

**LEGEND**

- PROPOSED KERB
- EXISTING KERB TO REMAIN
- 3.0m RED ASPHALT DUAL USE PATH
- AREA OF PROPOSED MEDIAN/ISLANDS
- AREA OF NEW PAVEMENT
- AREA OF CROSSOVER
- EXISTING NBN CABLES
- EXISTING TESLTRA CABLES
- EXISTING LOW VOLTAGE CABLES
- EXISTING HIGH VOLTAGE CABLES
- EXISTING GAS MAIN MLP
- EXISTING 610S WATER MAIN
- EXISTING WATER MAIN
- EXISTING WATER MAIN (DEAD)
- EXISTING SEWER
- PROPOSED DRAINAGE
- EXISTING DRAINAGE
- SEMI MOUNTABLE KERB TYPE 2
- MOUNTABLE KERB TYPE 2

**FOR TENDER**



DESIGNED: M.VINEY 19/05/2021	CHECKED: E.WILLIAMS 19/05/2021
DRAWN: M.VINEY 19/05/2021	APPROVED: E.WILLIAMS 19/05/2021

**Porter Consulting Engineers**

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

TUSAO Pty Ltd ACN 670 971 144 is trustee for the Consulting Engineering Unit Trust trading as Porter Consulting Engineers ABN 70 636 396 395

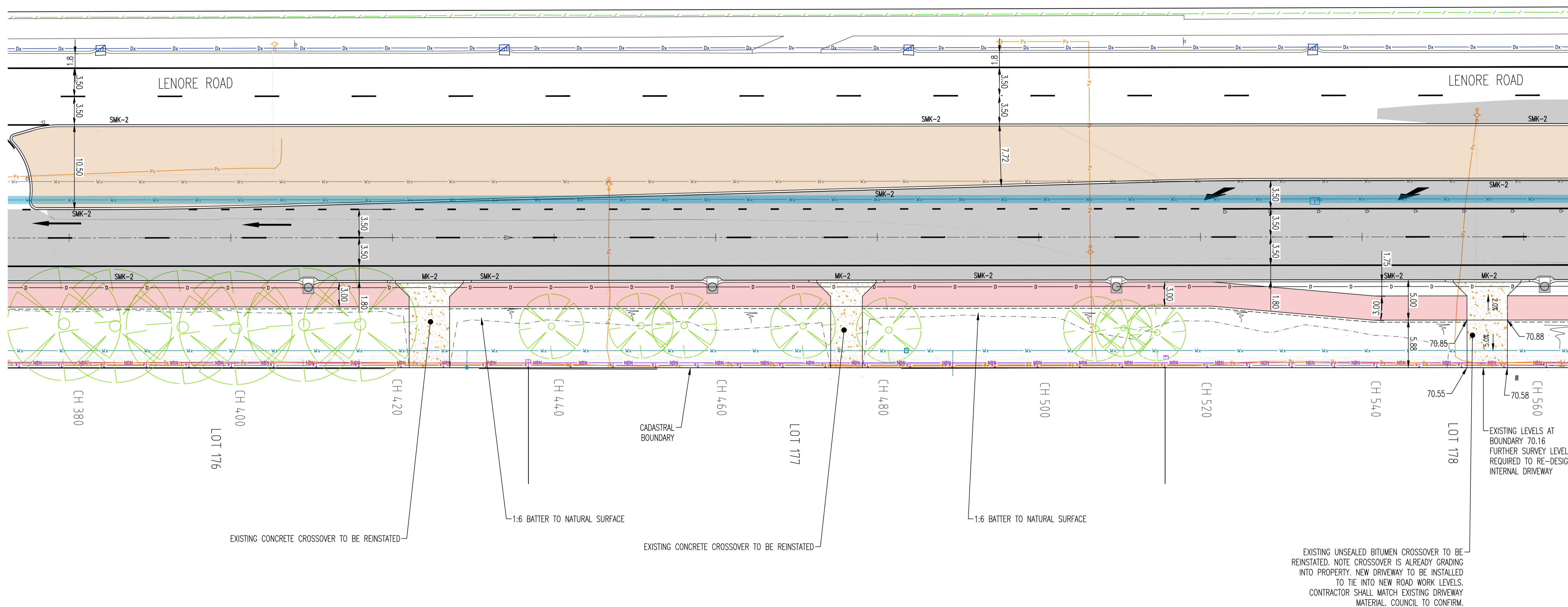
**CITY OF WANNEROO INFRASTRUCTURE**

**LENORE ROAD (1183), HOCKING**  
UPGRADE TO DUAL CARRIAGEWAY FROM KEMP STREET (0203) TO ELLIOT ROAD (0272)  
GENERAL

ROAD LAYOUT  
CH:200 TO 380

DRAWING No. SHEET REVISION ORIGINAL DRG. SIZE  
**3998-411-D** A1

No.	REVISION	BY	DATE	AUTH	No.	REVISION	BY	DATE	AUTH	SCALE:	DATE:	GRID:	CHECKED:	DATE:	FILE No.
D	ISSUED FOR TENDER	M.V.	11/2/22							1:250	AHD	PC094		15/9/2017	
C	STAGGER PATH IN MEDIAN ISLAND AND EXTEND PATH FOR SAFER CROSSING. (NRMA/RSA COMMENT)	M.V.	13/12/21											15/9/2017	
B	BENCH DRIVE INTERSECTION UPDATED, PATH VERGE ADDED, DRAINAGE DESIGN DETAILED	M.V.	16/9/21											15/9/2017	
A	ISSUED FOR PRELIMINARY APPROVAL	M.V.	30/8/21											15/9/2017	



EXISTING UNSEALED BITUMEN CROSSOVER TO BE REINSTATED. NOTE CROSSOVER IS ALREADY GRADING INTO PROPERTY. NEW DRIVEWAY TO BE INSTALLED TO TIE INTO NEW ROAD WORK LEVELS. CONTRACTOR SHALL MATCH EXISTING DRIVEWAY MATERIAL. COUNCIL TO CONFIRM.

**LEGEND**

- PROPOSED KERB
- EXISTING KERB TO REMAIN
- 3.0m RED ASPHALT DUAL USE PATH
- AREA OF PROPOSED MEDIAN/ISLANDS
- AREA OF NEW PAVEMENT
- AREA OF CROSSOVER
- EXISTING NBN CABLES
- EXISTING TESLTRA CABLES
- EXISTING LOW VOLTAGE CABLES
- EXISTING HIGH VOLTAGE CABLES
- EXISTING GAS MAIN MLP
- EXISTING 610S WATER MAIN
- EXISTING WATER MAIN
- EXISTING WATER MAIN (DEAD)
- EXISTING SEWER
- PROPOSED DRAINAGE
- EXISTING DRAINAGE
- SEMI MOUNTABLE KERB TYPE 2
- MOUNTABLE KERB TYPE 2

**FOR TENDER**



DESIGNED: M.VINEY 19/05/2021	CHECKED: E.WILLIAMS 19/05/2021
DRAWN: M.VINEY 19/05/2021	APPROVED: E.WILLIAMS 19/05/2021

**Porter Consulting Engineers**

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

TUSAO Pty Ltd ACN 670 971 144 is trustee for the Consulting Engineering Unit Trust trading as Porter Consulting Engineers ABN 70 636 396 395

**CITY OF WANNEROO INFRASTRUCTURE**

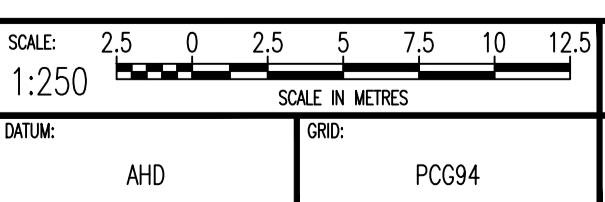
**LENORE ROAD (1183), HOCKING**  
UPGRADE TO DUAL CARRIAGEWAY FROM KEMP STREET (0203) TO ELLIOT ROAD (0272) GENERAL

ROAD LAYOUT  
CH:380 TO 560

DRAWING No. SHEET REVISION ORIGINAL DRG. SIZE  
**3998-412-D** A1

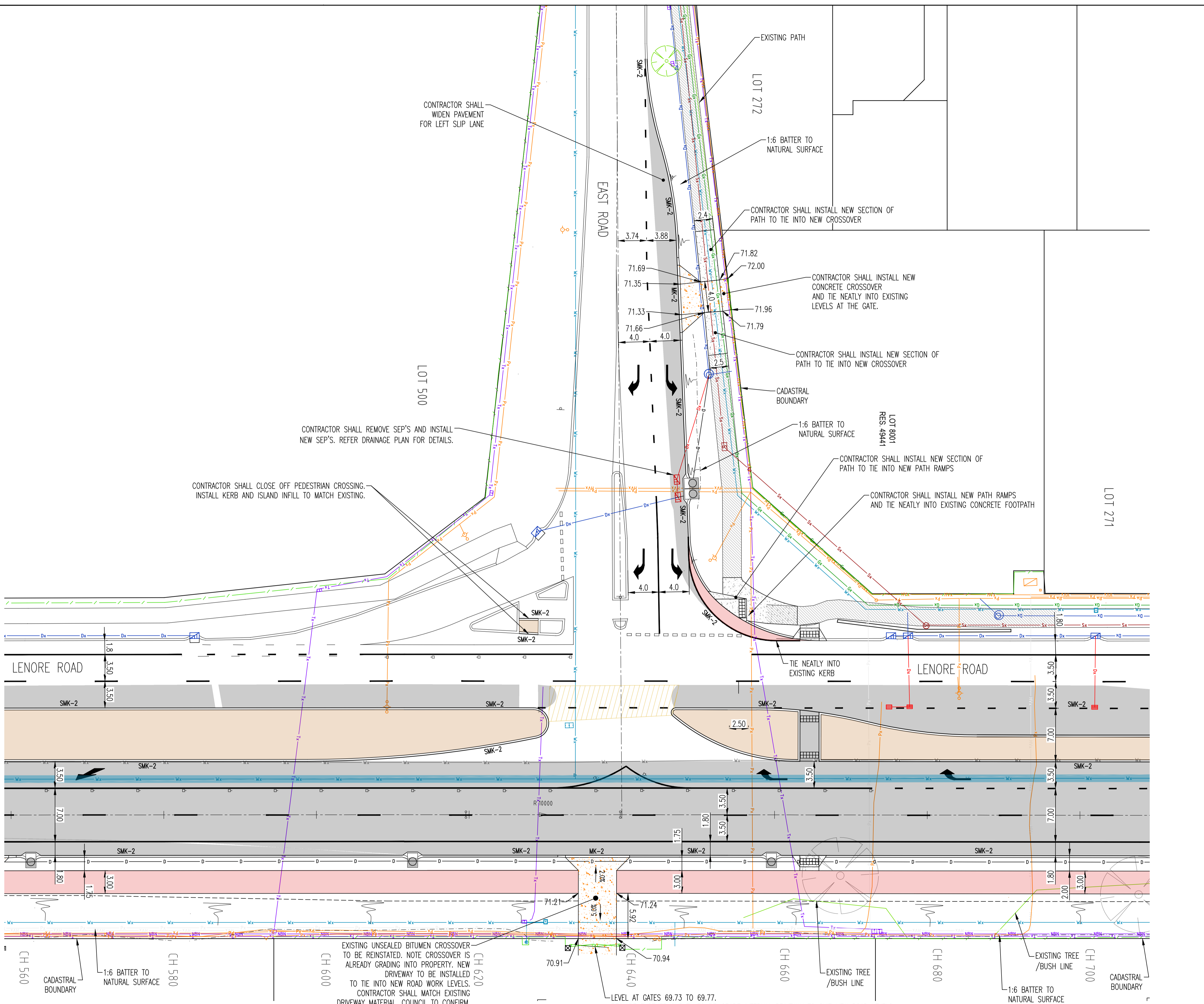
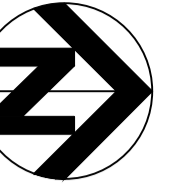
No.	REVISION	BY	DATE	AUTH	No.	REVISION	BY	DATE	AUTH
D	ISSUED FOR TENDER	M.V.	11/12/22						
C	STAGER PATH IN MEDIAN ISLAND AND EXTEND PATH FOR SAFER CROSSING. (NRWA/RSA COMMENT)	M.V.	13/12/21						
B	BENCH DRIVE INTERSECTION UPDATED, PATH VERGE ADDED, DRAINAGE DESIGN DETAILED	M.V.	16/9/21						
A	ISSUED FOR PRELIMINARY APPROVAL	M.V.	30/8/21						

No.	REVISION	BY	DATE	AUTH	No.	REVISION	BY	DATE	AUTH



SURVEYED: BROOK & MARSH 15/9/2017	AUTHORISED: MANAGER INFRASTRUCTURE PROJECTS 15/9/2017
CHECKED: MANAGER INFRASTRUCTURE MAINTENANCE 15/9/2017	FILE No. 15/9/2017
PROJECT MANAGER INFRASTRUCTURE DEVELOPMENT	PROJECT No. 15/9/2017

MANAGER INFRASTRUCTURE PROJECTS 15/9/2017	FILE No. 15/9/2017
MANAGER INFRASTRUCTURE MAINTENANCE 15/9/2017	PROJECT No. 15/9/2017
DIRECTOR ASSETS 15/9/2017	



**LEGEND**

	PROPOSED KERB
	EXISTING KERB TO REMAIN
	3.0m RED ASPHALT DUAL USE PATH
	AREA OF PROPOSED MEDIAN/ISLANDS
	AREA OF NEW PAVEMENT
	AREA OF CROSSOVER
	AREA OF CROSSOVER
	BLEND NEW PAVEMENT TO EXISTING
	EXISTING NBN CABLES
	EXISTING TELSTRA CABLES
	EXISTING LOW VOLTAGE CABLES
	EXISTING HIGH VOLTAGE CABLES
	EXISTING GAS MAIN MLP
	EXISTING 6105 WATER MAIN
	EXISTING WATER MAIN
	EXISTING WATER MAIN (DEAD)
	EXISTING SEWER
	PROPOSED DRAINAGE
	EXISTING DRAINAGE
	SMK-2 SEMI MOUNTABLE KERB TYPE 2
	MK-2 MOUNTABLE KERB TYPE 2

**FOR TENDER**



DESIGNED: M.VINEY	19/06/2021	CHECKED: E.WILLIAMS	19/06/2021
DRAWN: M.VINEY	19/06/2021	APPROVED: E.WILLIAMS	19/06/2021

**Porter Consulting Engineers**

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 670 197 144 is trustee for the Consulting Engineering Unit Trust trading as Porter Consulting Engineers ABN 70 636 396 395

**CITY OF WANNEROO INFRASTRUCTURE**

**LENORE ROAD (1183), HOCKING**  
UPGRADE TO DUAL CARRIAGEWAY FROM KEMP STREET (0203) TO ELLIOT ROAD (0272) GENERAL

ROAD LAYOUT  
CH:560 TO 700

DRAWING No. SHEET REVISION ORIGINAL DRG. SIZE  
**3998-413-D A1**

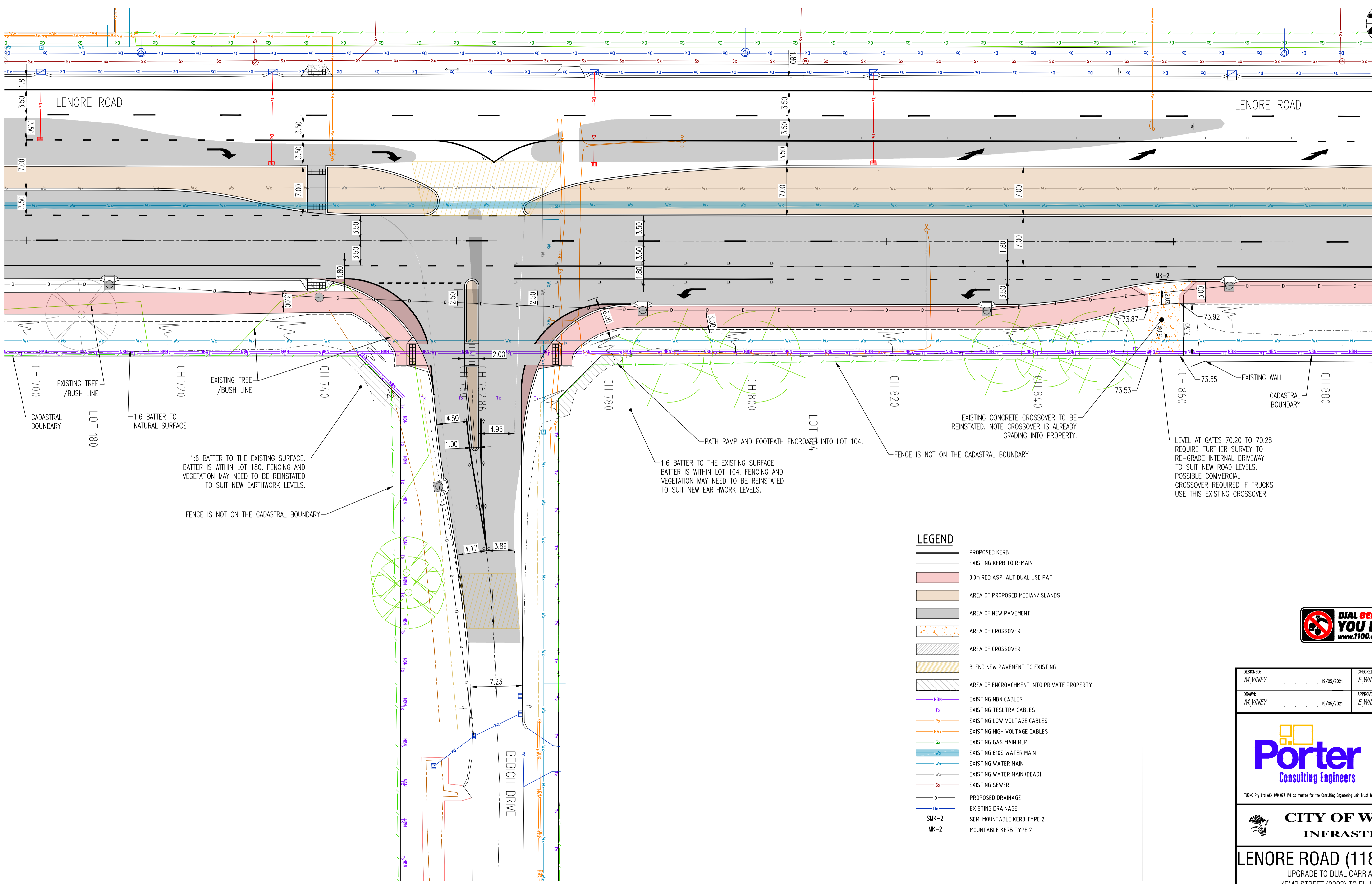
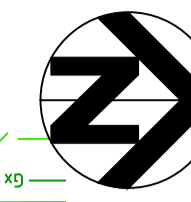
No.	REVISION	BY	DATE	AUTH	No.	REVISION	BY	DATE	AUTH
D	ISSUED FOR TENDER	MV	11/2/22						
C	1m PATH OFFSET THEN 1:2.5 BATTER. NEW PATH CROSSING BASED ON LENGTHENING SLIP LANE (RSA AUDIT)	MV	13/12/21						
B	BENCH DRIVE INTERSECTION UPDATED, PATH VERGE ADDED, DRAINAGE DESIGN DETAILED	MV	16/9/21						
A	ISSUED FOR PRELIMINARY APPROVAL	MV	30/8/21						

SCALE: 2.5 0 2.5 5 7.5 10 12.5	1:250	SCALE IN METRES
DATUM: AHD	GRID: PC094	

SURVEYED: BROOK & MARSH	7/5/2021	AUTHORISED: MANAGER INFRASTRUCTURE PROJECTS	15/9/2021
CHECKED: MANAGER INFRASTRUCTURE MAINTENANCE	15/9/2021	APPROVED: DIRECTOR ASSETS	15/9/2021

EXISTING UNSEALED BITUMEN CROSSOVER TO BE REINSTATED. NOTE CROSSOVER IS ALREADY GRADING INTO PROPERTY. NEW DRIVEWAY TO BE INSTALLED TO TIE INTO NEW ROAD WORK LEVELS. CONTRACTOR SHALL MATCH EXISTING DRIVEWAY MATERIAL. COUNCIL TO CONFIRM.

LEVEL AT GATES 69.73 TO 69.77. REQUIRE FURTHER SURVEY TO RE-GRADE INTERNAL DRIVEWAY TO SUIT NEW ROAD LEVELS.



1:6 BATTER TO THE EXISTING SURFACE. BATTER IS WITHIN LOT 180. FENCING AND VEGETATION MAY NEED TO BE REINSTATED TO SUIT NEW EARTHWORK LEVELS.

1:6 BATTER TO THE EXISTING SURFACE. BATTER IS WITHIN LOT 104. FENCING AND VEGETATION MAY NEED TO BE REINSTATED TO SUIT NEW EARTHWORK LEVELS.

EXISTING CONCRETE CROSSOVER TO BE REINSTATED. NOTE CROSSOVER IS ALREADY GRADING INTO PROPERTY.

LEVEL AT GATES 70.20 TO 70.28 REQUIRE FURTHER SURVEY TO RE-GRADE INTERNAL DRIVEWAY TO SUIT NEW ROAD LEVELS. POSSIBLE COMMERCIAL CROSSOVER REQUIRED IF TRUCKS USE THIS EXISTING CROSSOVER



DESIGNED: M.VINEY	19/05/2021	CHECKED: E.WILLIAMS	19/05/2021
DRAWN: M.VINEY	19/05/2021	APPROVED: E.WILLIAMS	19/05/2021

**Porter Consulting Engineers**

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

TUSAO Pty Ltd ACN 670 971 144 is trustee for the Consulting Engineering Unit Trust trading as Porter Consulting Engineers ABN 70 636 396 395

**CITY OF WANNEROO INFRASTRUCTURE**

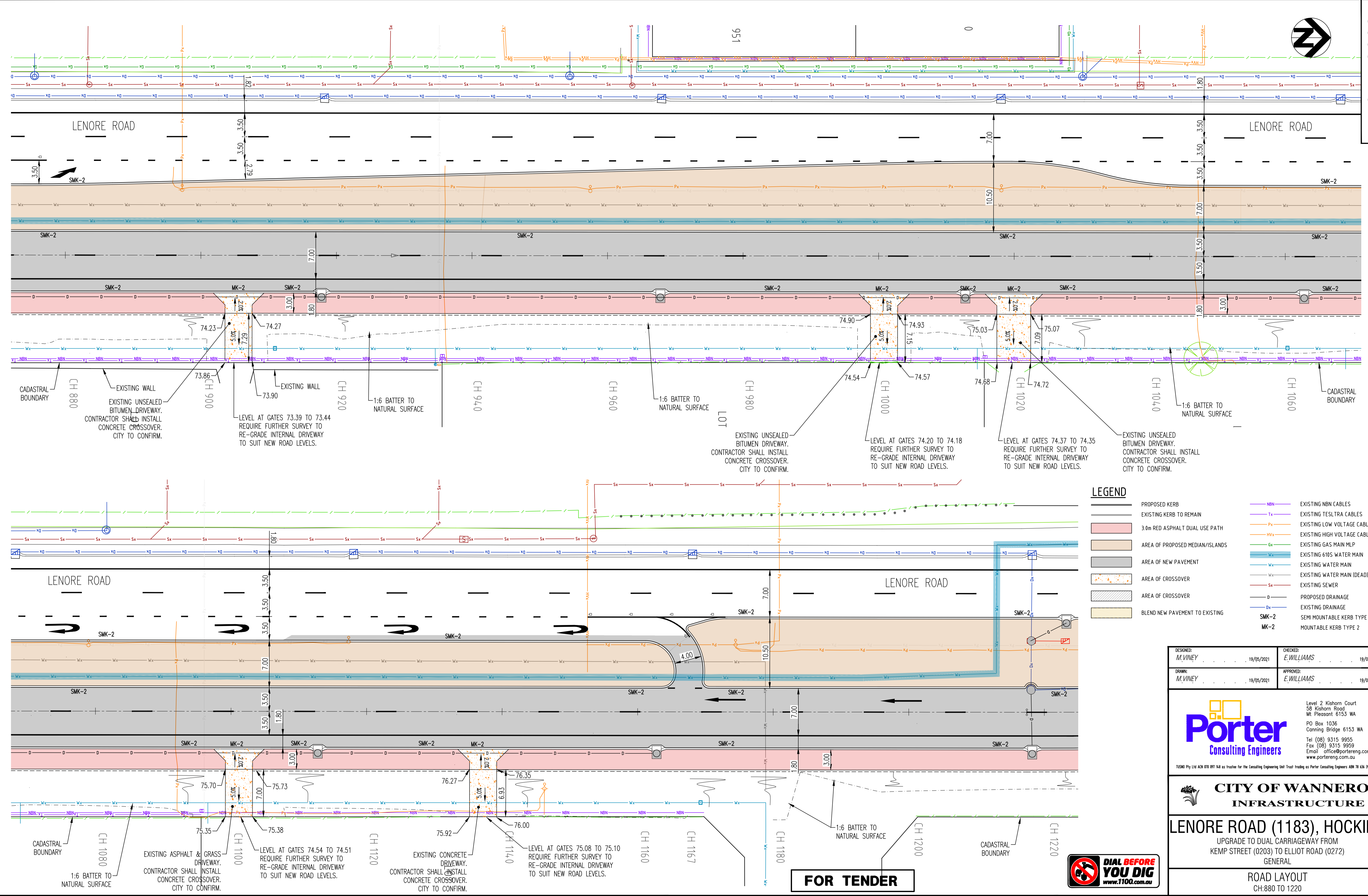
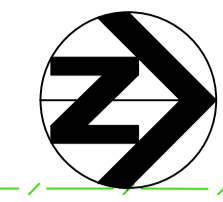
**LENORE ROAD (1183), HOCKING**  
UPGRADE TO DUAL CARRIAGEWAY FROM KEMP STREET (0203) TO ELLIOT ROAD (0272)  
GENERAL

ROAD LAYOUT  
CH:700 TO 880

**FOR TENDER**

No.	REVISION	BY	DATE	AUTH	No.	REVISION	BY	DATE	AUTH	SCALE: 1:250	DATE: AHD	GRID: P0094	CHECKED: 15/9/2017	PROJECT MANAGER INFRASTRUCTURE DEVELOPMENT	SURVEYED: BROOK & MARSH	7/5/2021	AUTHORISED: MANAGER INFRASTRUCTURE PROJECTS	15/9/2017	FILE No.
B	ISSUED FOR TENDER	M.V.	11/2/22							SCALE IN METRES									
C	SLIP LANES LENGTHENED TO MEET REQUIREMENTS. PATH TACTILE PAVERS ADDED. (RSA COMMENTS)	M.V.	13/12/21																
B	BERCH DRIVE INTERSECTION UPDATED. PATH VERGE ADDED. DRAINAGE DESIGN DETAILED	M.V.	16/9/21																
A	ISSUED FOR PRELIMINARY APPROVAL	M.V.	30/8/21																

DRAWING No. SHEET REVISION ORIGINAL DRG. SIZE  
**3998-414-D A1**



**LEGEND**

	PROPOSED KERB		EXISTING NBN CABLES
	EXISTING KERB TO REMAIN		EXISTING TELSTRA CABLES
	3.0m RED ASPHALT DUAL USE PATH		EXISTING LOW VOLTAGE CABLES
	AREA OF PROPOSED MEDIAN/ISLANDS		EXISTING HIGH VOLTAGE CABLES
	AREA OF NEW PAVEMENT		EXISTING GAS MAIN MLP
	AREA OF CROSSOVER		EXISTING 610S WATER MAIN
	BLEND NEW PAVEMENT TO EXISTING		EXISTING WATER MAIN
			EXISTING WATER MAIN (DEAD)
			EXISTING SEWER
			PROPOSED DRAINAGE
			EXISTING DRAINAGE
			SEMI MOUNTABLE KERB TYPE 2
			MOUNTABLE KERB TYPE 2

DESIGNED: M.VINEY	19/05/2021	CHECKED: E.WILLIAMS	19/05/2021
DRAWN: M.VINEY	19/05/2021	APPROVED: E.WILLIAMS	19/05/2021

**Porter Consulting Engineers**

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

TUSAO Pty Ltd ACN 070 174 is trustee for the Consulting Engineering Unit Trust trading as Porter Consulting Engineers ABN 70 636 396 395

**CITY OF WANNEROO INFRASTRUCTURE**

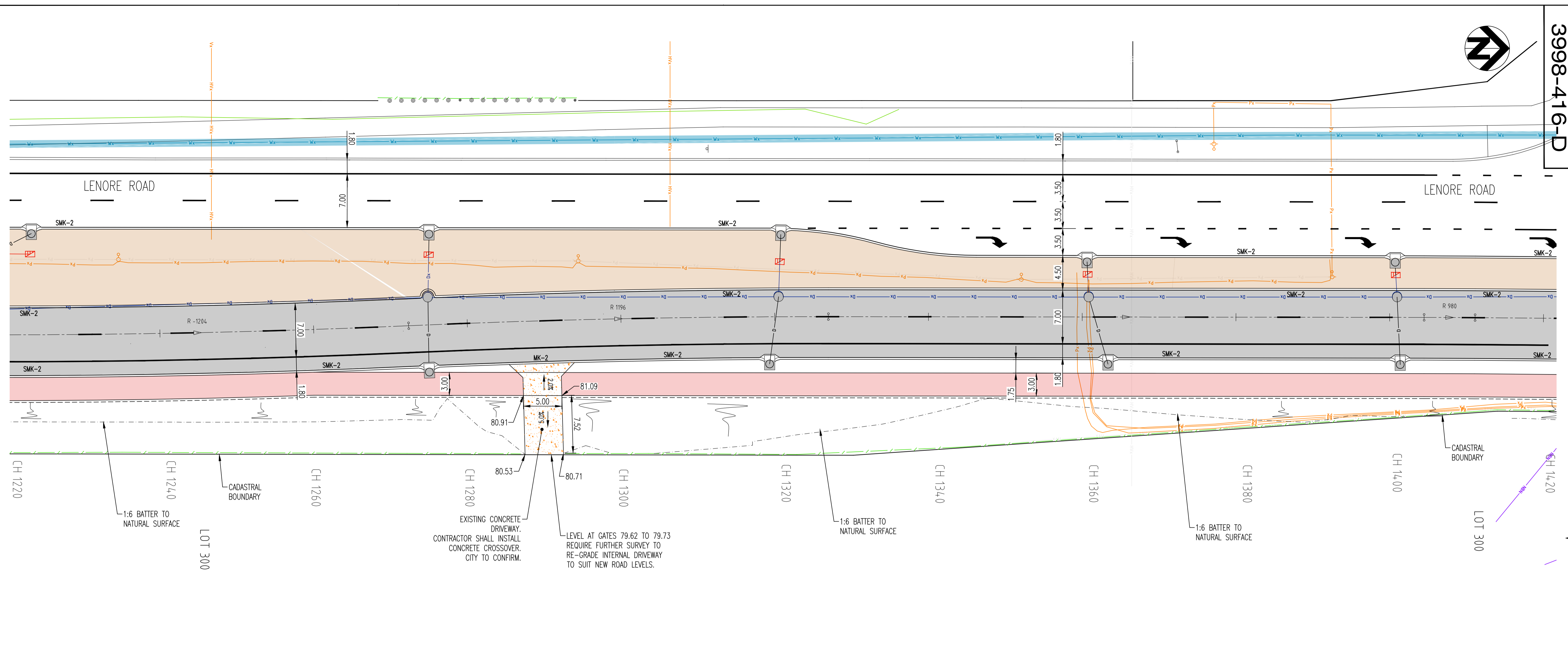
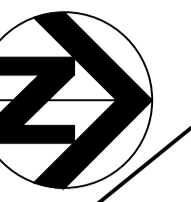
**LENORE ROAD (1183), HOCKING**  
UPGRADE TO DUAL CARRIAGEWAY FROM  
KEMP STREET (0203) TO ELLIOT ROAD (0272)  
GENERAL

ROAD LAYOUT  
CH:880 TO 1220

**FOR TENDER**



NO.	REVISION	BY	DATE	AUTH	NO.	REVISION	BY	DATE	AUTH	NO.	SCALE:	DATE:	CHECKED:	APPROVED:	FILE No.
B	ISSUED FOR TENDER	M.V.	11/2/22								1:250	15/9/2021	BROOK & MARSH SURVEYOR	MANAGER INFRASTRUCTURE PROJECTS	15/9/2021
C	STAGGER PATH IN MEDIAN ISLAND AND EXTEND PATH FOR SAFER CROSSING. (NRM/RSIA COMMENT)	M.V.	13/12/21								SCALE IN METRES	15/9/2021	BROOK & MARSH SURVEYOR	MANAGER INFRASTRUCTURE PROJECTS	15/9/2021
B	BENCH DRIVE INTERSECTION UPDATED, PATH VERGE ADDED, DRAINAGE DESIGN DETAILED	M.V.	16/9/21								AHD	15/9/2021	BROOK & MARSH SURVEYOR	MANAGER INFRASTRUCTURE PROJECTS	15/9/2021
A	ISSUED FOR PRELIMINARY APPROVAL	M.V.	30/8/21								PC094	15/9/2021	BROOK & MARSH SURVEYOR	MANAGER INFRASTRUCTURE MAINTENANCE	15/9/2021



EXISTING CONCRETE DRIVEWAY. CONTRACTOR SHALL INSTALL CONCRETE CROSSOVER. CITY TO CONFIRM.

LEVEL AT GATES 79.62 TO 79.73 REQUIRE FURTHER SURVEY TO RE-GRADE INTERNAL DRIVEWAY TO SUIT NEW ROAD LEVELS.



DESIGNED: M.VINEY 19/05/2021	CHECKED: E.WILLIAMS 19/05/2021
DRAWN: M.VINEY 19/05/2021	APPROVED: E.WILLIAMS 19/05/2021

**Porter Consulting Engineers**

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 670 971 144 is trustee for the Consulting Engineering Unit Trust trading as Porter Consulting Engineers ABN 70 636 396 395

**CITY OF WANNEROO INFRASTRUCTURE**

**LENORE ROAD (1183), HOCKING**  
UPGRADE TO DUAL CARRIAGEWAY FROM KEMP STREET (0203) TO ELLIOT ROAD (0272)  
GENERAL

ROAD LAYOUT  
CH:1220 TO 1420

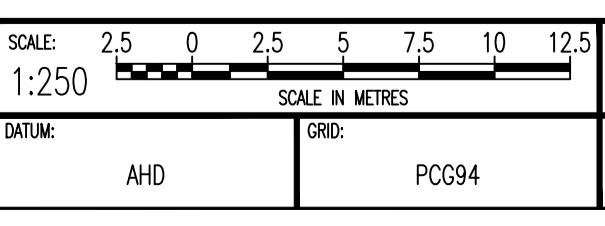
DRAWING No. SHEET REVISION ORIGINAL Dwg. SIZE  
**3998-416-D** A1

**LEGEND**

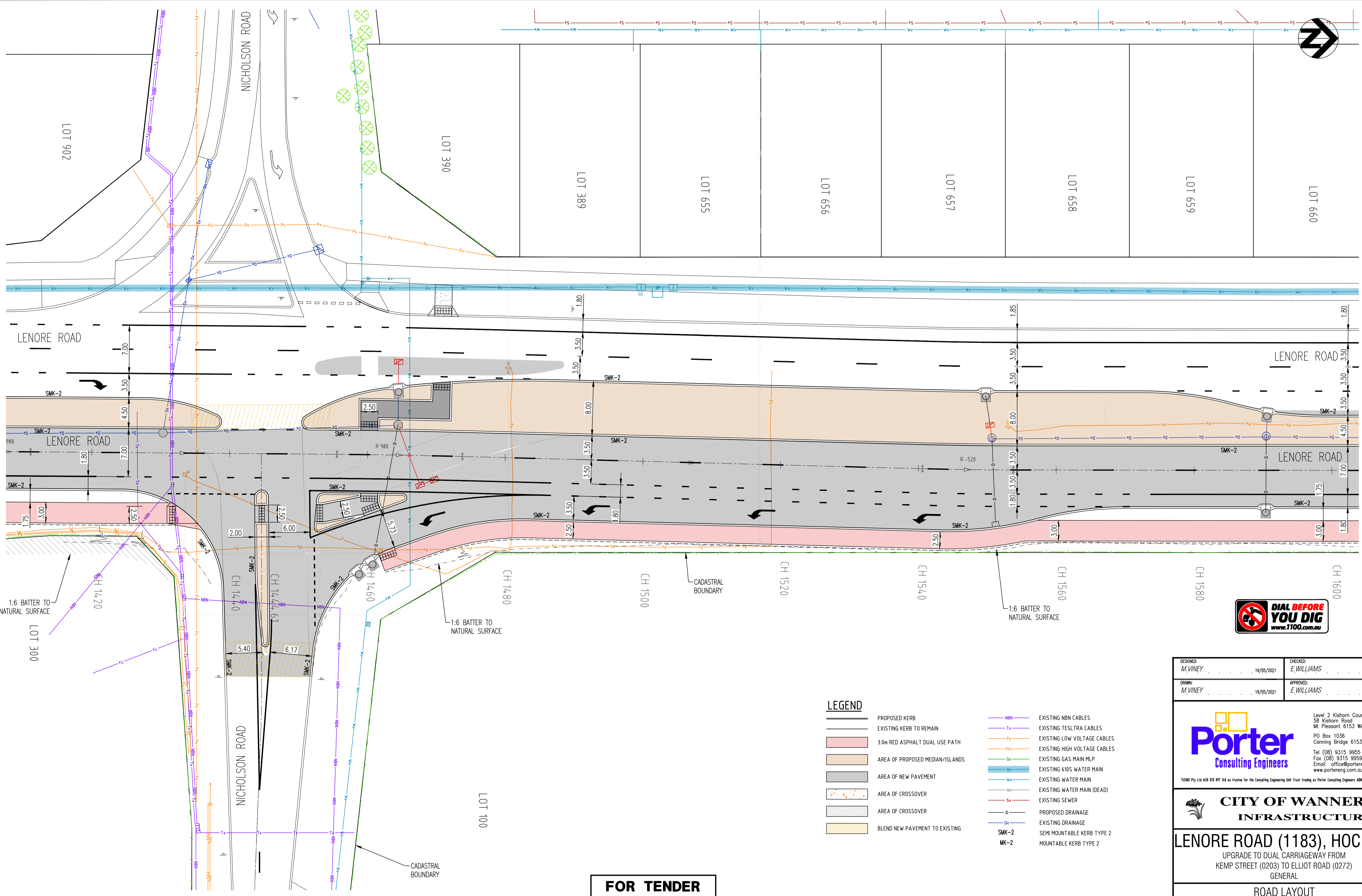
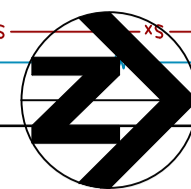
- PROPOSED KERB
- EXISTING KERB TO REMAIN
- 3.0m RED ASPHALT DUAL USE PATH
- AREA OF PROPOSED MEDIAN/ISLANDS
- AREA OF NEW PAVEMENT
- AREA OF CROSSOVER
- AREA OF CROSSOVER
- BLENDED NEW PAVEMENT TO EXISTING
- NBN — EXISTING NBN CABLES
- Tx — EXISTING TESLTRA CABLES
- Px — EXISTING LOW VOLTAGE CABLES
- HVx — EXISTING HIGH VOLTAGE CABLES
- Gx — EXISTING GAS MAIN MLP
- Wx — EXISTING 610S WATER MAIN
- Wx — EXISTING WATER MAIN
- Wx — EXISTING WATER MAIN (DEAD)
- Sx — EXISTING SEWER
- D — PROPOSED DRAINAGE
- Dx — EXISTING DRAINAGE
- SMK-2 SEMI MOUNTABLE KERB TYPE 2
- MK-2 MOUNTABLE KERB TYPE 2

**FOR TENDER**

No.	REVISION	BY	DATE	AUTH	No.	REVISION	BY	DATE	AUTH
D	ISSUED FOR TENDER	M.V.	11/2/22						
C	STAGGER PATH IN MEDIAN ISLAND AND EXTEND PATH FOR SAFER CROSSING. (NRMA/RSA COMMENT)	M.V.	13/12/21						
B	BENCH DRIVE INTERSECTION UPDATED, PATH VERGE ADDED. DRAINAGE DESIGN DETAILED	M.V.	16/9/21						
A	ISSUED FOR PRELIMINARY APPROVAL	M.V.	30/8/21						



SURVEYED: BROOK & MARSH SURVEYOR 7/5/2021	AUTHORISED: MANAGER INFRASTRUCTURE PROJECTS 15/9/2017	FILE No.
CHECKED: MANAGER INFRASTRUCTURE MAINTENANCE 15/9/2017	APPROVED: DIRECTOR ASSETS 15/9/2017	PROJECT No.



**LEGEND**

- PROPOSED KERB
- EXISTING KERB TO REMAIN
- 3.0m RED ASPHALT DUAL USE PATH
- AREA OF PROPOSED MEDIAN/ISLANDS
- AREA OF NEW PAVEMENT
- AREA OF CROSSOVER
- AREA OF CROSSOVER
- BLEND NEW PAVEMENT TO EXISTING
- EXISTING NBN CABLES
- EXISTING TESLTRA CABLES
- EXISTING LOW VOLTAGE CABLES
- EXISTING HIGH VOLTAGE CABLES
- EXISTING GAS MAIN MLP
- EXISTING 610S WATER MAIN
- EXISTING WATER MAIN
- EXISTING WATER MAIN (DEAD)
- EXISTING SEWER
- PROPOSED DRAINAGE
- EXISTING DRAINAGE
- SEMI MOUNTABLE KERB TYPE 2
- MOUNTABLE KERB TYPE 2

**FOR TENDER**

DESIGNED: M.VINEY	19/05/2021	CHECKED: E.WILLIAMS	19/05/2021
DRAWN: M.VINEY	19/05/2021	APPROVED: E.WILLIAMS	19/05/2021

**Porter Consulting Engineers**

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

TUSAO Pty Ltd ACN 670 977 144 is trustee for the Consulting Engineering Unit Trust trading as Porter Consulting Engineers ABN 70 636 396 395

**CITY OF WANNEROO INFRASTRUCTURE**

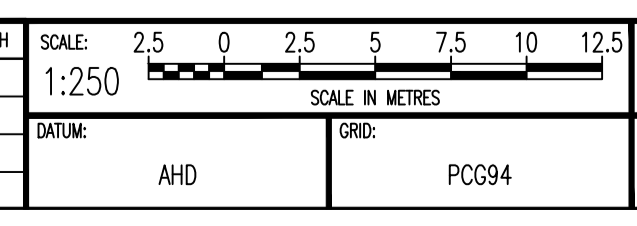
**LENORE ROAD (1183), HOCKING**  
UPGRADE TO DUAL CARRIAGEWAY FROM  
KEMP STREET (0203) TO ELLIOT ROAD (0272)  
GENERAL

ROAD LAYOUT  
CH:1420 TO 1600

DRAWING No. SHEET REVISION ORIGINAL DRG. SIZE  
**3998-417-D A1**

No.	REVISION	BY	DATE	AUTH	No.
D	ISSUED FOR TENDER	M.V.	11/2/22		
C	PATH STAGGERED TO AVOID LONG ROAD CROSSING. PATH TACTILE PAVERS ADDED (RSA COMMENTS)	M.V.	13/12/21		
B	BENCH DRIVE INTERSECTION UPDATED, PATH VERGE ADDED, DRAINAGE DESIGN DETAILED	M.V.	16/9/21		
A	ISSUED FOR PRELIMINARY APPROVAL	M.V.	30-8-21		

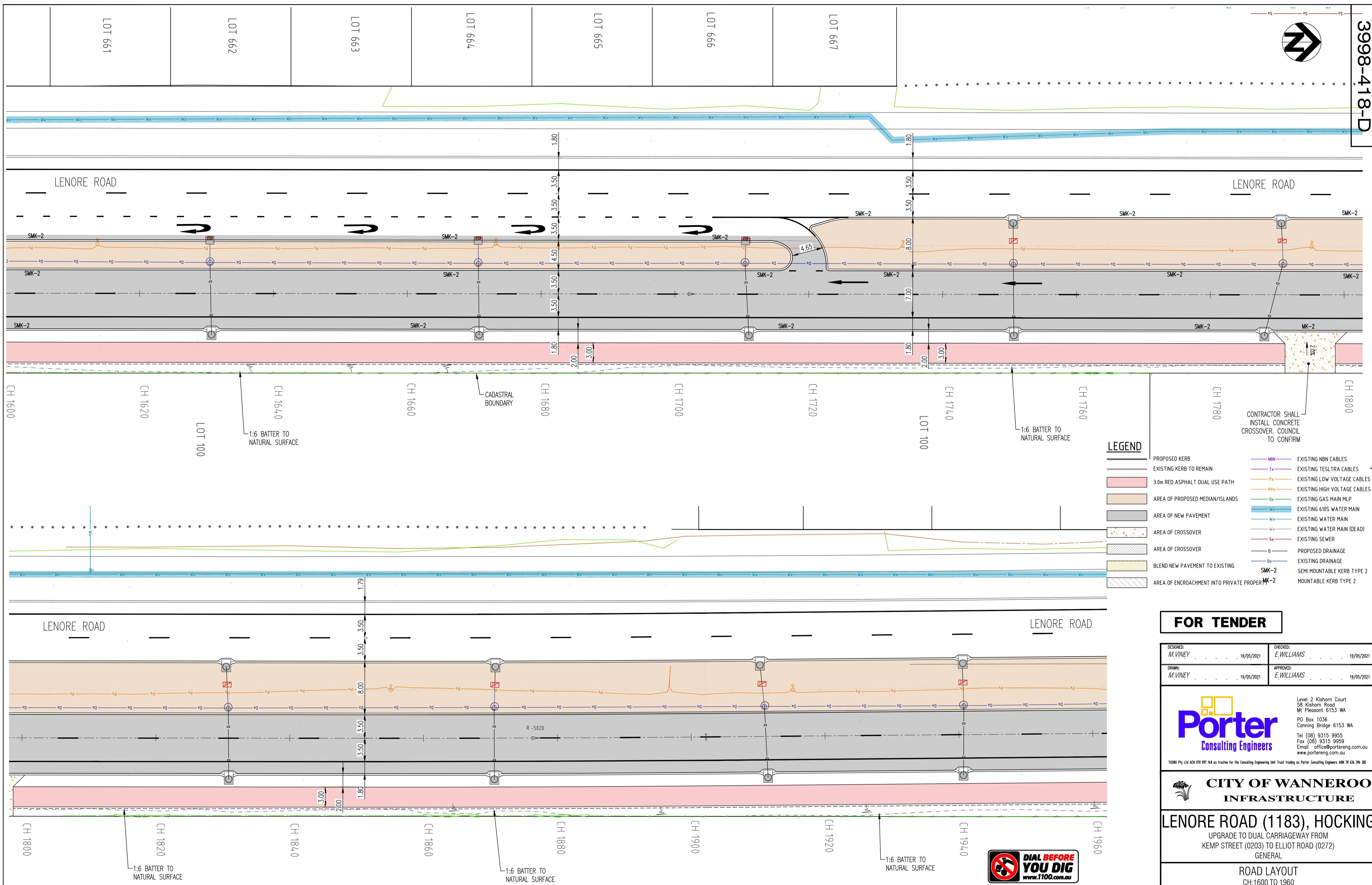
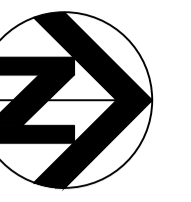
No.	REVISION	BY	DATE	AUTH	No.



SURVEYED: BROOK & MARSH	1/5/2021	AUTHORISED: MANAGER INFRASTRUCTURE PROJECTS	15/9/2017	FILE No.
CHECKED: MANAGER INFRASTRUCTURE MAINTENANCE	15/9/2017	APPROVED: DIRECTOR ASSETS	15/9/2017	PROJECT No.

PROJECT No.	15/9/2017
-------------	-----------





**LEGEND**

	PROPOSED KERB		EXISTING NBN CABLES
	EXISTING KERB TO REMAIN		EXISTING TESLTRA CABLES
	3.0m RED ASPHALT DUAL USE PATH		EXISTING LOW VOLTAGE CABLES
	AREA OF PROPOSED MEDIAN/ISLANDS		EXISTING HIGH VOLTAGE CABLES
	AREA OF NEW PAVEMENT		EXISTING GAS MAIN MLP
	AREA OF CROSSOVER		EXISTING 610S WATER MAIN
	AREA OF CROSSOVER		EXISTING WATER MAIN
	BLEND NEW PAVEMENT TO EXISTING		EXISTING WATER MAIN (DEAD)
	AREA OF ENCROACHMENT INTO PRIVATE PROPERTY		EXISTING SEWER
			PROPOSED DRAINAGE
			EXISTING DRAINAGE
			SEMI MOUNTABLE KERB TYPE 2
			MOUNTABLE KERB TYPE 2

CONTRACTOR SHALL INSTALL CONCRETE CROSSOVER. COUNCIL TO CONFIRM

**FOR TENDER**

DESIGNED: M.VINEY 19/05/2021	CHECKED: E.WILLIAMS 19/05/2021
DRAWN: M.VINEY 19/05/2021	APPROVED: E.WILLIAMS 19/05/2021

**Porter Consulting Engineers**

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

TUSAO Pty Ltd ACN 670 897 144 is trustee for the Consulting Engineering Unit Trust trading as Porter Consulting Engineers ABN 78 636 396 395

**CITY OF WANNEROO INFRASTRUCTURE**

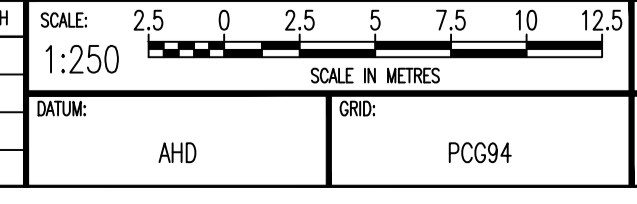
**LENORE ROAD (1183), HOCKING**  
UPGRADE TO DUAL CARRIAGEWAY FROM KEMP STREET (0203) TO ELLIOT ROAD (0272) GENERAL

ROAD LAYOUT  
CH:1600 TO 1960



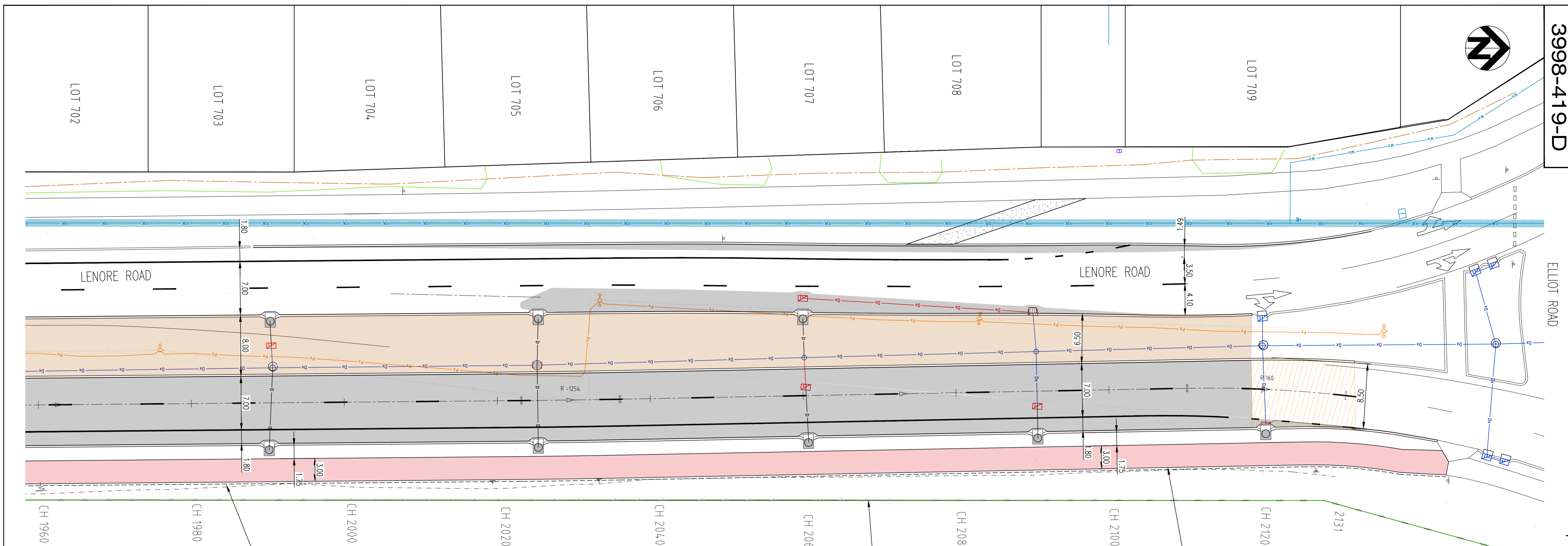
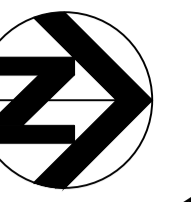
No.	REVISION	BY	DATE	AUTH	No.	REVISION	BY	DATE	AUTH
B	ISSUED FOR TENDER	M.V	11/2/22						
C	STAGGER PATH IN MEDIAN ISLAND AND EXTEND PATH FOR SAFER CROSSING. (NRM/RSIA COMMENT)	M.V	13/12/21						
B	BENCH DRIVE INTERSECTION UPDATED, PATH VERGE ADDED, DRAINAGE DESIGN DETAILED	M.V	16/9/21						
A	ISSUED FOR PRELIMINARY APPROVAL	M.V	30/8/21						

No.	REVISION	BY	DATE	AUTH	No.	REVISION	BY	DATE	AUTH



SURVEYED: BROOK & MARSH SURVEYOR	7/5/2021	AUTHORISED: MANAGER INFRASTRUCTURE PROJECTS	15/9/2017
CHECKED: MANAGER INFRASTRUCTURE MAINTENANCE	15/9/2017	APPROVED: DIRECTOR ASSETS	15/9/2017

FILE No.	
PROJECT No.	
DRAWING No.	3998-418-D
SHEET	A1
REVISION	
ORIGINAL DRG. SIZE	A1



**ROAD NOTES**

- VERTICAL DATUM: AUSTRALIAN HEIGHT DATUM.  
HORIZONTAL DATUM: PERTH COASTAL GRID 1994 (PCG94)
- SERVICES, SUCH AS SEWER, WATER, GAS, TELEPHONE, ELECTRICITY, AND DRAINAGE MAY BE ENCOUNTERED DURING CONSTRUCTION OF THE WORKS. SERVICES INFORMATION SHOWN ON DRAWINGS IS INDICATIVE ONLY AND MAY NOT BE COMPLETE. BEFORE EXCAVATION COMMENCES THE LOCATION OF ALL SUCH SERVICES SHALL BE OBTAINED FROM THE RELEVANT AUTHORITIES.
- THE CONTRACTOR SHALL CO-ORDINATE THE LOCATION OF ALL EXISTING AND PROPOSED SERVICES PRIOR TO COMMENCEMENT OF WORK. ANY CONFLICTS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATION, BUT WHERE NO DETAIL PROVIDED, TO THE REQUIREMENTS OF THE LOCAL AUTHORITY.
- CONTRACTOR SHALL PROVIDE ALL SIGNING, LIGHTING AND FLAGMEN NECESSARY TO ENSURE SAFETY OF THE PUBLIC AND OF THE WORKS.
- LOCATE ALL LEVELS FROM EXISTING SURVEY MARKS. ALL SURVEY MARKS SHALL BE PROTECTED.
- EXISTING VERGES SHALL NOT BE DISTURBED BEYOND THE EXTENT OF WORK.
- ALL FILL SHALL BE CLEAN NON-PLASTIC MATERIAL FREE FROM VEGETATION AND OTHER DELETERIOUS MATERIAL AND CERTIFIED AS SUITABLE FOR RESIDENTIAL LANDUSE.
- ALL FILL SHALL BE PLACED IN UNIFORM LAYERS NOT EXCEEDING 300mm THICKNESS AND COMPACTED TO A DENSITY NOT LESS THAN 95% MAXIMUM DRY DENSITY.
- CONTRACTOR SHALL TIE IN OF NEW SURFACE TO FINISH FLUSH WITH EXISTING SURFACE.
- BRICK PAVING SHALL BE CLAY HIGH PERFORMANCE 80mm PAVERS LAID IN HERRINGBONE 45° WITH HEADER COURSE AND PAVELOK UNLESS OTHERWISE SHOWN. COLOUR TO BE SPECIFIED BY THE ENGINEER.
- ALL EDGE KERBING SHALL BE MOUNTABLE (MK) AND ALL ISLAND KERBING SHALL BE SEMI MOUNTABLE (SMK) UNLESS OTHERWISE NOTED. TRANSITIONS BETWEEN DIFFERENT KERBS SHALL BE OVER 2m.
- SIGN POSTS AND STREET NAME PLATES SHALL BE SUPPLIED AND INSTALLED TO LOCAL AUTHORITY REQUIREMENTS. CONTRACTOR SHALL FIT STREET NAME PLATES TO ADJACENT LIGHT POLES WHERE APPROPRIATE.
- THE CONTRACTOR SHALL SPOT OUT THE LINE MARKING. THE CONTRACTOR SHALL ADVISE MAIN ROADS WHEN THE SITE IS READY FOR LINE MARKING AND SIGNAGE INSTALLATION. LINE MARKING AND SIGNING SHALL BE UNDERTAKEN BY MAIN ROADS.
- THE CONTRACTOR SHALL PREPARE AS-CONSTRUCTED ROADS AND PATH DRAWINGS (INCLUDING SURVEY) TO THE SATISFACTION OF THE LOCAL AUTHORITY. AS CONSTRUCTED PLANS SHALL BE ISSUED TO THE ENGINEER FOR SIGNING AND PRESENTATION TO THE LOCAL AUTHORITY.
- THE CONTRACTOR SHALL PREPARE AND PROVIDE ROAD AND PATH AS CONSTRUCTED DOCUMENTS IN 'R' SPEC FORMAT AS PER LOCAL AUTHORITY REQUIREMENTS.
- IT IS DEEMED THAT THE AS CONSTRUCTED DOCUMENTS FORM PART OF THE WORKS. PRACTICAL COMPLETION CAN NOT BE AWARDED IF ACCEPTABLE AS CONSTRUCTED DOCUMENTS HAVE NOT BEEN PROVIDED TO THE ENGINEER.

**PATH NOTES**

- ALL FOOTPATHS AND PEDESTRIAN RAMPS SHALL BE CONSTRUCTED TO LOCAL AUTHORITY STANDARD. ALL MATERIAL USED SHALL BE IN ACCORDANCE WITH LOCAL AUTHORITY STANDARD SPECIFICATION.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING WORKS, AND SUPPLY AND MAINTAIN ALL SAFETY DEVICES TO PROTECT VEHICLES, PEDESTRIANS AND THE WORKS.
- UNLESS OTHERWISE SHOWN, ALL FOOTPATHS SHALL BE 1.5m WIDE WITH A 0.3m OFFSET FROM THE ROAD RESERVE BOUNDARY. FOOTPATHS ADJACENT TO RETAINING WALLS SHALL BE 1.8m WIDE AND LOCATED ON THE ROAD RESERVE BOUNDARY.
- UNLESS OTHERWISE SHOWN, ALL SHARED USE PATHS SHALL BE 2.1m WIDE WITH A 0.3m OFFSET FROM THE ROAD RESERVE BOUNDARY. SHARED USE PATHS ADJACENT TO RETAINING WALLS SHALL BE 2.4m WIDE AND LOCATED ON THE ROAD RESERVE BOUNDARY.
- UNLESS OTHERWISE SHOWN, ALL JOINTS SHALL BE SPACED IN ACCORDANCE WITH THE LOCAL AUTHORITY REQUIREMENTS. IF NOT AVAILABLE, THEY SHALL BE AS PER THE IPWEA REQUIREMENTS. JOINTS SHALL TIE IN WITH KERB JOINTS.
- EXPANSION JOINT TO BE PROVIDED AT ANY SIGNIFICANT CHANGE IN WIDTH AND DIRECTION OR WHERE ADJACENT TO SOLID OBJECT, OTHERWISE AT MAX SPACING OF 40m.
- PRIOR TO PLACING CONCRETE THE BASE SHALL BE FREE FROM DELTERIOUS MATERIAL, UNIFORMLY COMPACTED TO 95% MAXIMUM DRY DENSITY AND LIGHTLY DAMPENED.
- ALL CONCRETE WORK SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 32 MPa AT 28 DAYS, UNLESS OTHERWISE NOTED.
- THE FINAL SURFACE SHALL BE BROOM FINISHED AND ALL EDGES AND JOINTS TOOL FINISHED.
- CONTRACTOR SHALL PROTECT THE FINISHED WORK FOR 24 HOURS AFTER THE CONCRETE HAS BEEN LAID, ANY DAMAGE SHALL BE MADE GOOD AT THE CONTRACTORS EXPENSE.

**LEGEND**

- |  |  |  |                              |
|--|--|--|------------------------------|
|  | PROPOSED KERB                              |  | EXISTING NBN CABLES          |
|  | EXISTING KERB TO REMAIN                    |  | EXISTING TESLTRA CABLES      |
|  | 3.0m RED ASPHALT DUAL USE PATH             |  | EXISTING LOW VOLTAGE CABLES  |
|  | AREA OF PROPOSED MEDIAN/ISLANDS            |  | EXISTING HIGH VOLTAGE CABLES |
|  | AREA OF NEW PAVEMENT                       |  | EXISTING GAS MAIN MLP        |
|  | AREA OF CROSSOVER                          |  | EXISTING 610S WATER MAIN     |
|  | AREA OF CROSSOVER                          |  | EXISTING WATER MAIN          |
|  | BLEND NEW PAVEMENT TO EXISTING             |  | EXISTING WATER MAIN (DEAD)   |
|  | AREA OF ENCROACHMENT INTO PRIVATE PROPERTY |  | EXISTING SEWER               |
|  |  |  | PROPOSED DRAINAGE            |
|  |  |  | EXISTING DRAINAGE            |
|  |  |  | SEM MOUNTABLE KERB TYPE 2    |
|  |  |  | MOUNTABLE KERB TYPE 2        |

**FOR TENDER**



DESIGNED: M.VINEY	19/05/2021	CHECKED: E.WILLIAMS	19/05/2021
DRAWN: M.VINEY	19/05/2021	APPROVED: E.WILLIAMS	19/05/2021

**Porter Consulting Engineers**

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

TSSRO Pty Ltd ACN 670 977 144 is trustee for the Consulting Engineering Unit Trust trading as Porter Consulting Engineers ABN 70 636 396 395

**CITY OF WANNEROO INFRASTRUCTURE**

**LENORE ROAD (1183), HOCKING**  
UPGRADE TO DUAL CARRIAGEWAY FROM KEMP STREET (0203) TO ELLIOT ROAD (0272)  
GENERAL

ROAD LAYOUT  
CH:1960 TO 2131

DRAWING No. SHEET REVISION ORIGINAL DRG. SIZE  
**3998-419-D A1**

No.	REVISION	BY	DATE	AUTH	No.	REVISION	BY	DATE	AUTH	SCALE:	2.5	0	2.5	5	7.5	10	12.5	SURVEYED:	15/9/2017	FILE No.	15/9/2017	
D	ISSUED FOR TENDER	M.V.	11/2/22							1:250								BROOK & MARSH	7/5/2021		15/9/2017	
C	STAGER PATH IN MEDIAN ISLAND AND EXTEND PATH FOR SAFER CROSSING. (NBN/RSA COMMENT)	M.V.	13/12/21															SURVEYOR			MANAGER INFRASTRUCTURE PROJECTS	15/9/2017
B	BENCH DRINK INTERSECTION UPDATED, PATH VERGE ADDED, DRAINAGE DESIGN DETAILED	M.V.	16/9/21															CHECKED:	15/9/2017		MANAGER INFRASTRUCTURE MAINTENANCE	15/9/2017
A	ISSUED FOR PRELIMINARY APPROVAL	M.V.	30/8/21															DATUM:	AHD		PROJECT MANAGER INFRASTRUCTURE DEVELOPMENT	15/9/2017
																		GRID:	PCG94		DIRECTOR ASSETS	15/9/2017