RAILWAY ST REALIGNMENT AND CARPARKING NORTH COTTESLOE PRIMARY SCHOOL

TABLE OF CONTENTS

16-6-79/100	OVERALL LAYOUT PLAN
16-6-79/101	SITEWORKS PLAN
16-6-79/102	EXISTING SERVICES PLAN
16-6-79/110	RETAINING WALL
16-6-79/111	RETAINING WALL STANDARD DETAILS
16-6-79/400	ROAD LAYOUT PLAN
16-6-79/401	PAVEMENT PLAN
16-6-79/410	RAILWAY STREET REALIGNMENT
16-6-79/411	RAILWAY ST CROSS SECTIONS CH:20-170
16-6-79/412	RAILWAY ST CROSS SECTIONS CH:180-260
16-6-79/430	SIGNS AND PAVEMENT MARKING LAYOUT
16-6-79/500	DRAINAGE LAYOUT
16-6-79/501	DRAINAGE CATCHMENT PLAN
16-6-79/600	PAVEMENT STANDARD DETAILS
16-6-79/601	DRAINAGE STANDARD DETAILS
16-6-79/800	10m GARBAGE TRUCK TURNING MOVEMENTS
3E16083-1	STREET LIGHTING LAYOUT

TOWN OF COTTELSOE



Level 2 Kishorn Court 58 Kishorn Road Mt Pleasant 6153 WA

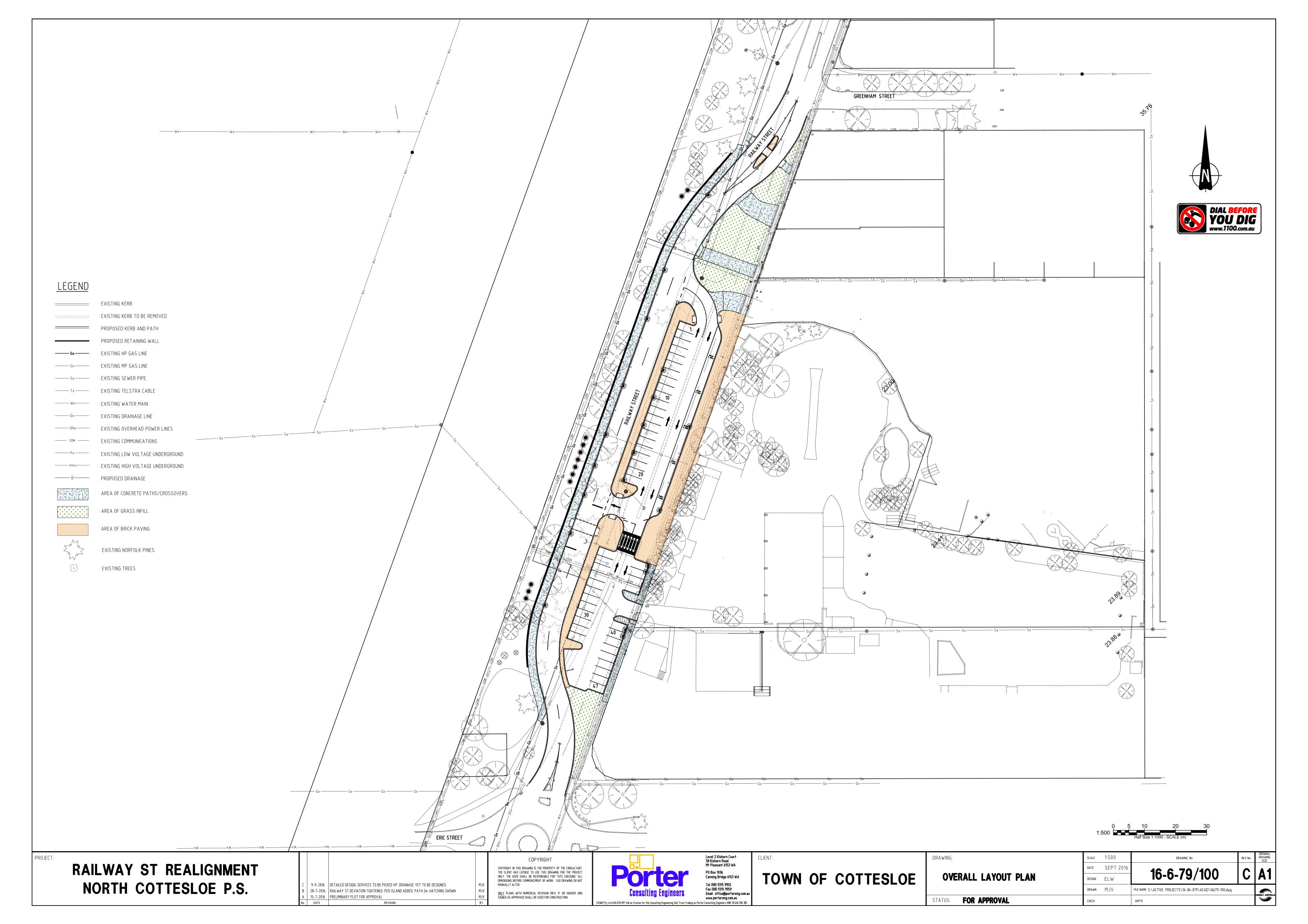
PO Box 1036 Canning Bridge 6153 WA

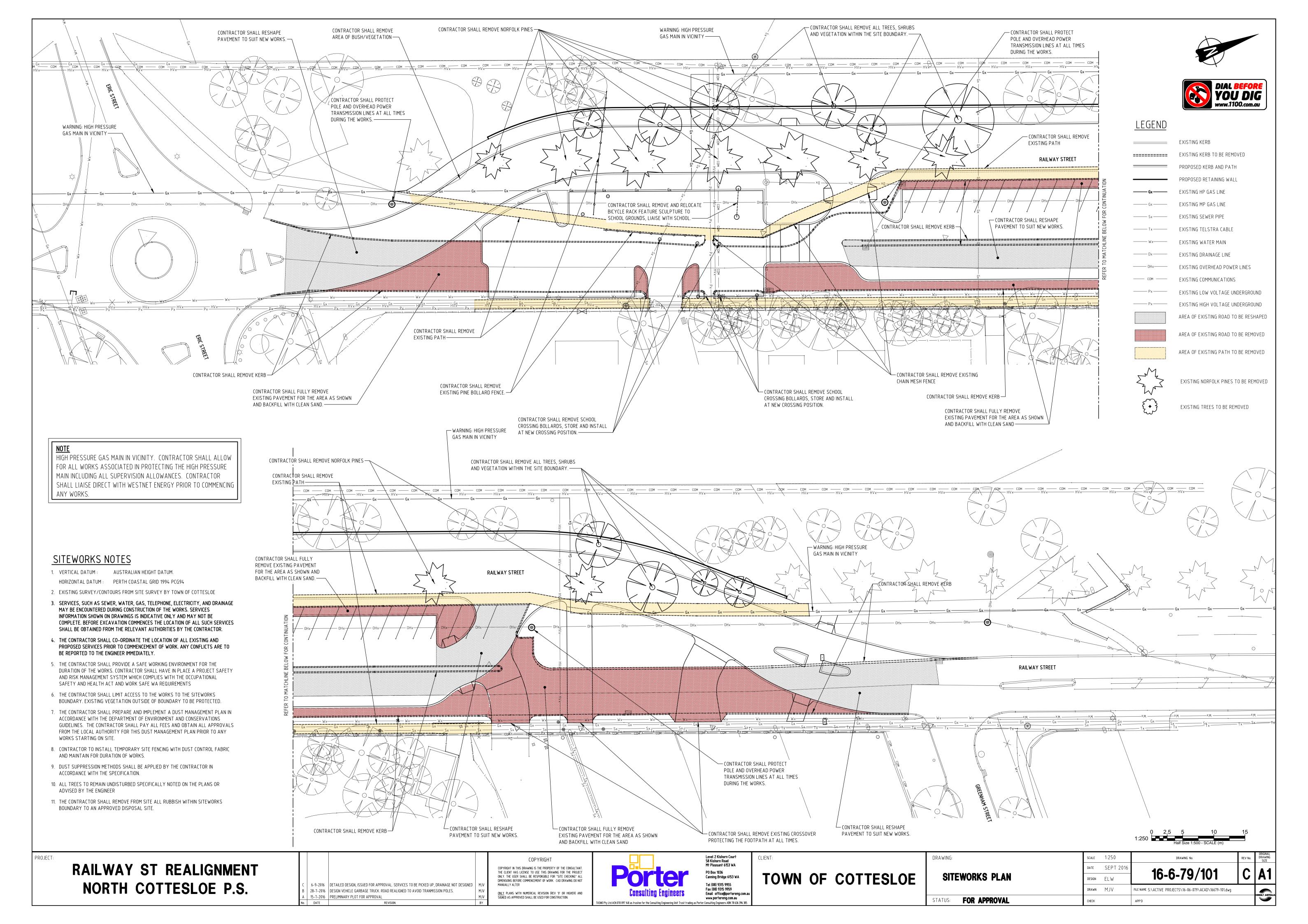
Tel (08) 9315 9955
Fax (08) 9315 9959
Email office@portereng.com.au
www.portereng.com.au

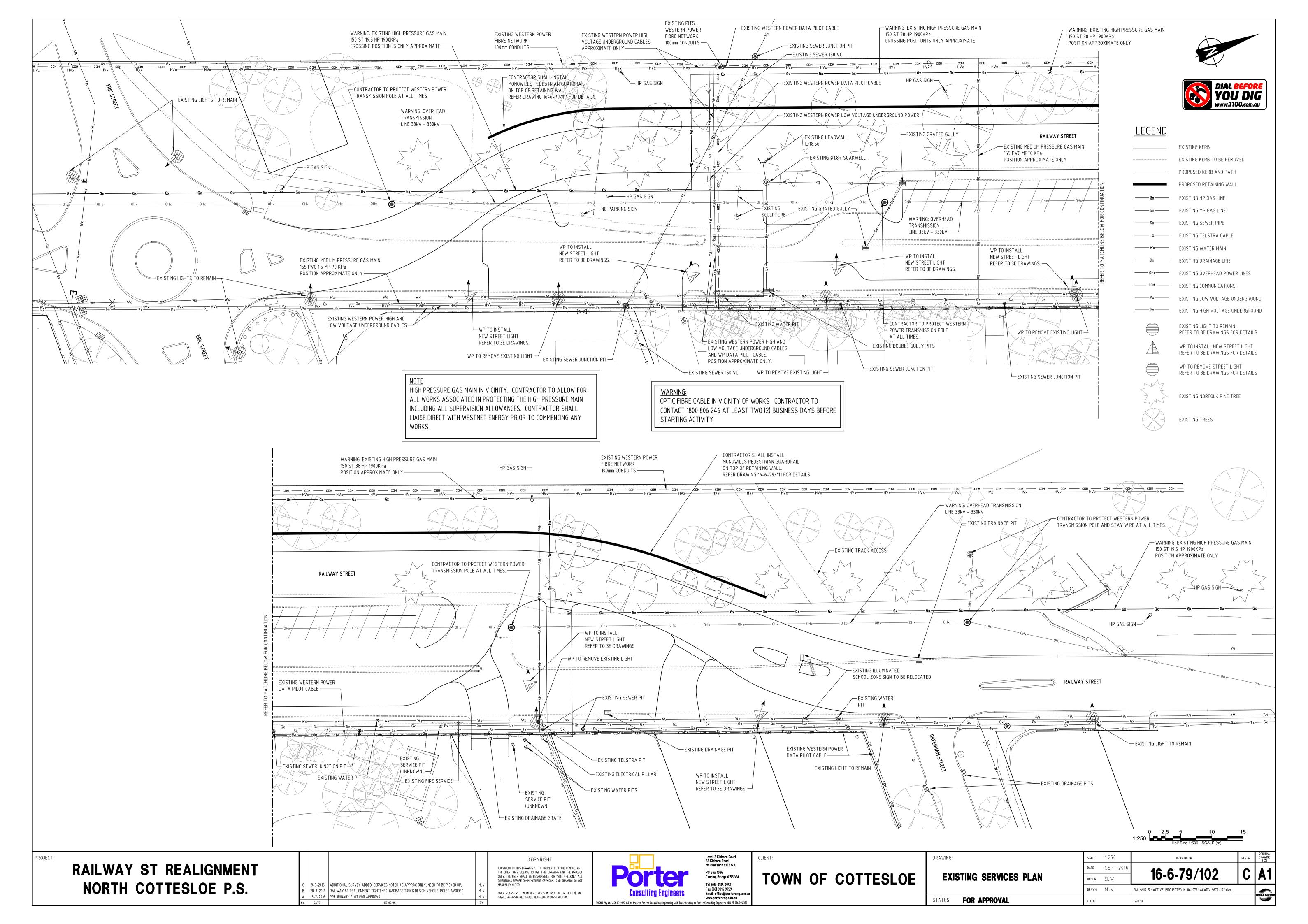
TUSNO Pty Ltd ACN 070 097 148 as trustee for the Consulting Engineering Unit Trust trading as Porter Consulting Engineers ABN 78 636 396 385

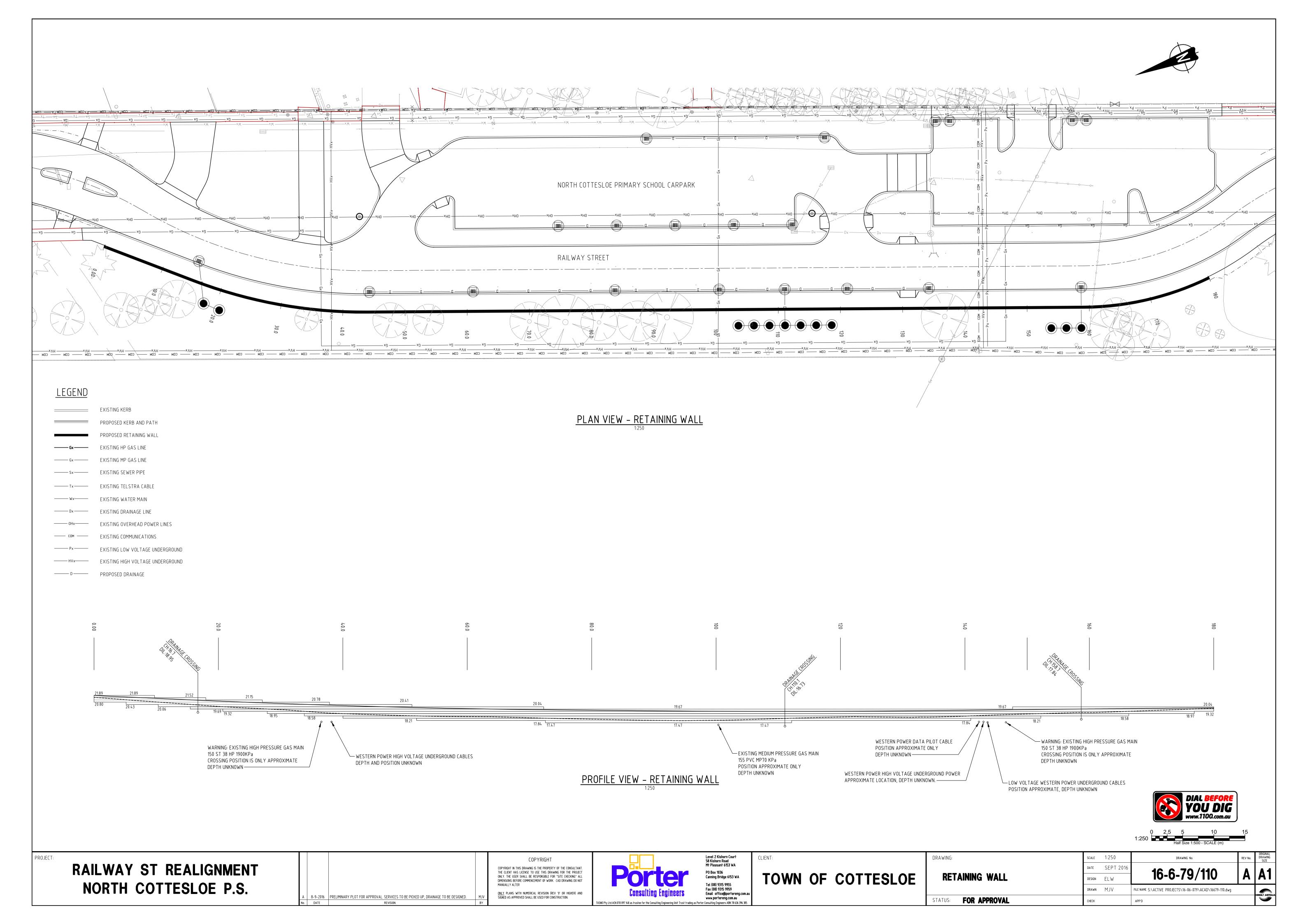
JOB No.

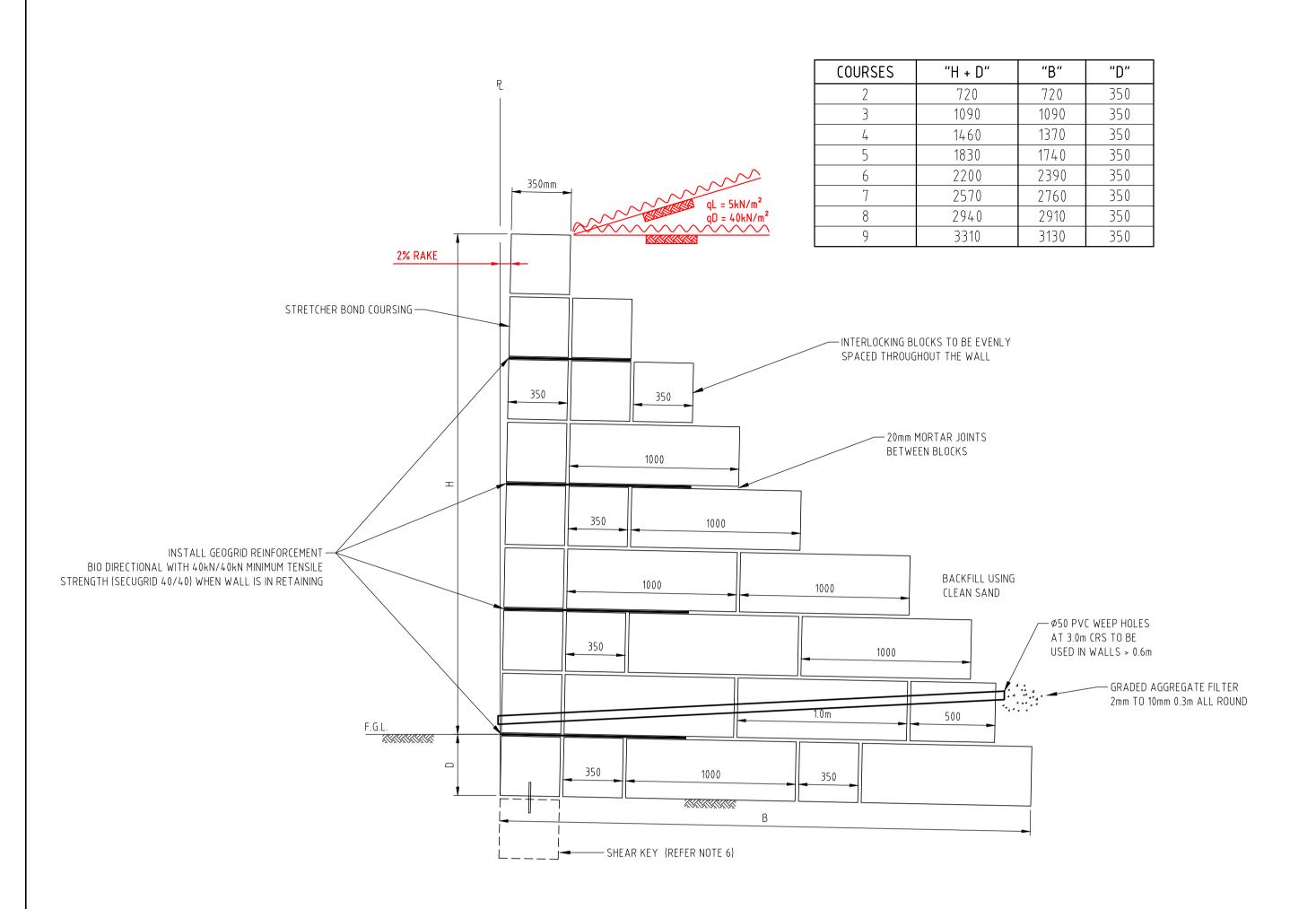
16-6-79





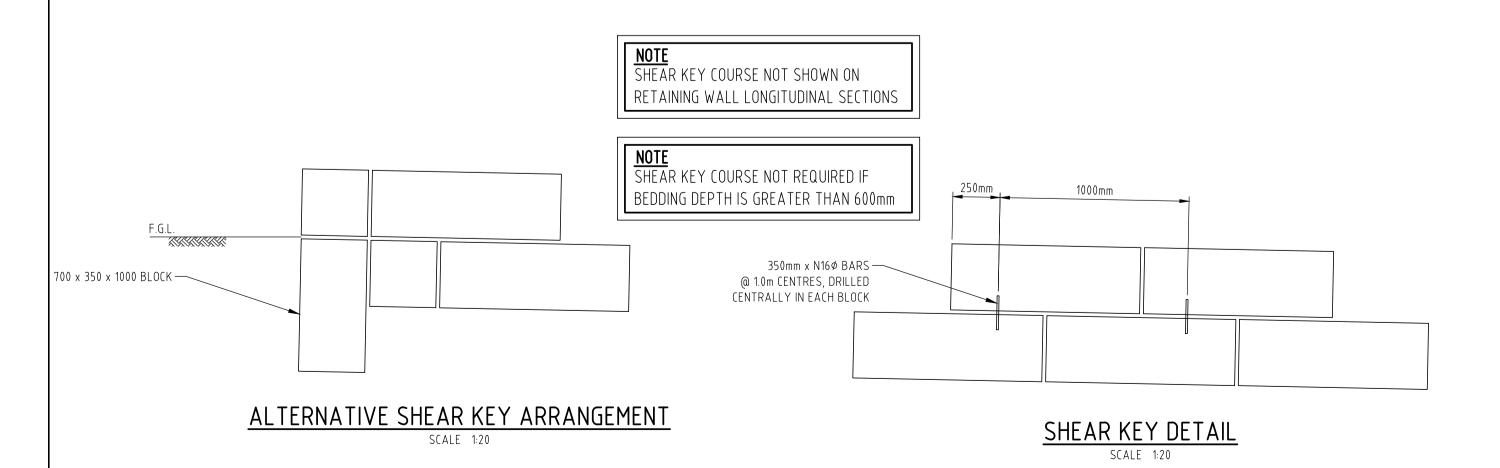


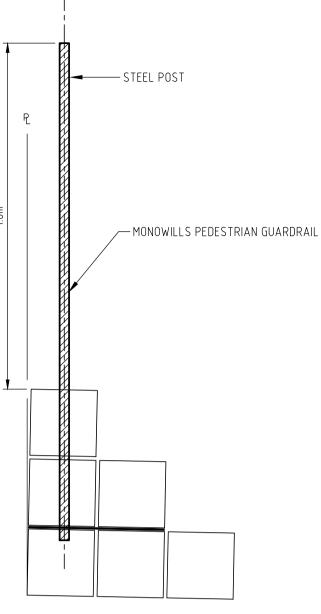




SIDE WALL ADJACENT TO BUILDING TYPE 2

RECONSTITUTED LIMESTONE MASS GRAVITY RETAINING WALL





FENCE DETAIL

RETAINING WALL NOTES

- 1. THE CONTRACTOR SHALL OBTAIN RETAINING WALL BUILDING LICENSE PRIOR TO COMMENCEMENT OF RETAINING WALL WORKS. THE CONTRACTOR SHALL PAY FOR ALL FEES ASSOCIATED WITH OBTAINING THE BUILDING LICENSE.
- 2. THIS DETAIL IS SUITABLE FOR SANDY SOIL ONLY. ALL OTHER CONDITIONS MUST BE REFERRED TO THE ENGINEER.
- 3. DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION.
- 4. MINIMUM DENSITY OF LIMESTONE TO BE 1700kg/m³. DO NOT USE RUBBLE IN WALL CONSTRUCTION. TYPICAL LIMESTONE BLOCKS SIZES INCLUDE THE FOLLOWING OR CUT TO SUIT:

LIMESTONE BLOCKS

- 350x350x350 - 350x350x500
- 350x350x1000
- 5. UNLESS OTHERWISE SPECIFIED IN HE GEOTECHNICAL REPORT, THE CONTRACTOR SHALL COMPACT GROUND INFRONT OF AND UNDER THE WALL TO ACHIEVE 8 BLOWS PER 300mm WHEN TESTED WITH A STANDARD PENETROMETER.
- 6. THE CONTRACTOR SHALL CONSTRUCT SHEAR KEY IN UNIFORMLY GRADED SOILS. (BASSENDEAN SOIL).
- 7. THE CONTRACTOR SHALL ENSURE THE TOE COURSING OF THE RETAINING WALLS ALIGN WITH THE PROPERTY BOUNDARIES UNLESS OTHERWISE DIMENSIONED. CONTRACTOR SHALL ENSURE ALL PARTS OF THE RETAINING WALLS ARE LOCATED WITHIN THE LOT UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL VERIFY THE FOOTING COURSE SETOUT PRIOR TO INSTALLATION OF FURTHER BLOCKS TO ENSURE THE RETAINING WALL IS INSTALLED AS PER DESIGN.
- 8. THE CONTRACTOR SHALL PROVIDE CONTROL JOINTS AT 20m CRS. MAX.
- 9. ALL VERTICAL AND HORIZONTAL JOINTS TO BE FORMED IN 1 CEMENT : 1 LIME : 6
- 10. NO BACK FILLING UNTIL 7 DAYS AFTER WALL COMPLETION.
- 11. THE CONTRACTOR SHALL PROP ALL RETAINING WALLS AT 1800 CRS DURING BACK FILLING AND COMPACTION.
- 12. THE CONTRACTOR SHALL CONSTRUCT BACKFILL IN 300mm LAYERS AND COMPACT TO ACHIEVE 8 BLOWS PER 300mm WHEN TESTED WITH A STANDARD PENETROMETER.
- 13. ANTI-GRAFFITI COATING TO BE APPLIED TO ALL EXPOSED FACES AS DETAILED IN THE SPECIFICATION.
- 14. CONTRACTOR TO ENGAGE A STRUCTURAL ENGINEER TO CERTIFY THAT ALL RETAINING WALLS ARE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS AND SPECIFICATIONS.

RETAINING WALL DESIGN LIMITS

THE RETAINING WALLS HAVE BEEN DESIGNED FOR CONSTRUCTION ON COMPACTED WELL GRADED COHESIONLESS SAND TO SUPPORT THE FULL WEIGHT OF SAND BACK FILL WITH A UNIFORMLY DISTRIBUTED SURCHARGE OF 5kN/m² LIVE LOAD AND 40kN/m² DEAD LOAD.

THE HEIGHT OF THE RETAINING WALL SHALL NOT BE INCREASED WITHOUT CERTIFICATION BY A PRACTICING STRUCTURAL ENGINEER.

EXCAVATION ADJACENT TO THE TOE OF A RETAINING WALL AND/OR FILLING ON TOP OF A RETAINING WALL IS NOT PERMITTED UNLESS THESE ACTIVITIES HAVE BEEN CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER.

M COOK MIE AUST CP ENG NER

NOTE
DIMENSIONS ON RETAINING WALL SECTIONS ARE MEASURED ABOUT THE FACE OF WALL

CONTRACTOR SHALL INSTALL TEMPORARY STAR PICKE FENCE WITH 3-STRAND WIRE AND DANGER TAPE ON ALL RETAINING WALLS GREATER THAN 0.6m HIGH

DIMENSIONS SHOWN ON RETAINING WALL SECTIONS ARE APPROXIMAT ONLY. CONTRACTOR SHALL POSITION WALL AND CONSTRUCT COURSE CHANGES TO TIE IN WITH CADASTRAL BOUNDARIES. MINIMUM 'D' DIMENSION TO BE MAINTAINED AT ALL LOCATIONS.

RAILWAY ST REALIGNMENT NORTH COTTESLOE P.S.



COPYRIGHT COPYRIGHT IN THIS DRAWING IS THE PROPERTY OF THE CONSULTANT THE CLIENT HAS LICENSE TO USE THIS DRAWING FOR THE PROJECT ONLY. THE USER SHALL BE RESPONSIBLE FOR "SITE CHECKING" ALL DIMENSIONS BEFORE COMMENCEMENT OF WORK. CAD DRAWING DO NOT ONLY PLANS WITH NUMERICAL REVISION (REV '0' OR HIGHER) AND SIGNED AS APPROVED SHALL BE USED FOR CONSTRUCTION.



Tel (08) 9315 9955 Fax (08) 9315 9959 Email office@portereng.com.

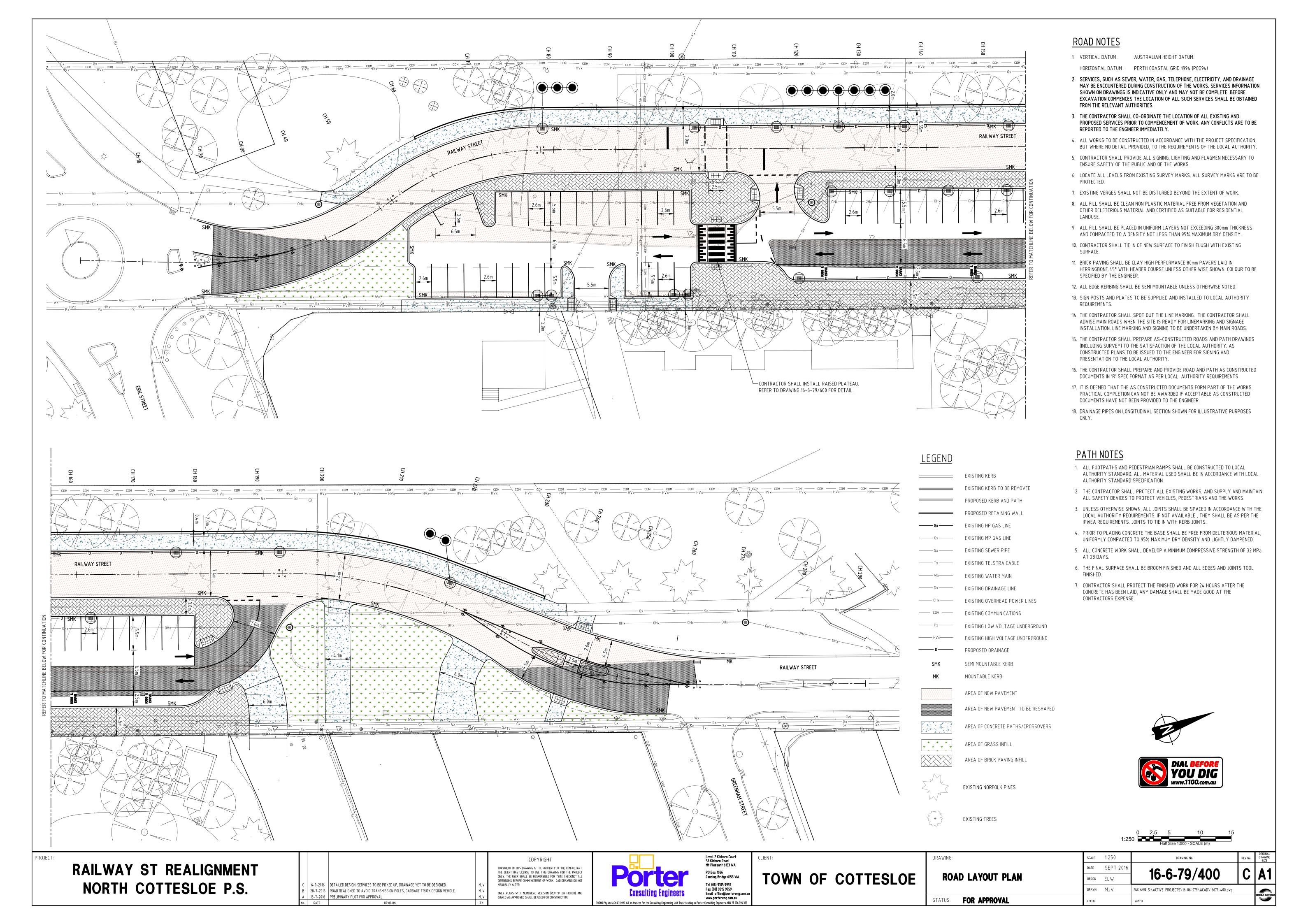
TOWN OF COTTESLOE

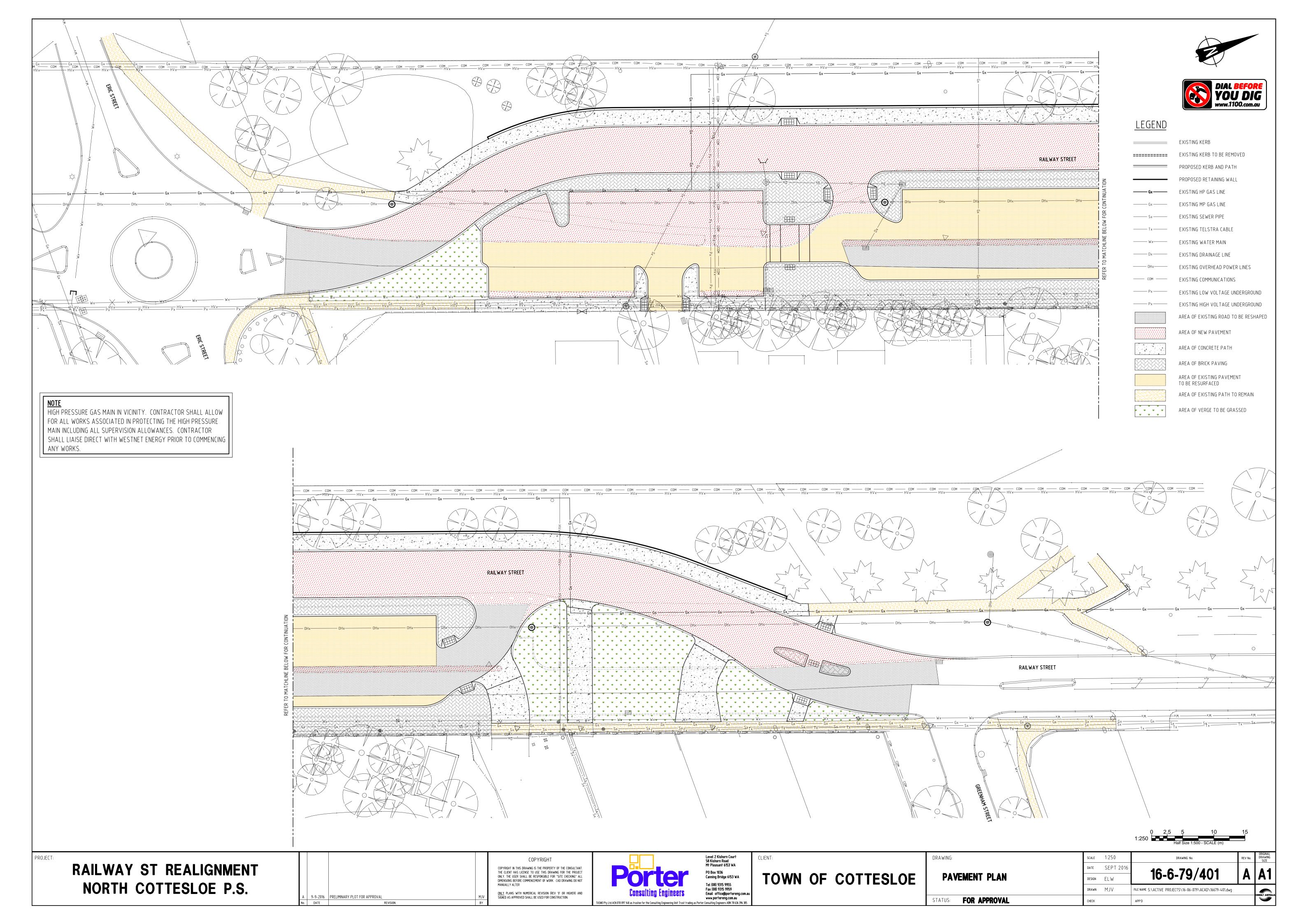
DRAWING: RETAINING WALL STANDARD DETAILS STATUS: FOR APPROVAL

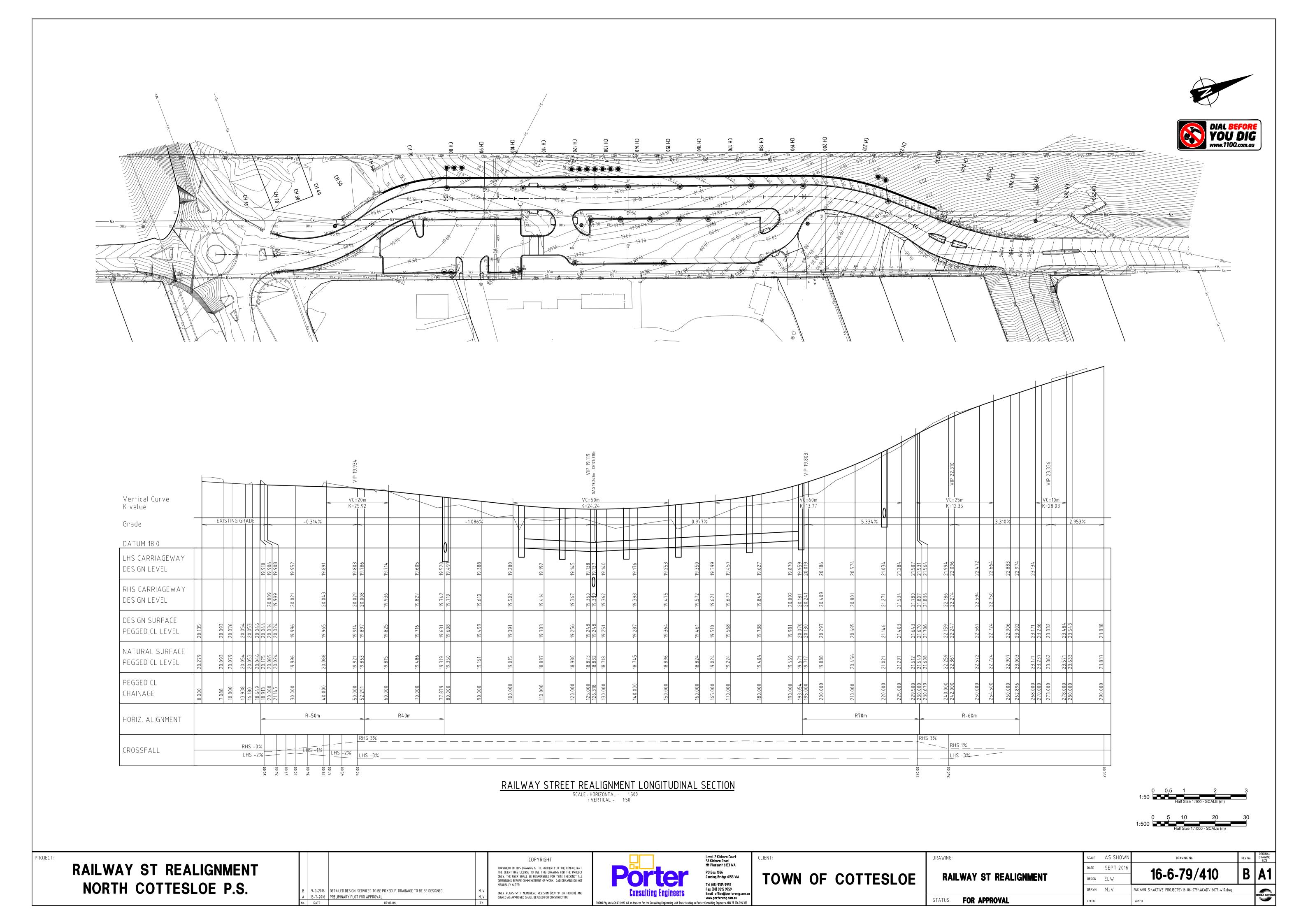
DESIGN ELW DRAWN MJV

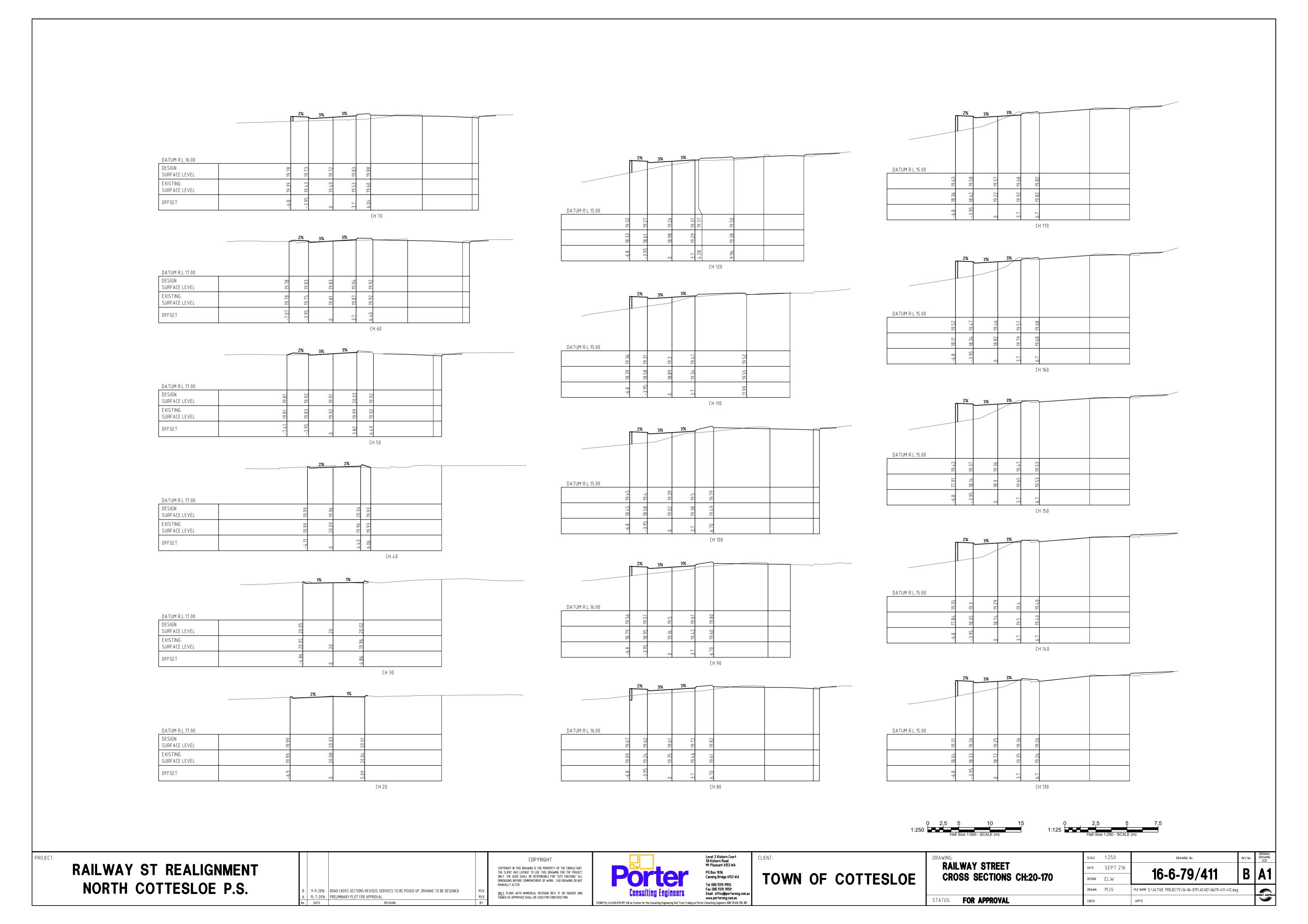
DATE SEPT 216 16-6-79/111 FILE NAME S:\ACTIVE PROJECTS\16-06-079\ACAD\16679-111.dwg

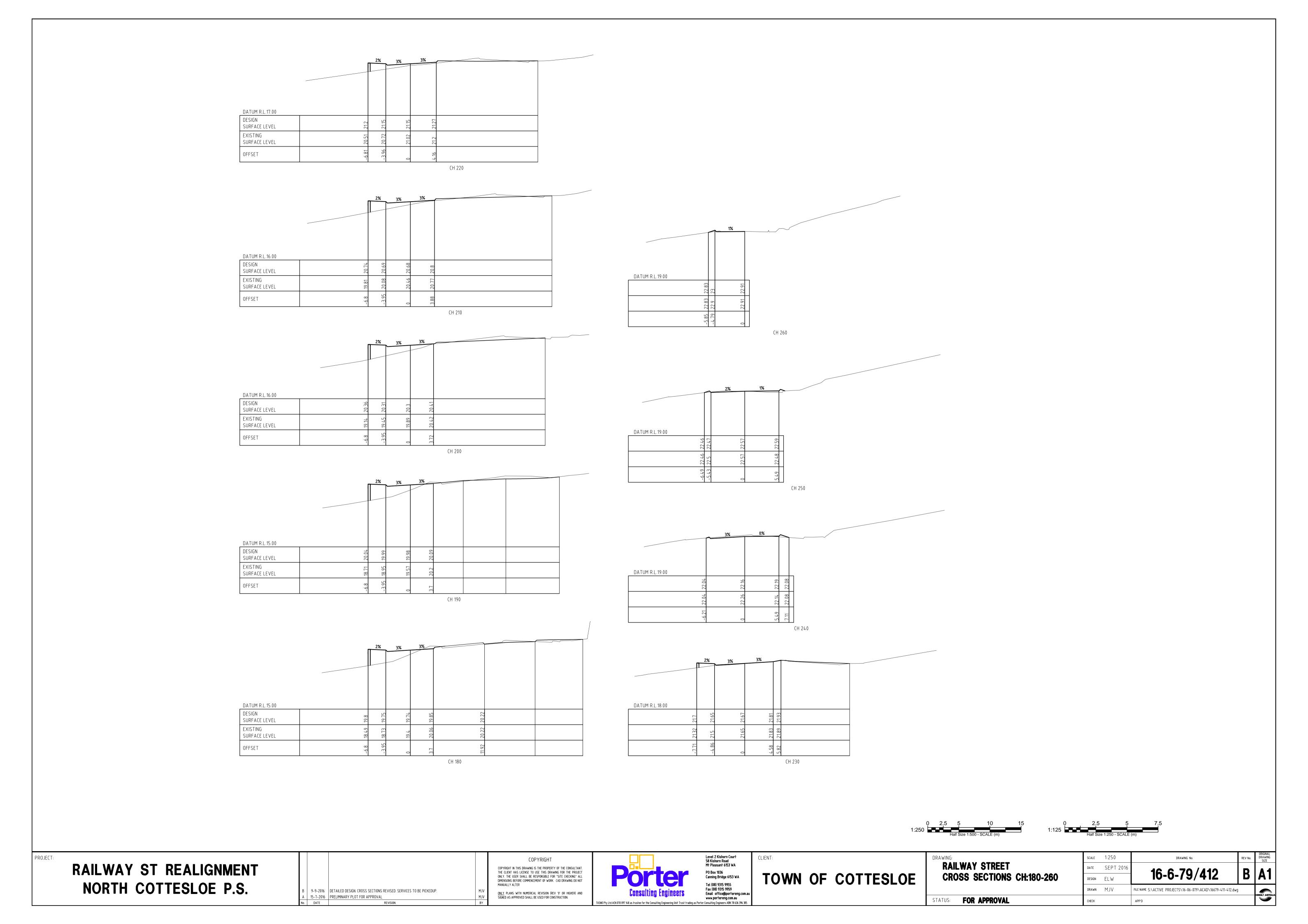
CONSULT AUSTRALIA

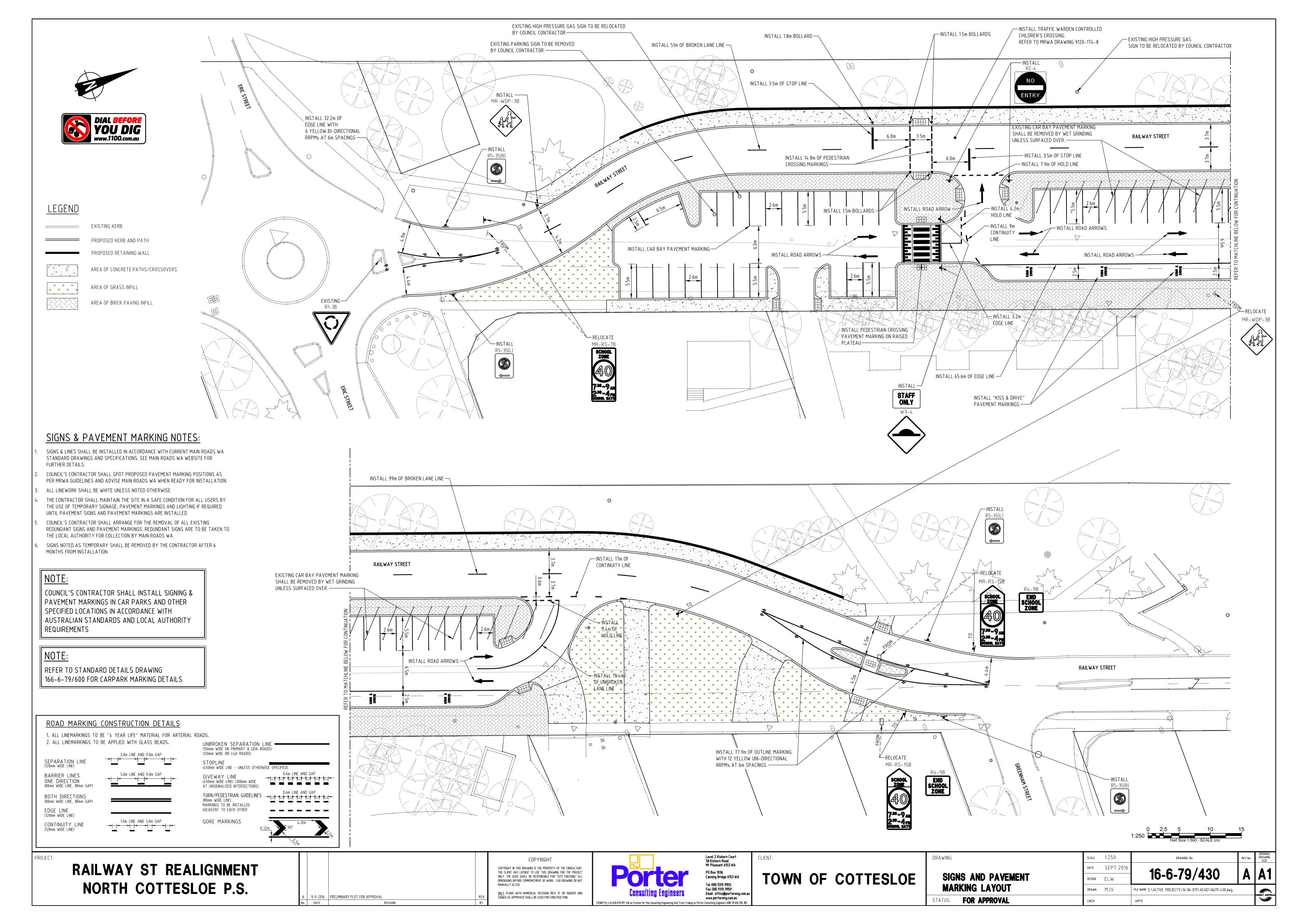


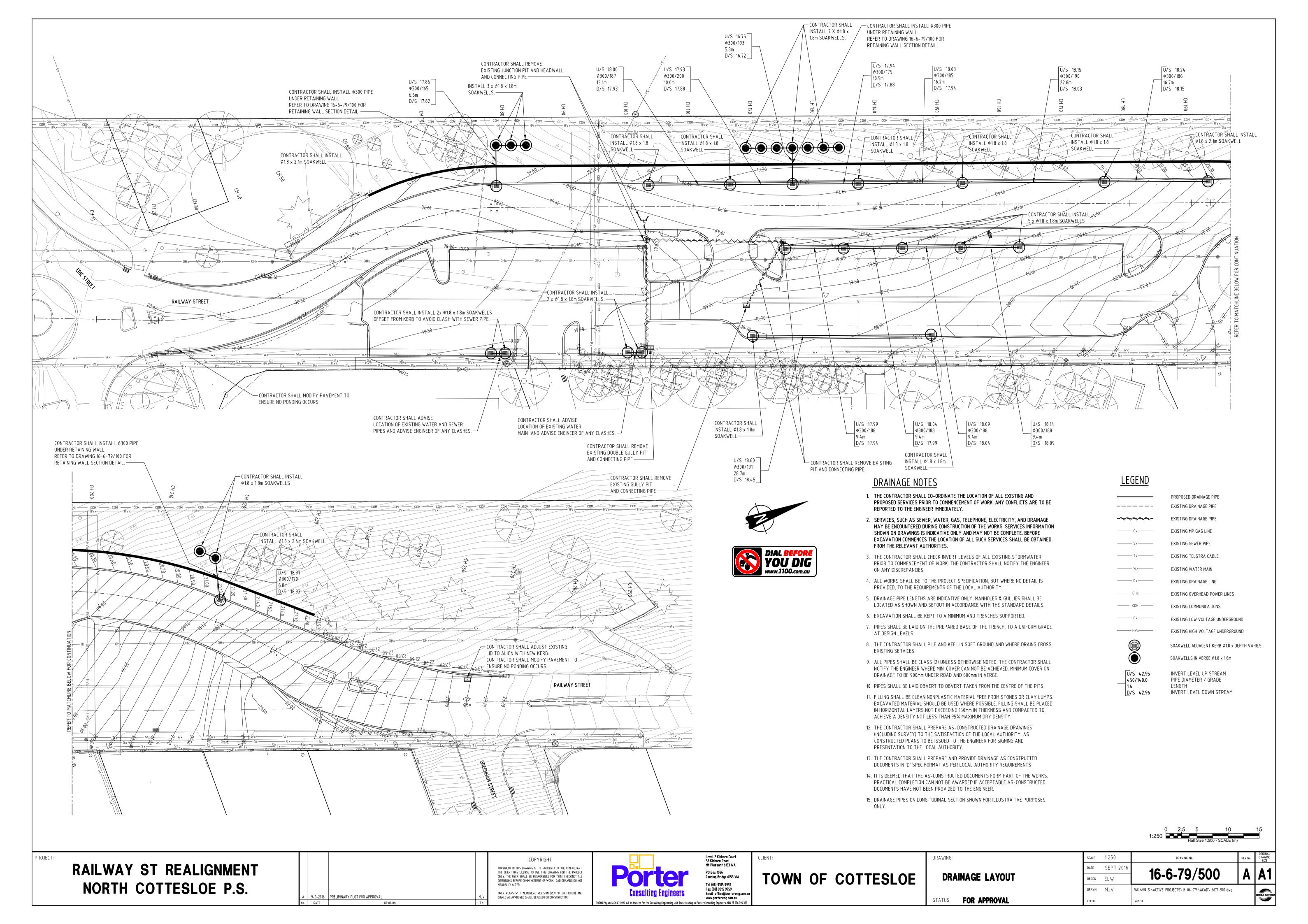


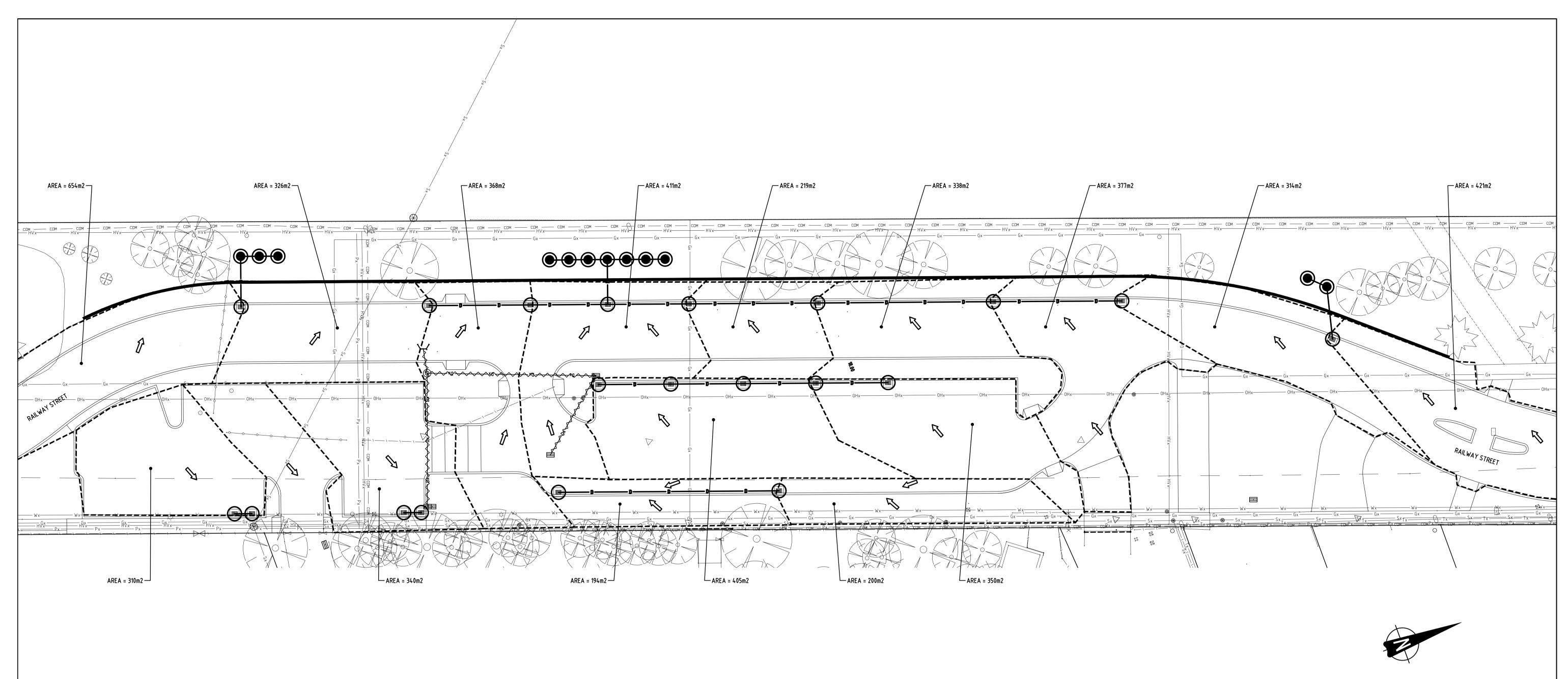
















PROPOSED DRAINAGE PIPE EXISTING DRAINAGE PIPE EXISTING DRAINAGE PIPE CATCHMENT BOUNDARIES _____ SOAKWELLS ADJACENT KERB Ø1.8 x VARIOUS DEPTHS SOAKWELLS IN VERGE Ø1.8 x 1.8m \bigoplus SURFACE FLOW ARROW EXISTING MP GAS LINE EXISTING SEWER PIPE EXISTING TELSTRA CABLE EXISTING WATER MAIN EXISTING DRAINAGE LINE EXISTING OVERHEAD POWER LINES EXISTING COMMUNICATIONS EXISTING LOW VOLTAGE UNDERGROUND

LEGEND

RAILWAY ST REALIGNMENT NORTH COTTESLOE P.S.

EXISTING HIGH VOLTAGE UNDERGROUND

COPYRIGHT COPYRIGHT IN THIS DRAWING IS THE PROPERTY OF THE CONSULTANT.
THE CLIENT HAS LICENSE TO USE THIS DRAWING FOR THE PROJECT
ONLY. THE USER SHALL BE RESPONSIBLE FOR "SITE CHECKING" ALL
DIMENSIONS BEFORE COMMENCEMENT OF WORK. CAD DRAWING DO NOT MANUALLY ALTER ONLY PLANS WITH NUMERICAL REVISION (REV '0' OR HIGHER) AND SIGNED AS APPROVED SHALL BE USED FOR CONSTRUCTION. A 9-9-2016 PRELIMINARY PLOT FOR APPROVAL

No. DATE

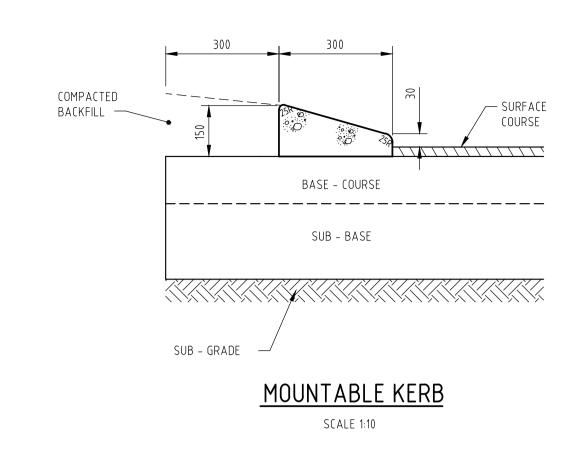


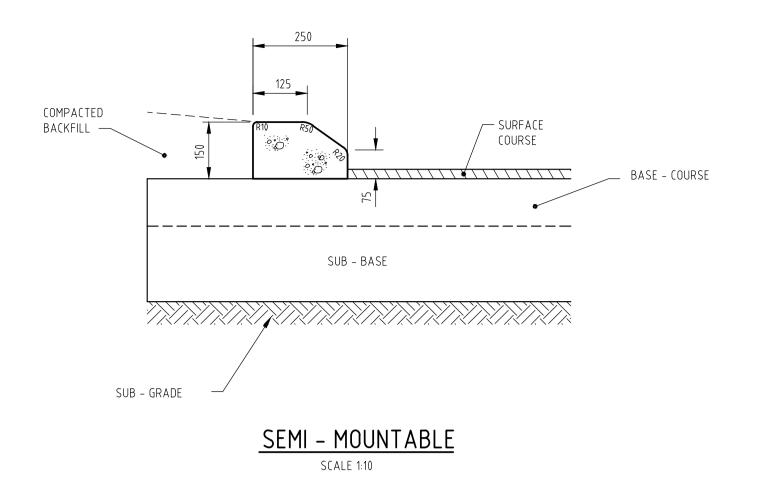
Tel (08) 9315 9955 Fax (08) 9315 9959 Email office@portereng.com.a

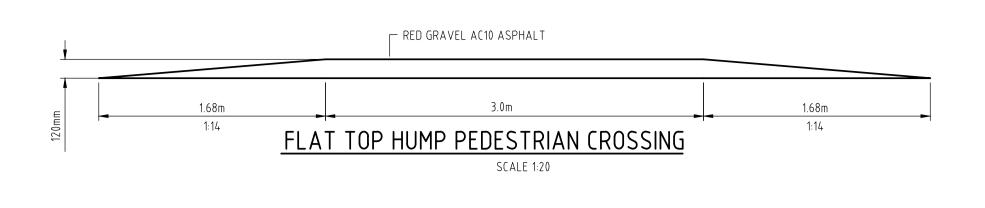
TOWN OF COTTESLOE

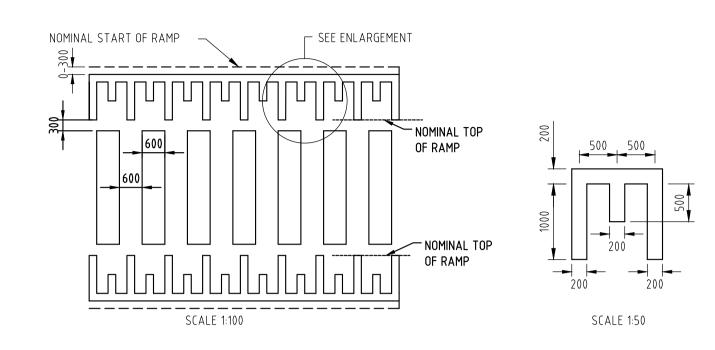
DRAWING: DRAINAGE CATCHMENT PLAN STATUS: FOR APPROVAL

scale 1:250 DATE SEPT 20 16-6-79/501 DRAWN MJV FILE NAME S:\ACTIVE PROJECTS\16-06-079\ACAD\16679-501.dwg

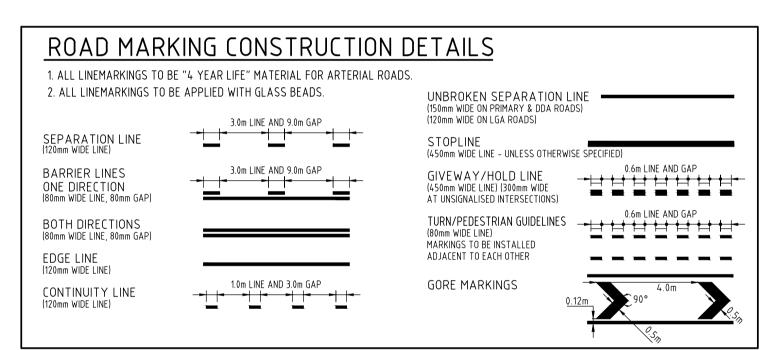


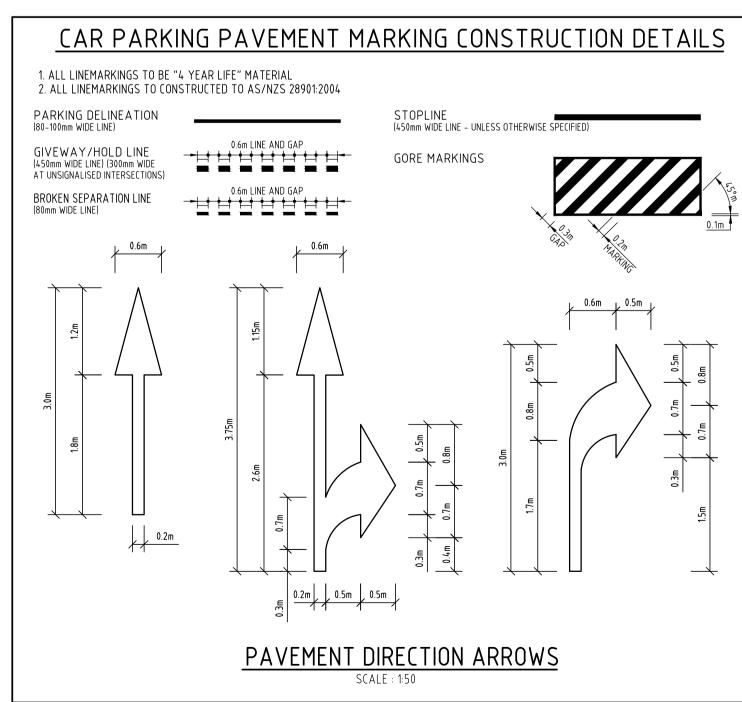


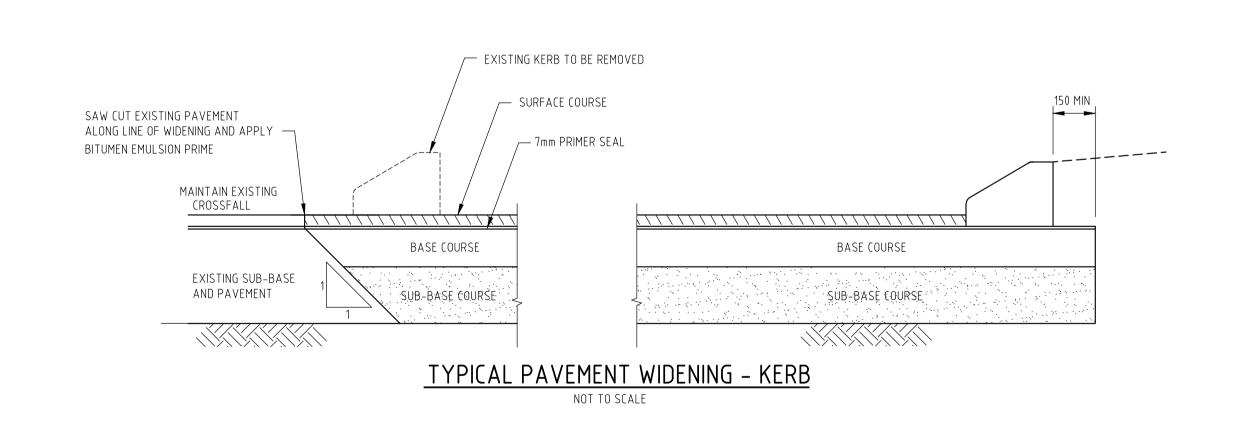


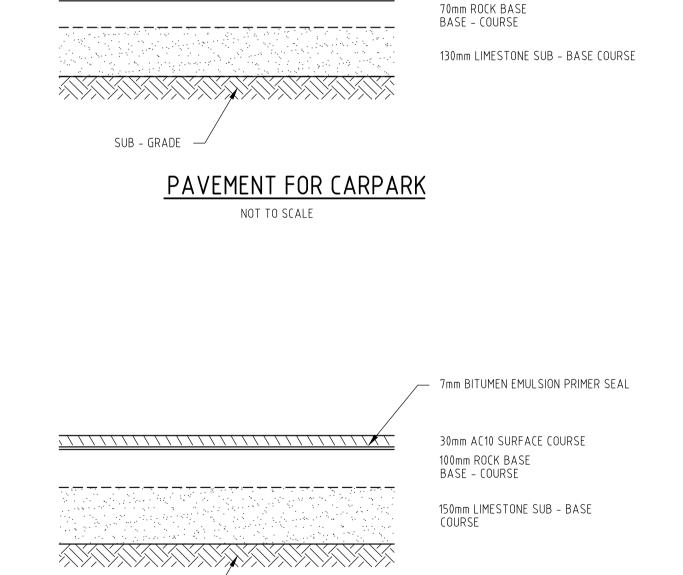


PAVEMENT MARKING DETAIL FOR PEDESTRIAN CROSSING SCALE AS SHOWN







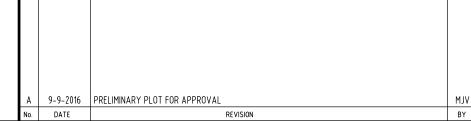


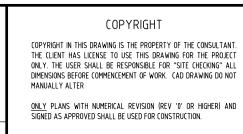
PAVEMENT ON SAND SUB GRADE

NOT TO SCALE

RAILWAY ST REALIGNMENT NORTH COTTESLOE P.S.

PROJECT:









TOWN OF COTTESLOE

DRAWING:

PAVEMENT STANDARD DETAILS

DESIGN
DRAWN

STATUS: FOR APPROVAL

CHECK

SUB - GRADE

SCALE AS SHOWN DRAWING No.

DATE SEPT 2016

DESIGN ELW

DRAWN MJV

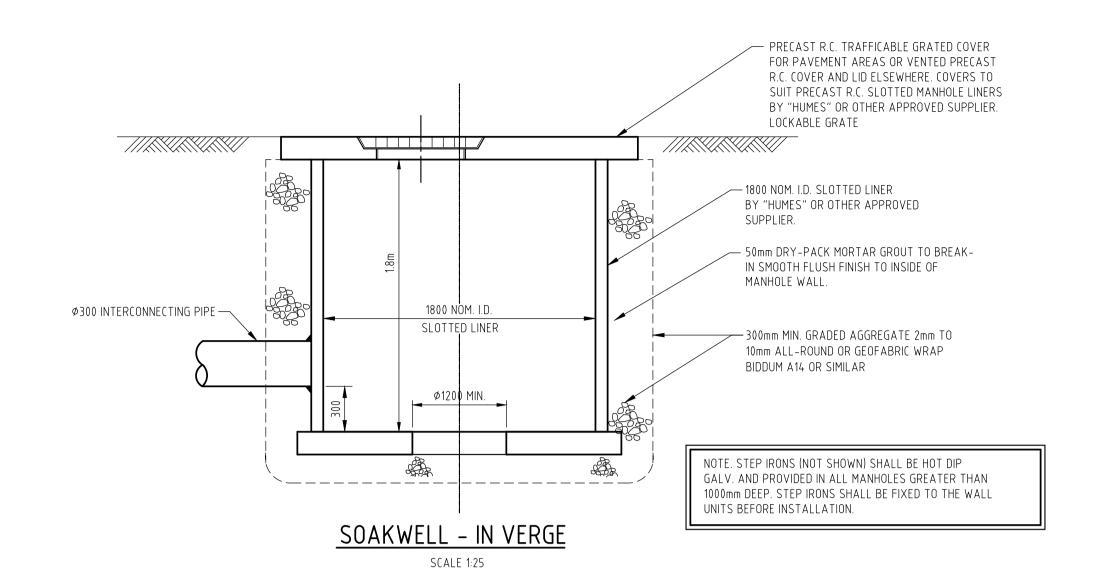
FILE NAME S:\ACTIVE PROJECTS\16-06-079\ACAD\16679-600.dwg

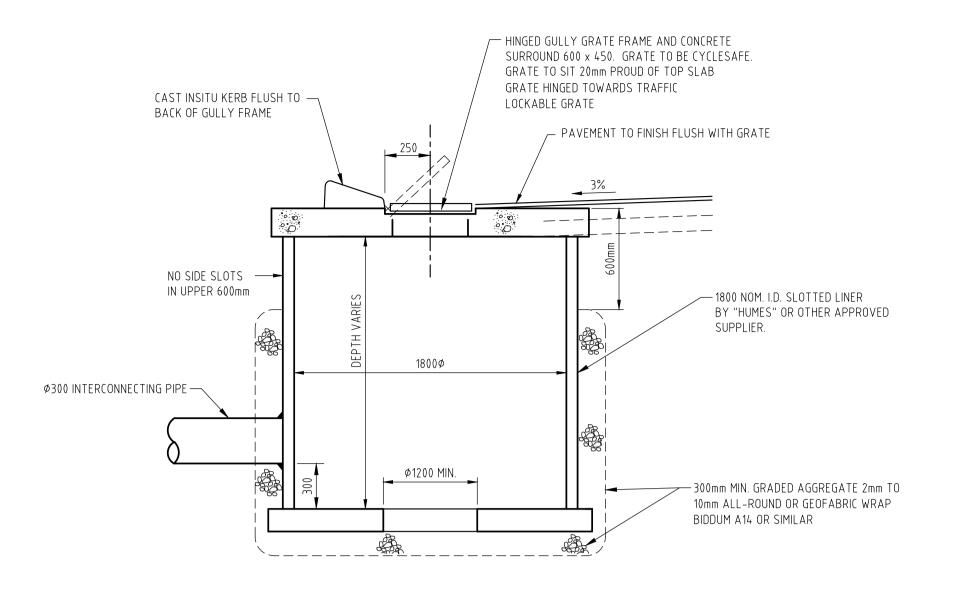
CHECK

APP'D

7mm BITUMEN EMULSION PRIMER SEAL

30mm AC10 SURFACE COURSE

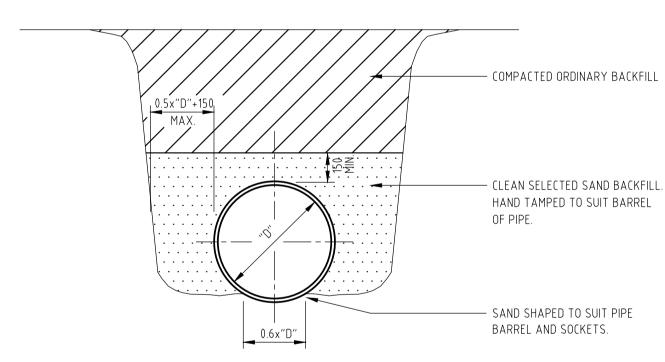




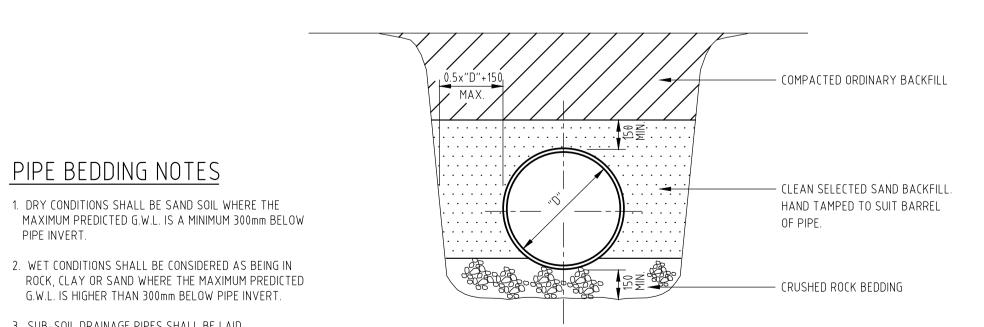
SOAKWELL/ GULLY PIT

SCALE 1:25

NOTE. STEP IRONS (NOT SHOWN) SHALL BE HOT DIP GALV. AND PROVIDED IN ALL MANHOLES GREATER THAN 1000mm DEEP. STEP IRONS SHALL BE FIXED TO THE WALL UNITS BEFORE INSTALLATION.



DRY CONDITIONS



WET CONDITIONS

PIPE BEDDING DETAILS

RAILWAY ST REALIGNMENT NORTH COTTESLOE P.S.



COPYRIGHT COPYRIGHT IN THIS DRAWING IS THE PROPERTY OF THE CONSULTANT. THE CLIENT HAS LICENSE TO USE THIS DRAWING FOR THE PROJECT ONLY. THE USER SHALL BE RESPONSIBLE FOR "SITE CHECKING" ALL DIMENSIONS BEFORE COMMENCEMENT OF WORK. CAD DRAWING DO NOT MANUALLY ALTER <u>ONLY</u> PLANS WITH NUMERICAL REVISION (REV '0' OR HIGHER) AND SIGNED AS APPROVED SHALL BE USED FOR CONSTRUCTION.



Level 2 Kishorn Court 58 Kishorn Road Mt Pleasant 6153 WA Tel (08) 9315 9955 Fax (08) 9315 9959 Email office@portereng.com.a

TOWN OF COTTESLOE

PIPE BEDDING NOTES

PIPE INVERT.

1. DRY CONDITIONS SHALL BE SAND SOIL WHERE THE

G.W.L. IS HIGHER THAN 300mm BELOW PIPE INVERT.

4. WHERE PIPES ARE BEDDED ON CRUSHED ROCK, THE BEDDING CONDITION SHALL BE CARRIED PAST ALL MANHOLES, GULLIES & OTHER DRAINAGE STRUCTURES

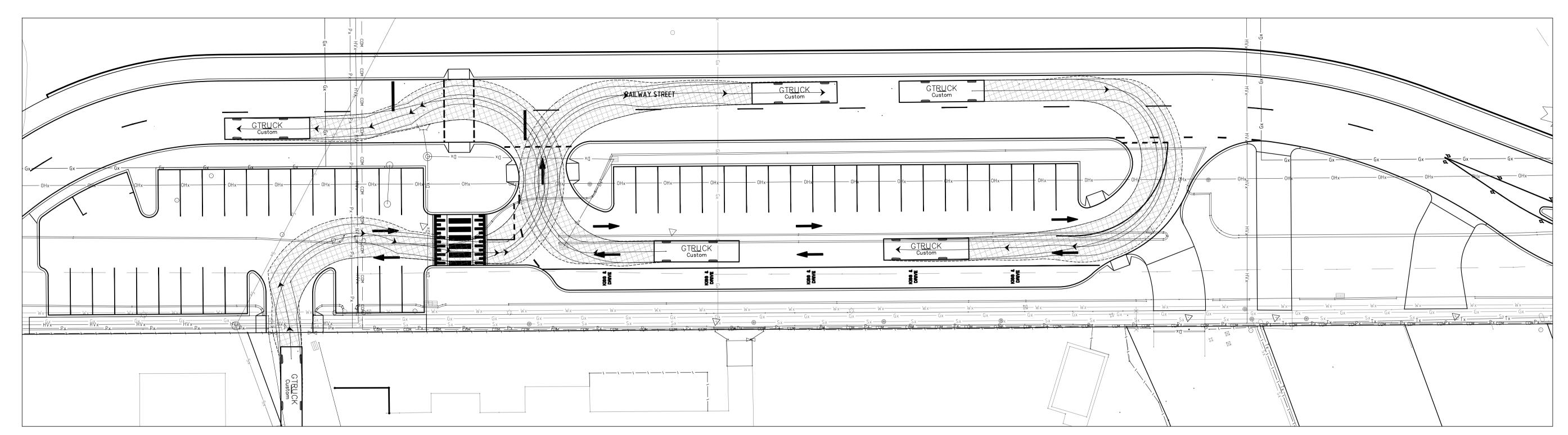
3. SUB-SOIL DRAINAGE PIPES SHALL BE LAID

WITH SLOTS DOWN.

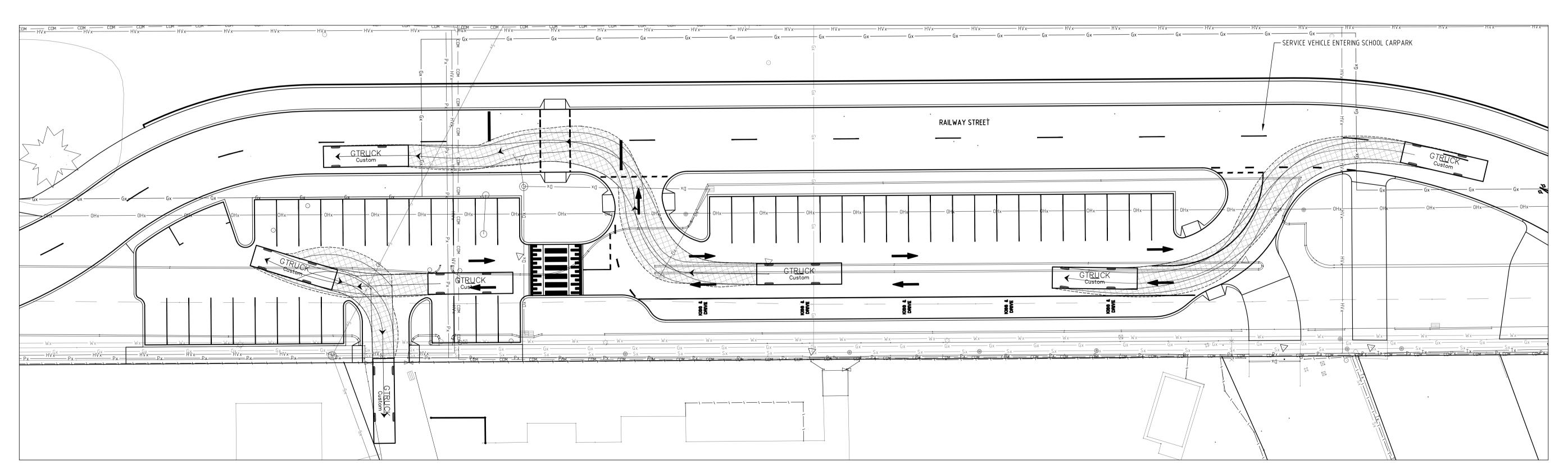
DOWNSTREAM.

DRAWING:	SCALE
	DATE
DRAINAGE DETAILS	
	DRAWN
STATUS: FOR APPROVAL	CHECK

AS SHOWN SEPT 2016 16-6-79/601 ELW FILE NAME S:\ACTIVE PROJECTS\16-06-079\ACAD\16679-601.dwg MJV



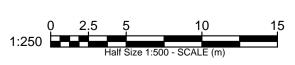
10m GARBAGE TRUCK RIGHT TURN IN, RIGHT TURN EXIT



10m GARBAGE TRUCK, LEFT TURN IN, LEFT TURN EXIT







RAILWAY ST REALIGNMENT NORTH COTTESLOE P.S.

B 9-9-2016 DESIGN VEHICLE CHANGED TO 10m GARBAGE TRUCK. NOT A BUS.
A 15-7-2016 PRELIMINARY PLOT FOR APPROVAL

No. DATE REVISION

COPYRIGHT COPYRIGHT IN THIS DRAWING IS THE PROPERTY OF THE CONSULTANT.
THE CLIENT HAS LICENSE TO USE THIS DRAWING FOR THE PROJECT
ONLY. THE USER SHALL BE RESPONSIBLE FOR "SITE CHECKING" ALL
DIMENSIONS BEFORE COMMENCEMENT OF WORK. CAD DRAWING DO NOT ONLY PLANS WITH NUMERICAL REVISION (REV '0' OR HIGHER) AND SIGNED AS APPROVED SHALL BE USED FOR CONSTRUCTION.



TOWN OF COTTESLOE

DRAWING: 10m GARBAGE TRUCK TURNING MOVEMENTS STATUS: FOR APPROVAL

DATE SEPT 20 16-6-79/800 DESIGN ELW FILE NAME S:\ACTIVE PROJECTS\16-06-079\ACAD\16679-800.dwg