BELLAMY STREET & STEVENS STREET, PENNANT HILLS PROPOSED TRAFFIC IMPROVEMENTS

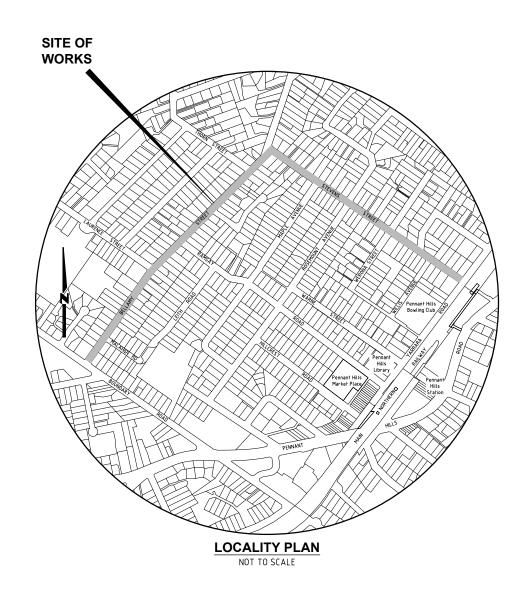
LEGEND



TREE PROTECTION ZONE.

STRUCTURAL ROOT ZONE.

DRAWING SCHEDULE							
SHEET No.	TITLE	ISSUE					
1	DRAWING SCHEDULE, LOCALITY PLAN & LEGEND.	1					
2	PROJECT NOTES.	1					
3	TYPICAL CONCRETE DETAILS & NOTES.	1					
4	OVERALL LAYOUT PLAN.	1					
5	GENERAL WORKS & SERVICES PLAN - SHEET 1 OF 5.	1					
6	GENERAL WORKS & SERVICES PLAN - SHEET 2 OF 5.	1					
7	GENERAL WORKS & SERVICES PLAN - SHEET 3 OF 5.	1					
8	GENERAL WORKS & SERVICES PLAN - SHEET 4 OF 5.	1					
9	GENERAL WORKS & SERVICES PLAN - SHEET 5 OF 5.	1					
10	ENLARGED DETAILED PLAN.	1					
11	RAISED BLISTER ISLAND TYPICAL DETAILS & SECTION.	1					
12	RAIN GARDEN ISLAND TYPICAL DETAILS & SECTIONS.	1					
13	RAISED PEDESTRIAN CROSSING PLAN & SECTIONS.	1					
14	RAISED PEDESTRIAN CROSSING & REFUGEE ISLANDS SETOUT PLAN.	1					
15	RAISED PEDESTRIAN CROSSING SIGNS & LINE MARKING PLAN.	1					
16	STORMWATER CATCHMENT PLAN.	1					



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BELLAMY ST & STEVENS ST, PENNANT HILL PROPOSED TRAFFIC IMPROVEMENTS

DRAWING SCHEDULE, LOCALITY PLAN & LEGEND

	Senior Traffic Engineer	
	Name: R. ZARZYCKI Telephone: 984	7 6684
	Accepted as complying with the general intent of the de	sign brief
	Signed: Date:	
	Project Number	
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& ROAD SAFETY

GENERAL NOTES:

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS & SPECIFICATIONS OF HORNSBY SHIRE COUNCIL
- 2. LEVELS SHALL BE OBTAINED FROM ESTABLISHED BENCH MARKS & NOT FROM SURVEY PEGS.
- PROVIDE TRAFFIC MANAGEMENT, LINEMARKING & SIGNAGE IN ACCORDANCE WITH "THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" / AS1742 REQUIREMENTS.
- SERVICES SHOWN ON THESE PLANS HAVE BEEN LOCATED FROM INFORMATION SUPPLIED FROM THE RELEVANT AUTHORITIES VIA A "DIAL BEFORE YOU DIG" ENQUIRY. THE LOCATION OF SERVICES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED AS ACCURATELY AS POSSIBLE FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES & FIELD INVESTIGATIONS & ARE TO BE VERIFIED PRIOR TO CONSTRUCTION
- EROSION & SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE LANDCOM PUBLICATION: - "MANAGING URBAN STORMWATER, SOILS & CONSTRUCTION" Vol. 1, 4th EDITION.
- ALL DISTURBED AREAS OF THE SITE ARE TO BE REINSTATED WITH EXISTING OR MATCHING MATERIALS UNLESS NOTED OTHERWISE AT THE COMPLETION OF THE WORKS
- ARRANGE SET-OUT BY HORNSBY SHIRE COUNCIL DESIGN & CONSTRUCTION BRANCH SURVEYOR. NOTIFY ENGINEERING SURVEYOR A MINIMUM OF 24 HOURS IN ADVANCE
- WHERE PAVEMENT RESURFACING IS UNDERTAKEN ENSURE ALL BLUE HYDRANT MARKER RRPM'S ARE REINSTATED AT THE COMPLETION OF WORKS.

ACCESS & SAFETY NOTES:

- THE CONSTRUCTOR SHALL COMPLY WITH ALL STATUTORY & INDUSTRIAL REQUIREMENTS FOR PROVISION OF A SAFE WORKING ENVIRONMENT INCLUDING TRAFFIC CONTROL.
- 2. THE CONSTRUCTOR SHALL PROVIDE TRAFFIC MANAGEMENT PLANS FOR THE PROPOSED WORKS COMPLETED BY A SUITABLY QUALIFIED PERSON & APPROVED BY COUNCIL/REGULATORY AUTHORITY. WORK IS NOT TO COMMENCE ON SITE PRIOR TO APPROVAL OF TRAFFIC MANAGEMENT SCHEME.
- THE CONSTRUCTOR SHALL ENSURE THAT AT ALL TIMES ACCESS TO BUILDINGS/RESIDENCES ADJACENT TO THE WORKS IS NOT DISRUPTED, INCLUDING THE FIRE STATION
- 4. WHERE NECESSARY THE CONSTRUCTOR SHALL PROVIDE SAFE PASSAGE OF VEHICLES AND/OR PEDESTRIANS THROUGH OR BY THE SITE.
- THE CONSTRUCTOR SHALL ENSURE PUBLIC ACCESS EXTERNAL TO THE SITE IS IN ACCORDANCE WITH COUNCIL REQUIREMENTS

SIGNS & LINE MARKING NOTES:

- SIGNS & LINE MARKING TO BE INSTALLED IN ACCORDANCE WITH MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES / AS1742 REQUIREMENTS
- WHERE POSSIBLE EXISTING SIGNAGE IS TO BE CLEANED & REUSED TO SUIT NEW WORK
- 3 KERB ON MEDIAN ISLAND SHALL BE PAINTED WITH REELECTIVE WHITE PAINT
- ALL NEW SIGNS TO BE SIZE A.
- TEMPORARY 'CHANGED TRAFFIC CONDITIONS AHEAD' (T1-23) SIGNS TO BE INSTALLED ON ALL APPROACHES APPROXIMATELY 100m FROM LIMIT OF WORKS (TYPICAL) AT THE COMMENCEMENT OF WORKS & UNTIL 6 MONTHS AFTER COMPLETION
- 7. GRIND OFF REDUNDANT LINE MARKING & REMOVE REDUNDANT RRPMs.
- APPROVED BY LOCAL TRAFFIC COMMITTEE _____ _ - REFERENCE: _

SEDIMENT & EROSION CONTROL NOTES:

- NO WORK SHALL BE UNDERTAKEN UNTIL ALL SEDIMENT & EROSION CONTROL MEASURES ARE IN PLACE & HAVE BEEN APPROVED BY THE CONSTRUCTION ENGINEER
- 2. ALL SEDIMENT CONTROL STRUCTURES TO BE INSPECTED BY THE SITE SUPERVISOR ON A DAILY BASIS & SIGNED OFF ON THE BACK OF THE DAY SHEET. A CHECKLIST SHALL BE HANDED OVER TO THE PROJECT MANAGER AT THE END OF EACH DAY. STRUCTURES WILL ALSO BE INSPECTED AFTER EACH RAINFALL EVENT FOR STRUCTURAL DAMAGE & ALL TRAPPED SEDIMENT TO BE REMOVED TO A NOMINATED SOIL STOCKPILE SITE. THE CONSTRUCTION ENGINEER MUST INFORM ALL CONTRACTORS & SUB-CONTRACTORS OF THEIR OBLIGATIONS UNDER THE EROSION CONTROL PLAN.
- SELECTIVE CLEARING OF VEGETATION TO BE RESTRICTED TO NOMINATED AREAS WITH CLEARED VEGETATION
- TREES NEAR THE CONSTRUCTION ZONE NOT OTHERWISE PROTECTED BY FENCING SHALL BE PROTECTED IN ACCORDANCE WITH AS4970 SECTION 4.5. ALTERNATIVE PROTECTION MEASURES SATISFYING THE PROJECTS ABORIST'S REQUIREMENTS IS ACCEPTABLE. TRUNK PROTECTION SHOULD BE MAINTAINED INTACT UNTIL THE COMPLETION OF ALL WORK ON THE SITE. ALL TREES REQUIRING REMOVAL ARE SHOWN ON THIS PLAN & SHALL BE MARKED ACCORDINGLY PRIOR TO REMOVAL
- TOPSOIL FROM AREAS THAT WILL BE DISTURBED TO BE STRIPPED & STOCKPILED AT THE NOMINATED SITE.
- A MINIMUM STOCK OF THE FOLLOWING SHALL BE KEPT ON SITE AT ALL TIMES:
- (A) 50m ROLL OF SEDIMENT FENCE & PEGS.
- 50m ROLL OF BIDIM GEOTEXTILE.
- ANY DISTURBED AREA OF LAND SHALL BE COMPACTED AT THE END OF EACH WORKING DAY & BEFORE ANY
- CONSTRUCTION AREA IS TO BE LIMITED AS SHOWN TO MINIMISE DISTURBANCE
- SEDIMENT FENCING SHALL BE PLACED AROUND ANY STOCKPILE AREA.
- ALL EROSION & SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE LANDCOM PUBLICATION: - "MANAGING URBAN STORMWATER, SOILS & CONSTRUCTION" Vol. 1, 4th EDITION.
- 11 ALL DISTURBED AREAS SHALL BE TURFED WITHIN 14 DAYS OF FINAL TRIMMING

SUBSOIL DRAINAGE NOTES:

- 1. SUBSOIL DRAINAGE TO BE INSTALLED AS DIRECTED BY SUPERVISING CONSTRUCTION ENGINEER
- SUBSOIL FLUSHING POINTS TO BE INSTALLED AT ALL U/S ENDS OF LINES & AT 60m MAXIMUM CENTRES. CONNECT SUBSOIL PIPES TO STORMWATER PITS.

ABORIGINAL ARTEFACT NOTES:

1. AN AHIMS WEB SEARCH HAS BEEN UNDERTAKEN FOR THIS PROJECT (REF: 720402). ALTHOUGH NO ARTIFACTS HAVE BEEN IDENTIFIED IN THIS SEARCH SHOULD ANY POTENTIAL ARTIFACTS BE UNCOVERED THEY ARE NOT TO BE REMOVED FROM THE SITE & SHALL BE IMMEDIATELY REPORTED TO COUNCIL'S PROJECT

TREE PROTECTION MEASURES:

ALL WORKS WITHIN THE TREE PROTECTION ZONE OF ANY TREE/S TO BE RETAINED SHOULD NOT REDUCE THE USEFUL LIFE EXPECTANCY OF THE TREE/S & BE CARRIED OUT UNDER THE SUPERVISION OF AN 'AQF LEVEL 5

TREE PROTECTION ZONES (TPZ)

TREE SIZE TPZ TREES WITH A DIAMETER AT BREAST HEIGHT GREATER THAN 800mm 9п TREES WITH A DIAMETER AT BREAST HEIGHT BETWEEN 400mm & 800mm 7m TREES WITH A DIAMETER AT BREAST HEIGHT LESS THAN 400mm 4m

SOIL LEVELS WITHIN THE TREE PROTECTION ZONE OF TREES TO BE RETAINED SHOULD REMAIN AT EXISTING GRADE & UNDISTURBED. EXCAVATION WITHIN THE TREE ROOT ZONE OF TREES TO BE RETAINED SHOULD BE CARRIED OUT BY HAND EXCAVATION ONLY HAND EXCAVATION SHOULD BE CARRIED OUT UNDER THE SUPERVISION OF A QUALIFIED ARBORIST IN SUCH A MANNER THAT IS NON-INJURIOUS TO ANY ROOTS REVEALED. NO TREE ROOT GREATER THAN 30mm DIAMETER LOCATED WITHIN THE TPZ OF ANY TREE TO BE RETAINED SHOULD BE SEVERED OR INJURED IN THE PROCESS OF ANY WORKS.

TREE ROOTS LESS THAN 30mm IN DIAMETER REQUIRED TO BE SEVERED SHALL BE CUT CLEANLY BY HAND BY A QUALIFIED & EXPERIENCED ARBORIST OR HORTICULTURIST WITH MINIMUM QUALIFICATIONS OF HORTICULTURAL CERTIFICATE OR TREE SURGERY CERTIFICATE (AQF 3).

- 2. ALL PRUNING SHALL BE UNDERTAKEN AS SPECIFIED IN AS 4373-2009 'PRUNING OF AMENITY TREES'.
- THE FILLING OR STOCKPILING OF BUILDING MATERIALS, PARKING OF VEHICLES OR PLANT, THE USE OF MACHINERY OTHER THAN HAND HELD, DISPOSAL OF CEMENT SLURRY, WASTE WATER OR OTHER CONTAINMENTS MUST REMAIN OUTSIDE THE TREE ROOT ZONE OF ANY TREE TO BE RETAINED.
- 4. ANY MECHANICAL DAMAGE TO TREES OR CHEMICAL SPILLS WITHIN THE TPZ MUST BE REPORTED TO THE PROJECT SUPERVISOR/MANAGER
- BARRIER MESH FENCING SHALL BE ERECTED AROUND RETAINED TREES TO ENSURE THEY ARE PROTECTED FROM MACHINERY MISTAKENLY TRAVERSING BETWEEN TREES, THIS CAN BE IDENTIFIED/ DIRECTED BY PROJECT

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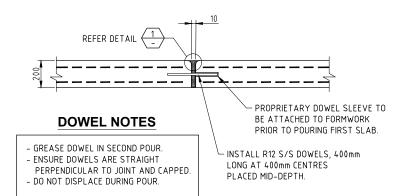
BELLAMY ST & STEVENS ST, PENNANT HILLS PROPOSED TRAFFIC IMPROVEMENTS **BOUNDARY ROAD TO YARRARA ROAD**

PROJECT NOTES

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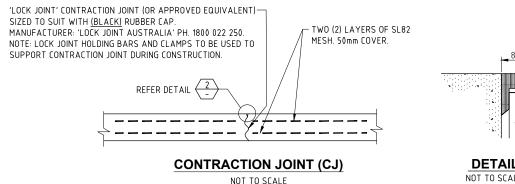


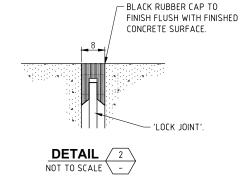
DOWELLED EXPANSION JOINT (DEJ)

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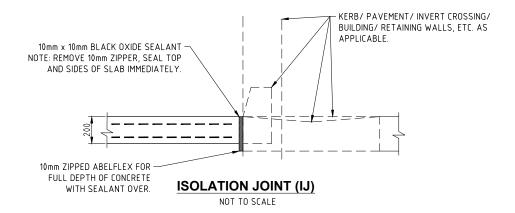
*TOOLED FINISH THE SAME TOOL EDGE FINISHING PROFILE TO BE APPLIED AT ALL - 10mm x 10mm BLACK OXIDE 'THERMO DYMONIC NT' JOINTS AND ALONG SIDES OF PATH SEALANT (OR EQUIV.). NOTE: REMOVE 10mm ZIPPER, SEAL TOP AND SIDES OF SLAB IMMEDIATELY. 10 THICK ZIPPED 'ABELFLEX' FOAM TO BE POSITIONED 7mm BELOW TOP OF SLAB AND TO EXTEND TO BASE OF DETAIL SLAB TO ALLOW FOR 7mm RADIUS CREATED BY EDGE

TOOL. CUT BACK 10mm FROM SLAB EDGE TO ALLOW FOR





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CONCRETE NOTES

d) CONCRETE SLUMP: 80mm U.N.O.

(USING STEEL REINFORCED CONCRETE U.N.O.)

1. MATERIALS AND CONSTRUCTION: TO AS 3600, AS 3610. STEEL REINFORCEMENT MATERIALS: TO AS 4671.

CONCRETE QUALITY: READY MIX CONCRETE: TO AS 1379 a) DO NOT USE ADMIXTURES WITHOUT WRITTEN APPROVAL FROM SUPERVISING ENGINEER. b) CEMENT: TYPE 'GP' OR 'GB' TO AS 3972. c) MAXIMUM SIZE OF COARSE AGGREGATE: 20mm.

ELEMENT	CHARACTERISTIC CONCRETE STRENGTH(f'c) AT 28 DAYS	COVER	SPECIAL REQUIREMENTS	COLOUR
PLATFORM	S 32 (U.N.O.)	AS DETAILED	BROOM FINISH	BLACK OXIDE
PLATFORM RAMPS	S 32 (U.N.O.)	AS DETAILED	BROOM FINISH	PLAIN CONCRETE
BLISTERS INFILL	S 25 (U.N.O.)	AS DETAILED	BROOM FINISH	TERRACOTTA OXIDE
KERB	S 25 (U.N.O.)	REO NOT REQUIRED	SMOOTH TROWEL	PLAIN CONCRETE

- 3 VERIEY STRENGTH BY PRODUCTION CONTROL TESTING TO AS 1379
- 4. NO UNSPECIFIED HOLES, DUCTING OR CHASES ARE PERMITTED WITHOUT WRITTEN APPROVAL FROM SUPERINTENDENT (SUPERVISING OFFICER). NO PIPES OR CONDUITS ARE PERMITTED WITHIN CONCRETE COVER.
- 5. STRUCTURAL DIMENSIONS DO NOT INCLUDE TOPPINGS OR FINISHES.
- FORM CONSTRUCTION JOINTS ONLY AT LOCATIONS SHOWN ON DRAWINGS. DO NOT VARY WITHOUT WRITTEN APPROVAL FROM SUPERVISING ENGINEER.
- 7. PREPARE COLD JOINTS BY LIGHT SCABBLING, REMOVAL OF DEBRIS & WASHING WITH CLEAN WATER.
- FOUNDATION MATERIALS MUST BE CAPABLE OF WITHSTANDING A SAFE BEARING PRESSURE OF 100kPa. VERIFY & RECORD THE BEARING CAPACITY BEFORE ANY CONCRETE IS PLACED.
- 9. DO NOT PLACE CONCRETE UNTIL REINFORCEMENT (IF USED) & FORMWORK ARE INSPECTED BY SUPERVISING ENGINEER.
- 10. THOROUGHLY CLEAN OUT ALL FORMWORK PRIOR TO POURING.
- 11 DO NOT PLACE CONCRETE LINDER THE FOLLOWING CONDITIONS:
- WHEN THE SURROUNDING OUTDOOR TEMPERATURE EXCEEDS 30°C.
- WHEN THE SURROUNDING WIND SPEED EXCEEDS 12 KNOTS.
- 12. IMPLEMENT THE FOLLOWING PROCEDURES TO MITIGATE PREMATURE DRYING & CRACKING OF THE CONCRETE:
- a) IN HOT CONDITIONS, PROGRAM CONCRETE PLACEMENT FOR THE COOLER PART OF THE DAY (ie. EARLY MORNING).
- SPRAY EVAPORATIVE RETARDERS WITH FUGATIVE DYES (eg. ALIPHATIC ALCOHOL) OVER THE SURFACE IMMEDIATELY AFTER SCREEDING & WHILST BLEED WATER IS STILL PRESENT. REAPPLY IF THE SURFACE IS DISTURBED.
- c) COMMENCE CURING IMMEDIATELY AFTER FINISHING. CURE FOR 7 DAYS.
- 13. VIBRATE CONCRETE DURING PLACEMENT TO GIVE MAXIMUM COMPACTION WITHOUT SEGREGATION.
- 14. SURFACE FINISH REFER TO DRAWINGS FOR DETAILS.
- 15. COMMENCE CURING OF ALL CONCRETE SURFACES IMMEDIATELY ON FINISHING & CONTINUE FOR 7 DAYS MIN.
- 16. EXPANSION JOINTS & ISOLATION JOINTS ARE TO BE SEALED TO MANUFACTURER'S SPECIFICATIONS WITH A GUN GRADE POLYURETHANE LOW MODULUS SELF PRIMING SEALANT EQUAL TO 'TREMCO DYMONIC NT' (+100%, -50% MOVEMENT CAPACITY). SEALANT COLOUR GREY OR EQUIVALENT

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Surveyor	NA	NA	NA					
J. HART	Field Book		NA Datum					
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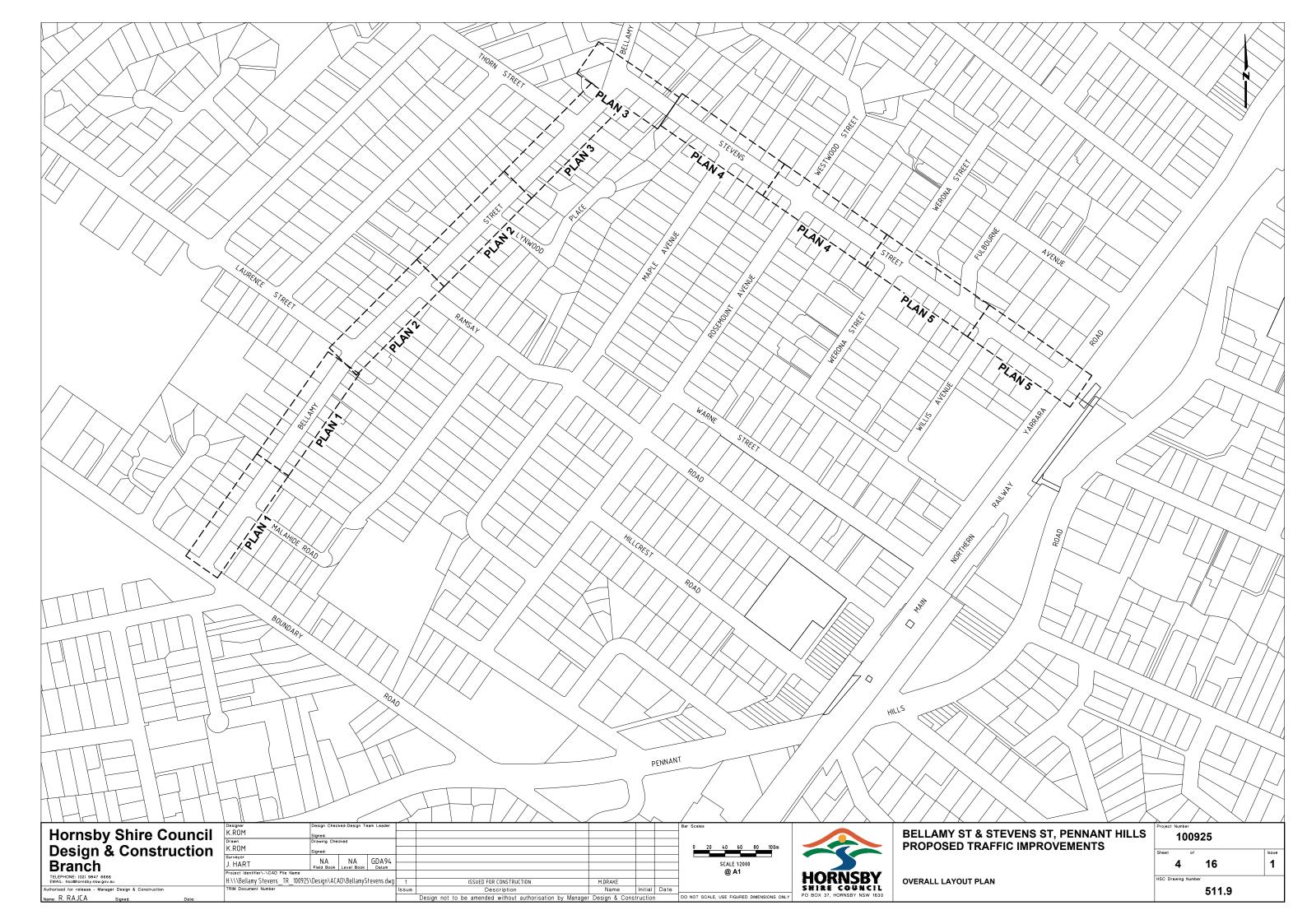
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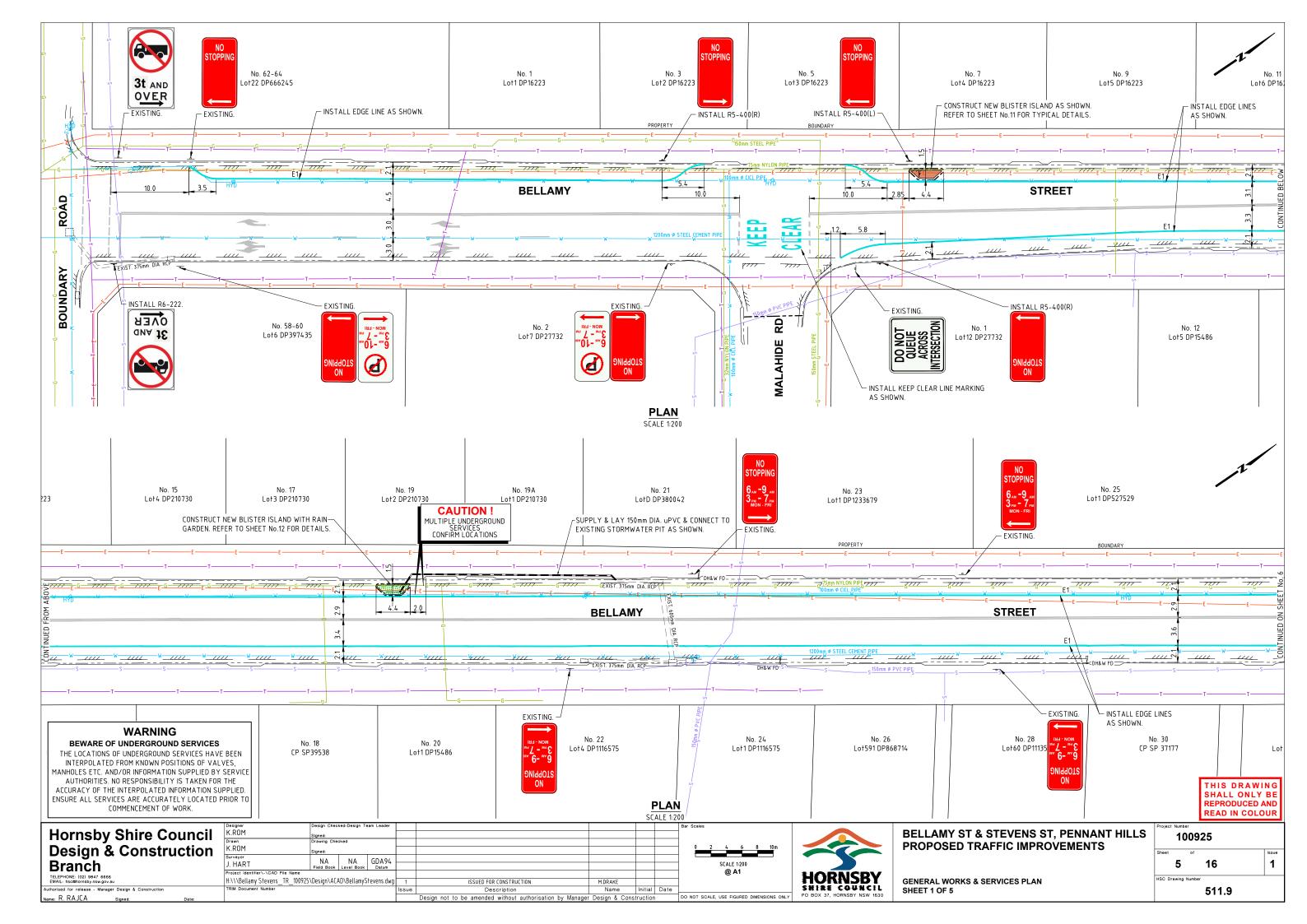
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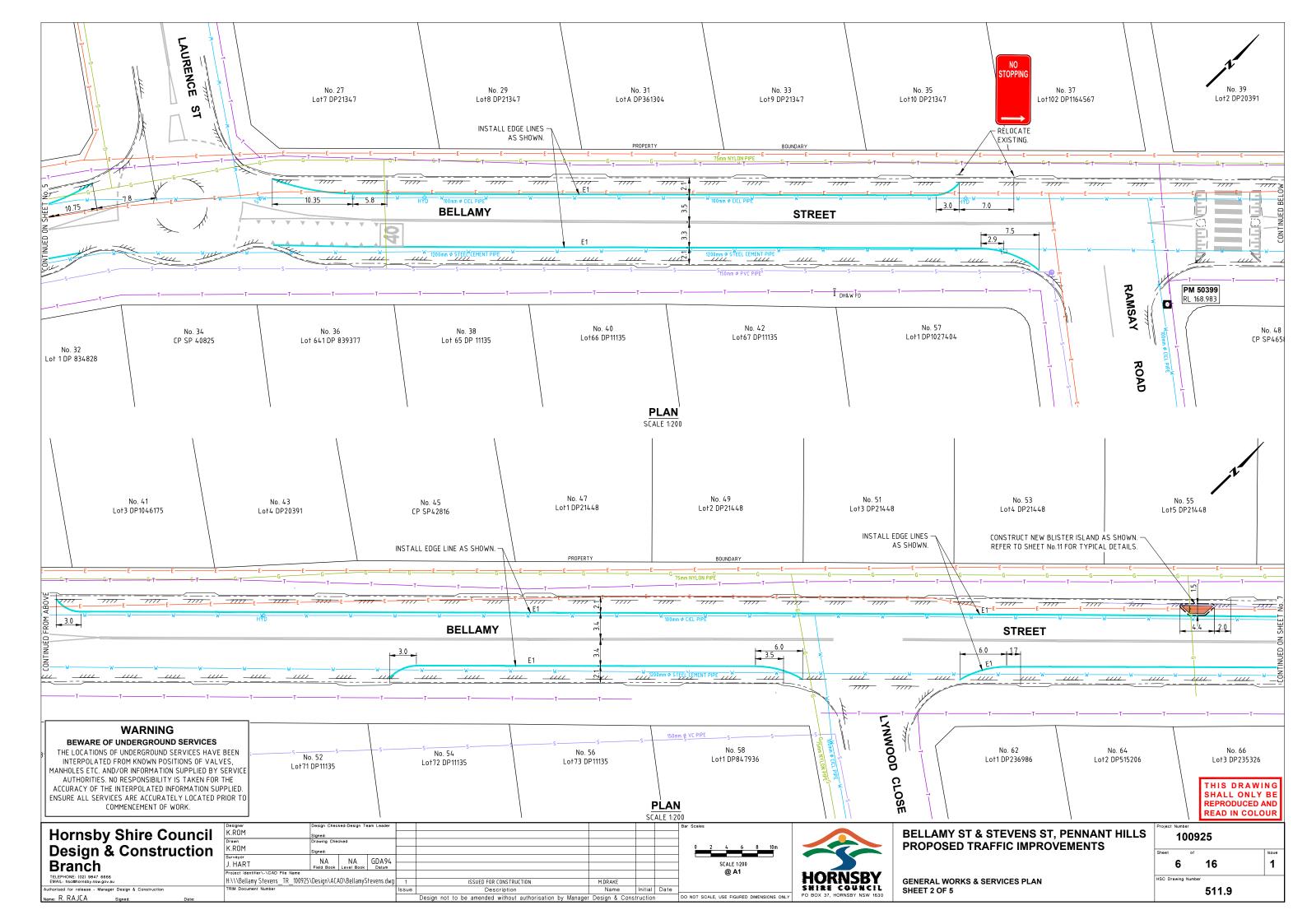
BELLAMY ST & STEVENS ST, PENNANT HILLS PROPOSED TRAFFIC IMPROVEMENTS

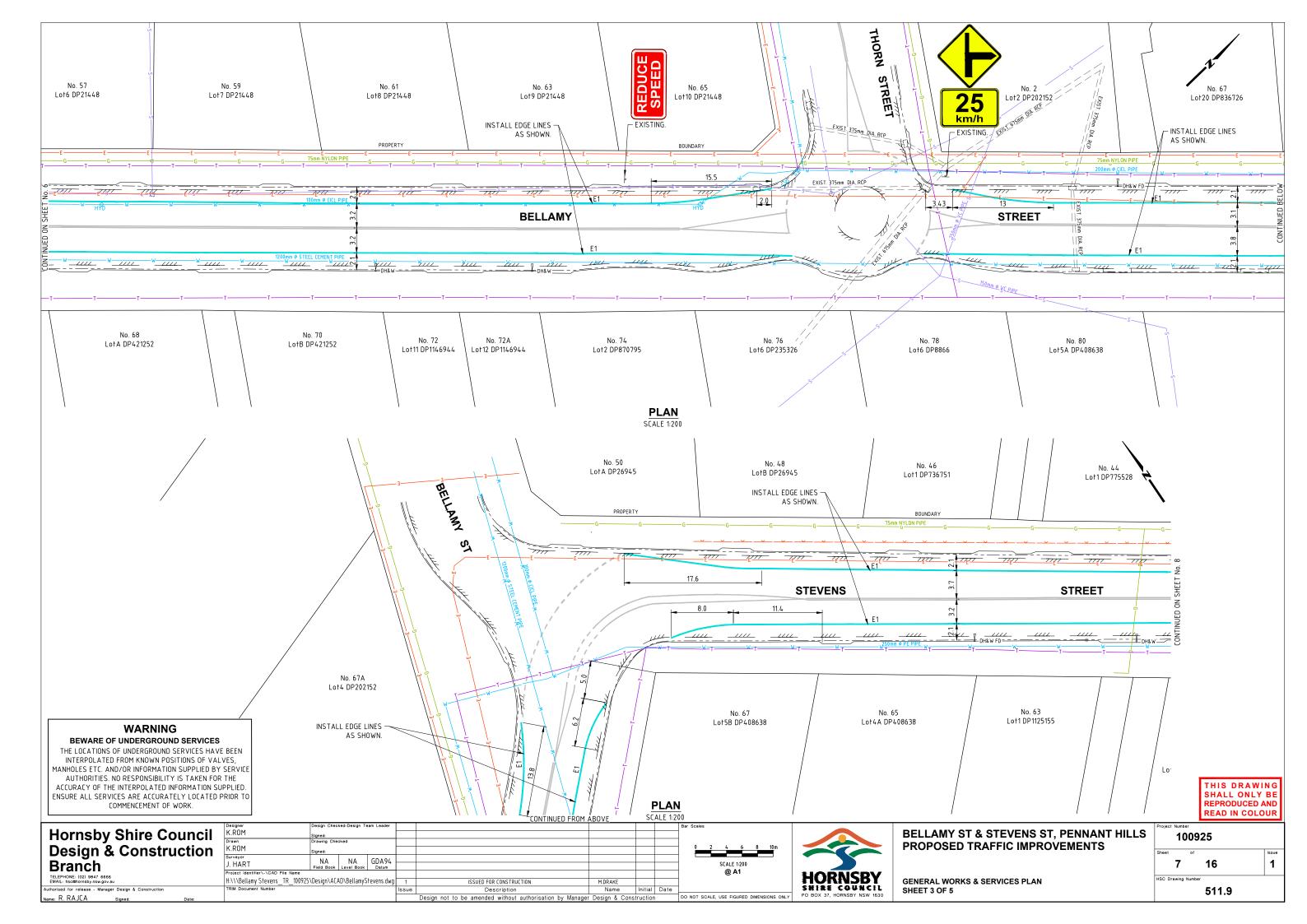
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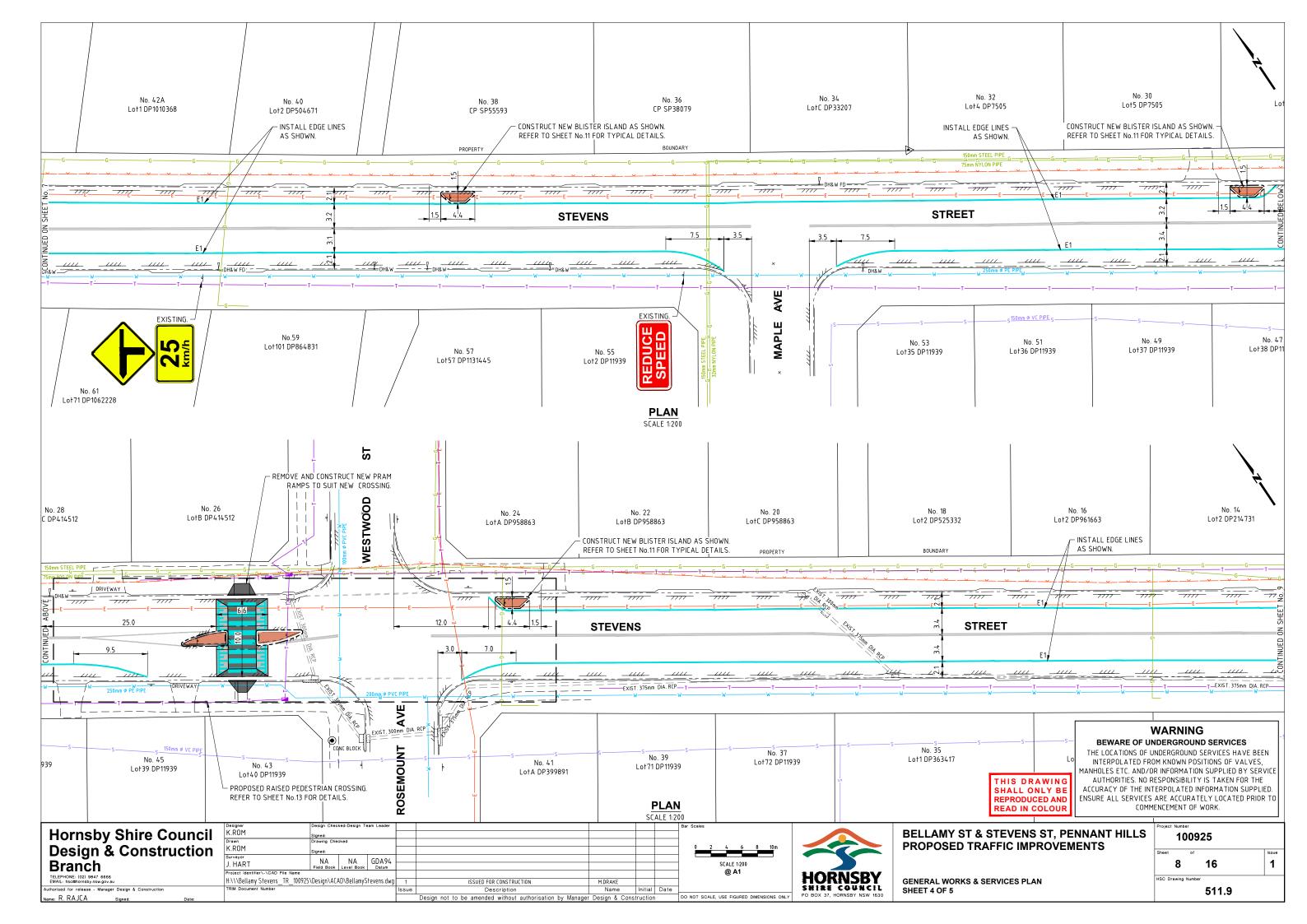
TYPICAL CONCRETE DETAILS & NOTES

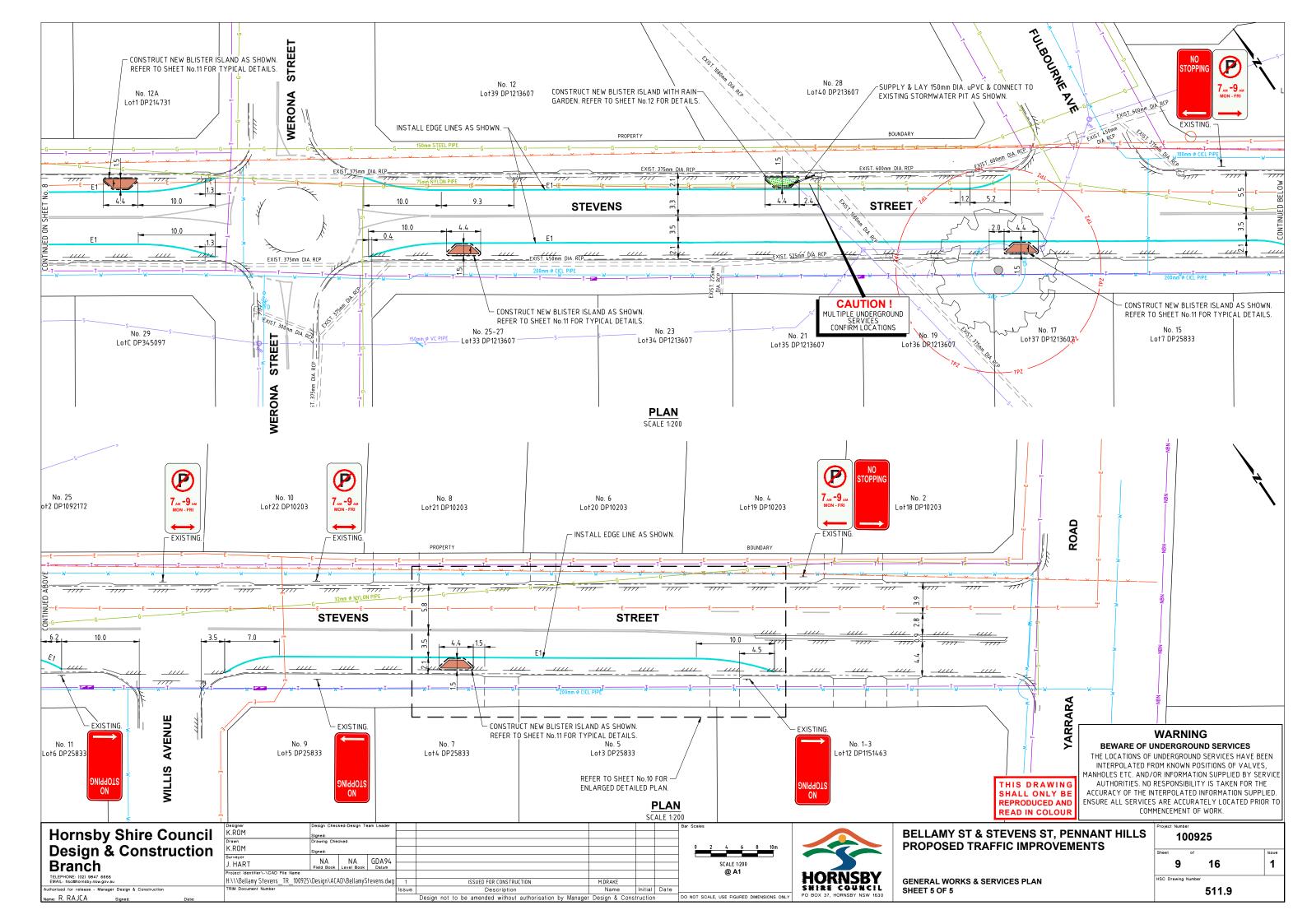


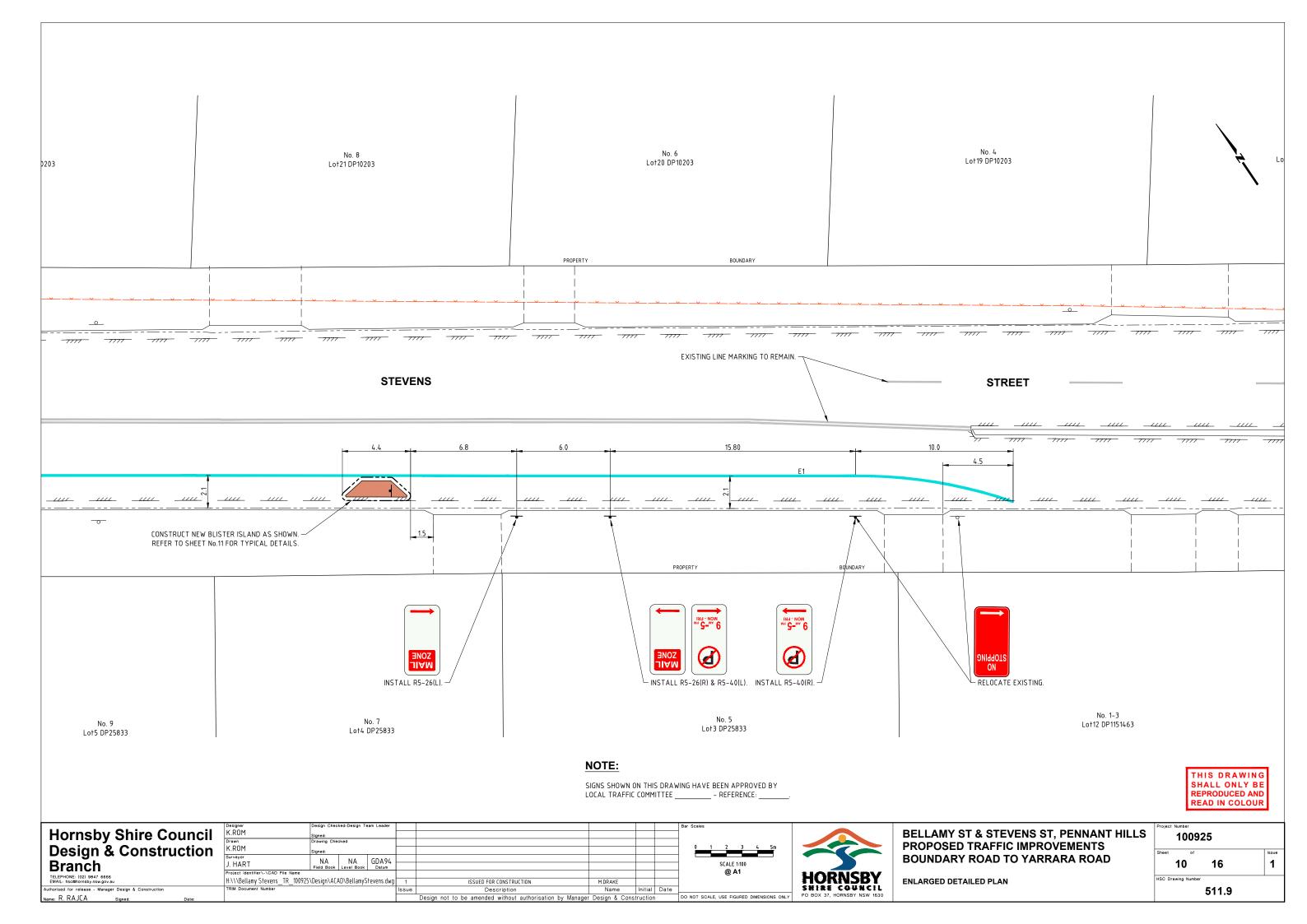


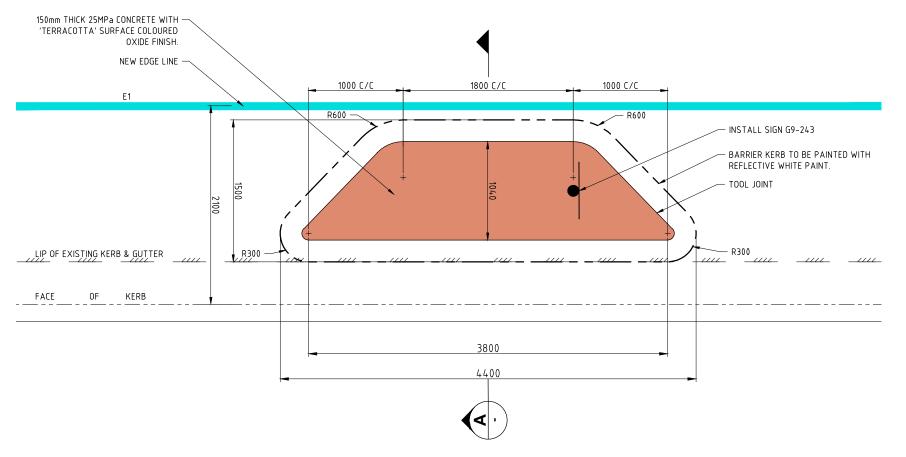






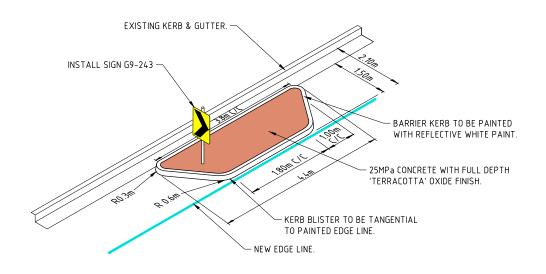




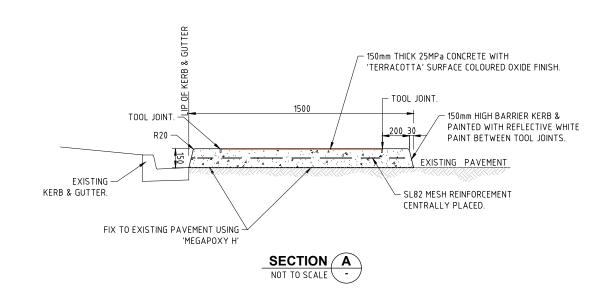


DETAILED PLAN OF RAISED BLISTER ISLAND

(ADJACENT TO EXISTING KERB & GUTTER) SCALE 1:20



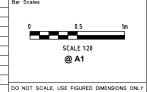




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R. RAJCA

Designer	Design Checked-Design Team Leader					1	1	i
K.ROM Signed:								
Drawn	Drawing Checked Signed:							
K.ROM								
Surveyor	NA	NA	NA					
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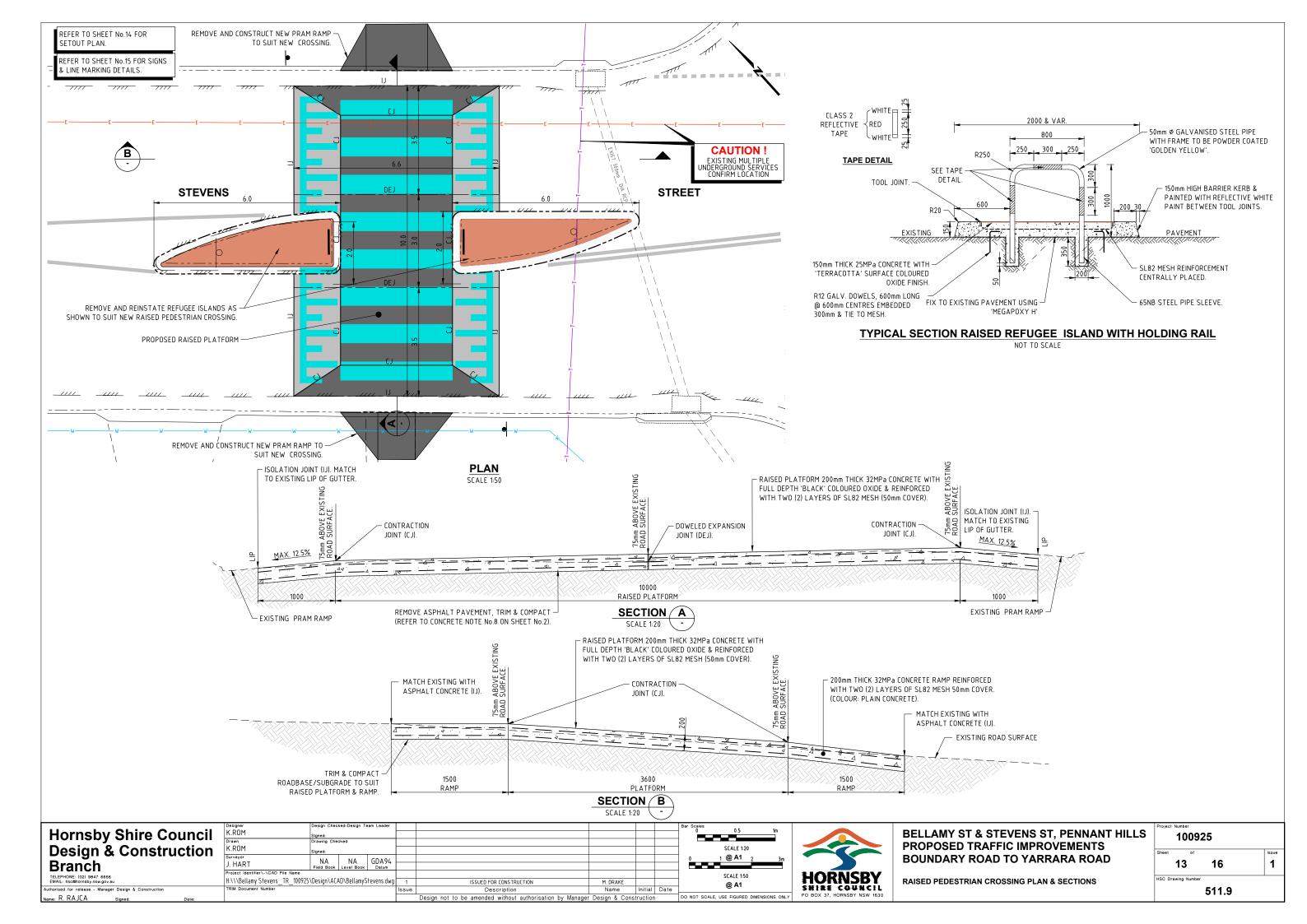


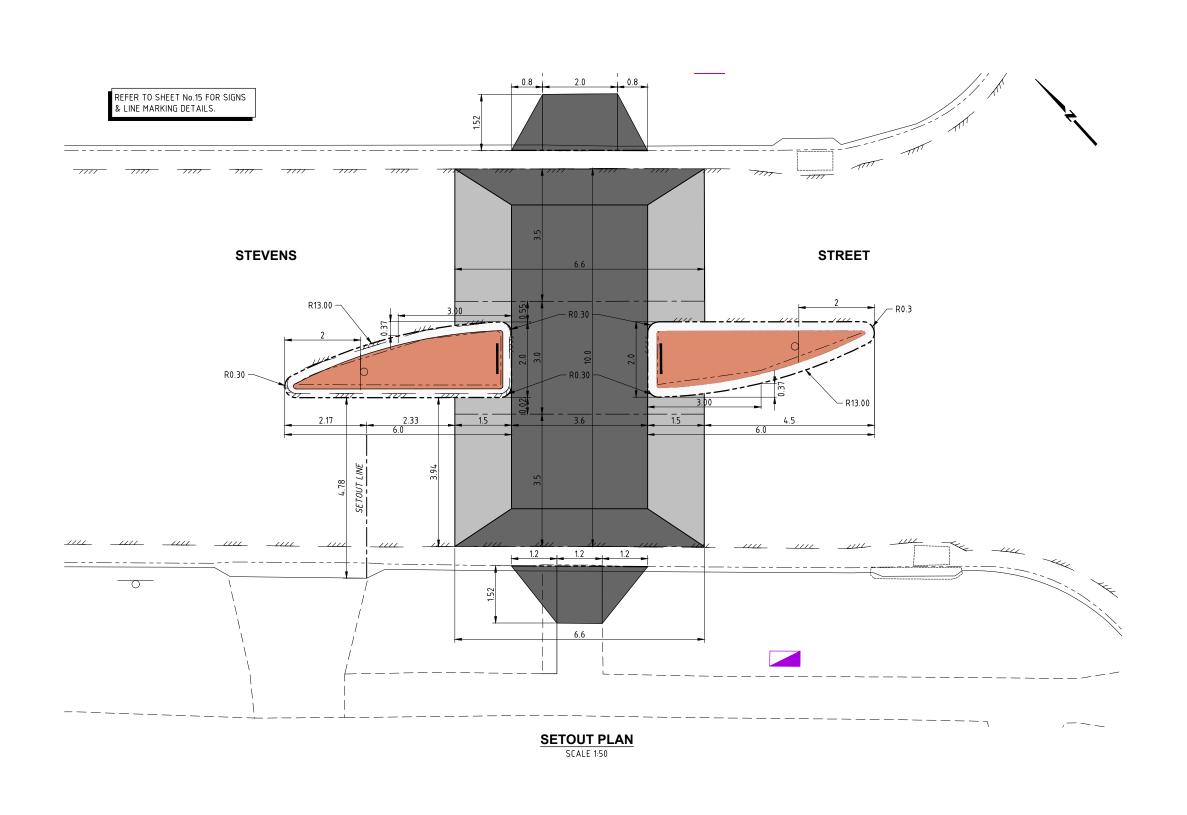
BELLAMY ST & STEVENS ST, PENNANT HILLS PROPOSED TRAFFIC IMPROVEMENTS BOUNDARY ROAD TO YARRARA ROAD

RAISED BLISTER ISLAND TYPICAL DETAILS & SECTION	

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RAIN GARDEN MEDIA SPECIFICATION RAINWATER MEDIA SHOULD BE IN ACCORDANCE WITH "ADOPTION GUIDELINES FOR STORMWATER BIOFILTRATION SYSTEM - APPENDIX C" BY CRCWSC. REFER TO FOLLOWING WEBSITE FOR DETAILS: https://watersensitivecities.org.au/content/stormwater-biofilter-design/ SUBSOIL PIPE TO BE CONNECTED TO NEW EDGE LINE 100mmØ PERFORATED PIPE. - SUB-SOIL FLUSH POINT. REFER TO NEAREST STORMWATER PIT CONTRACTOR SHALL BE RESPONSIBLE FOR FILTER MEDIA, TRANSITION LAYER & DRAINAGE LAYER COMPLY WITH THE GUIDELINES. R600 PROOF OF COMPLIANCE TO BE PROVIDED TO THE SUPERINTENDENT. RAIN GARDEN PLANTING TO FUTURE HOLD POINT: AFTER DRAINAGE INSTALLED & BEFORE MEDIA, INCLUDING DRAINAGE LAYER RAINGARDEN FILTER MEDIA SPECIFICATION SAW CUT PAVEMENT PRIOR COMPLY WITH THE GUIDELINE REFERRED IN NOTE No.1 ABOVE. TO INSTALLING KERB CLAY & SILT CONTENT TO BE LESS THAN 3%. SATURATED HYDRAULIC CONDUCTIVITY 100-300mm/hr. FREE OF STONES, STUMPS, ROOTS, OR OTHER WOODY MATERIAL OVER 25mm DIAMETER. FREE OF BRUSH OR SEED FROM WEEDS. PLATS SHOULD BE DENSE HEAVY FOLIAGE TOLERANT OF FREELY DRAINING. 7. PLANT DENSITY 8-10 PLANTS/m². SELECT FROM COUNCIL'S NURSERY AT PENNANT HILLS. LIP OF EXISTING KERB & GUTTER **RAIN GARDEN CONSTRUCTION NOTES:** FALL MEDIA MATERIAL TO MEET SPECIFICATIONS SHOWN HERE. CONTRACTOR IS TO FACE OF KERB UNDERTAKE ALL TESTING NECESSARY TO CERTIFY THIS PRIOR TO MEDIA BEING PLACED. 2. MEDIA TO BE LOOSELY COMPACTED (TAMPED LIGHTLY WITH BACKHOE BUCKET). 600 600 SCREW END CAP TO SUIT 100mm PIPE. FIX INTO PLACE WITH STAINLESS STEEL SELF TAPPING SCREWS. SET END CAP 50mm - 100mm PROUD OF 2400 FINISHED SURFACE LEVEL. VARIES (REFER TO GENERAL WORKS & SERVICES PLAN) PROVIDE 20mm - 40mm SIZED GRAVEL SPALL ADJACENT TO SECTION OF MODIFIED KERB TO - PROVIDE 20mm - 40mm SIZED GRAVEL SPALL ADJACENT TO PREVENT EROSION AT OVERFLOW PREVENT EROSION OF RAIN GARDEN. RECONSTRUCT 2.4m LENGTH OF EXISTING KERB AS MODIFIED KERB TO DIRECT GUTTER FLOW INTO RAINGARDEN. **DETAILED PLAN OF RAIN GARDEN** (ADJACENT TO EXISTING KERB & GUTTER) 135° BEND NTS SUPPLY & LAY Ø100mm SUBSOIL 150mm HIGH BARRIER KERB PAINTED IMPERVIOUS LINING. PIPE (PERFORATED). WITH REFLECTIVE WHITE PAINT. └ 45° SLOPE JUNCTION JOINER. INSTALL END CAP AT HEAD OF -SAW CUT PAVEMENT PRIOR TO INSTALLING KERB SUBSOIL DRAIN. FINISHED SURFACE LEVEL OF GARDEN TO ENABLE EXCAVATION OF PAVEMENT LATER. BED TO BE FLAT & MIN. 80mm BELOW KERB SAWCUT AND REMOVE SECTION OF SUBSOIL FLUSHING POINT DETAIL KERB AND MODIFY AS SHOWN. MODIFIED KERB LIP LEVEL 30 PROPOSED RAIN GARDEN PROPOSED RAIN GARDEN NEW MODIFIED KERI PROPOSED RAIN GARDEN **EXISTING KERB** EXISTING KERB PROPOSED RAIN GARDEN 250 FALL_ EXISTING SURFACE - APPLY MEGAPOXY 'H' BENEATH NEW KERB. EXISTING PAVEMENT SUPPLY & INSTALL 2mm THICK -IMPERVIOUS LINING (HDPE OR EQUIVALENT) TO PREVENT WATER PENETRATING BENEATH KERB - PROVIDE 20mm - 40mm SIZED GRAVEL SPALL ADJACENT TO SECTION OF INSTALL REROOT LINEAR RIBBED -BARRIER WITH RIBS FACING TREES TO IMPERVIOUS LINING. 450mm DEPTH OF LOAMY SAND. INSTALL REROOT LINEAR RIBBED PROTECT PAVEMENT & SERVICES. MODIFIED KERB TO PREVENT EROSION. PROVIDE 20mm - 40mm SIZED GRAVEL BARRIER WITH RIBS FACING INSTALL REROOT LINEAR RIBBED -INSTALL REROOT LINEAR RIBBED BARRIER SPALL ADJACENT TO PREVENT EROSION TREES TO PROTECT PAVEMENT & SUPPLY & INSTALL 2mm THICK IMPERVIOUS BARRIER WITH RIBS FACING WITH RIBS FACING TREES TO PROTECT AT OVERFLOW. SERVICES TREES TO PROTECT PAVEMENT & LINING (HDPE OR EQUIVALENT) PAVEMENT & SERVICES **MODIFIED KERB DETAIL** IMPERVIOUS LINING. SECTION (A) SECTION SECTION SECTION D SCALE 1:10 SCALE 1:10 SCALE 1:10 SCALE 1:10 K.ROM Drawn K.ROM **Hornsby Shire Council BELLAMY ST & STEVENS ST, PENNANT HILLS** 100925 PROPOSED TRAFFIC IMPROVEMENTS **Design & Construction BOUNDARY ROAD TO YARRARA ROAD** Surveyor J. HART NA GDA94 12 16 **Branch** SCALE 1:10 @ A1 H:\\\Bellamy Stevens_TR_100925\Design\ACAD\BellamyStevens.dwg RAIN GARDEN ISLAND ISSUED FOR CONSTRUCTION M. DRAKE SHIRE COUNCIL **TYPICAL DETAILS & SECTIONS** 511.9 DO NOT SCALE, USE FIGURED DIMENSIONS ONLY RRAICA Design not to be amended without authorisation by Manager Design & Construction

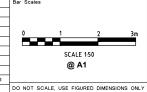




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Name: R. RAJCA Signed:

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BELLAMY ST & STEVENS ST, PENNANT HILLS PROPOSED TRAFFIC IMPROVEMENTS BOUNDARY ROAD TO YARRARA ROAD

RAISED PEDESTRIAN CROSSING & REFUGEE ISLANDS SETOUT PLAN

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