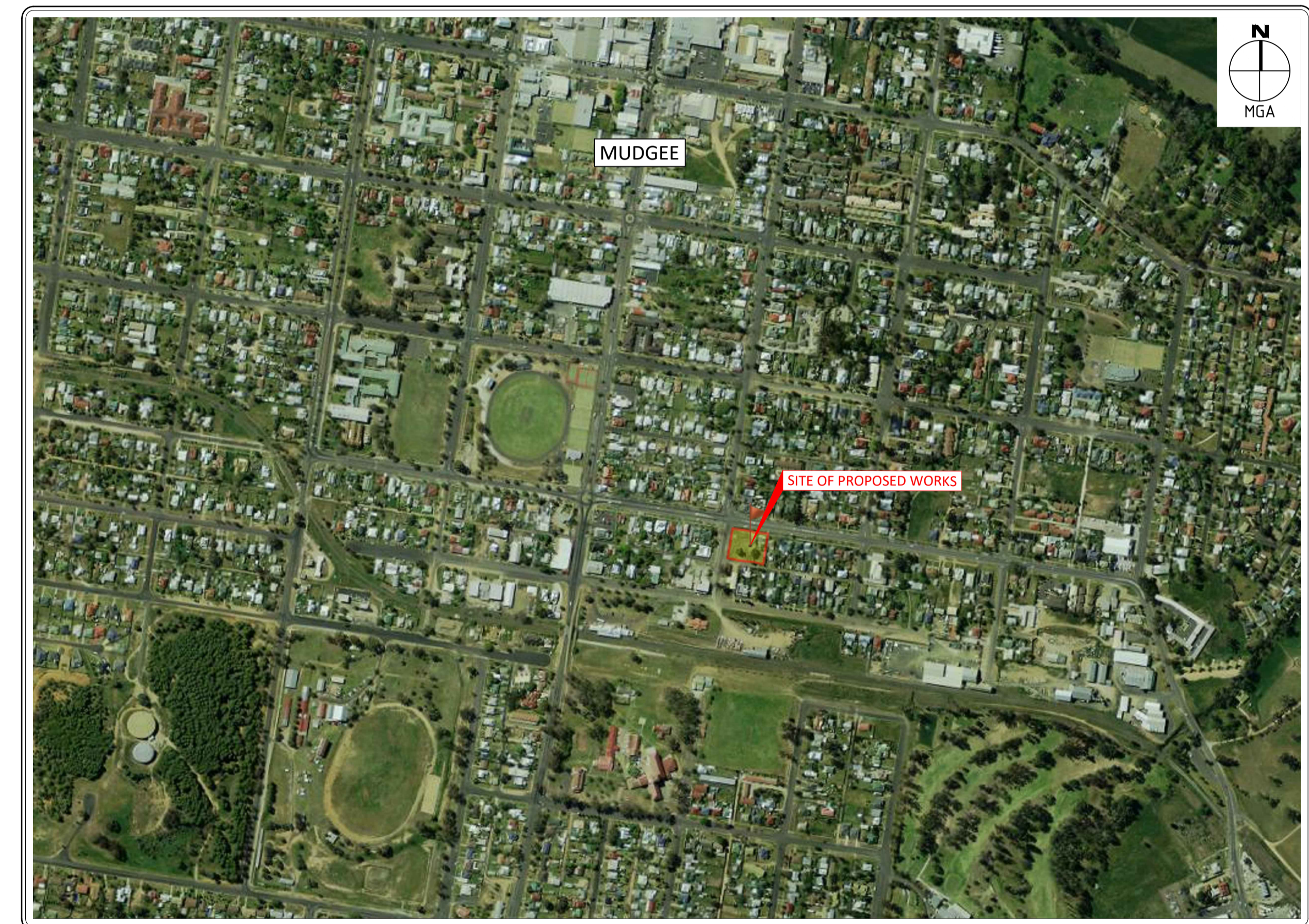


# Development Application Documentation for the Proposed Motel at 56-67 Horatio Street, Mudgee, NSW 2850

## DRAWING SCHEDULE

37806-C00	CIVIL ENGINEERING COVER SHEET
37806-C01	EXISTING SITE PLAN
37806-C02	PROPOSED SITE PLAN
37806-C03	PROPOSED PAVEMENT PLAN
37806-C04	PROPOSED PAVEMENT SPECIFICATIONS
37806-C05	PROPOSED STORMWATER MANAGEMENT PLAN
37806-C06	PROPOSED STORMWATER SPECIFICATIONS
37806-C07	PROPOSED SEWER PLAN
37806-C08	PROPOSED SEWER SPECIFICATIONS
37806-C09	PROPOSED WATER PLAN



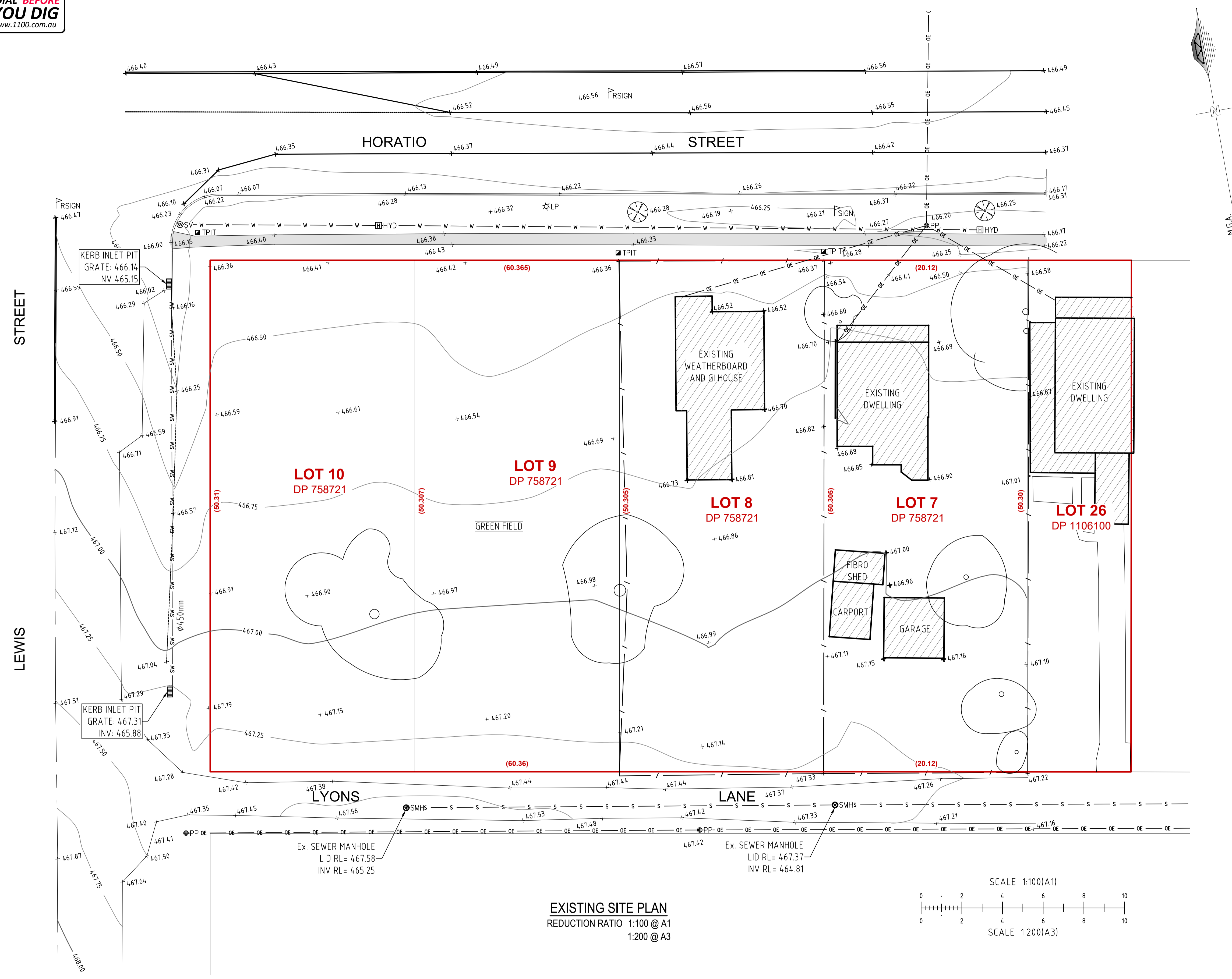
LOCALITY PLAN  
NOT TO REDUCTION RATIO

SUBMISSION FOR DA

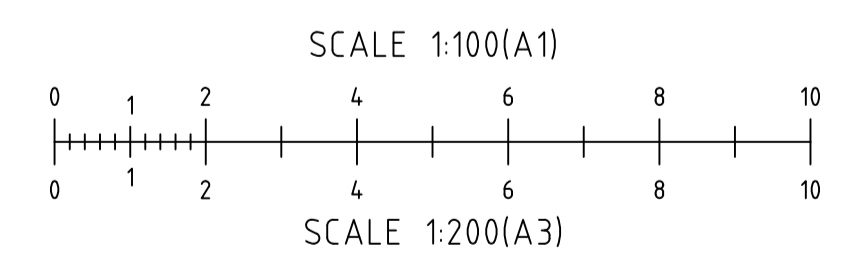




LEGEND	
	EXISTING SUBJECT CADASTRAL BOUNDARIES
	EXISTING FENCE LINE
	EXISTING OVERHEAD ELECTRICAL LINE
	EXISTING LIGHT POLE
	EXISTING POWER POLE
	EXISTING UNDERGROUND WATER MAIN
	EXISTING WATER HYDRANT
	EXISTING STOP VALVE
	EXISTING UNDERGROUND TELECOMMUNICATIONS ASSETS
	EXISTING TELECOMMUNICATIONS PIT
	EXISTING UNDERGROUND SEWER PIPE
	EXISTING SEWER MANHOLE
	EXISTING UNDERGROUND STORMWATER PIPE
	EXISTING SIGN
	EXISTING ROAD SIGN



**EXISTING SITE PLAN**  
 REDUCTION RATIO 1:100 @ A1  
 1:200 @ A3



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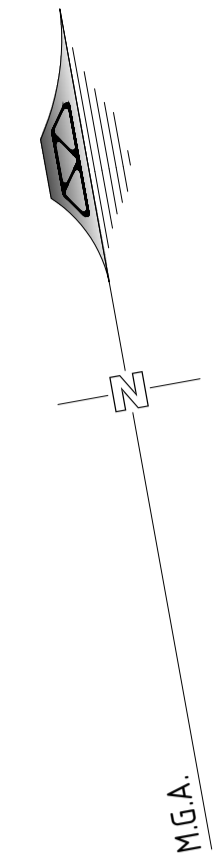
THIS DRAWING IS TO BE READ IN CONJUNCTION WITH GENERAL BUILDING DRAWINGS, SPECIFICATIONS & OTHER CONSULTANTS DRAWINGS APPLICABLE TO THIS PROJECT. ALL DIMENSIONS IN MILLIMETRES. DO NOT SCALE. DIMENSIONS TO BE CHECKED ON SITE BEFORE COMMENCEMENT OF WORK. REPORT DISCREPANCIES TO BARNSON PTY LTD. NO PART OF THIS DRAWING MAY BE REPRODUCED IN ANY WAY WITHOUT THE WRITTEN PERMISSION OF BARNSON PTY LTD.

Client: GREG DOWKER  
 Project: PROPOSED MOTEL AT 59-67 HORATIO STREET MUDGEE NSW 2850  
 Drawing Title: EXISTING SITE PLAN

Rev	Date	Amendment
A	08-09-2022	ISSUED FOR DA

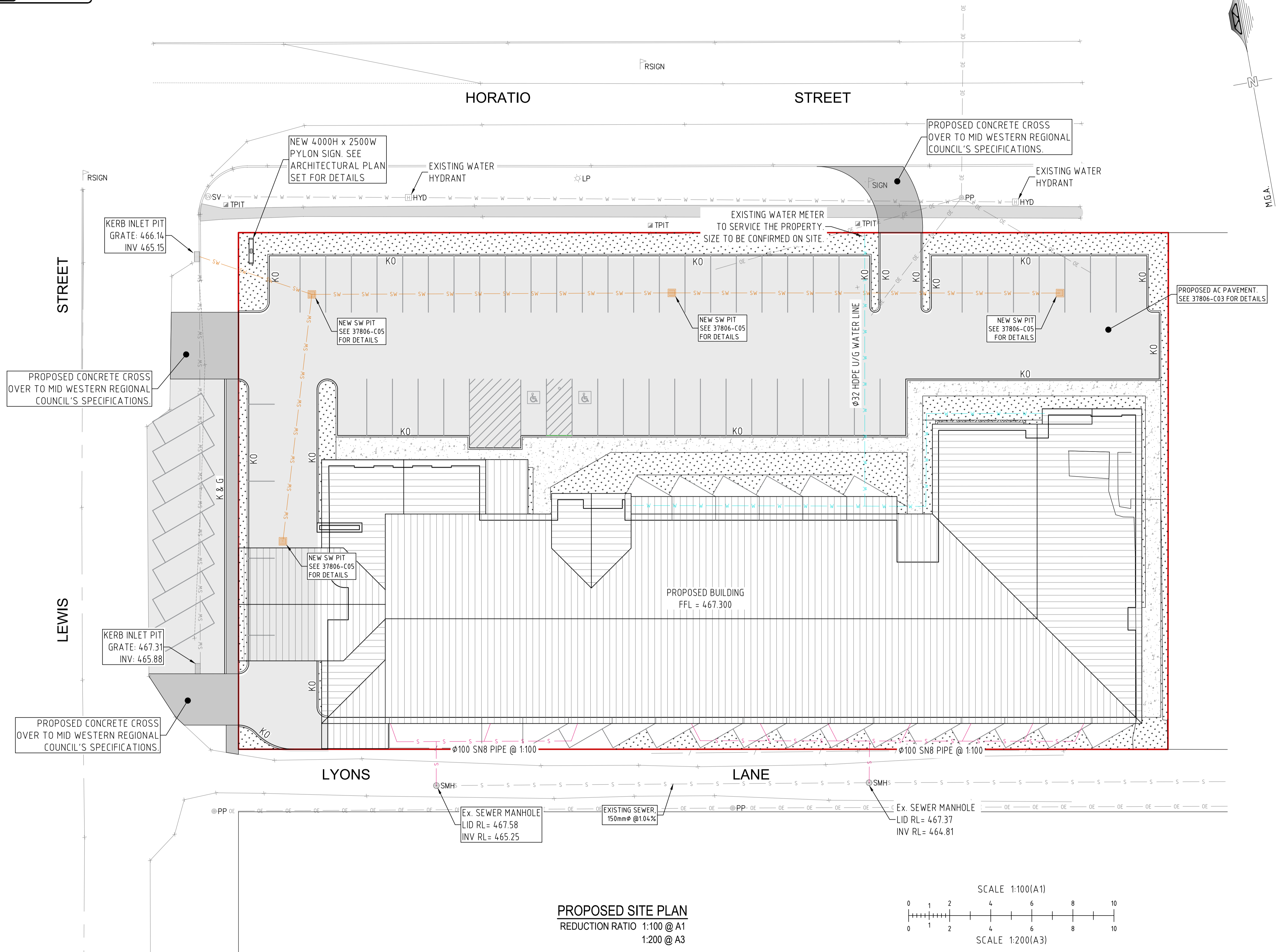
Design	LB	Certification	
Drawn	MK		
Check	LM	Drawing Number	
Original Sheet Size = A1		<b>37806 - C01</b>	Revision <b>A</b>





LEGEND	
	EXISTING SUBJECT CADASTRAL BOUNDARIES
	EXISTING FENCE LINE
	EXISTING OVERHEAD ELECTRICAL LINE
	EXISTING LIGHT POLE
	EXISTING POWER POLE
	EXISTING UNDERGROUND WATER MAIN
	EXISTING WATER HYDRANT
	EXISTING STOP VALVE
	EXISTING UNDERGROUND TELECOMMUNICATIONS ASSETS
	EXISTING TELECOMMUNICATIONS PIT
	EXISTING UNDERGROUND SEWER PIPE
	EXISTING SEWER MANHOLE
	EXISTING UNDERGROUND STORMWATER PIPE
	EXISTING SIGN
	EXISTING ROAD SIGN

LEGEND (proposed)	
	PROPOSED AC CAR PARK AND DRIVEWAY AREA
	PROPOSED CONCRETE PAVEMENT AREA
	PROPOSED LANDSCAPE AREA
	PROPOSED ROOF AREA
	PROPOSED SEWER PIPE (Ø AS SHOWN)
	PROPOSED SEWER MAINTENANCE SHAFT, SEE 37806-C08
	PROPOSED STORMWATER PIPE (Ø AS SHOWN)
	PROPOSED SW PIT, SEE 37806-C06 FOR DETAILS
	PROPOSED WATER MAIN PIPE (Ø AS SHOWN)
	PROPOSED WATER STOP VALVE



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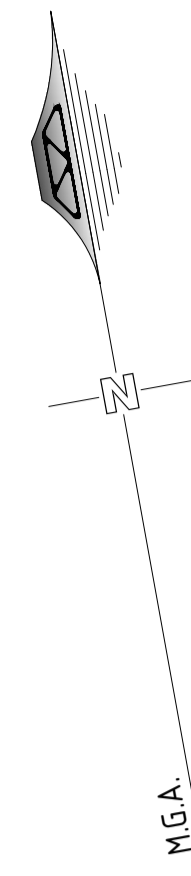
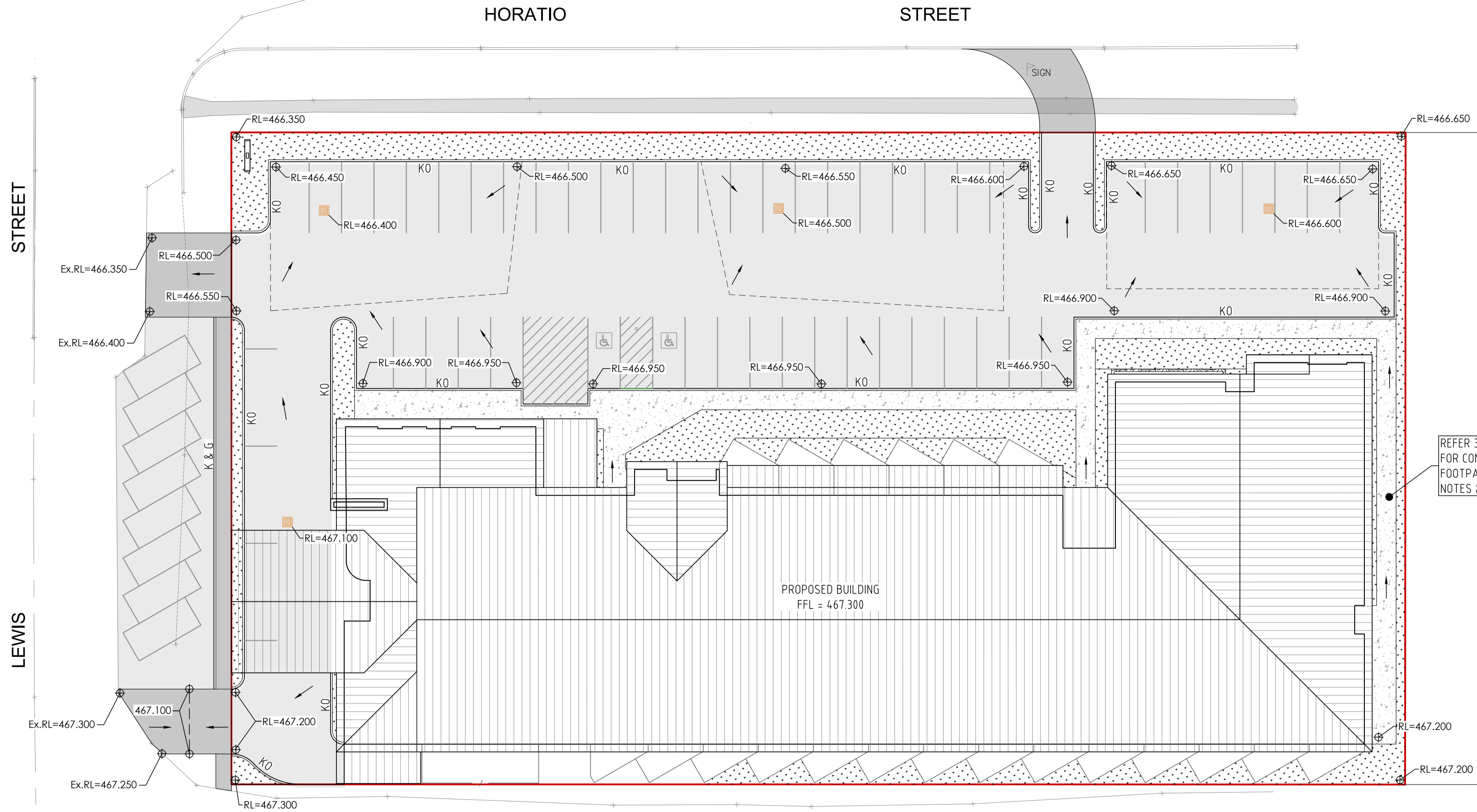
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Client: GREG DOWKER  
 Project: PROPOSED MOTEL AT 59-67 HORATIO STREET MUDGEE NSW 2850  
 Drawing Title: PROPOSED SITE PLAN

Rev Date Amendment  
 A 08-09-2022 ISSUED FOR DA

Design LB Certification  
 Drawn MK  
 Check LM Drawing Number  
 Original Sheet Size = A1  
 37806 - C02  
 Revision A

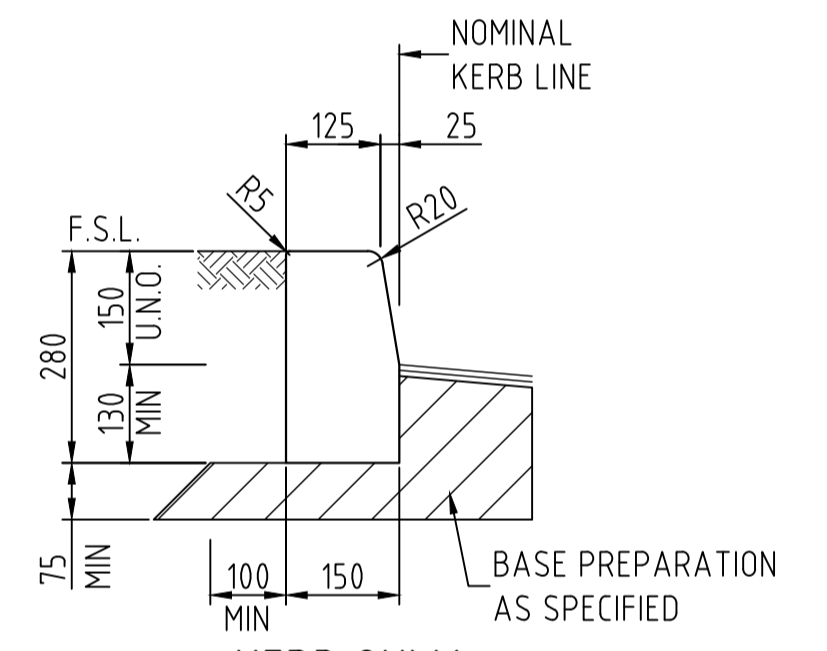




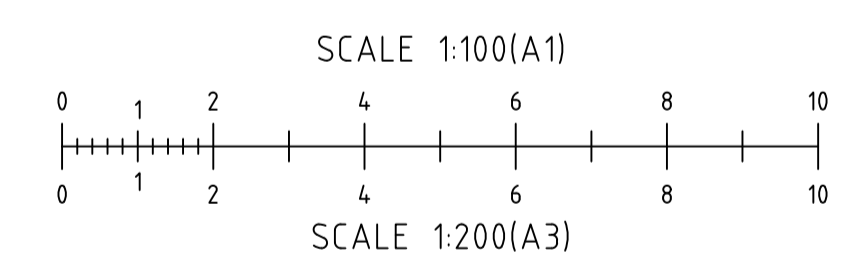
LEGEND	
	EXISTING SUBJECT CADASTRAL BOUNDARIES
	EXISTING FENCE LINE
	EXISTING OVERHEAD ELECTRICAL LINE
	EXISTING LIGHT POLE
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	EXISTING SEWER MANHOLE
	EXISTING UNDERGROUND STORMWATER PIPE
	EXISTING SIGN
	EXISTING ROAD SIGN

LEGEND (proposed)	
	PROPOSED AC CAR PARK AND DRIVEWAY AREA
	PROPOSED CONCRETE PAVEMENT AREA
	PROPOSED LANDSCAPE AREA
	PROPOSED ROOF AREA
	PROPOSED KERB ONLY, SEE 37806-C04
	PROPOSED SW PIT, SEE 37806-C07 FOR DETAILS
	FINISHED SURFACE RL'S

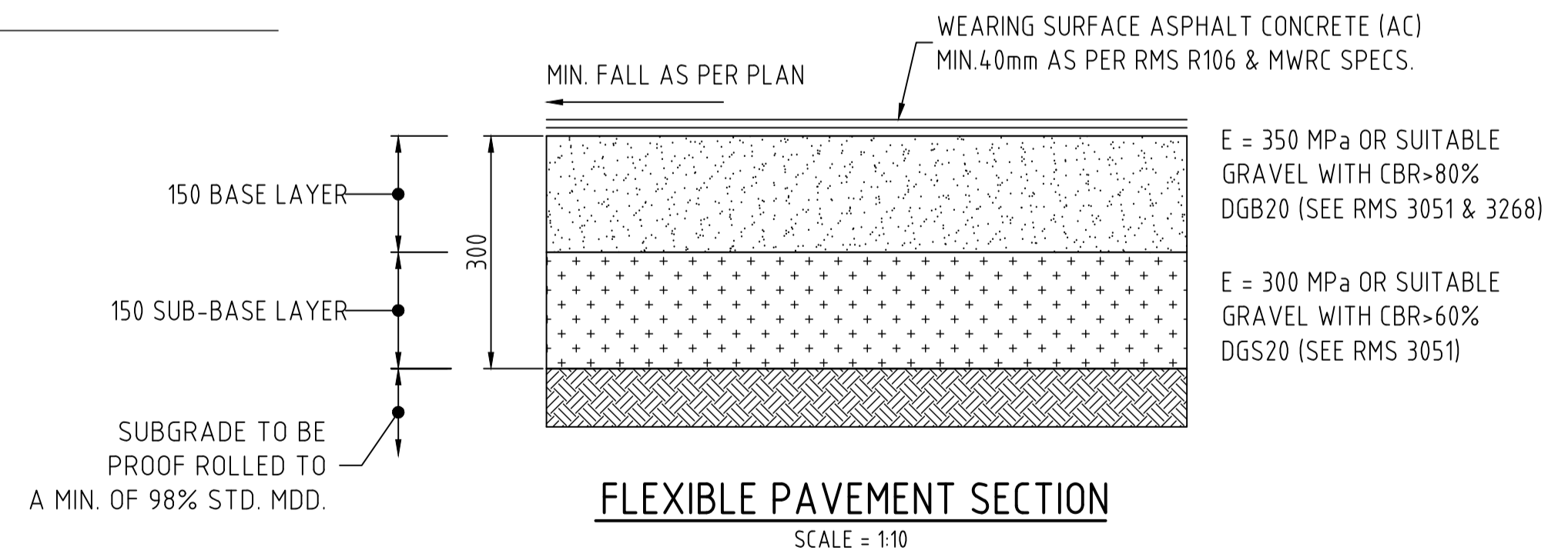
REFER 37806-C04 FOR CONCRETE FOOTPATH DESIGN NOTES & DETAILS.



**KERB ONLY**  
SCALE = 1:10



**PROPOSED PAVEMENT PLAN**  
REDUCTION RATIO 1:100 @ A1  
1:200 @ A3



**FLEXIBLE PAVEMENT SECTION**  
SCALE = 1:10

NOTE: NO GEOTECHNICAL INVESTIGATION HAS BEEN DONE. IF ANY WORSE GROUND CONDITIONS FOUND, BARNSON SHALL BE CONTACTED FOR DESIGN VERIFICATIONS.

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Client: GREG DOWKER  
 Project: PROPOSED MOTEL AT 59-67 HORATIO STREET MUDGEE NSW 2850  
 Drawing Title: PROPOSED PAVEMENT PLAN

Rev	Date	Amendment
A	08-09-2022	ISSUED FOR DA

Design	LB	Certification	
Drawn	MK		
Check	LM	Drawing Number	
Original Sheet Size = A1		<b>37806 - C03</b>	Revision <b>A</b>



**SITWORKS NOTES**

- ORIGIN OF LEVELS :- AHD
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.
- ALL WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS, THE SPECIFICATIONS AND THE DIRECTIONS OF THE SUPERINTENDENT.
- EXISTING SERVICES HAVE BEEN OBTAINED FROM SURFACE INSPECTION ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND THE LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- WHERE NEW WORKS ABOUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
- THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A QUALIFIED SURVEYOR.
- CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER TELECOM OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
- ON COMPLETION OF CONSTRUCTION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS.
- MAKE SMOOTH TRANSITION TO EXISTING AREAS.
- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY DIVERSION DRAINS AND MOUNDS TO ENSURE THAT AT ALL TIMES EXPOSED SURFACES ARE FREE DRAINING AND WHERE NECESSARY EXCAVATE SUMPS AND PROVIDE PUMPING EQUIPMENT TO DRAIN EXPOSED AREAS. ALL WORK TO BE UNDERTAKEN WITH ADHERENCE TO THE REQUIREMENTS OF THE SOIL AND WATER MANAGEMENT PLAN.
- THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND MECHANICAL DRAWINGS AND SPECIFICATIONS.

**BASECOURSE DESIGN NOTES**

A) ALL BASE COURSE AND SUB-BASECOURSE MATERIALS SHALL CONFORM WITH AUSPEC SPECIFICATION FOR THE CONSTRUCTION OF NATURAL GRAVEL OR CRUSHED ROCK ROAD PAVEMENT AND AUSPSEC SPECIFICATION FOR THE SUPPLY AND DELIVERY OF BASE AND SUB-BASE MATERIALS FOR SURFACED ROAD PAVEMENTS.

B) ALL BASECOURSE AND SUB-BASE MATERIALS SHALL BE COMPACTED TO ACHIEVE A MINIMUM OF 100% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT OF +0R- 2% IN ACCORDANCE WITH AS1289 E1.1

**CONCRETE NOTES**

1. CONCRETE FOR KERBS, DRIVEWAYS, RAMPS AND FOOTPATH SHALL HAVE A CONCRETE STRENGTH OF 25MPa AT 28 DAYS, MINIMUM SLUMP OF 60mm AND MAXIMUM AGGREGATE SIZE OF 20mm.

**TRAFFIC CONTROL NOTES:**

- ADEQUATE SIGNPOSTING AND PROTECTION IS TO BE GIVEN TO THE MOTORING PUBLIC AND WORKERS ENGAGED ON SITE. ATTENTION IS DRAWN TO THE FOLLOWING SPECIFICATIONS AND GUIDELINES:
  - AUSTRALIAN STANDARD AS1742.2-2009 TRAFFIC CONTROL DEVICES FOR GENERAL USE;
  - AUSTRALIAN STANDARD AS1742.3-2009 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES;
  - RTA GUIDELINES "TRAFFIC CONTROL AT WORK SITES"; AND
  - WORKCOVER AUTHORITY CODE OF PRACTICE "WORKING NEAR MOBILE PLANT FOR TRAFFIC".
- APPROPRIATE TRAFFIC CONTROL BASED UPON A LOWER SPEED ENVIRONMENT WHILE WORKS ARE IN PROGRESS SHOULD BE THE BASIS FOR ANY PROTECTION WORKS.

**CROSS-OVER NOTES**

- CONSTRUCTION OF DRIVEWAY SLABS IS TO BE CARRIED OUT STRICTLY IN ACCORDANCE WITH ORANGE CITY REGIONAL COUNCIL'S ROAD STANDRDA DRAWING 05 INDUSTRIAL/COMMERCIAL VEHICULAR ACCESS, RELEVANT AUS-SPEC DOCUMENTATION. THESE DOCUMENTS ARE AVAILABLE FROM COUNCILS CUSTOMERS SERVICE AREA.
- CONTRACTORS/ OWNERS/DEVELOPERS ARE RESPONSIBLE FOR THE LOCATING OF ALL UNDERGROUND SERVICES AND THE ARRANGING AND COMPLETION OF REPAIRS WITH THE APPROPRIATE AUTHORITY SHOULD THEY BE BROKEN OR DAMAGED DURING CONSTRUCTION.
- THE DRIVEWAY SLAB IS TO BE CONSTRUCTED TO THE DIMENSIONS AND SPECIFICATIONS SHOWN ON THIS PLAN. THE THICKNESS SHALL BE AS FOLLOWS:
  - FOR A COMMERCIAL SITUATION, THE CONCRETE SHALL BE 150mm THICK WITH TWO LAYERS OF SL82 MESH WITH 40mm TOP AND BOTTOM COVER AND A BROOM FINISH.

THE COMPRESSIVE STRENGTH OF THE CONCRETE IS TO BE 25MPa AT 28 DAYS. ALL EXPOSED EDGES ARE TO 10MM RADIUS. ADDITIONALLY ALL POOR SUBGRADE MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE FILL MATERIAL. ALL SUBGRADES ARE TO BE WELL COMPACTED BEFORE THE PLACEMENT OF THE BASE MATERIAL. FORMWORK MUST EXTEND FROM FINISHED CONCRETE HEIGHT TO THE BASE MATERIAL FOR THE TOTAL AREA OF THE DRIVEWAY SLAB.

- THE FOLLOWING INSPECTIONS ARE TO BE CARRIED OUT PRIOR TO AND DURING CONSTRUCTION. IN THIS REGARD, 24 HOURS NOTICE IS TO BE GIVEN BY PHONING 6801 400. THE INSPECTION REQUIRED ARE AS FOLLOWS:
  - SITE INSPECTION PRIOR TO THE COMMENCEMENT OF WORK.
  - WHEN THE FORMWORK AND COMPACTED BASE ARE IN PLACE AND PRIOR TO THE MESH BEING PLACED.
  - WHEN THE MESH HAS BEEN PLACED.
  - PRIOR TO THE BITUMEN SEALING OR ASPHALT WORKS.
  - AT THE COMPLETION OF ALL THE WORKS INCLUDING RESTORATION OF THE SITE.

FAILURE TO HAVE THE ABOVE INSPECTION CARRIED OUT MAY RESULT IN THE REJECTION OF THE CROSSING.

- THE FINISHED SURFACE IS TO BE KEPT FROM DRYING OUT TOO RAPIDLY BY COVERING WITH SAND OR PLASTIC SHEETING.
- AN APPROVED TRAFFIC AND PEDESTRIAN CONTROL PLAN COMPLETED BY AN APPROPRIATELY QUALIFIED PERSON IN ACCORDANCE WITH AS 1742.3-2009 IS TO BE IN PLACE PRIOR TO ANY CONSTRUCTION WORKS COMMENCING AND DURING ANY CONSTRUCTION WORKS.
- PRIOR TO CONSTRUCTION OF DRIVEWAY SLAB, SECTION 138 ROAD ACT - APPROVAL FOR WORKS IN THE PUBLIC ROAD TO BE LODGED AND APPROVED BY COUNCIL.
- THE POTENTIAL FOR EROSION AND THE TRANSPORTATION OF SEDIMENT IS TO BE ADDRESSED. APPROPRIATE MEASURES ARE TO BE IN PLACE TO PREVENT THIS FROM HAPPENING.
- THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL FORMWORK AND RUBBISH ASSOCIATED WITH THE CONSTRUCTION FROM THE SITE AND THE REINSTATEMENT OF THE SURFACE ADJACENT TO THE WORKS UPON COMPLETION.
- IF THE LENGTH OR WIDTH OF DRIVEWAY SLAB EXCEEDS 6M AN EXPANSION JOINT IS TO BE PROVIDED AT THE MID-POINT (SEE EXPANSION JOINT DETAIL).

INSPECTION HOLD POINTS
<ol style="list-style-type: none"> <li>INSTALLATION OF SEDIMENT &amp; EROSION CONTROL MEASURES.</li> <li>WATER &amp; SEWER LINE INSTALLATION PRIOR TO BACKFILL.</li> <li>ESTABLISHMENT OF LINE &amp; LEVEL FOR KERB &amp; GUTTER PLACEMENT.</li> <li>ROAD PAVEMENT CONSTRUCTION.</li> <li>ROAD PAVEMENT SURFACING.</li> <li>PRACTICAL COMPLETION.</li> </ol>
SERVICES INSTALLATION
<ol style="list-style-type: none"> <li>INSTALLATION OF ALL UUNDERGROUND PIPES BE INSTALLED PRIOR TO INSTALLATION OF ROAD PAVEMENT.</li> </ol>

**SUBGRADE COMPACTION NOTES**

- STRIP TOPSOIL TO EXPOSE NATURALLY OCCURRING MATERIAL.
- WHERE FILLING IS REQUIRED TO ACTIVATE DESIGN SUBGRADE PROOF ROLL EXPOSED NATURAL SURFACE WITH A MINIMUM OF 10 PASSES OF A VIBRATING ROLLER (MINIMUM STATIC WEIGHT OF 10 TONNES) IN THE PRESENCE OF THE SUPERINTENDENT.
- ALL SOFT, WET OR UNSUITABLE MATERIAL TO BE REMOVED AS DIRECTED BY THE SUPERINTENDENT AND REPLACED WITH APPROVED MATERIAL SATISFYING THE REQUIREMENTS LISTED BELOW.
- ALL FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE SUPERINTENDENT AND SHALL COMPLY WITH THE FOLLOWING:
  - FREE FROM ORGANIC AND PERISHABLE MATTER
  - MAXIMUM PARTICLE SIZE 75mm
  - PLASTICITY INDEX BETWEEN 2% AND 15%.
- ALL FILL MATERIAL SHALL BE PLACED IN MAXIMUM 200mm THICK LAYERS AND COMPACTED AT OPTIMUM MOISTURE CONTENT (+ OR - 2%) TO ACHIEVE A DRY DENSITY DETERMINED IN ACCORDANCE WITH AS1289 E3.1 OF NOT LESS THAN THE FOLLOWING STANDARD MINIMUM DRY DENSITIES IN ACCORDANCE WITH AS1289 E1.1:
 

LOCATION	STANDARD DRY DENSITY
ALL EXTERNAL PAVE AREAS	98%
LANDSCAPED AREAS	90%
- THE CONTRACTOR SHALL PROGRAM THE EARTHWORKS OPERATION SO THAT THE WORKING AREAS ARE ADEQUATELY DRAINED DURING THE PERIOD OF CONSTRUCTION. THE SURFACE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS, ROLLER MARKS AND SIMILAR WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYING MATERIAL. ANY DAMAGE RESULTING FROM THE CONTRACTOR NOT OBSERVING THESE REQUIREMENTS SHALL BE RECTIFIED BY THE CONTRACTOR AT THEIR COST.
- TESTING OF THE SUBGRADE SHALL BE CARRIED OUT BY AN APPROVED NATA REGISTERED LABORATORY AT THE CONTRACTORS EXPENSE.

**ASPHALTIC CONCRETE NOTES**

- GENERAL**
  - ALL WORK TO BE IN ACCORDANCE WITH DEVSPEC C245.
  - MINERAL AGGREGATES TO COMPLY WITH CLAUSE 3 MATERIALS MR FORM 952 "SPECIFICATION FOR THE SUPPLY AND DELIVERY OF AGGREGATE FOR USE IN PLANT MIX."
  - MINERAL FILLER TO COMPLY WITH AS 2357-1980 MINERAL FILLERS FOR ASPHALT.
  - BITUMEN BINDER SHALL COMPLY WITH MR FORM 337 "SPECIFICATION FOR RESIDUAL BITUMEN."
- MIX PROPORTIONS**
  - JOB MIX - 14mm NOMINAL SIZE AGGREGATE. MINIMUM BITUMEN CONTENT (%) BY MASS OF TOTAL MASS - 5.1%
  - MIX STABILITY - BETWEEN 16kN AND 36kN AS DETERMINED BY RTA TEST METHOD T601 AND T603
  - AIR VOIDS IN COMPACTED MIX - BETWEEN 4% AND 7% OF THE VOLUME OF THE MIX.
  - VOIDS FILLED IN BINDER - 65-80% OF AIR VOIDS IN THE TOTAL MINERAL AGGREGATE FILLED BY BINDER IN ACCORDANCE WITH RTA TEST METHOD T601, T605 AND T606.
- PAVEMENT PREPARATION**
  - THE EXISTING SURFACE TO BE SEALED SHALL BE DRY AND BROOMED BEFORE COMMENCEMENT OF WORK TO ENSURE COMPLETE REMOVAL OF ALL SUPERFICIAL FOREIGN MATTER.
  - ALL DEPRESSIONS OR UNEVEN AREAS ARE TO BE TACK-COATED AND BROUGHT UP TO GENERAL LEVEL OF PAVEMENT WITH ASPHALTIC CONCRETE BEFORE LAYING ON MAIN COURSE.
- TACK COAT**
  - THE WHOLE OF THE AREA TO BE SHEETED WITH ASPHALTIC CONCRETE SHALL BE LIGHTLY AND EVENLY COATED WITH RAPID SETTING BITUMEN COMPLYING WITH MR FORM 305. APPLICATION RATE FOR RESIDUAL BITUMEN SHALL BE 0.15 TO 0.30 LITERS/SQUARE METER. APPLICATION SHALL BE BY MEANS OF A MECHANICAL SPRAYER WITH SPRAY BAR.

**SLAB NOTES**

- SLAB 1 - FOOTPATH
- CONCRETE EXPOSURE CLASSIFICATION = A2 TO AS3600-2018.
- 100mm THICK (T1) SLAB PANEL REINFORCED WITH ONE LAYER SL72 MESH TOP WITH 30mm COVER.
- CONCRETE IS TO BE GRADE N25 (25 MPa STRENGTH AT 28 DAYS)
- BASE PREPARATION: MIN. 100mm HARD-CORE BASE (DGB20 OR SIMILAR APPROVED) COMPACTED IN 150mm LAYERS TO 98% STANDARD COMPACTION.
- A WATERPROOF MEMBRANE CONSISTING OF A 0.2mm NOMINAL THICKNESS POLYETHYLENE FILM, SHALL BE PLACED UNDER ALL SLABS & BEAMS U.N.O. IT SHALL BE HIGH IMPACT RESISTANT IN ACCORD WITH CLAUSES 5.3.3.2 AND 5.3.3.3 OF AS2870-2011.

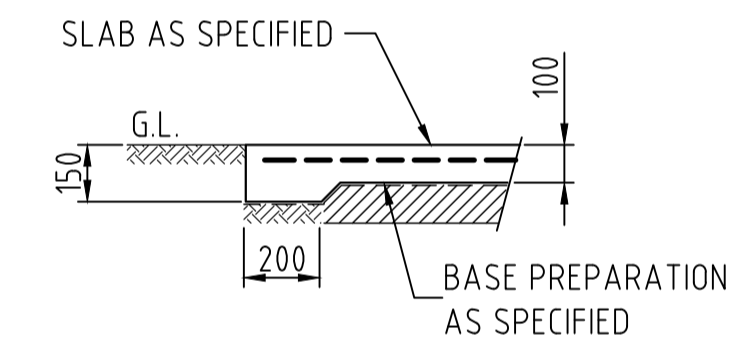
**SLAB LOADING NOTES**

- ALL LOADS HAVE BEEN DETERMINED ACCORDING TO AS1170.1-2002
- DEAD LOADS:
  - SELF WEIGHT OF ALL CONSTRUCTION MATERIALS.
- LIVE LOADS:
  - SLAB 1 = FOOTPATH SLAB = 4.0kPa

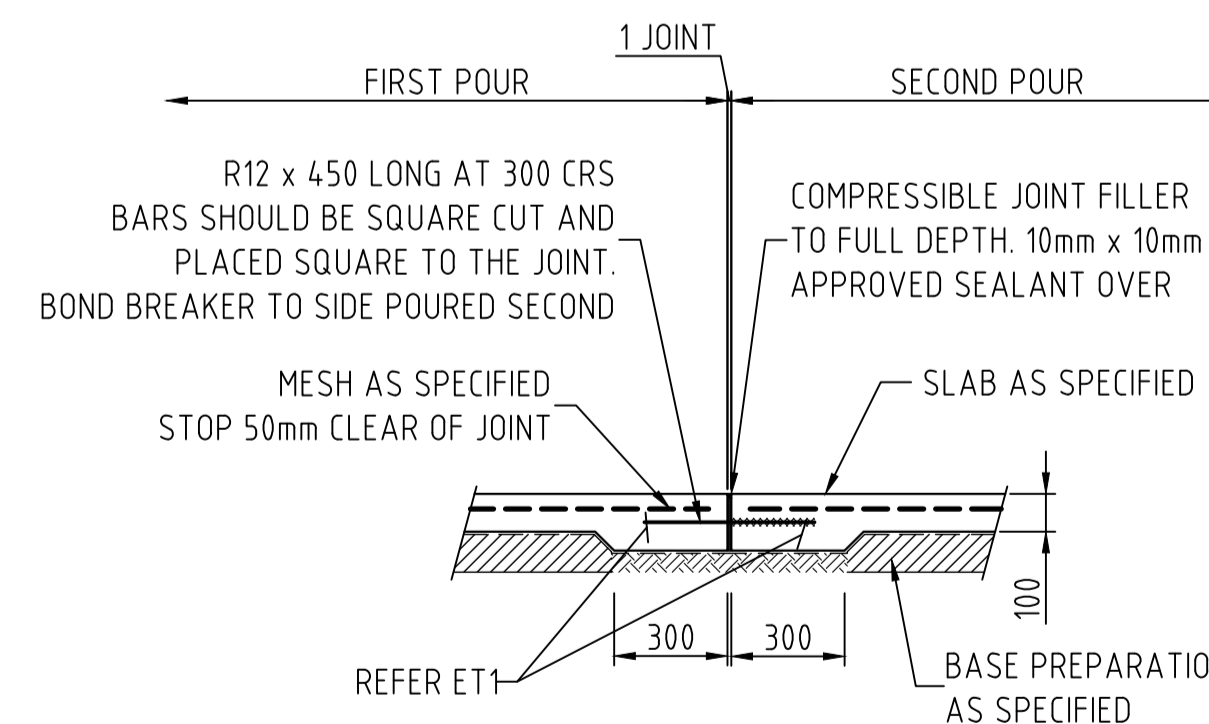
**LEGEND**

- DENOTES TOOLED JOINT PLACED WITHIN 24 HOURS OF CONCRETE POUR. DEPRESS MESH AT JOINT LOCATIONS
- DENOTES CONSTRUCTION JOINT. REFER TO DETAIL

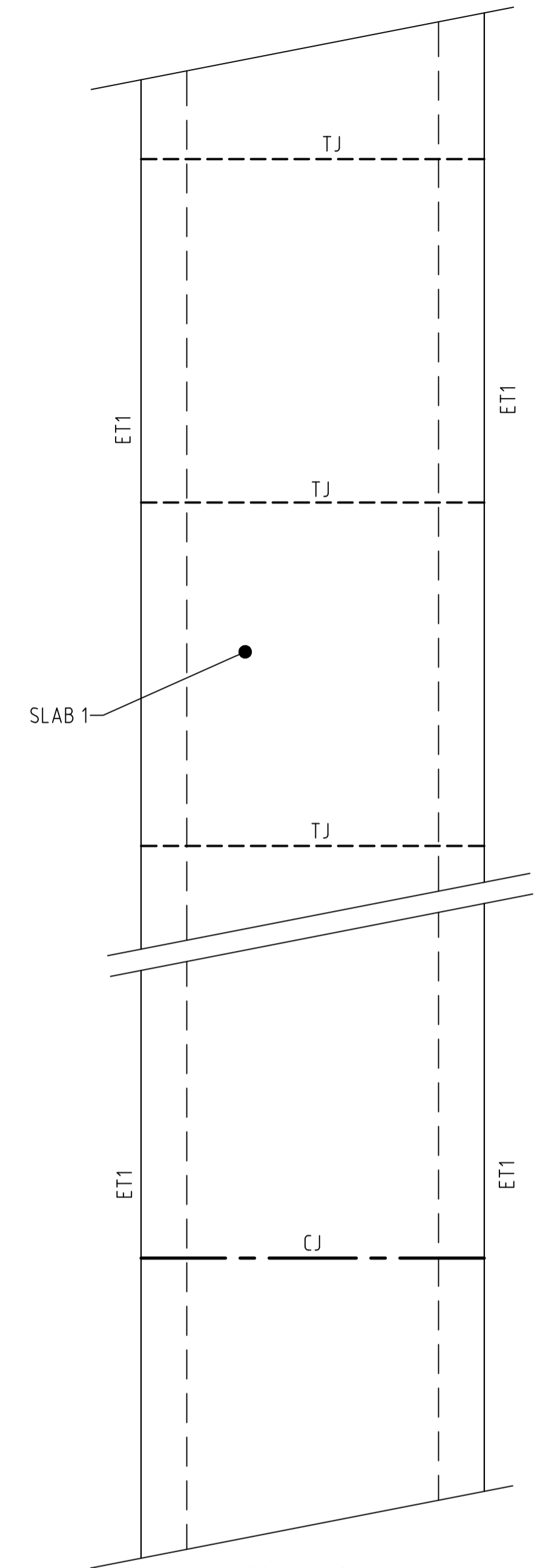
NOTE:  
CONSTRUCTION JOINTS AT MAX. 9.6m CTRS.  
TOOL JOINTS AT MAX. 2.4m CTRS



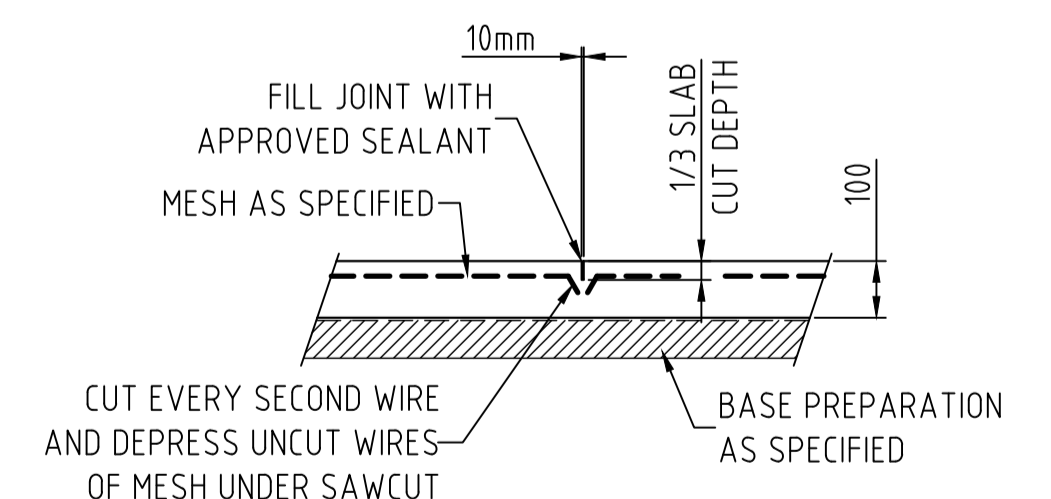
**ET1 - EDGE THICKENING**  
SCALE 1:20



**CJ - CONSTRUCTION JOINT**  
SCALE 1:20



**FOOTPATH SLAB PLAN**  
REDUCTION RATIO 1:20 @ A1  
1:40 @ A3



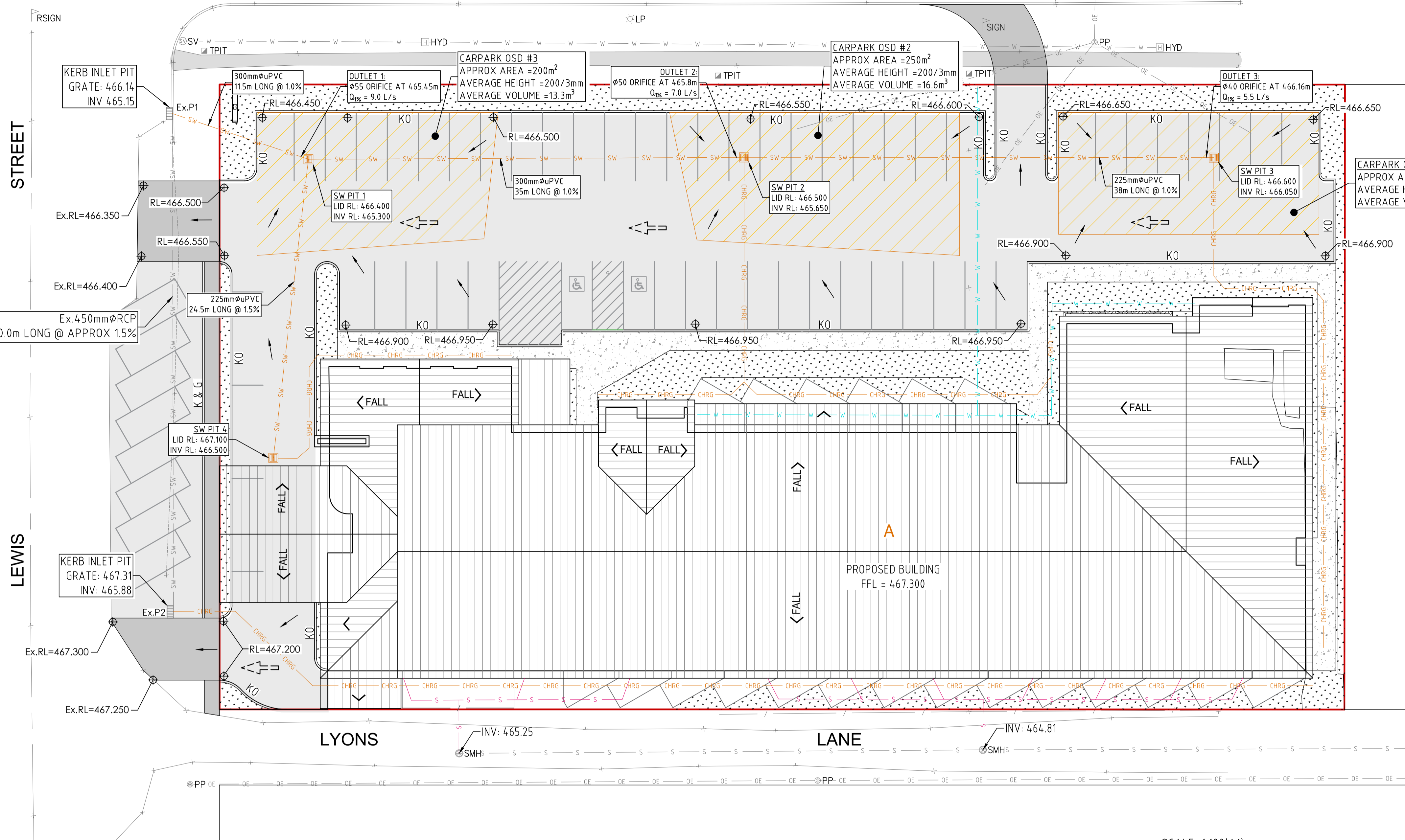
**TJ - TOOL JOINT**  
SCALE 1:20

**SUBMISSION FOR DA**





HORATIO STREET



**LEGEND (existing)**

- EXISTING SUBJECT CADASTRAL BOUNDARIES
- EXISTING FENCE LINE
- EXISTING OVERHEAD ELECTRICAL LINE
- EXISTING LIGHT POLE
- EXISTING POWER POLE
- EXISTING UNDERGROUND WATER MAIN
- EXISTING WATER HYDRANT
- EXISTING STOP VALVE
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- EXISTING UNDERGROUND SEWER PIPE
- EXISTING SEWER MANHOLE
- EXISTING UNDERGROUND STORMWATER PIPE
- EXISTING SIGN
- EXISTING ROAD SIGN

**LEGEND (proposed)**

- PROPOSED AC CAR PARK AND DRIVEWAY AREA
- PROPOSED CONCRETE PAVEMENT AREA
- PROPOSED LANDSCAPE AREA
- PROPOSED ROOF AREA
- PROPOSED STORMWATER PIPE (Ø AS SHOWN)
- PROPOSED CHARGED ROOF DRAINAGE PIPE
- PROPOSED SW PIT, SEE 37806-C07 FOR DETAILS
- PROPOSED SURFACE FALL DIRECTION
- PROPOSED SURFACE FALL DIRECTION
- DESIGN RL'S
- PROPOSED SW PIPE DETAILS

HYDRAULIC CALCULATIONS

- PRE & POST DEVELOPMENT ANALYSIS**  
DESIGN CALCULATIONS AS PER AS3500.3-2018

**A) PRE-DEVELOPED:**

  - TOTAL APPLICABLE CATCHMENT AREA (A) = 4,557.0 sq.m
  - RAINFALL INTENSITY (I) = 196 mm/hr (5min 1% AEP)
  - Cr = RUNOFF COEFFICIENT FOR ROOF AREA = 1.0
  - Ar = TOTAL ROOF AREA = 0sq.m
  - Ci = RUNOFF COEFFICIENT FOR UNROOFED IMPERVIOUS AREA = 0.9
  - Ai = TOTAL UNROOFED IMPERVIOUS AREA = 0sq.m
  - Cp = RUNOFF COEFFICIENT FOR PERVIOUS AREA = 0.3
  - Ap = TOTAL PERVIOUS GRASS AREA = 4,557.0 sq.m
  - TOTAL FLOW Q<sub>PRE</sub> = (Cr Ar + Ci Ai + Cp Ap) / 3600 = 74.43 l/s

**B) POST-DEVELOPED FLOW TO PIT:**

  - TOTAL APPLICABLE CATCHMENT AREA (A) = 4,557.0 sq.m
  - RAINFALL INTENSITY (I) = 196 mm/hr (5min 1% AEP)
  - Cr = RUNOFF COEFFICIENT FOR ROOF AREA = 1.0
  - Ar = TOTAL ROOF AREA = 2,100.0 sq.m
  - Ci = RUNOFF COEFFICIENT FOR UNROOFED IMPERVIOUS AREA = 0.9
  - Ai = TOTAL UNROOFED IMPERVIOUS AREA = 1,824 sq.m
  - Cp = RUNOFF COEFFICIENT FOR PERVIOUS AREA = 0.3
  - Ap = TOTAL PERVIOUS GRASS AREA = 633 sq.m
  - TOTAL FLOW Q<sub>POST</sub> = (Cr Ar + Ci Ai + Cp Ap) / 3600 = 214.05 l/s
- CONTROLLED FLOW FROM RWT**

  - REQUIRED OSD VOLUME = (FLOW Q<sub>POST</sub> - FLOW Q<sub>PRE</sub>) × 5 × 60  
= (214.05 - 74.43) × 5 × 60 = 4890 m<sup>3</sup>
  - TOTAL FLOW TO OSD (CARPARK+PART ROOF) = (Cr Ar + Ci Ai) / 3600  
= (0.9 × 1824 + 1 × 2100) × 196 / 3600 = 149.3 l/s
  - OSD BY PASS (GREEN + PART ROOF) = (Cr Ar + Cp Ap) / 3600  
= (1 × 1000 + 0.3 × 633) × 196 / 3600 = 64.8 l/s
  - ALLOWABLE DISCHARGE FROM OSD = FLOW Q<sub>PRE</sub> - OSD BY PASS  
= (74.43 - 64.8) l/s = 9.63 l/s
  - CONTROLLED DISCHARGE FROM RWT = 9.0 l/s
  - PROPOSED OSD VOLUME = 13.3 + 16.6 + 13.3 = 43.2 m<sup>3</sup>

**STORMWATER PIT SCHEDULE**

MARK	TOP R.L.	DEPTH (mm)	IL INLET	IL OUTLET	LxB	LID TYPE
P4	467.100	600	466.520	466.500	600x600	HD GRATED (GALV)
P3	466.600	550	466.070	466.050	600x600	HD GRATED (GALV)
P2	466.500	950	465.670	465.650	600x600	HD GRATED (GALV)
P1	466.400	1100	465.320	465.300	600x600	HD GRATED (GALV)
Ex.K&G	466.140	990	465.150	465.150	-	Ex. KERB INLET PIT

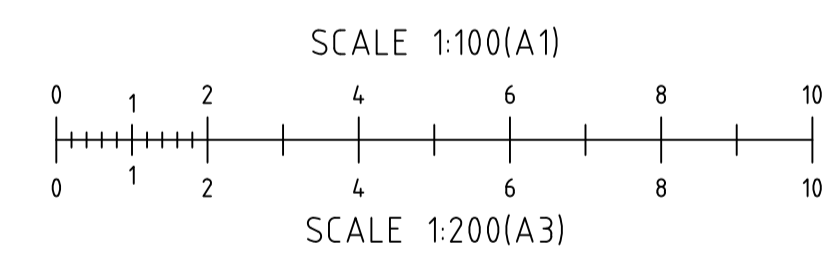
**CATCHMENT, GUTTERS, & DOWNPIPES**

LOCATION	AREA (m <sup>2</sup> )	ROOF PITCH	FLOW l/s	GUTTER (m <sup>2</sup> )	DP's	MAX m <sup>2</sup> /DP
ROOF - A	2100	15°	98.6	18,400	15xØ150	14.0

PROPOSED STORMWATER MANAGEMENT PLAN

REDUCTION RATIO 1:100 @ A1  
1:200 @ A3

**DESIGN NOTE:**  
10% AEP, 5 MIN. INTERVAL  
RAINFALL INTENSITY = 128mm/hr  
5% AEP, 5 MIN. INTERVAL  
RAINFALL INTENSITY = 147mm/hr  
1% AEP, 5 MIN. INTERVAL  
RAINFALL INTENSITY = 196mm/hr



HYDRAULIC CALCULATIONS CONT'D

- ORIFICE CONTROL FLOW CALCULATIONS**

OSD OUTLET 1 - ORIFICE FLOW CALCULATIONS TYPICAL

  - AVAILABLE HEAD ABOVE PIPE CENTER LINE = 1.15m
  - EXIT VELOCITY =  $\sqrt{2gh}$  = 4.75m/s
  - ORIFICE COEFFICIENT = 0.8
  - FLOW THROUGH Ø55 ORIFICE PLATE =  $0.8 \times 4.75 \times 0.055^2 / 4 \times \pi$  = 0.009 m<sup>3</sup>/s
  - CONTROL OUTFLOW THROUGH Ø55 ORIFICE = 9.0 l/s



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Client: GREG DOWKER  
Project: PROPOSED MOTEL AT 59-67 HORATIO STREET MUDGEE NSW 2850  
Drawing Title: PROPOSED STORMWATER MANAGEMENT PLAN

Rev Date Amendment  
A 08-09-2022 ISSUED FOR DA

Design LB Certification  
Drawn MK  
Check LM Drawing Number  
Original Sheet Size = A1  
37806 - C05  
Revision A

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QUATELY INFORM HIMSELF AS TO  
N OF ALL EXISTING SERVICES  
OF CONSTRUCTION.

UNIFORM GRADE BETWEEN INVERT  
MINIMUM COVER MAINTAINED  
PROVED BY THE SUPERINTENDENT.

L PIPES UNLESS OTHERWISE  
ALL BE 300mm. ANY PIPES IN  
TH LESS THAN 300 COVER TO BE

ARGER SHALL BE CLASS 2  
CKET REINFORCED CONCRETE  
S. (U.N.O.) ALL OTHER LINES  
PVC WITH SOLVENT WELD  
000 TO 3000. (U.N.O.)

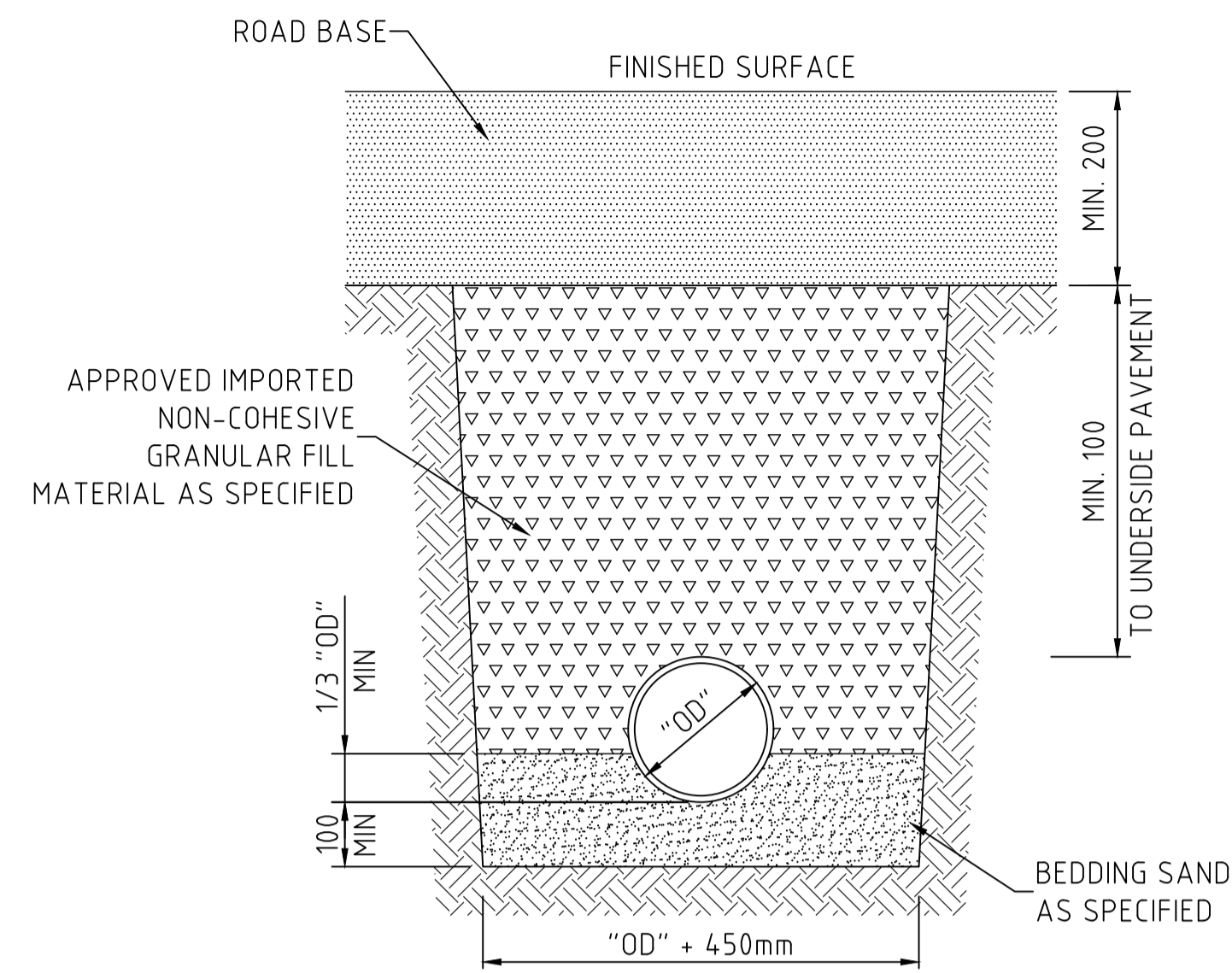
EXISTING DRAINAGE PITS SHALL BE  
LIKE MANNER AND THE INTERNAL  
E POINT OF ENTRY SHALL BE  
SURE A SMOOTH FINISH.

USED AS APPROVED BY THE

E GRANULAR MATERIAL HAVING A  
HIGH STABILITY WHEN SATURATED,  
ADING LIMITS FOR BEDDING SAND AS  
RACT DOCUMENTS. BEDDING SAND  
O A DENSITY INDEX OF 70% AS  
ANCE WITH AS1289.

ANULAR FILL  
AR FILL MATERIAL APPROVED BY  
HALL BE USED. THIS FILL MATERIAL  
N LAYERS NOT EXCEEDING 150mm  
Y OF 95% OF THE STANDARD  
OF THE MATERIAL AND WITH A  
MORE THAN 1% ABOVE OPTIMUM  
ETERMINED IN ACCORDANCE WITH

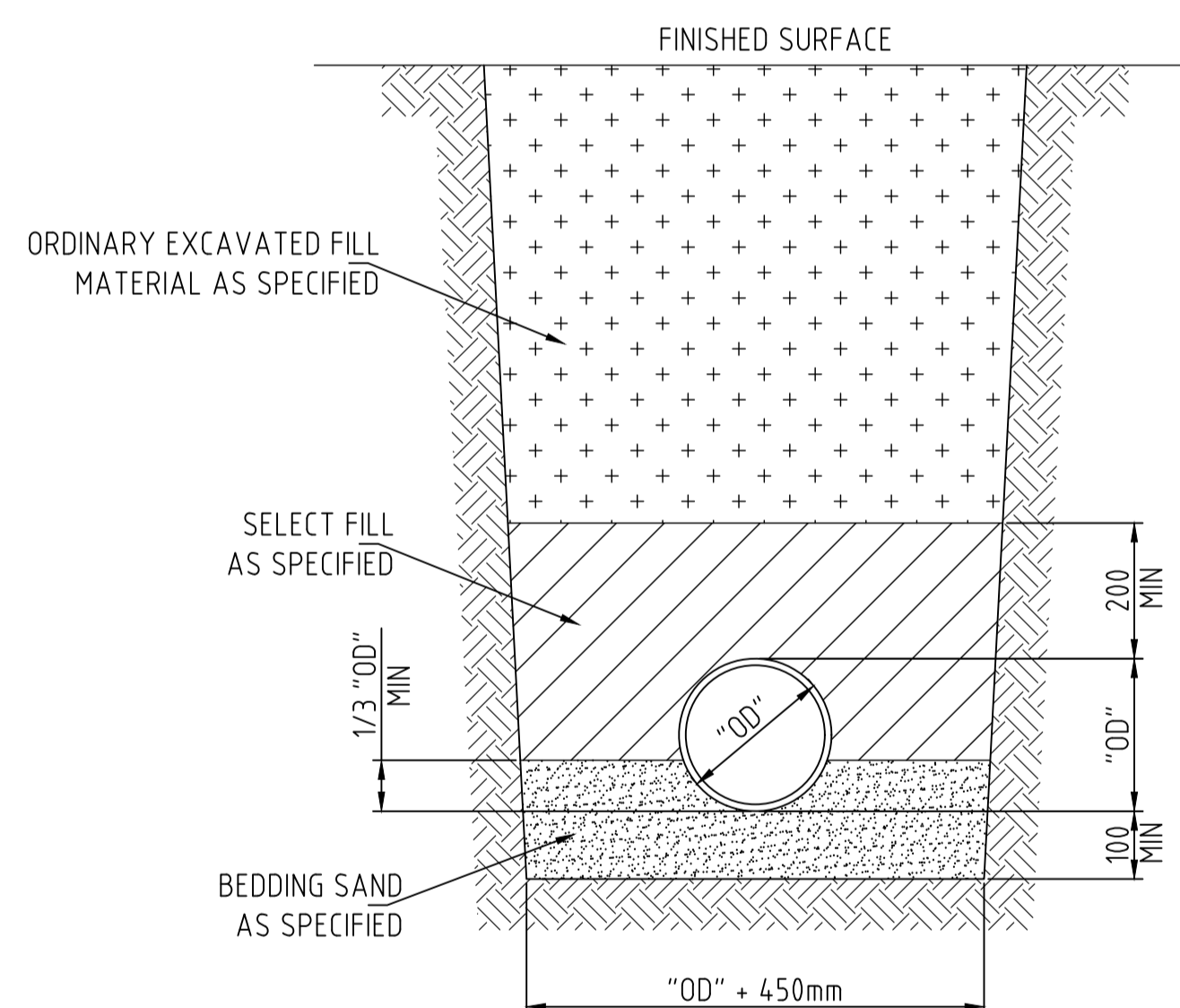
FILL MATERIAL  
L MATERIAL IS EXCAVATED TRENCH  
F VEGETABLE MATTER, HUMUS,  
ROCK BOULDERS. THIS FILL MATERIAL  
LAYERS NOT EXCEEDING 300mm  
0% OF THE STANDRAD MAXIMUM  
ERIAL WITH A MOISTURE CONTENT  
OVE THE OPTIMUM MOISTURE  
IN ACCORDANCE WITH AS1289.



**PIPE TRENCH - ROADWAY**

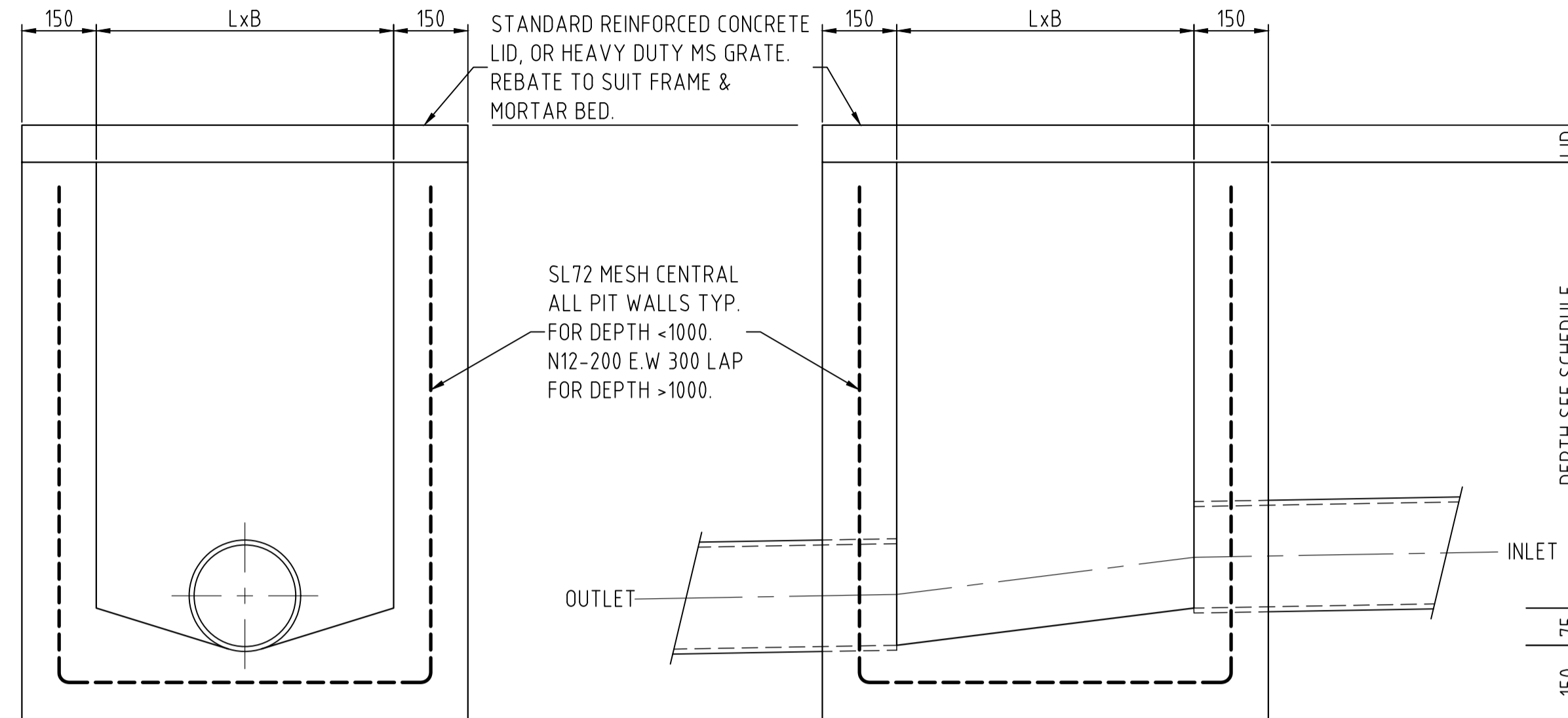
SCALE 1:10

NOTE: PIPE COLLAR IS NOT TO REST ON ORIGINAL MATERIAL



**PIPE TRENCH - EARTH FOUNDATION**

SCALE = 1:10



**STORMWATER PIT**

SCALE = 1:10

PRECAST EQUIVALENT MAY BE USED

PIT DIMENSIONS		
DEPTH	L	B
<= 900	600	600
>900 & <=1200	900	600
>1200	900	900

SEE SCHEDULE L DIMENSION IN DIRECTION OF DOWNSTREAM PIPE.

PROVIDE STEP IRONS IF DEPTH GREATER THEN 1500.

STORMWATER N

1. ALL 225 DIA. I  
SPIGOT & SO  
JOINTS (U.N.O.)  
UPVC WITH S

2. EQUIVALENT

3. ALL PIPE JUN  
SHALL BE VI

4. MINIMUM GRA

5. CONTRACTOR  
SPECIALS INC  
PROPER CON

6. ALL CONNECT  
IN A TRADES  
THE PIT AT T  
TO ENSURE A

7. APPROVED PI

8. WHERE TREN  
A MIN. 50mm  
METAL) UNDE  
NO POINT SH  
SHALL BE LA  
BACKFILL TH  
PIPE WHERE  
REMAINDER O  
BACKFILL CO  
DENSITY

9. WHERE STOR  
SEWER GRAD

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Client: GREG DOWKER

Project: PROPOSED MOTEL AT  
59-67 HORATIO STREET  
MUDGEE NSW 2850

Drawing Title: PROPOSED STORMWATER SPECIFICATIONS

Rev Date Amendment  
A 08-09-2022 ISSUED FOR DA

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Original Sheet Size = A1

**37806 - C06**

Revision

**A**



STREET

LEWIS

HORATIO

STREET

LYONS

LANE

PROPOSED DRIVEWAY AND CARPARK

PROPOSED BUILDING  
FFL = 467.300

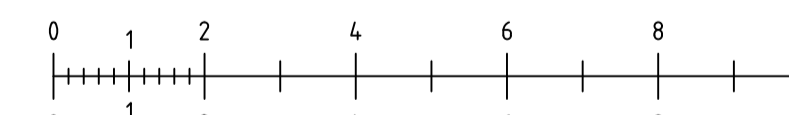
Ex. SEWER MANHOLE  
LID RL= 467.58  
INV RL= 465.25

EXISTING SEWER,  
150mmØ @1.04%

Ex. SEWER MANHOLE  
LID RL= 467.37  
INV RL= 464.81

**PROPOSED SEWER PLAN**  
REDUCTION RATIO 1:100 @ A1  
1:200 @ A3

SCALE 1:100(A1)



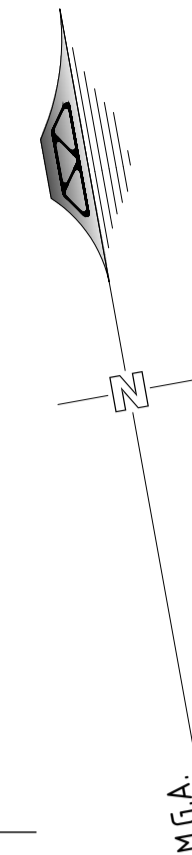
SCALE 1:200(A3)

**LEGEND**

- / — EXISTING SUBJECT CADASTRAL BOUNDARIES
- / — EXISTING FENCE LINE
- E — E — EXISTING OVERHEAD ELECTRICAL LINE
- ☆ LP EXISTING LIGHT POLE
- ⊙ PP EXISTING POWER POLE
- W — W — EXISTING UNDERGROUND WATER MAIN
- ⊠ HYD EXISTING WATER HYDRANT
- ⊙ SV EXISTING STOP VALVE
- T — T — EXISTING UNDERGROUND TELECOMMUNICATIONS ASSETS
- ⊠ TPIT EXISTING TELECOMMUNICATIONS PIT
- S — S — EXISTING UNDERGROUND SEWER PIPE
- ⊙ SMH EXISTING SEWER MANHOLE
- SW — SW — EXISTING UNDERGROUND STORMWATER PIPE
- ⊠ SIGN EXISTING SIGN
- ⊠ R SIGN EXISTING ROAD SIGN

**LEGEND (proposed)**

- S — S — PROPOSED SEWER PIPE (Ø AS SHOWN)
- ⊙ SMS PROPOSED SEWER MAINTENANCE SHAFT, SEE 37806-C08
- IO INSPECTION OPENING



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Client: GREG DOWKER  
Project: PROPOSED MOTEL AT  
59-67 HORATIO STREET  
MUDGEE NSW 2850  
Drawing Title: PROPOSED SEWER PLAN

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Revision

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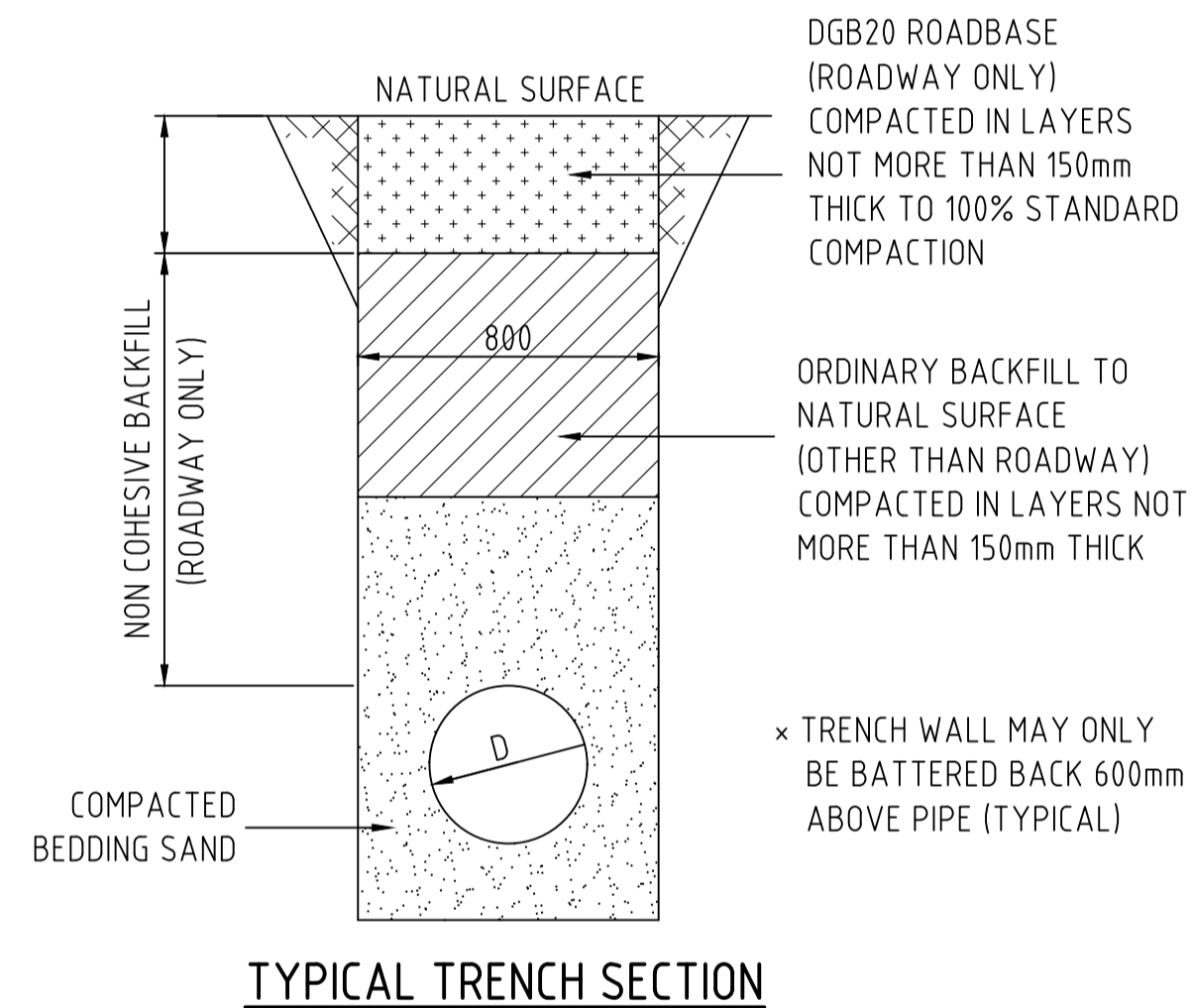


**SEWER MAIN NOTES**

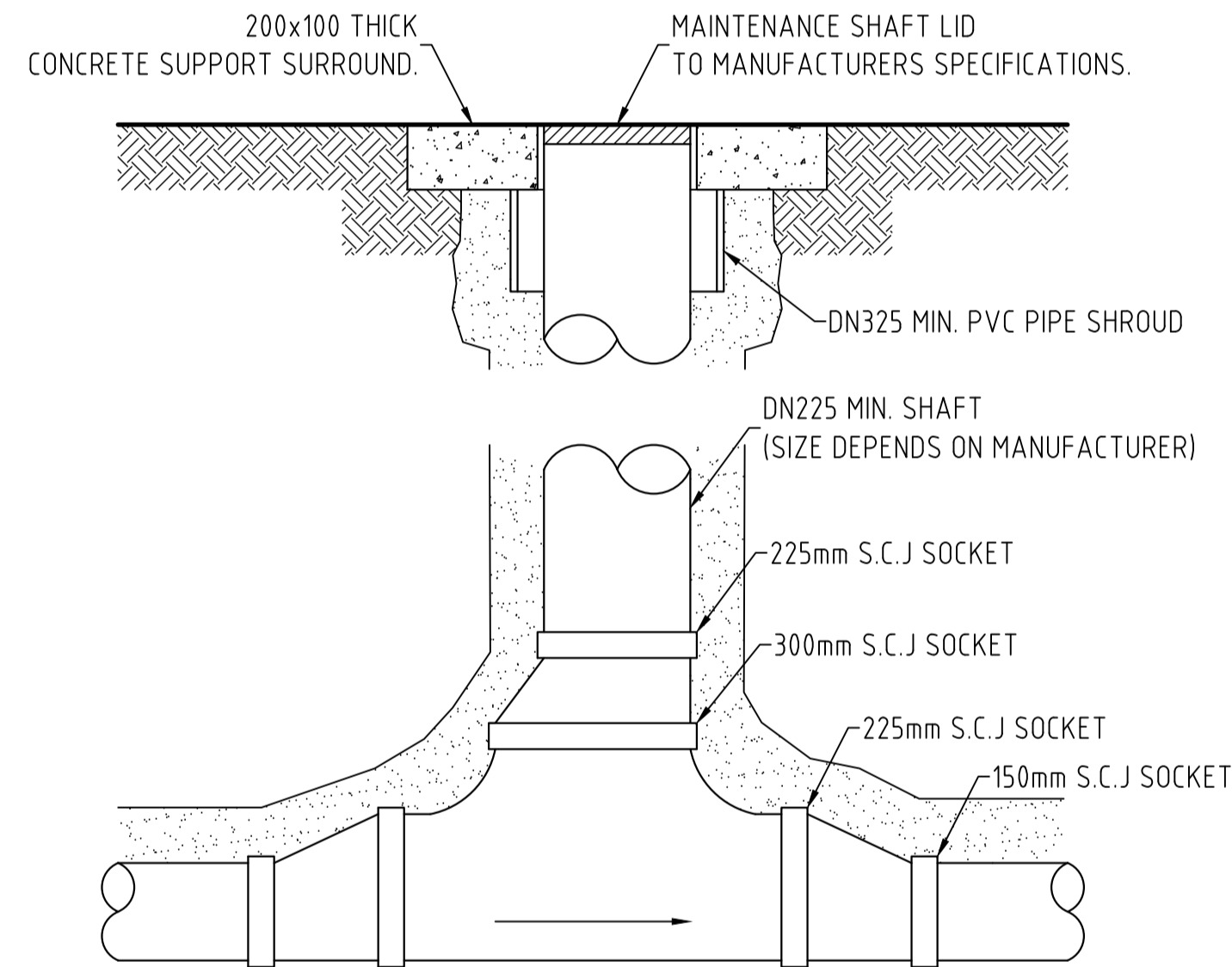
1. ALL SEWER MAINS SHALL BE CLASS SN8 RRJ UPVC PIPE U.N.O (3m MAX LENGTH). ALL GRAVITY LINES TO USE SEWER GRADE FITTINGS WHERE REQUIRED.
2. CONSTRUCTION OF SEWER MAINS AND MANHOLES SHALL BE CARRIED OUT IN ACCORDANCE WITH THE WSA SEWERAGE CODE, WSA-02, 2002.
3. ANY OTHER SERVICES INCLUDING TELSTRA, GAS, POWER, WATER AND STORMWATER MUST BE LOCATED BEFORE WORK COMMENCES.
4. MANHOLES SHALL BE PRECAST CONCRETE FROM A SUPPLIER APPROVED BY COUNCIL AND HAVE STEP IRONS AT 300mm SPACING, AND A MINIMUM INTERNAL DIAMETER OF 1020mm.
5. 150mmØ BOUNDARY RISERS SHALL BE PROVIDED TO EACH LOT TO THE REQUIREMENTS OF THE MANAGER, HEALTH AND BUILDING.
6. RISERS AND SIDELINES TO BE CONSTRUCTED TO WSA-02 2002.
7. FLOW LINE CHANNELS AND INTERSECTIONS SHALL BE CONSTRUCTED THROUGH MANHOLES AS PER WSA-02 2002.
8. ALL SEWER MAINS TO BE PRESSURE TESTED AS PER WSA-02 2002 AND THE REQUIREMENTS OF COUNCIL.

**SEWER BEDDING NOTES**

1. THE MINIMUM DEPTH TO TOP OF PIPE SHALL BE 600mm, EXCEPT UNDER ROAD PAVEMENT WHERE MINIMUM COVER TO TOP OF PIPE SHALL BE 800mm MINIMUM UNLESS SHOWN OTHERWISE. PIPES WITH LESS COVER THAN THESE LIMITS TO BE CONCRETE ENCASED, AND DICL UNDER ROADS.
2. GRADES OF GRAVITY MAINS NOT TO BE FLATTER THAN 1 IN 200 (0.5%) FOR 150mm DIAMETER PIPES AS PER DESIGN, UNLESS APPROVED BY COUNCIL.
3. MANHOLES SHALL BE PLACED AT EACH CHANGE IN DIRECTION OR GRADE OF THE PIPE LINE AT INTERVALS ALONG THE LINE NOT EXCEEDING 80m.



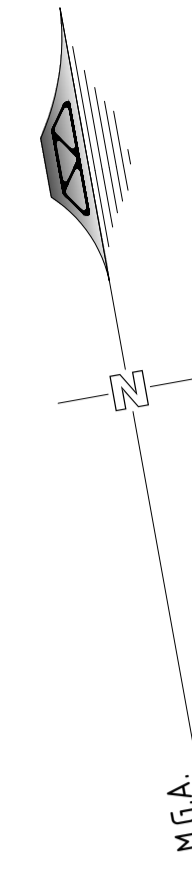
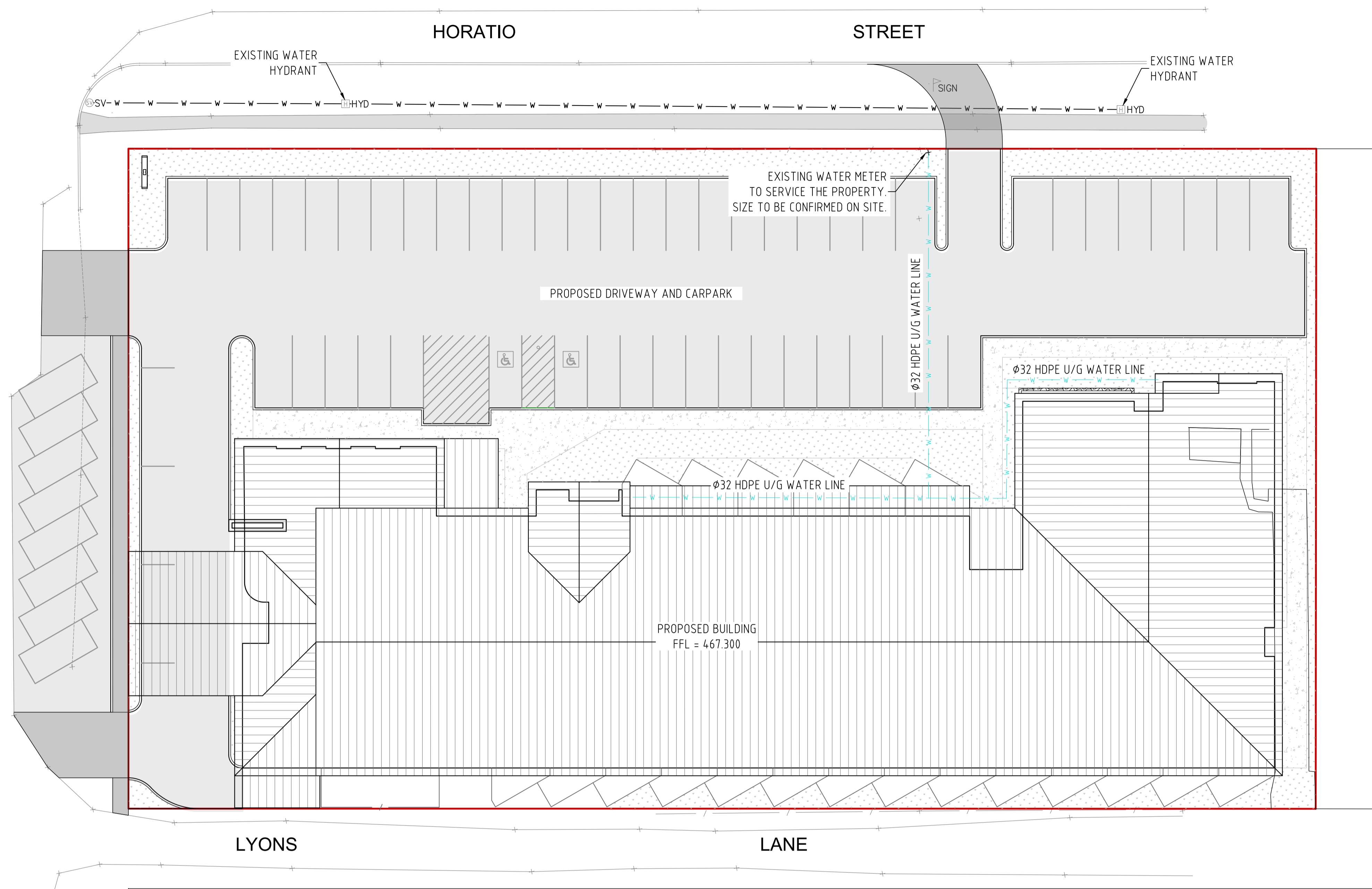
x INSTALLATION OF UPVC PIPES SHALL TO CONFORM TO AS2032-1977 "INSTALLATION OF UPVC PIPE SYSTEMS", AS2566-1998 "BURIED FLEXIBLE PIPELINES", WSA-02 2002 AND MANUFACTURERS INSTRUCTIONS.



SCALE = NTS  
NOTE: PIPE COLLAR IS NOT TO REST ON ORIGINAL MATERIAL

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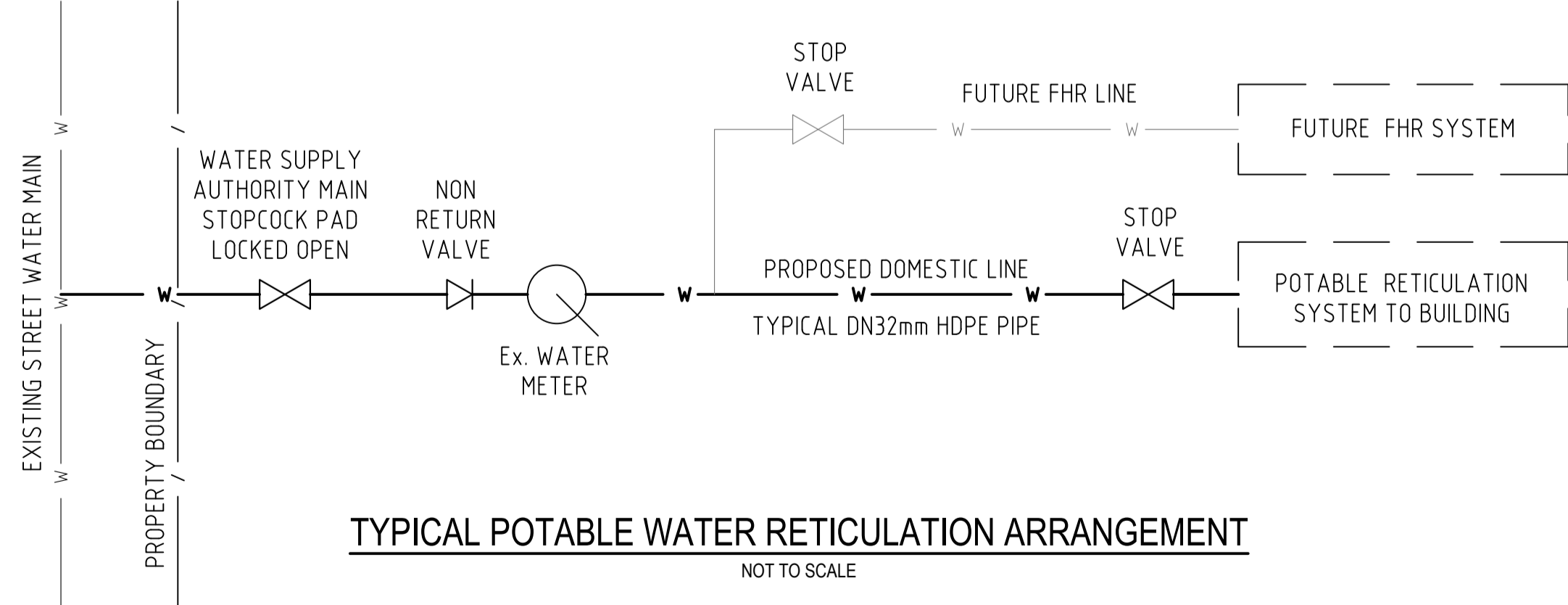
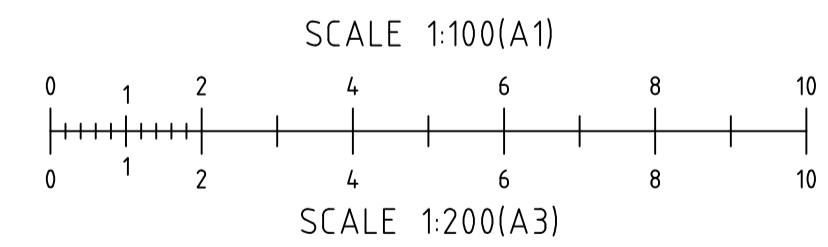


LEGEND	
	EXISTING SUBJECT CADASTRAL BOUNDARIES
	EXISTING FENCE LINE
	EXISTING OVERHEAD ELECTRICAL LINE
	EXISTING LIGHT POLE
	EXISTING POWER POLE
	EXISTING UNDERGROUND WATER MAIN
	EXISTING WATER HYDRANT
	EXISTING STOP VALVE
	EXISTING UNDERGROUND TELECOMMUNICATIONS ASSETS
	EXISTING TELECOMMUNICATIONS PIT
	EXISTING UNDERGROUND SEWER PIPE
	EXISTING SEWER MANHOLE
	EXISTING UNDERGROUND STORMWATER PIPE
	EXISTING SIGN
	EXISTING ROAD SIGN

- GENERAL WATER RETICULATION NOTES:**
- ALL PLUMBING WORKS SHALL BE IN ACCORDANCE WITH AS 3500, LOCAL WATER AUTHORITY, THE BUILDING CODE OF AUSTRALIA, & WATER GUIDELINES.
  - LIASE WITH THE LOCAL WATER AUTHORITY AND PLUMBING INDUSTRY COMMISSION AND ALLOW TO PAY ALL REQUIRED FEES/LEVIES ETC. ASSOCIATED WITH THE WORKS.
  - FIXTURES, TAP WARE & FITTINGS SHALL BE SUPPLIED & INSTALLED AS PER ARCHITECTS SELECTION. REFER BUILDING WORKS SPECIFICATION. CONCEAL ALL PIPES WITHIN WALLS. NO SURFACE MOUNTED PIPING IS ACCEPTABLE. INCLUDE RETICULATION OF DOMESTIC HOT AND COLD WATER TO ALL FIXTURES - REFER ARCHITECT'S PLANS.
  - COORDINATE ALL WORKS WITH ALL OTHER SERVICES. CHECK LEVELS OF ALL PIPES PRIOR TO WORKS.
  - THE PLUMBING CONTRACTOR SHALL CARRY OUT ALL EXCAVATION, SHORING AND BACKFILLING. BACK FILL WITH CONSOLIDATED CLASS 2 CRUSHED ROCK WHERE SERVICES ARE BELOW PATHS, ROADS ETC. 98% COMPACTION DRY DENSITY.
  - ALL PIPEWORK SHALL BE CONCEALED WITHIN WALL CAVITIES, DUCTS, VANITIES AND CEILING SPACES. INSTALL PIPEWORK SUCH THAT NO WATER HAMMER OCCURS. SHOULD WATER HAMMER OCCUR RECTIFY AS REQUIRED.
  - PIPING, VALVES LOCATED UNDERGROUND SHALL WHERE REQUIRED BE WRAPPED WITH AN APPROVED MATERIAL.
  - THE PLUMBING CONTRACTOR SHALL SUPPLY AND INSTALL, TEST AND COMMISSION ALL PLUMBING SYSTEMS AS NOTED ON DRAWINGS. ALL WORKS TO BE IN ACCORDANCE WITH AS 3500 RELEVANT PARTS, LOCAL WATER AUTHORITY, FIRE AUTHORITY AND BUILDING CODE OF AUSTRALIA.
  - TESTING OF WATER SERVICES SHALL BE AS PER AS3500.12:1998 i.e. AT 1500KPa FOR A PERIOD OF NOT LESS THAN 30 MINUTES. WORKS MUST BE TESTED PRIOR TO CONCEALMENT. TEST SECTIONS OF WORK (STAGES) AS REQUIRED. TESTING OF FIRE SERVICES SHALL BE TO AUTHORITIES REQUIREMENTS INCLUDING FLOW/PRESSURE TESTS, HOSE REELS AND HYDROSTATIC TESTS BY AN INDEPENDENT FIRE TESTER.
  - MATERIALS:
    - WATER SERVICES TO BE POLYETHYLENE PIPE TO AS3500.1, FITTING TO COMPLY WITH AS 1589.
    - FIRE SERVICES SHALL BE COPPER TYPE A TO AS 1432
    - HOT WATER SERVICES SHALL BE LAGGED WITH 19mm ARMAFLEX.
  - PROVIDE CONCRETE THRUST BLOCKS AS PER PIPE MANUFACTURERS REQUIREMENTS AND AS PER AS3500.12:1998.
  - VALVES SHALL BE AS FOLLOWS:
    - TEMPERING VALVES RMC OR APPROVED EQUAL.
    - ALL ISOLATING VALVES TO BE BRONZED GATE VALVES WITH NON RISING SPINDLE TYPE.
    - ALL VALVES TO BE FULLY TESTED.
    - PROVIDE CAST IRON VALVE BOXES TO ALL IN GROUND VALVES.
    - PROVIDE ISOLATING VALVES AS REQUIRED BY STANDARDS.
  - PROVIDE VACUUM BREAKERS TO ALL HOSE BIBBS.
  - OTHER REQUIREMENTS: - PRIOR TO COMPLETION OF DEFECTS WARRANTY PERIOD CARRY OUT A MAINTENANCE VISIT AND CHECK THE COMPLETE SYSTEM INCLUDING ALL EQUIPMENT TAPWARE ETC.
  - ALLOW FOR ALL AUTHORITIES CHARGES INCLUDING METERS & INSTALLATION, APPLICATION FEES, CONNECTION AND TAPPING FEES FOR WATER. CLEARLY IDENTIFY IN TENDER WITH DETAILED BREAKDOWN.
  - PROVIDE IDENTIFICATION (LABELS) TO ALL PIPING
  - AVAILABLE WATER PRESSURE & FLOW RATES TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION TO ENSURE COMPLIANCE WITH AS3500.

**PROPOSED WATER PLAN**  
REDUCTION RATIO 1:100 @ A1  
1:200 @ A3

LEGEND (proposed)	
	PROPOSED WATER MAIN LINE (Ø AS SHOWN)
	EXISTING WATER METER



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 Project: PROPOSED MOTEL AT 59-67 HORATIO STREET MUDGEE NSW 2850  
 Drawing Title: PROPOSED WATER PLAN

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Original Sheet Size = A1		37806 - C09	A