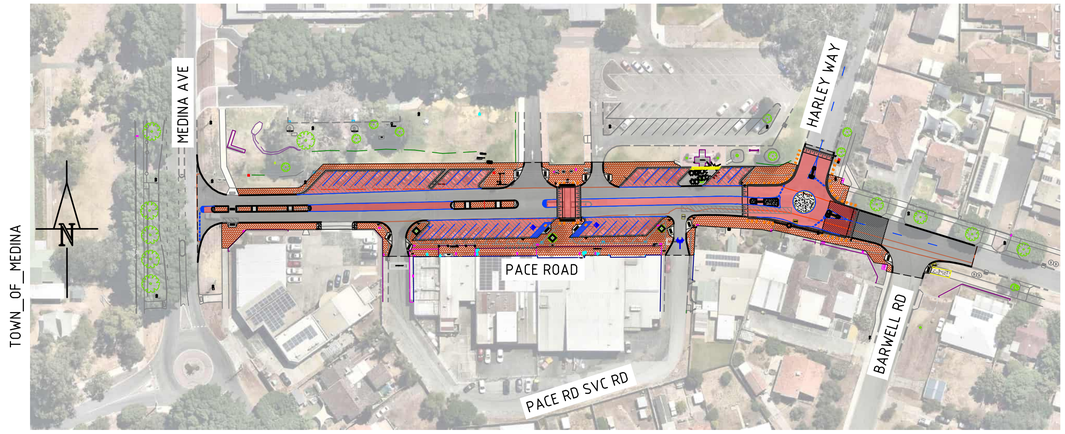
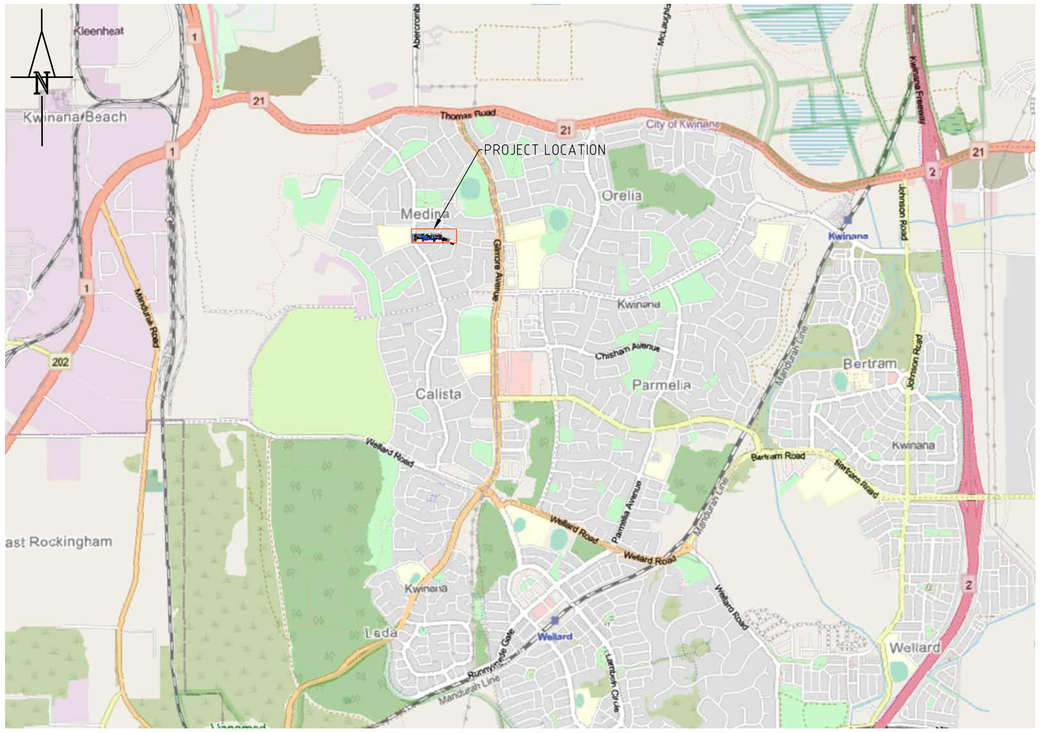
CITY OF KWINANA

PACE ROAD UPGRADE





LOCALITY PLAN

N.T.S

DRAWING LIST	
DRAWING No.	DRAWING TITLE
C-000	COVER SHEET
C-001	GENERAL NOTES
C-002	EXISTING TOPOGRAPHY AND SERVICES
C-100	GENERAL ARRANGEMENT
C-101	DEMOLITION PLAN
C-102	PROPOSED DESIGN
C-103	SWEPT PATH ANALYSIS
C-104	DRAINAGE PLAN
C-105	DRAINAGE SCHEDULE
C-150	SIGNS AND LINES
C-200	CROSS SECTIONS SHEET 1 OF 2
C-201	CROSS SECTIONS SHEET 2 OF 2
C-250	TYPICAL SECTIONS 1 OF 3
C-251	TYPICAL SECTIONS 2 OF 3
C-252	TYPICAL SECTIONS 3 OF 3
C-300	STANDARD DRAWINGS REFERENCE
C-301	TYPICAL DETAILS 1 OF 2
C-302	TYPICAL DETAILS 2 OF 2
C-400	PLAN AND PROFILE
C-401	CROSS SECTIONS 1 OF 2
C-402	CROSS SECTIONS 2 OF 2

ISSUED FOR TENDER

REV	DATE	AMENDMENT	DRN	CHKD	APP
F	15.10.2025	UPDATED AS PER MRWA COMMENTS	VS	DG	CL
E	01.09.2025	ISSUED FOR TENDER	MM	DG	CL
D	05.08.2025	100% DESIGN COMMENTS ADDRESSED	VS	DG	CL
C	25.06.2025	UPDATED AS PER CLIENT COMMENTS	VS	DG	CL
B	13.05.2025	85% DESIGN ISSUE	MM	DG	CL
A	22.04.2025	ISSUED FOR APPROVAL	MM	DG	CL

ORIG SIZE A1

0 10 20 30 40 50 100mm

AT ORIGINAL PLOT SIZE

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Consulting Engineers
10/643 Newcastle Street
Leederville WA 6007

VALIDATION

SIGNATURE

DATE

DATE APPROVED

CLIENT

City of Kwinana

SCALE : N.T.S. (@ A1)

METADATA
H: GDA2020 MGA Z50
V: AHD

SURVEY SOURCE & DATE:

DESIGNED: MM

DRAWN: VS

PROJECT MANAGER: COLIN LEEK

PROJECT: PACE ROAD UPGRADE

DRAWING TITLE: COVER SHEET

DRAWING NUMBER: C-000

Revision : F

CSE PROJECT NUMBER: CSE-2425-138

CAD drawing path: C:\Users\ViniciusSoares\Civil Sciences and Engineering\Projects - Docs\CSE-2425-138_PACE RD UPGRADE\4. Drawings\1_Drawings\CSE-2425-138_PACE RD UPGRADE.dwg

Printed by: VINI SOARES

Date & time: Friday, October 17, 2025 14:09:50

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
2. DO NOT SCALE DRAWINGS. USE WRITTEN DIMENSIONS AND VERIFY ALL LEVELS AND MEASUREMENTS ON SITE.
3. READ ALL DRAWINGS IN CONJUNCTION WITH OTHER CONSULTANT DOCUMENTATION, SPECIFICATIONS, AND ANY WRITTEN INSTRUCTIONS ISSUED DURING THE COURSE OF THE WORKS.
4. CONTRACTOR SHALL OBTAIN BEFORE YOU DIG (BYD) INFORMATION AND LOCATE ALL UNDERGROUND SERVICES PRIOR TO CONSTRUCTION. ALL SERVICE LOCATIONS SHOWN ARE APPROXIMATE ONLY.
5. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING, PROTECTING, AND REINSTATING ALL EXISTING SERVICES, INCLUDING RETICULATION, TURF, AND VERGE INFRASTRUCTURE DISTURBED DURING THE WORKS.
6. ALL TRANSITIONS TO EXISTING WORKS SHALL BE NEAT, LEVEL, AND SMOOTHLY CONSTRUCTED.
7. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, LEVELS, AND CONSTRAINTS ON SITE PRIOR TO COMMENCING CONSTRUCTION OR FABRICATION.
8. THE CONTRACTOR SHALL UNDERTAKE A DILAPIDATION SURVEY OF ADJACENT PROPERTIES AND INFRASTRUCTURE PRIOR TO COMMENCEMENT OF WORKS.
9. A REGISTERED SURVEYOR SHALL UNDERTAKE ALL SETOUT AND VERIFY LEVELS TO AUSTRALIAN HEIGHT DATUM (AHD).
10. THE SITE SHALL BE MAINTAINED IN A CLEAN AND SAFE CONDITION THROUGHOUT THE WORKS AND LEFT FREE OF RUBBISH AND DEBRIS UPON COMPLETION.
11. ALL CONSTRUCTION IS TO COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS, MAIN ROADS WA SPECIFICATIONS, AND STATUTORY REGULATIONS.
12. THE CONTRACTOR SHALL PREPARE AND IMPLEMENT AN APPROVED TRAFFIC MANAGEMENT PLAN IN ACCORDANCE WITH MAIN ROADS WA AND THE CITY OF KWINANA REQUIREMENTS.
13. THE SITE SHALL BE KEPT SAFE FOR VEHICLES, PEDESTRIANS, AND ALL ROAD USERS AT ALL TIMES.ALL WORK IS TO BE CARRIED OUT BY APPROPRIATELY QUALIFIED AND EXPERIENCED PERSONNEL, IN ACCORDANCE WITH RECOGNISED SAFE WORK PRACTICES.
14. ANY DISCREPANCIES OR CONFLICTS IN THE DRAWINGS OR WITH SITE CONDITIONS SHALL BE REPORTED TO THE SUPERINTENDENT FOR RESOLUTION PRIOR TO PROCEEDING.
15. CONTRACTOR SHALL NOT DISTURB TREES OR VEGETATION OUTSIDE THE APPROVED WORK ZONE UNLESS EXPLICITLY INSTRUCTED.
16. WHERE CROSSOVERS ARE IMPACTED, THEY SHALL BE REINSTATED TO MATCH EXISTING OR IN ACCORDANCE WITH THE CITY OF KWINANA STANDARDS AS APPLICABLE.
17. NO STOCKPILING OR MATERIAL STORAGE IS PERMITTED OUTSIDE APPROVED WORK AREAS OR FENCED ZONES.
18. SAFE PEDESTRIAN AND VEHICULAR ACCESS TO PROPERTIES IS TO BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE APPROVED.
19. AS-CONSTRUCTED INFORMATION SHALL BE PROVIDED BY THE CONTRACTOR FOR ALL INSTALLED SERVICES AND INFRASTRUCTURE.

ISSUED FOR TENDER

REV	DATE	AMENDMENT	DRN	CHKD	APP
E	15.10.2025	UPDATED AS PER MRWA COMMENTS	VS	DG	CL
D	01.09.2025	ISSUED FOR TENDER	MM	DG	CL
C	05.08.2025	100% DESIGN COMMENTS ADDRESSED	VS	DG	CL
B	10.06.2025	UPDATED AS PER CLIENT COMMENTS	VS	DG	CL
A	13.05.2025	85% DESIGN ISSUE	MM	DG	CL

ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

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Leederville WA 6007

VALIDATION
SIGNATURE
DATE
DATE APPROVED

CLIENT
City of Kwinana

SCALE : N.T.S. (@ A1)

METADATA
H: GDA2020 MGA Z50
V: AHD

SURVEY SOURCE & DATE:

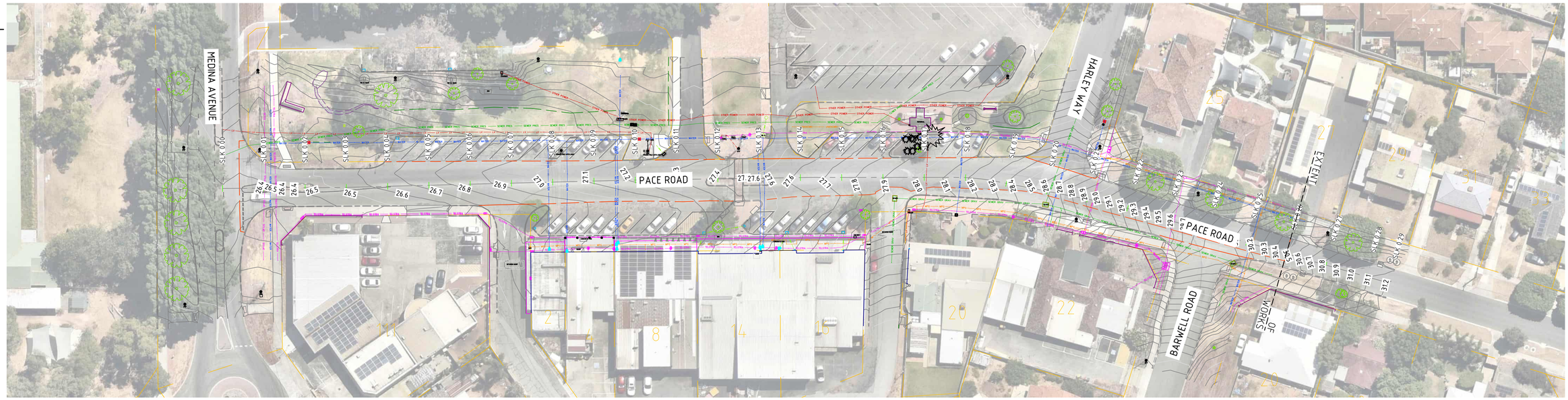
DESIGNED: MM
DRAWN: VS
PROJECT MANAGER: COLIN LEEK

PROJECT: PACE ROAD UPGRADE
DRAWING TITLE: GENERAL NOTES
DRAWING NUMBER: C-001
Revision : E
CSE PROJECT NUMBER: CSE-2425-138

CAD drawing path: C:\Users\ViniciusSoares\Civil Sciences and Engineering\Projects - Docs\CSE-2425-138_PACE RD UPGRADE\4. Drawings\1_Drawings\CSE-2425-138_PACE RD UPGRADE.dwg

Printed by: VINI SOARES

Date & time: Friday, October 17, 2025 12:02:12



PLAN VIEW - PACE ROAD SLK 0.00 TO SLK 0.26

SCALE:1:500

LEGEND

- EXISTING CADASTRAL BOUNDARY
- EXISTING BOLLARD
- EXISTING TREE
- EXISTING SIGN
- EXISTING ANCHOR POLE
- EXISTING CENTRELINE
- EXISTING KERBS
- EXISTING CONCRETE FOOTPATH
- EXISTING BITUMEN HUMP
- EXISTING FENCE
- EXISTING GUARDRAIL
- EXISTING SEWER MANHOLE
- EXISTING GAS LID
- EXISTING CONTOURS
- EXISTING CHANGE OF SEAL
- EXISTING LINE MARKING
- EXISTING WALLS
- EXISTING BUILDING
- EXISTING BRICK PAVING
- EXISTING DRAINAGE PIPE
- EXISTING VEGETATION
- EXISTING BUILDING AWNING
- EXISTING GATE
- EXISTING BOTTOM OF BANK
- EXISTING POWER SOURCE
- EXISTING FIRE HYDRANT
- EXISTING TELSTRA PIT
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING SIDE ENTRY PIT
- EXISTING DRAINAGE MANHOLE
- EXISTING DRAINAGE GULLY
- EXISTING POWER POLE/LIGHT POLE
- EXISTING RETIC VALVE
- EXISTING STORMWATER DOWNPIPE
- EXISTING CONCRETE PADS
- EXISTING BORES

- TELSTRA — EXISTING TELSTRA CONDUITS
- MPG — EXISTING GAS PIPE
- WATER — EXISTING WATER PIPES
- SEWER GRAV — EXISTING SEWER GRAVITY PIPE
- SEWER PRES — EXISTING SEWER PRESSURE PIPE
- OTHER POWER — EXISTING OTHER POWER CONDUITS
- LV LV — EXISTING WESTERN POWER LV
- UNKNOWN — EXISTING UNKNOWN SERVICES
- OPTUS — EXISTING OPTUS CONDUITS

SCALE 1:500

10m 0 10m 20m 30m 40m 50m

ISSUED FOR TENDER

REV	DATE	AMENDMENT	DRN	CHKD	APP
E	15.10.2025	UPDATED AS PER MRWA COMMENTS	VS	DG	CL
D	01.09.2025	ISSUED FOR TENDER	MM	DG	CL
C	05.08.2025	100% DESIGN COMMENTS ADDRESSED	VS	DG	CL
B	10.06.2025	UPDATED AS PER CLIENT COMMENTS	VS	DG	CL
A	13.05.2025	85% DESIGN ISSUE	MM	DG	CL

ORIG SIZE A1

0 10 20 30 40 50 100mm

AT ORIGINAL PLOT SIZE

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Leederville WA 6007

VALIDATION

SIGNATURE

DATE

DATE APPROVED

CLIENT

City of Kwinana

SCALE : N.T.S. (@ A1)

METADATA
H: GDA2020 MGA Z50
V: AHD

SURVEY SOURCE & DATE:

DESIGNED: MM

DRAWN: VS

PROJECT MANAGER: COLIN LEEK

PROJECT: PACE ROAD UPGRADE

DRAWING TITLE: EXISTING TOPOGRAPHY AND SERVICES

DRAWING NUMBER: C-002

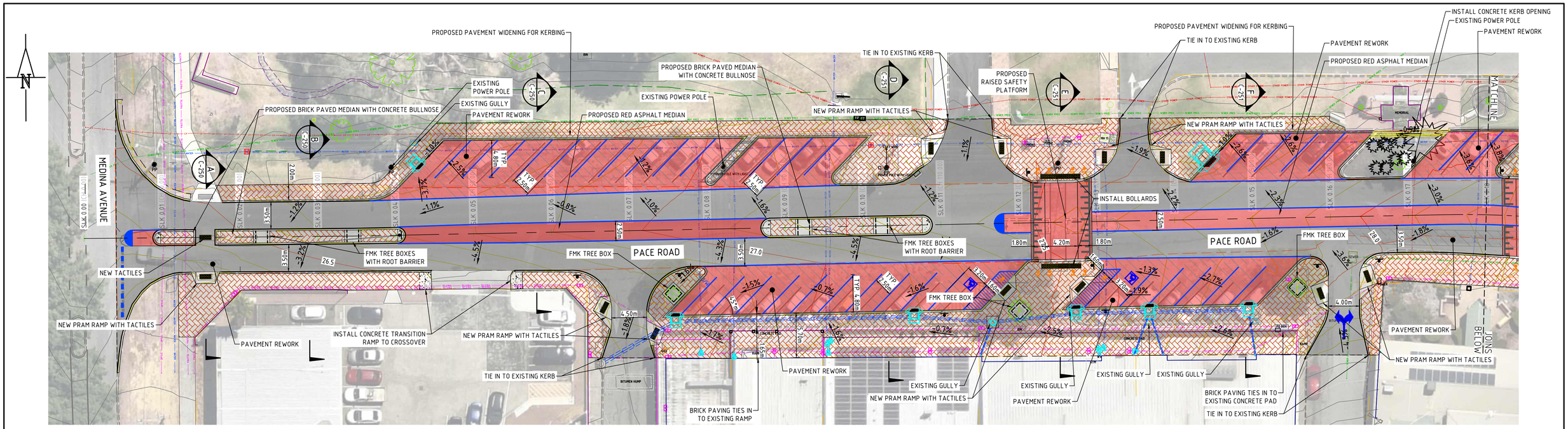
Revision : E

CSE PROJECT NUMBER: CSE-2425-138

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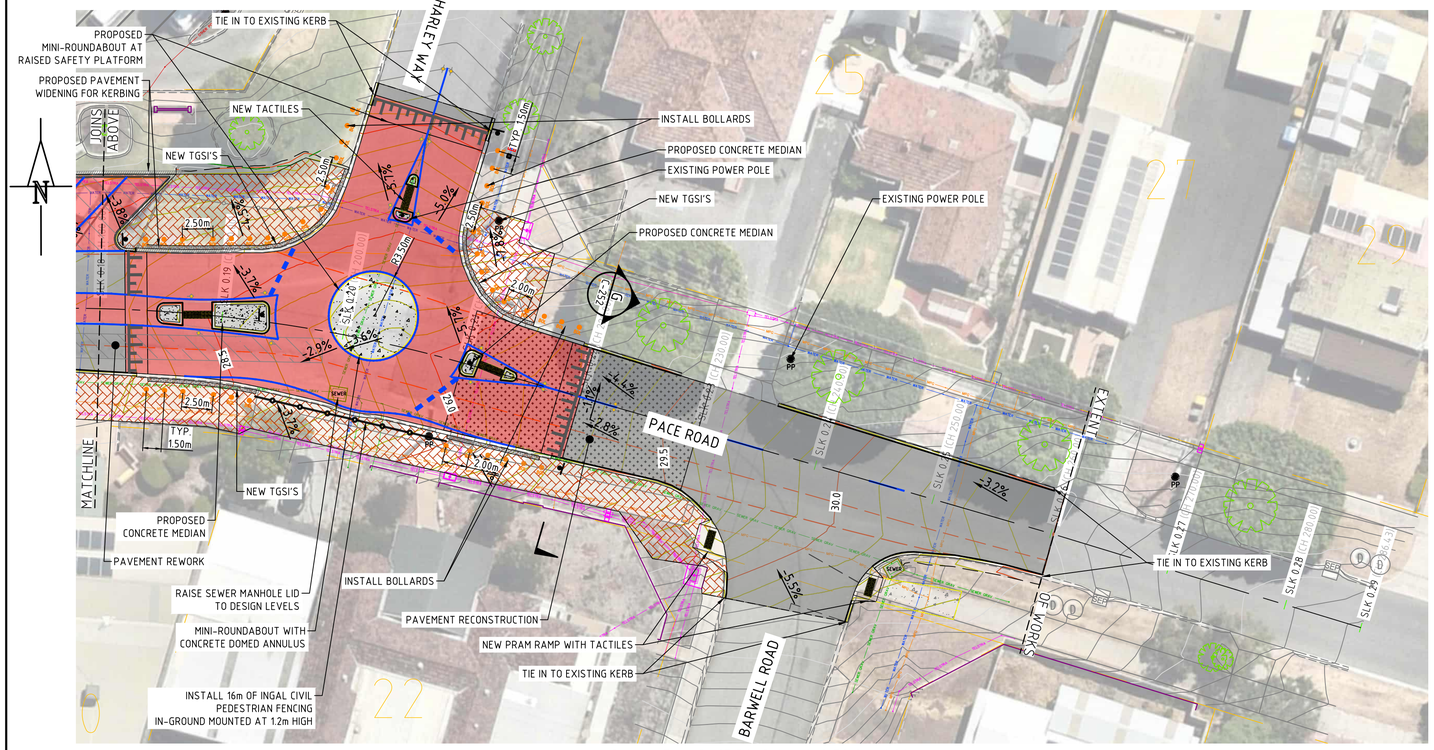
Printed by: VINI SOARES

Date & time: Friday, October 17, 2025 12:02:17



PLAN VIEW - PACE ROAD SLK 0.00 TO SLK 0.18

SCALE:1:250



PLAN VIEW - PACE ROAD SLK 0.18 TO SLK 0.26

SCALE:1:250

LEGEND

- EXISTING CADASTRAL BOUNDARY
- EXISTING BOLLARD
- EXISTING TREE
- EXISTING SIGN
- EXISTING ANCHOR POLE
- EXISTING CENTRELINE
- EXISTING KERBS
- EXISTING CONCRETE FOOTPATH
- EXISTING BITUMEN HUMP
- EXISTING FENCE
- EXISTING GUARDRAIL
- EXISTING SEWER MANHOLE
- EXISTING GAS LID
- EXISTING CONTOURS
- EXISTING CHANGE OF SEAL
- EXISTING LINE MARKING
- EXISTING WALLS
- EXISTING BUILDING
- EXISTING BRICK PAVING
- EXISTING DRAINAGE PIPE
- EXISTING VEGETATION
- EXISTING BUILDING AWNING
- EXISTING GATE
- EXISTING BOTTOM OF BANK
- EXISTING POWER SOURCE
- EXISTING FIRE HYDRANT
- EXISTING TELSTRA PIT
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING SIDE ENTRY PIT
- EXISTING DRAINAGE MANHOLE
- EXISTING DRAINAGE GULLY
- EXISTING POWER POLE/LIGHT POLE
- EXISTING RETIC VALVE
- EXISTING STORMWATER DOWNPIPE
- EXISTING CONCRETE PADS
- EXISTING BORES
- EXISTING TELSTRA CONDUITS
- EXISTING GAS PIPE
- EXISTING WATER PIPES
- EXISTING SEWER GRAVITY PIPE
- EXISTING SEWER PRESSURE PIPE
- EXISTING OTHER POWER CONDUITS
- EXISTING WESTERN POWER LV
- EXISTING UNKNOWN SERVICES
- EXISTING OPTUS CONDUITS
- PROPOSED ROAD CENTREINE
- PROPOSED FMK OR SMK KERBING
- PROPOSED FMK (EDGE BEAM) LANDSCAPE KERBING
- PROPOSED LINE MARKING
- PROPOSED BOLLARD
- PROPOSED GRAY TACTILES
- PROPOSED RED LATERITE ASPHALT WEARING COURSE
- PROPOSED BRICK PAVING
- PROPOSED DENSE GRADED ASPHALT WEARING COURSE
- PROPOSED PAVEMENT WIDENING FOR KERBS
- PROPOSED PAVEMENT RECONSTRUCTION
- PROPOSED PAVEMENT REWORK
- NEW TACTILES (TGSI'S)
- NEW PRAM RAMP WITH TACTILES
- NEW RRPM'S
- EDGE OF NEW WEARING COURSE
- NEW SIGN
- PROPOSED DESIGN CONTOUR LEVELS
- RL LEVELS DS: DESIGN EG: EXISTING GROUNG
- PROPOSED INGAL CIVIL PEDESTRIAN FENCING 1.2m HIGH

NOTES:

1. BRICK PAVING TO BE PAVESTONE ORIGINAL HERITAGE RED - 60mm THICK
2. TACTILES TO BE BLACK FIBRE REINFORCED POLYMER (FRP) INSTALLED WITH SURFACE MOUNTED SCREWS AND ADHESIVE
3. PEDESTRIAN INGAL FENCING TO MANUFACTURER'S SPECIFICATIONS.

SCALE 1:250

5m 0 5m 10m 15m 20m 25m

ISSUED FOR TENDER

REV	DATE	AMENDMENT	DRN	CHKD	APP
F	15.10.2025	UPDATED AS PER MRWA COMMENTS	VS	DG	CL
E	01.09.2025	ISSUED FOR TENDER	MM	DG	CL
D	05.08.2025	100% DESIGN COMMENTS ADDRESSED	VS	DG	CL
C	25.06.2025	UPDATED AS PER CLIENT COMMENTS	VS	DG	CL
B	13.05.2025	85% DESIGN ISSUE	MM	DG	CL
A	22.04.2025	ISSUED FOR APPROVAL	MM	DG	CL

ORIG SIZE A1

0 10 20 30 40 50 100mm

AT ORIGINAL PLOT SIZE

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Leederville WA 6007

VALIDATION

SIGNATURE

DATE

DATE APPROVED

CLIENT

City of Kwinana

SCALE : N.T.S. (@ A1)

METADATA
H: GDA2020 MGA Z50
V: AHD

SURVEY SOURCE & DATE:

DESIGNED: MM

DRAWN: VS

PROJECT MANAGER: COLIN LEEK

PROJECT: PACE ROAD UPGRADE

DRAWING TITLE: GENERAL ARRANGEMENT

DRAWING NUMBER: C-100

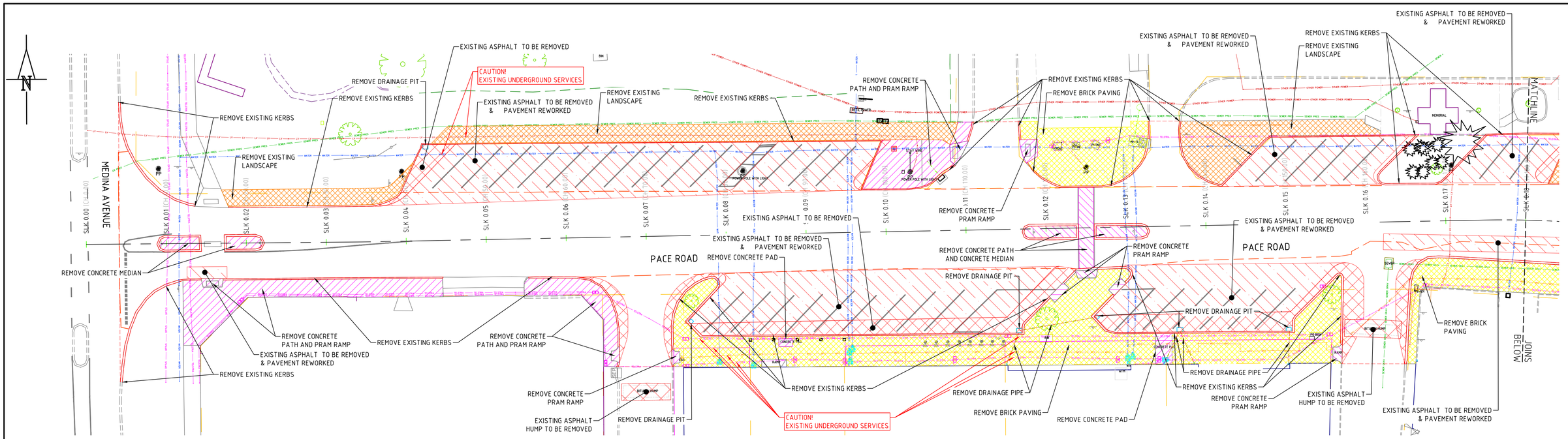
Revision : F

CSE PROJECT NUMBER: CSE-2425-138

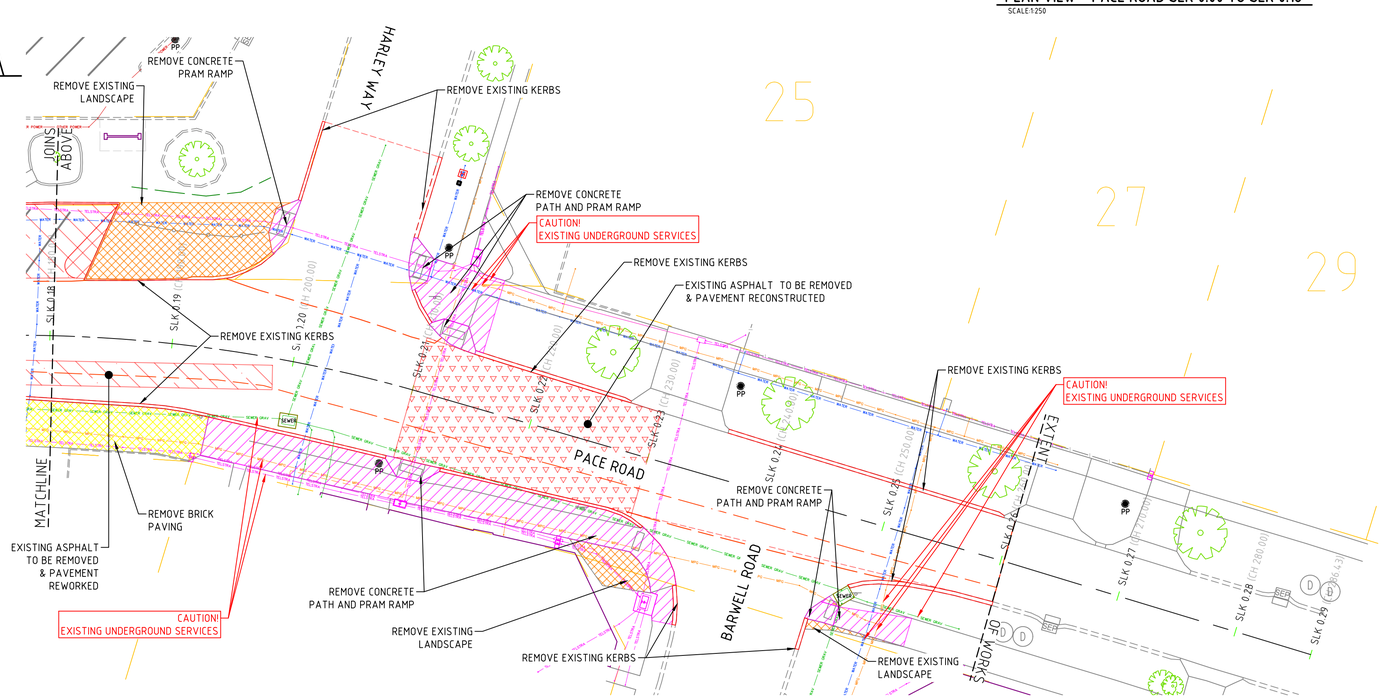
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PLAN VIEW - PACE ROAD SLK 0.00 TO SLK 0.18
SCALE:1:250



PLAN VIEW - PACE ROAD SLK 0.18 TO SLK 0.26
SCALE:1:250

LEGEND

- EXISTING CADASTRAL BOUNDARY
- EXISTING BOLLARD
- EXISTING TREE
- EXISTING SIGN
- EXISTING ANCHOR POLE
- EXISTING CENTRELINE
- EXISTING KERBS
- EXISTING CONCRETE FOOTPATH
- EXISTING BITUMEN HUMP
- EXISTING FENCE
- EXISTING GUARDRAIL
- EXISTING SEWER MANHOLE
- EXISTING GAS LID
- EXISTING CONTOURS
- EXISTING CHANGE OF SEAL
- EXISTING LINE MARKING
- EXISTING WALLS
- EXISTING BUILDING
- EXISTING BRICK PAVING
- EXISTING DRAINAGE PIPE
- EXISTING VEGETATION
- EXISTING BUILDING AWNING
- EXISTING GATE
- EXISTING BOTTOM OF BANK
- EXISTING POWER SOURCE
- EXISTING FIRE HYDRANT
- EXISTING TELSTRA PIT
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING SIDE ENTRY PIT
- EXISTING DRAINAGE MANHOLE
- EXISTING DRAINAGE GULLY
- EXISTING POWER POLE/LIGHT POLE
- EXISTING RETIC VALVE
- EXISTING STORMWATER DOWNPIPE
- EXISTING CONCRETE PADS
- EXISTING BORES

- TELSTRA — EXISTING TELSTRA CONDUITS
- MPG — EXISTING GAS PIPE
- WATER — EXISTING WATER PIPES
- SEWER GRAV — EXISTING SEWER GRAVITY PIPE
- SEWER PRES — EXISTING SEWER PRESSURE PIPE
- OTHER POWER — EXISTING OTHER POWER CONDUITS
- LV — LV — EXISTING WESTERN POWER LV
- UNKNOWN — EXISTING UNKNOWN SERVICES
- OPTUS — EXISTING OPTUS CONDUITS

- EXISTING ASPHALT TO BE REMOVED
- EXISTING LANDSCAPE TO BE REMOVED
- EXISTING CONCRETE PATH/RAMP/MEDIAN TO BE REMOVED
- EXISTING BRICK PAVING TO BE REMOVED
- EXISTING KERBS TO BE REMOVED
- EXISTING ASPHALT TO BE REMOVED & PAVEMENT RECONSTRUCED
- EXISTING ASPHALT TO BE REMOVED & PAVEMENT REWORKED
- DRAIN — EXISTING DRAINAGE PIPE TO BE REMOVED

SCALE 1:250
5m 0 5m 10m 15m 20m 25m

ISSUED FOR TENDER

REV	DATE	AMENDMENT	DRN	CHKD	APP
E	15.10.2025	UPDATED AS PER MRWA COMMENTS	VS	DG	CL
D	01.09.2025	ISSUED FOR TENDER	MM	DG	CL
C	05.08.2025	100% DESIGN COMMENTS ADDRESSED	VS	DG	CL
B	10.06.2025	UPDATED AS PER CLIENT COMMENTS	VS	DG	CL
A	13.05.2025	85% DESIGN ISSUE	MM	DG	CL

ORIG SIZE A1 — 0 10 20 30 40 50 100mm — AT ORIGINAL PLOT SIZE

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Leederville WA 6007

VALIDATION
SIGNATURE
DATE
DATE APPROVED

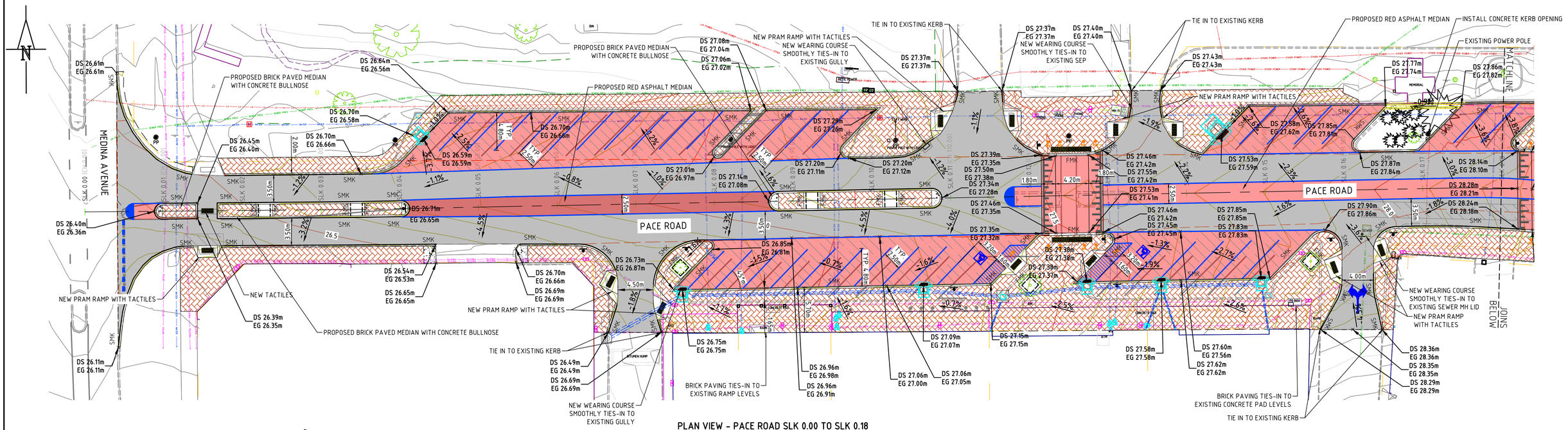
CLIENT
City of Kwinana

SCALE : N.T.S. (@ A1)
METADATA
H: GDA2020 MGA Z50
V: AHD
SURVEY SOURCE & DATE:

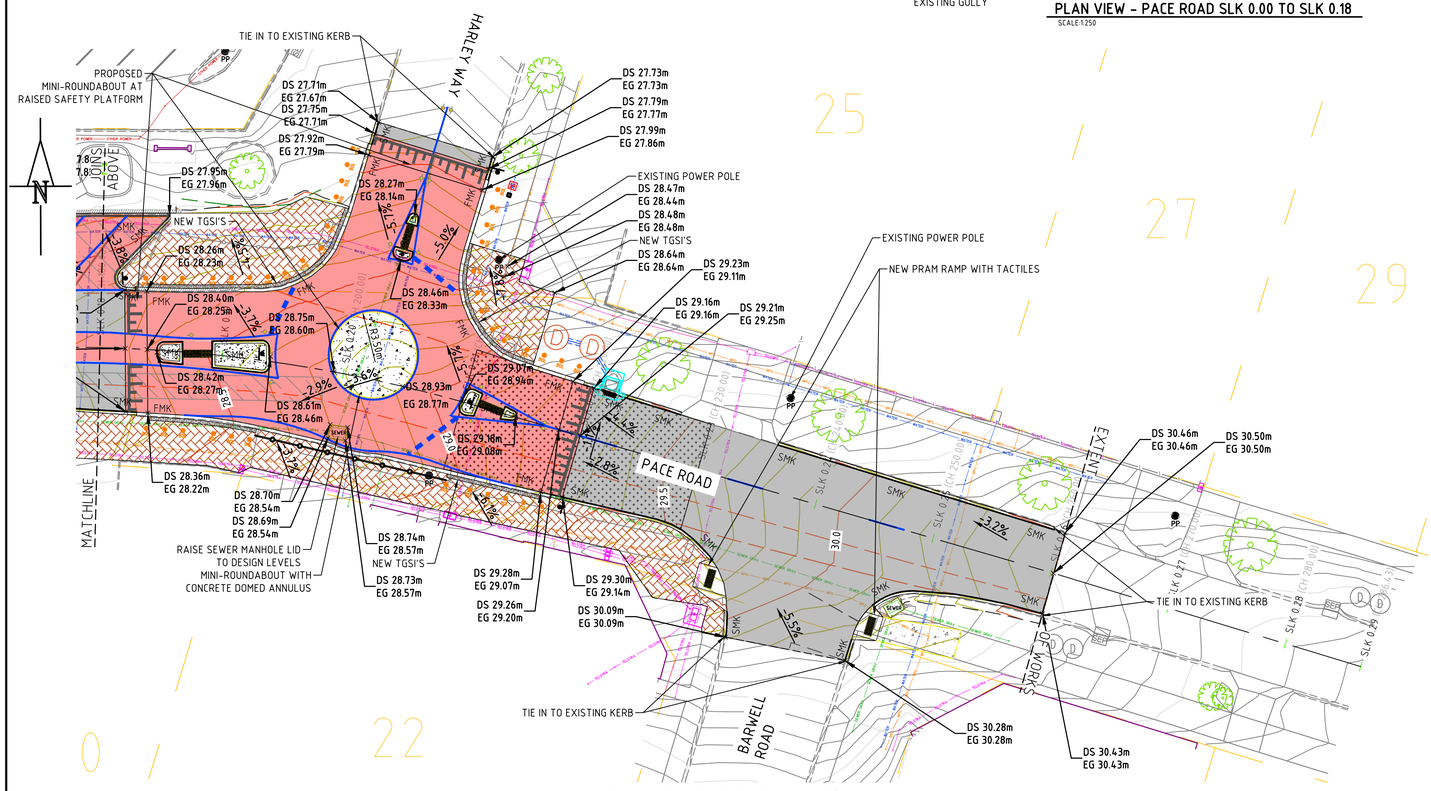
DESIGNED: MM
DRAWN: VS
PROJECT MANAGER: COLIN LEEK

PROJECT: PACE ROAD UPGRADE
DRAWING TITLE: DEMOLITION PLAN
DRAWING NUMBER: C-101
Revision : E
CSE PROJECT NUMBER: CSE-2425-138

CAD drawing path: C:\Users\ViniciusSoares\Civil Sciences and Engineering\Projects - Docs\CSE-2425-138_PACE RD UPGRADE\4. Drawings\1_Drawings\CSE-2425-138_PACE RD UPGRADE.dwg
Printed by: VINI SOARES
Date & time: Friday, October 17, 2025 12:02:40



PLAN VIEW - PACE ROAD SLK 0.00 TO SLK 0.18
SCALE:1:250



PLAN VIEW - PACE ROAD SLK 0.18 TO SLK 0.26
SCALE:1:250

LEGEND

- EXISTING CADASTRAL BOUNDARY
- EXISTING BOLLARD
- EXISTING TREE
- EXISTING SIGN
- EXISTING ANCHOR POLE
- EXISTING CENTRELINE
- EXISTING KERBS
- EXISTING CONCRETE FOOTPATH
- EXISTING BITUMEN HUMP
- EXISTING FENCE
- EXISTING GUARDRAIL
- EXISTING SEWER MANHOLE
- EXISTING GAS LID
- EXISTING CONTOURS
- EXISTING CHANGE OF SEAL
- EXISTING LINE MARKING
- EXISTING WALLS
- EXISTING BUILDING
- EXISTING BRICK PAVING
- EXISTING DRAINAGE PIPE
- EXISTING VEGETATION
- EXISTING BUILDING AWNING
- EXISTING GATE
- EXISTING BOTTOM OF BANK
- EXISTING POWER SOURCE
- EXISTING FIRE HYDRANT
- EXISTING TELSTRA PIT
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING SIDE ENTRY PIT
- EXISTING DRAINAGE MANHOLE
- EXISTING DRAINAGE GULLY
- EXISTING POWER POLE/LIGHT POLE
- EXISTING RETIC VALVE
- EXISTING STORMWATER DOWNPIPE
- EXISTING CONCRETE PADS
- EXISTING BORES
- EXISTING TELSTRA CONDUITS
- EXISTING GAS PIPE
- EXISTING WATER PIPES
- EXISTING SEWER GRAVITY PIPE
- EXISTING SEWER PRESSURE PIPE
- EXISTING OTHER POWER CONDUITS
- EXISTING WESTERN POWER LV
- EXISTING UNKNOWN SERVICES
- EXISTING OPTUS CONDUITS
- PROPOSED ROAD CENTREINE
- PROPOSED FMK OR SMK KERBING
- PROPOSED FMK (EDGE BEAM) LANDSCAPE KERBING
- PROPOSED LINE MARKING
- PROPOSED BOLLARD
- PROPOSED GRAY TACTILES
- PROPOSED RED LATERITE ASPHALT WEARING COURSE
- PROPOSED BRICK PAVING
- PROPOSED DENSE GRADED ASPHALT WEARING COURSE
- PROPOSED PAVEMENT WIDENING FOR KERBS
- PROPOSED PAVEMENT RECONSTRUCTION
- PROPOSED PAVEMENT REWORK
- NEW TACTILES (TGSI'S)
- NEW PRAM RAMP WITH TACTILES
- NEW RRPM'S
- EDGE OF NEW WEARING COURSE
- NEW SIGN
- PROPOSED DESIGN CONTOUR LEVELS
- RL LEVELS (DS: DESIGN EG: EXISTING GROUNG)
- PROPOSED INGAL CIVIL PEDESTRIAN FENCING 1.2m HIGH

NOTES:

1. BRICK PAVING TO BE PAVESTONE ORIGINAL HERITAGE RED - 60mm THICK
2. TACTILES TO BE BLACK FIBRE REINFORCED POLYMER (FRP) INSTALLED WITH SURFACE MOUNTED SCREWS AND ADHESIVE
3. PEDESTRIAN INGAL FENCING TO MANUFACTURER'S SPECIFICATIONS.

SCALE 1:250
5m 0 5m 10m 15m 20m 25m

ISSUED FOR TENDER

REV	DATE	AMENDMENT	DRN	CHKD	APP
F	15.10.2025	UPDATED AS PER MRWA COMMENTS	VS	DG	CL
E	01.09.2025	ISSUED FOR TENDER	MM	DG	CL
D	05.08.2025	100% DESIGN COMMENTS ADDRESSED	VS	DG	CL
C	25.06.2025	UPDATED AS PER CLIENT COMMENTS	VS	DG	CL
B	13.05.2025	85% DESIGN ISSUE	MM	DG	CL
A	22.04.2025	ISSUED FOR APPROVAL	MM	DG	CL

ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

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10/643 Newcastle Street
Leederville WA 6007

VALIDATION
SIGNATURE
DATE
DATE APPROVED

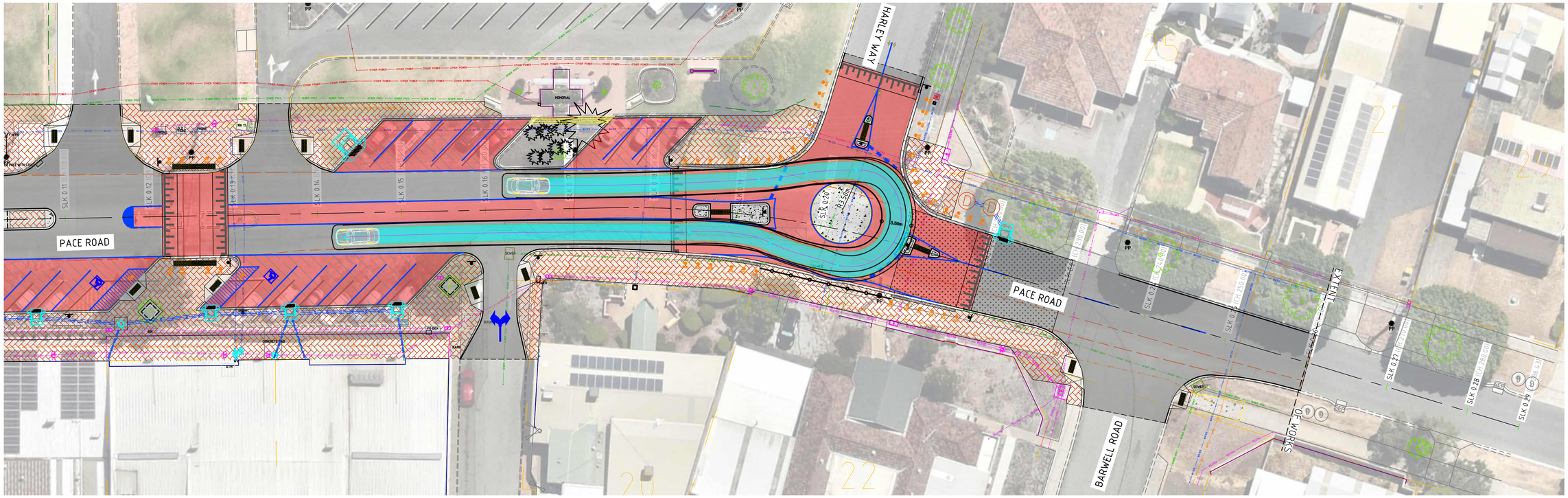
CLIENT
City of Kwinana

SCALE : N.T.S. (@ A1)
METADATA
H: GDA2020 MGA Z50
V: AHD
SURVEY SOURCE & DATE:

DESIGNED: MM
DRAWN: VS
PROJECT MANAGER: COLIN LEEK

PROJECT: PACE ROAD UPGRADE
DRAWING TITLE: PROPOSED DESIGN
DRAWING NUMBER: C-102
Revision : F
CSE PROJECT NUMBER: CSE-2425-138

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Printed by: VINI SOARES
Date & time: Friday, October 17, 2025 14:10:30



PLAN VIEW - PACE ROAD SLK 0.11 TO SLK 0.26

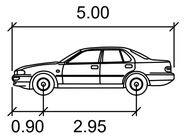
SCALE 1:250

LEGEND

- EXISTING CADASTRAL BOUNDARY
- EXISTING BOLLARD
- EXISTING TREE
- EXISTING SIGN
- EXISTING ANCHOR POLE
- EXISTING CENTRELINE
- EXISTING KERBS
- EXISTING CONCRETE FOOTPATH
- EXISTING BITUMEN HUMP
- EXISTING FENCE
- EXISTING GUARDRAIL
- EXISTING SEWER MANHOLE
- EXISTING GAS LID
- EXISTING CONTOURS
- EXISTING CHANGE OF SEAL
- EXISTING LINE MARKING
- EXISTING WALLS
- EXISTING BUILDING
- EXISTING BRICK PAVING
- EXISTING DRAINAGE PIPE
- EXISTING VEGETATION
- EXISTING BUILDING AWNING
- EXISTING GATE
- EXISTING BOTTOM OF BANK
- EXISTING POWER SOURCE
- EXISTING FIRE HYDRANT
- EXISTING TELSTRA PIT
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING SIDE ENTRY PIT
- EXISTING DRAINAGE MANHOLE
- EXISTING DRAINAGE GULLY
- EXISTING POWER POLE/LIGHT POLE
- EXISTING RETIC VALVE
- EXISTING STORMWATER DOWNPIPE
- EXISTING CONCRETE PADS
- EXISTING BORES

- EXISTING TELSTRA CONDUITS
- EXISTING GAS PIPE
- EXISTING WATER PIPES
- EXISTING SEWER GRAVITY PIPE
- EXISTING SEWER PRESSURE PIPE
- EXISTING OTHER POWER CONDUITS
- EXISTING WESTERN POWER LV
- EXISTING UNKNOWN SERVICES
- EXISTING OPTUS CONDUITS

- PROPOSED ROAD CENTREINE
- PROPOSED FMK OR SMK KERBING
- PROPOSED FMK (EDGE BEAM) LANDSCAPE KERBING
- PROPOSED LINE MARKING
- PROPOSED BOLLARD
- PROPOSED GRAY TACTILES
- PROPOSED RED LATERITE ASPHALT WEARING COURSE
- PROPOSED BRICK PAVING
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- EDGE OF NEW WEARING COURSE
- NEW SIGN
- PROPOSED DESIGN CONTOUR LEVELS
- RL LEVELS (DS 28.20m / EG 28.20m) DS: DESIGN EG: EXISTING GROUNG
- PROPOSED INGAL CIVIL PEDESTRIAN FENCING 1.2m HIGH



CAR

	meters
Width	: 1.90
Track	: 1.55
Lock to Lock Time	: 6.0
Steering Angle	: 24.0

SCALE 1:250

5m 0 5m 10m 15m 20m 25m

ISSUED FOR TENDER

REV	DATE	AMENDMENT	DRN	CHKD	APP
E	15.10.2025	UPDATED AS PER MRWA COMMENTS	VS	DG	CL
D	01.09.2025	ISSUED FOR TENDER	MM	DG	CL
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A	13.05.2025	85% DESIGN ISSUE	MM	DG	CL

ORIG SIZE A1

0 10 20 30 40 50 100mm

AT ORIGINAL PLOT SIZE

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Leederville WA 6007

VALIDATION

SIGNATURE

DATE

DATE APPROVED

CLIENT

City of Kwinana

SCALE : N.T.S. (@ A1)

METADATA
H: GDA2020 MGA Z50
V: AHD

SURVEY SOURCE & DATE:

DESIGNED: MM

DRAWN: VS

PROJECT MANAGER: COLIN LEEK

PROJECT: PACE ROAD UPGRADE

DRAWING TITLE: SWEPT PATH ANALYSIS

DRAWING NUMBER: C-103

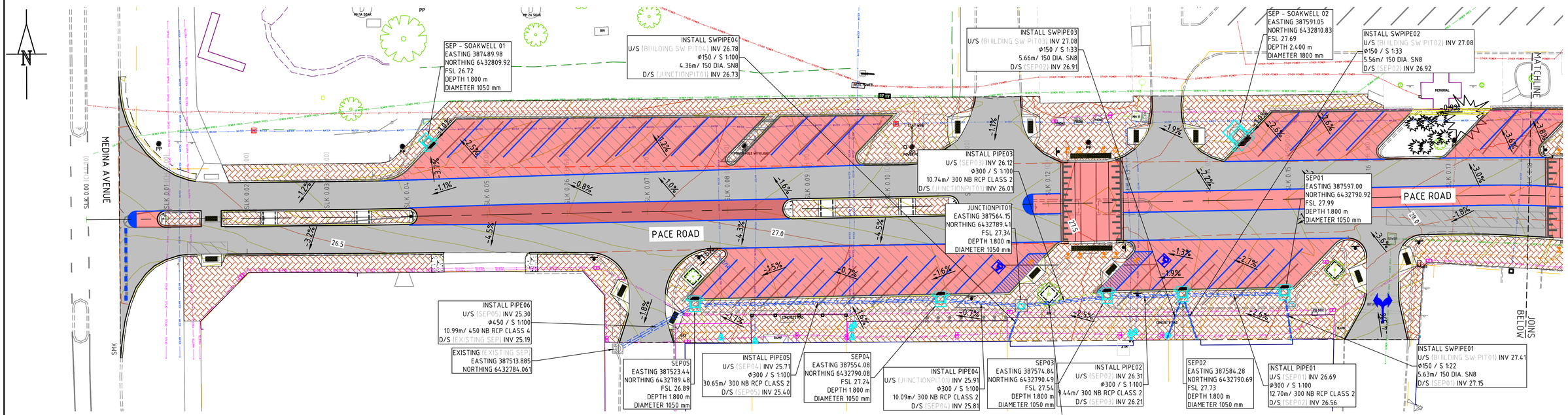
Revision : E

CSE PROJECT NUMBER: CSE-2425-138

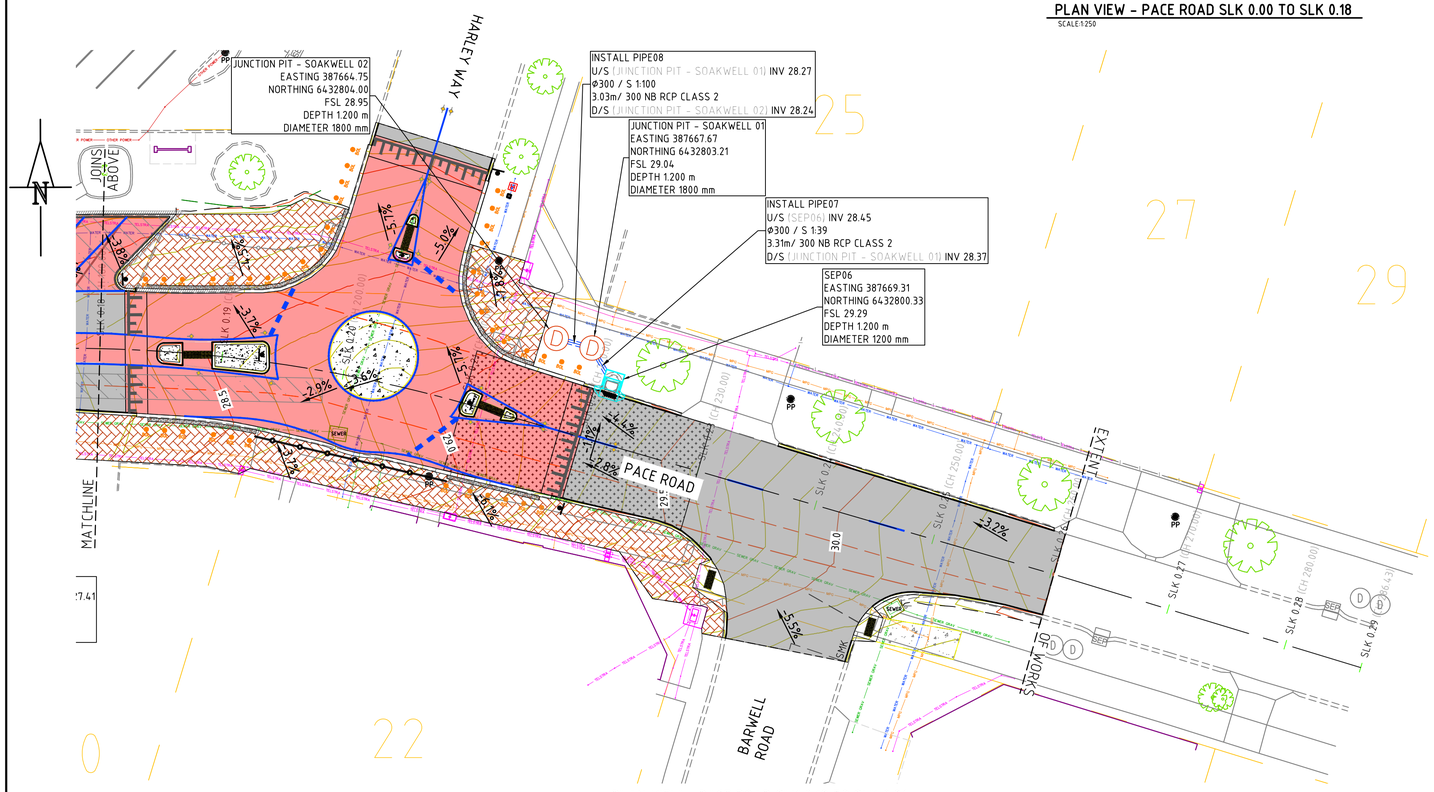
CAD drawing path: C:\Users\ViniciusSoares\Civil Sciences and Engineering\Projects - Docs\CSE-2425-138_PACE RD UPGRADE\4. Drawings\1_Drawings\CSE-2425-138_PACE RD UPGRADE.dwg

Printed by: VINI SOARES

Date & time: Friday, October 17, 2025 14:10:41



PLAN VIEW - PACE ROAD SLK 0.00 TO SLK 0.18
SCALE:1:250



PLAN VIEW - PACE ROAD SLK 0.18 TO SLK 0.26
SCALE:1:250

LEGEND

- EXISTING CADASTRAL BOUNDARY
- EXISTING BOLLARD
- EXISTING TREE
- EXISTING SIGN
- EXISTING ANCHOR POLE
- EXISTING CENTRELINE
- EXISTING KERBS
- EXISTING CONCRETE FOOTPATH
- EXISTING BITUMEN HUMP
- EXISTING FENCE
- EXISTING GUARDRAIL
- EXISTING SEWER MANHOLE
- EXISTING GAS LID
- EXISTING CONTOURS
- EXISTING CHANGE OF SEAL
- EXISTING LINE MARKING
- EXISTING WALLS
- EXISTING BUILDING
- EXISTING BRICK PAVING
- EXISTING DRAINAGE PIPE
- EXISTING VEGETATION
- EXISTING BUILDING AWNING
- EXISTING GATE
- EXISTING BOTTOM OF BANK
- EXISTING POWER SOURCE
- EXISTING FIRE HYDRANT
- EXISTING TELSTRA PIT
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING SIDE ENTRY PIT
- EXISTING DRAINAGE MANHOLE
- EXISTING DRAINAGE GULLY
- EXISTING POWER POLE/LIGHT POLE
- EXISTING RETIC VALVE
- EXISTING STORMWATER DOWNPIPE
- EXISTING CONCRETE PADS
- EXISTING BORES

- EXISTING TELSTRA CONDUITS
- EXISTING GAS PIPE
- EXISTING WATER PIPES
- EXISTING SEWER GRAVITY PIPE
- EXISTING SEWER PRESSURE PIPE
- EXISTING OTHER POWER CONDUITS
- EXISTING WESTERN POWER LV
- EXISTING UNKNOWN SERVICES
- EXISTING OPTUS CONDUITS

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- PROPOSED DESIGN CONTOUR LEVELS
- RL LEVELS (DS 28.20m / EG 28.20m) DS: DESIGN EG: EXISTING GROUNG
- PROPOSED INGAL CIVIL PEDESTRIAN FENCING 1.2m HIGH

DRAINAGE LEGEND

STRUCTURE NAME/NUMBER	UPSTREAM INVERT
EASTING	DIAMETER / SLOPE
NORTHING	LENGTH / CLASS
FINISHED SURFACE LEVEL	DOWNSTREAM INVERT
DEPTH	
DIAMETER	

- PROPOSED SOAKWELL
- PROPOSED DRAINAGE PIPE
- PROPOSED SIDE-ENTRY PIT (SEP)
- PROPOSED JUNCTION PIT

SCALE 1:250
5m 0 5m 10m 15m 20m 25m

ISSUED FOR TENDER

REV	DATE	AMENDMENT	DRN	CHKD	APP
F	15.10.2025	UPDATED AS PER MRWA COMMENTS	VS	DG	CL
E	01.09.2025	ISSUED FOR TENDER	MM	DG	CL
D	05.08.2025	100% DESIGN COMMENTS ADDRESSED	VS	DG	CL
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A	22.04.2025	ISSUED FOR APPROVAL	MM	DG	CL

ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

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Leederville WA 6007

VALIDATION
SIGNATURE
DATE
DATE APPROVED

CLIENT
City of Kwinana

SCALE : N.T.S. (@ A1)
METADATA
H: GDA2020 MGA Z50
V: AHD
SURVEY SOURCE & DATE:

DESIGNED: MM
DRAWN: VS
PROJECT MANAGER: COLIN LEEK

PROJECT: PACE ROAD UPGRADE
DRAWING TITLE: DRAINAGE PLAN
DRAWING NUMBER: C-104
Revision : F
CSE PROJECT NUMBER: CSE-2425-138

CAD drawing path: C:\Users\ViniciusSoares\Civil Sciences and Engineering\Projects - Docs\CSE-2425-138_PACE RD UPGRADE\4. Drawings\1_Drawings\CSE-2425-138_PACE RD UPGRADE.dwg
Printed by: VINI SOARES
Date & time: Friday, October 17, 2025 14:10:54

PIT SCHEDULE FOR: PROPOSED DRAINAGE					
STRUCTURE NO.	STRUCTURE TYPE	CO-ORDINATES	REF PT. ELEV.	DIAMETER (mm)	DEPTH (m)
EXISTING SEP	1,050 dia Concrete Manhole	E: 387513.885 N: 6432784.061	53.080	1050	1.50
JUNCTION PIT - SOAKWELL 01	1,800 dia Concrete Manhole	E: 387667.669 N: 6432803.209	29.043	1800	1.20
JUNCTION PIT - SOAKWELL 02	1,800 dia Concrete Manhole	E: 387664.746 N: 6432803.997	28.952	1800	1.20
JUNCTIONPIT01	1,050 dia Concrete Manhole	E: 387564.154 N: 6432789.407	27.340	1050	1.80
SEP - SOAKWELL 01	1,050 dia Concrete Manhole	E: 387489.983 N: 6432809.922	26.716	1050	1.80
SEP - SOAKWELL 02	1,800 dia Concrete Manhole	E: 387591.052 N: 6432810.827	27.685	1800	2.40
SEP01	1,050 dia Concrete Manhole	E: 387596.995 N: 6432790.924	27.986	1050	1.80
SEP02	1,050 dia Concrete Manhole	E: 387584.278 N: 6432790.686	27.733	1050	1.80
SEP03	1,050 dia Concrete Manhole	E: 387574.844 N: 6432790.488	27.538	1050	1.80
SEP04	1,050 dia Concrete Manhole	E: 387554.084 N: 6432790.084	27.245	1050	1.80
SEP05	1,050 dia Concrete Manhole	E: 387523.440 N: 6432789.485	26.891	1050	1.80
SEP06	1,200 dia Concrete Manhole	E: 387669.315 N: 6432800.333	29.292	1200	1.20

PIPE SCHEDULE FOR: PROPOSED DRAINAGE										
NAME	PIPE TYPE	PIPE ⌀ [mm]	3D LENGTH	SLOPE	U/S PIT	D/S PIT	U/S INV	D/S INV	PIPE DROP	COMMENTS
PIPE01	Reinforced Concrete	⌀ 300	12.704	1:100	SEP01	SEP02	26.687	26.56	0.13	
PIPE02	Reinforced Concrete	⌀ 300	9.437	1:100	SEP02	SEP03	26.309	26.21	0.09	
PIPE03	Reinforced Concrete	⌀ 300	10.745	1:100	SEP03	JUNCTIONPIT01	26.115	26.01	0.11	
PIPE04	Reinforced Concrete	⌀ 300	10.093	1:100	JUNCTIONPIT01	SEP04	25.908	25.81	0.10	
PIPE05	Reinforced Concrete	⌀ 300	30.652	1:100	SEP04	SEP05	25.707	25.40	0.31	
PIPE06	Reinforced Concrete	⌀ 450	10.988	1:100	SEP05	EXISTING SEP	25.300	25.19	0.11	
PIPE07	Reinforced Concrete	⌀ 300	3.314	1:39	SEP06	JUNCTION PIT - SOAKWELL 01	28.450	28.37	0.09	
PIPE08	Reinforced Concrete	⌀ 300	3.027	1:100	JUNCTION PIT - SOAKWELL 01	JUNCTION PIT - SOAKWELL 02	28.270	28.24	0.03	

PIPE SCHEDULE FOR: STORMWATER - BUILDINGS										
NAME	PIPE TYPE	PIPE ⌀ [mm]	3D LENGTH	SLOPE	U/S PIT	D/S PIT	U/S INV	D/S INV	PIPE DROP	COMMENTS
SWPIPE01	PVC	⌀ 150	5.632	1:22	BUILDING SW PIT01	SEP01	27.406	27.15	0.26	
SWPIPE02	PVC	⌀ 150	5.560	1:33	BUILDING SW PIT02	SEP02	27.083	26.92	0.17	
SWPIPE03	PVC	⌀ 150	5.658	1:33	BUILDING SW PIT03	SEP02	27.081	26.91	0.17	
SWPIPE04	PVC	⌀ 150	4.359	1:100	BUILDING SW PIT04	JUNCTIONPIT01	26.777	26.73	0.04	

NOTES

1. EXISTING SERVICES CROSSING OVER AND UNDER PROPOSED BUILDING STORMWATER PIPES. INVERT LEVELS TO BE CONFIRMED ON SITE.

ISSUED FOR TENDER

REV	DATE	AMENDMENT	DRN	CHKD	APP
F	15.10.2025	UPDATED AS PER MRWA COMMENTS	VS	DG	CL
E	01.09.2025	ISSUED FOR TENDER	MM	DG	CL
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ORIG SIZE A1

0 10 20 30 40 50 100mm

AT ORIGINAL PLOT SIZE

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Leederville WA 6007

VALIDATION

SIGNATURE

DATE

DATE APPROVED

CLIENT

City of Kwinana

SCALE : N.T.S. (@ A1)

METADATA
H: GDA2020 MGA Z50
V: AHD

SURVEY SOURCE & DATE:

DESIGNED: MM

DRAWN: VS

PROJECT MANAGER: COLIN LEEK

PROJECT: PACE ROAD UPGRADE

DRAWING TITLE: DRAINAGE SCHEDULE

DRAWING NUMBER: C-105

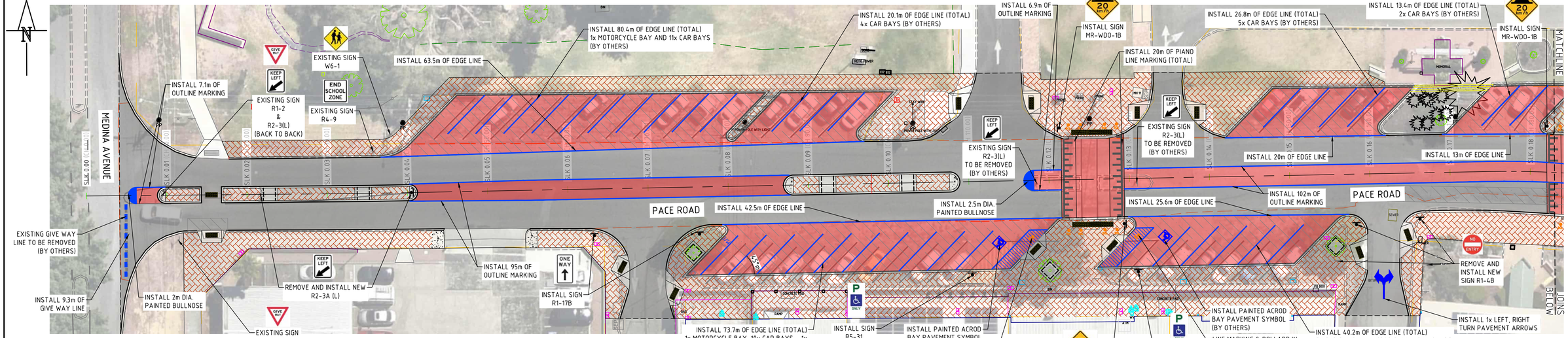
Revision : F

CSE PROJECT NUMBER: CSE-2425-138

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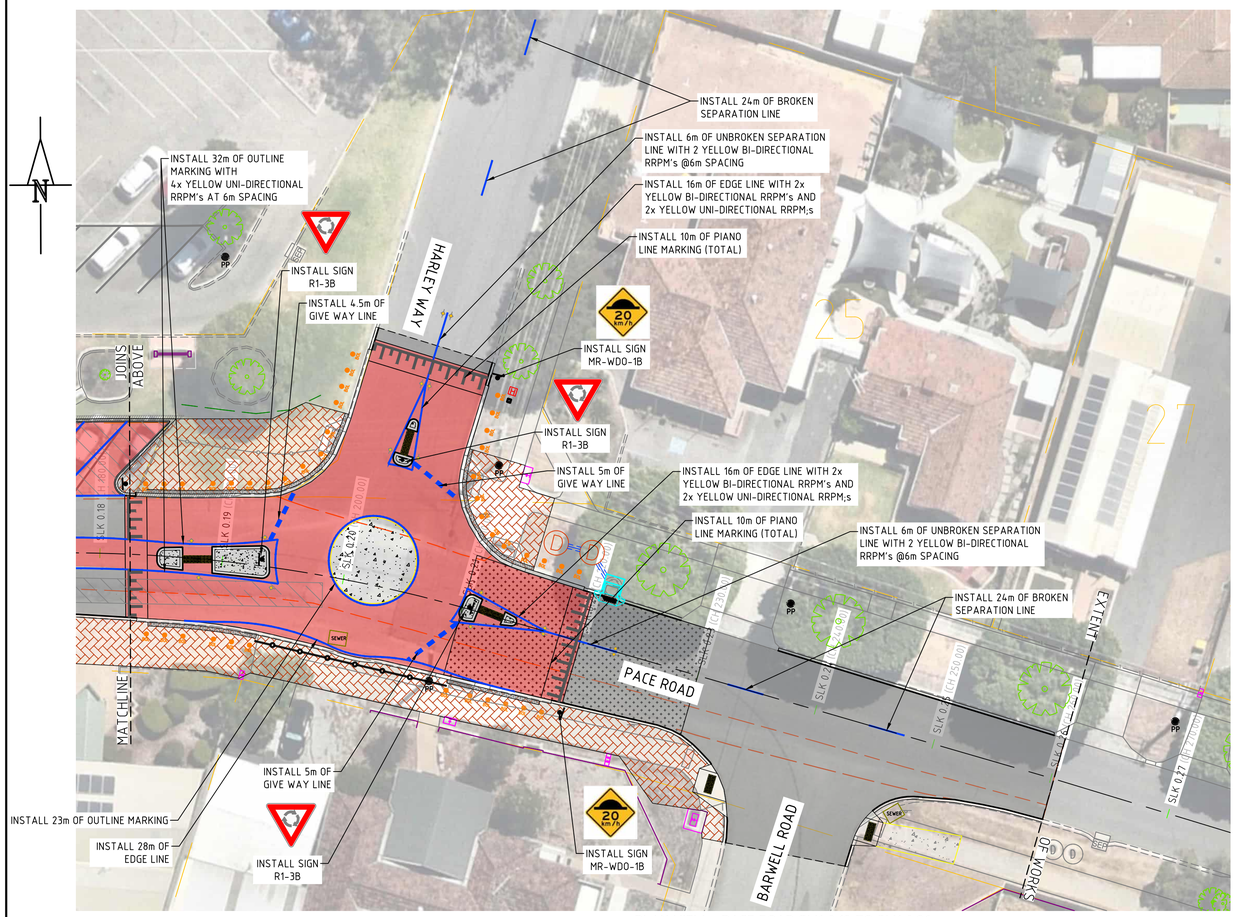
Printed by: VINI SOARES

Date & time: Friday, October 17, 2025 12:03:17



PLAN VIEW - PACE ROAD SLK 0.00 TO SLK 0.18

SCALE:1:250



PLAN VIEW - PACE ROAD SLK 0.18 TO SLK 0.26

SCALE:1:250

LEGEND

- EXISTING CADASTRAL BOUNDARY
- EXISTING BOLLARD
- EXISTING TREE
- EXISTING SIGN
- EXISTING ANCHOR POLE
- EXISTING CENTRELINE
- EXISTING KERBS
- EXISTING CONCRETE FOOTPATH
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- EXISTING FENCE
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- EXISTING VEGETATION
- EXISTING BUILDING AWNING
- EXISTING GATE
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- EXISTING POWER SOURCE
- EXISTING FIRE HYDRANT
- EXISTING TELSTRA PIT
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING SIDE ENTRY PIT
- EXISTING DRAINAGE MANHOLE
- EXISTING DRAINAGE GULLY
- EXISTING POWER POLE/LIGHT POLE
- EXISTING RETIC VALVE
- EXISTING STORMWATER DOWNPIPE
- EXISTING CONCRETE PADS
- EXISTING BORES

- TELSTRA — EXISTING TELSTRA CONDUITS
- MPG — EXISTING GAS PIPE
- WATER — EXISTING WATER PIPES
- SEWER GRAV — EXISTING SEWER GRAVITY PIPE
- SEWER PRES — EXISTING SEWER PRESSURE PIPE
- OTHER POWER — EXISTING OTHER POWER CONDUITS
- LV — LV — EXISTING WESTERN POWER LV
- UNKNOWN — EXISTING UNKNOWN SERVICES
- PROPOSED ROAD CENTREINE
- PROPOSED FMK OR SMK KERBING
- PROPOSED FMK (EDGE BEAM) LANDSCAPE KERBING
- PROPOSED LINE MARKING
- PROPOSED BOLLARD
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- PROPOSED RED LATERITE ASPHALT WEARING COURSE
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- NEW SIGN
- PROPOSED DESIGN CONTOUR LEVELS
- RL LEVELS DS: DESIGN EG: EXISTING GROUNG
- PROPOSED INGAL CIVIL PEDESTRIAN FENCING 1.2m HIGH

NOTES:

1. ALL SIGNS AND LINE MARKING MUST BE INSTALLED IN ACCORDANCE WITH AUSTRALIAN STANDARDS AND MRWA REQUIREMENTS.
2. ROAD SIGNS TO BE IN ACCORDANCE WITH MAIN ROADS WA SPECIFICATION 601.
3. PAVEMENT MARKING TO BE IN ACCORDANCE WITH MAIN ROADS WA SPECIFICATION 604.
4. PAVEMENT MARKING LINETYPES TO BE IN ACCORDANCE WITH MAIN ROADS WA STANDARD DRAWING 9931-0198.

LINE MARKING LEGEND (INSTALLED BY MRWA):

- OUTLINE MARKING (120mm WIDE LINE)
- EDGE LINE MARKING (120mm WIDE LINE)
- GIVE WAY LINE (300mm WIDE LINE) — 0.6m LINE AND GAP
- PAINTED BULLNOSE LINE MARKING (120mm WIDE LINE) — 2m MAX

SCALE 1:250

5m 0 5m 10m 15m 20m 25m

ISSUED FOR TENDER

REV	DATE	AMENDMENT	DRN	CHKD	APP
E	15.10.2025	UPDATED AS PER MRWA COMMENTS	VS	DG	CL
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ORIG SIZE A1 — 0 10 20 30 40 50 100mm — AT ORIGINAL PLOT SIZE

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METADATA
H: GDA2020 MGA Z50
V: AHD
SURVEY SOURCE & DATE:

DESIGNED: MM
DRAWN: VS
PROJECT MANAGER: COLIN LEEK

PROJECT: PACE ROAD UPGRADE
DRAWING TITLE: SIGNS AND LINES
DRAWING NUMBER: C-150
Revision : E
CSE PROJECT NUMBER: CSE-2425-138

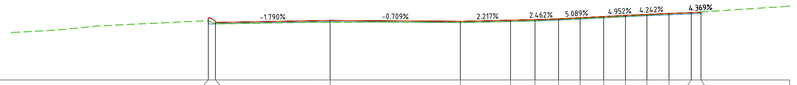
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Printed by: VINI SOARES

Date & time: Friday, October 17, 2025 14:11:08

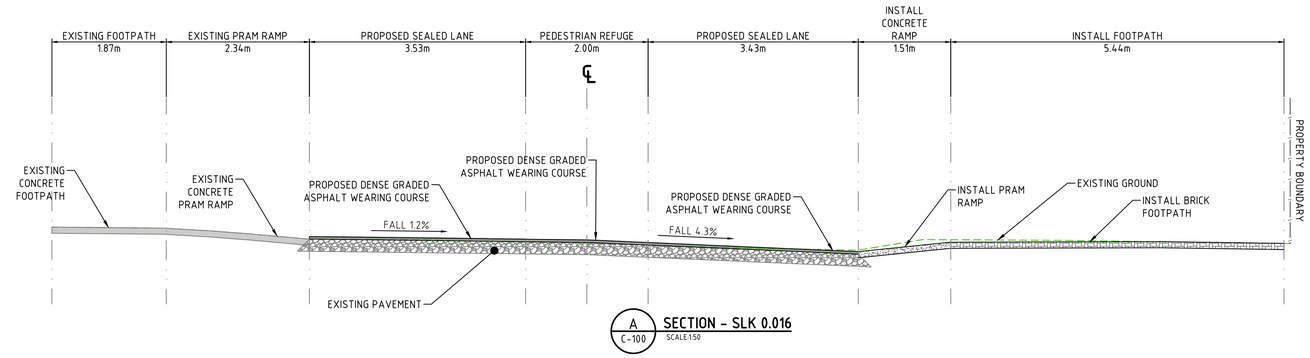
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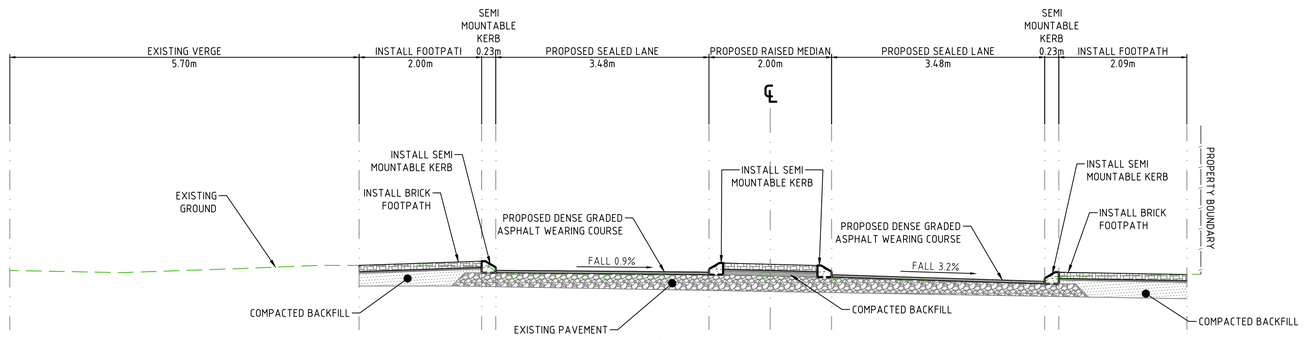


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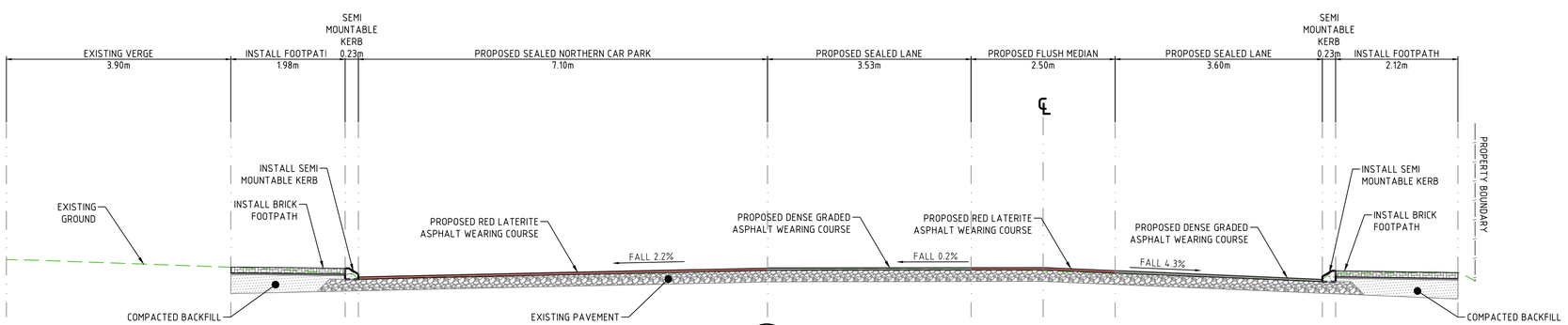
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A C-100 **SECTION - SLK 0.016**
SCALE:1:50



B C-100 **SECTION - SLK 0.03**
SCALE:1:50



C C-100 **SECTION - SLK 0.06**
SCALE:1:50

ISSUED FOR TENDER

REV	DATE	AMENDMENT	DRN	CHKD	APP
B	01.09.2025	ISSUED FOR TENDER	MM	DG	CL
A	13.05.2025	85% DESIGN ISSUE	MM	DG	CL

ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

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VALIDATION
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DATE
DATE APPROVED

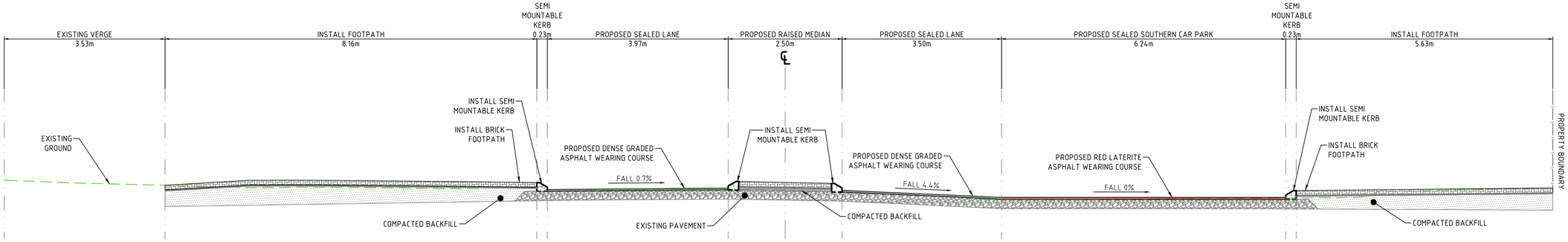
CLIENT
City of Kwinana

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V: AHD
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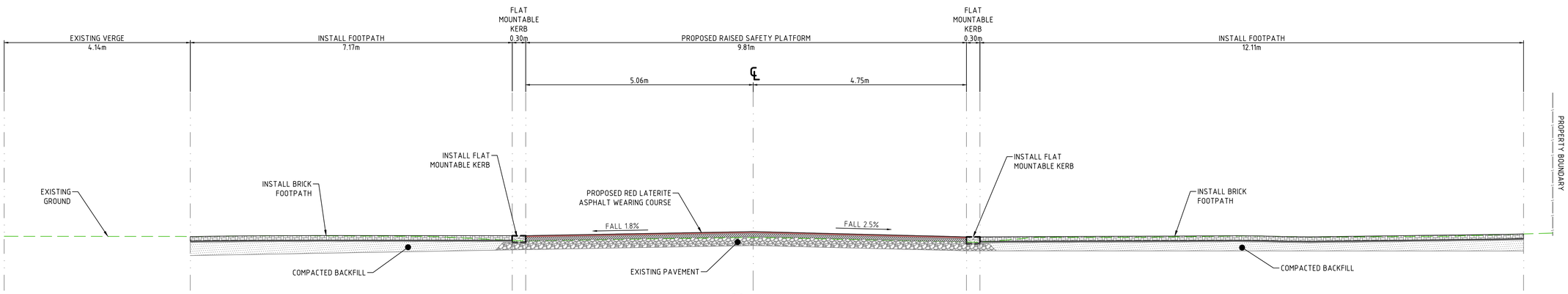
DESIGNED: MM
DRAWN: VS
PROJECT MANAGER: COLIN LEEK

PROJECT: PACE ROAD UPGRADE
DRAWING TITLE: TYPICAL SECTIONS 1 OF 3
DRAWING NUMBER: C-250
Revision : B
CSE PROJECT NUMBER: CSE-2425-138

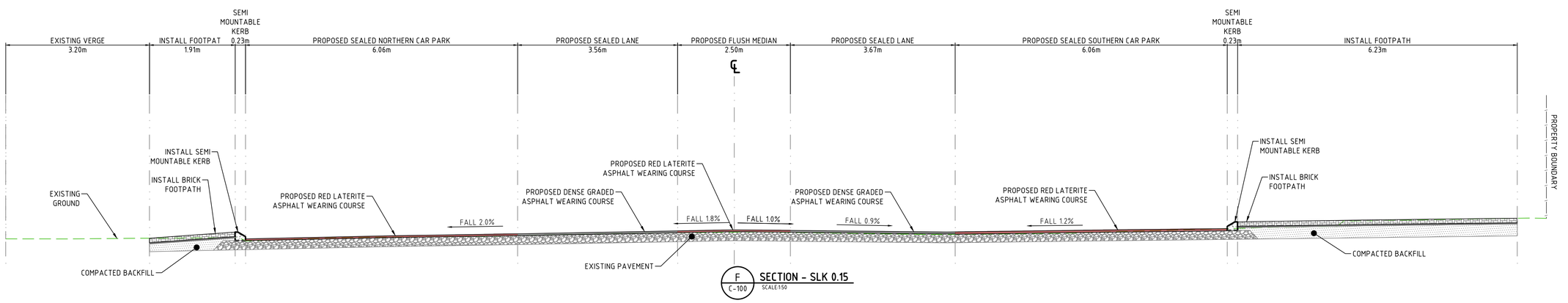
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Date & time: Wednesday, 15 October 2025 9:42:40 AM



D C-100 **SECTION - SLK 0.10** SCALE:1:50



E C-100 **SECTION - SLK 0.13** SCALE:1:50



F C-100 **SECTION - SLK 0.15** SCALE:1:50

ISSUED FOR TENDER

REV	DATE	AMENDMENT	DRN	CHKD	APP
B	01.09.2025	ISSUED FOR TENDER	MM	DG	CL
A	13.05.2025	85% DESIGN ISSUE	MM	DG	CL

ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

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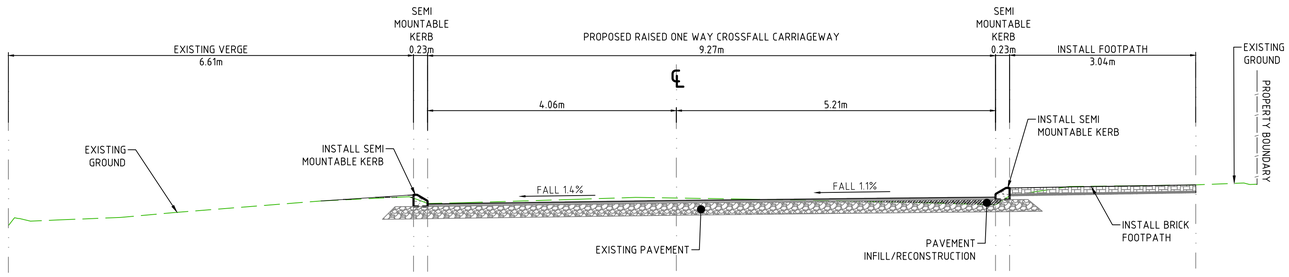
CLIENT
City of Kwinana

SCALE : AS SHOWN (@ A1)
METADATA
H: GDA2020 MGA Z50
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SURVEY SOURCE & DATE:

DESIGNED: MM
DRAWN: VS
PROJECT MANAGER: COLIN LEEK

PROJECT: PACE ROAD UPGRADE
DRAWING TITLE: TYPICAL SECTIONS 2 OF 3
DRAWING NUMBER: C-251
CSE PROJECT NUMBER: CSE-2425-138
Revision : B

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Date & time: Wednesday, 15 October 2025 9:42:51 AM



G / C-100 **SECTION - SLK 0.22**
SCALE:1:50

ISSUED FOR TENDER

REV	DATE	AMENDMENT	DRN	CHKD	APP
B	01.09.2025	ISSUED FOR TENDER	MM	DG	CL
A	13.05.2025	85% DESIGN ISSUE	MM	DG	CL

ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

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City of Kwinana

SCALE : AS SHOWN (@ A1)
METADATA
H: GDA2020 MGA Z50
V: AHD
SURVEY SOURCE & DATE:

DESIGNED: MM
DRAWN: VS
PROJECT MANAGER: COLIN LEEK

PROJECT: PACE ROAD UPGRADE
DRAWING TITLE: TYPICAL SECTIONS 3 OF 3
DRAWING NUMBER: C-252
Revision : B
CSE PROJECT NUMBER: CSE-2425-138

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Printed by: VINI SOARES
Date & time: Wednesday, 15 October 2025 9:42:55 AM

CITY OF KWINANA STANDARD DRAWINGS REFERENCE		
DETAIL	DRAWING No.	DRAWING TITLE
JUNCTION PIT	STD-D02 F	JUNCTION PIT DETAILS
SOAKWELL	STD-D11 C	SIDE ENTRY PIT WITH SOAKWELL LINER
SIDE ENTRY PIT	STD-D01 F	TYPICAL SIDE ENTRY PIT
CONCRETE FOOTPATH	STD-R07 H	TYPICAL CONCRETE FOOTPATH DETAILS
PEDESTRIAN RAMP, TACTILES AND HAND RAIL	STD-R04 I	PEDESTRIAN RAMP, TACTILES AND HAND RAIL
KERBS	STD-R01 I	EXTRUDED KERBING & PAVEMENT DETAILS
EXPANSION JOINT & LOCK JOINTS	STD-R05 G	EXPANSION JOINT & LOCK JOINTS

ISSUED FOR TENDER

REV	DATE	AMENDMENT	DRN	CHKD	APP
B	01.09.2025	ISSUED FOR TENDER	MM	DG	CL
A	13.05.2025	85% DESIGN ISSUE	MM	DG	CL

ORIG SIZE A1

0 10 20 30 40 50 100mm

AT ORIGINAL PLOT SIZE

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City of Kwinana

SCALE : N.T.S. (@ A1)

METADATA
H: GDA2020 MGA Z50
V: AHD

SURVEY SOURCE & DATE:

DESIGNED: MM

DRAWN: VS

PROJECT MANAGER: COLIN LEEK

PROJECT: PACE ROAD UPGRADE

DRAWING TITLE: STANDARD DRAWINGS REFERENCE

DRAWING NUMBER: C-300

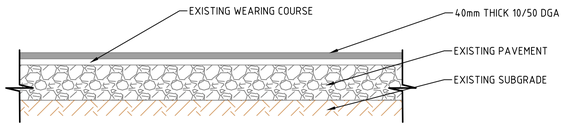
Revision : B

CSE PROJECT NUMBER: CSE-2425-138

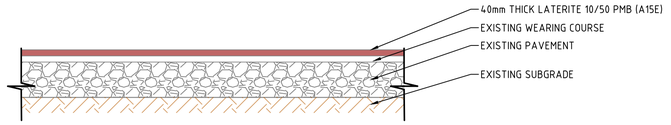
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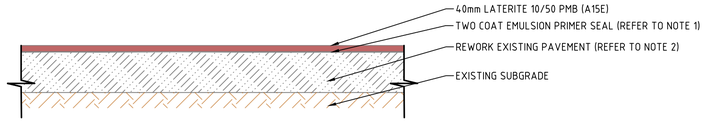
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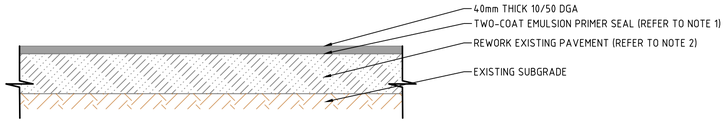
ASPHALT OVERLAY DETAIL (LANES)
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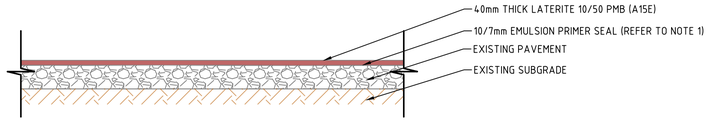
ASPHALT OVERLAY DETAIL (MEDIANS)
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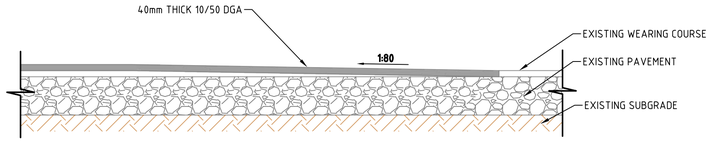
PAVEMENT REWORK DETAIL (NORTHERN & SOUTHERN CAR BAYS)
SCALE: 1:20



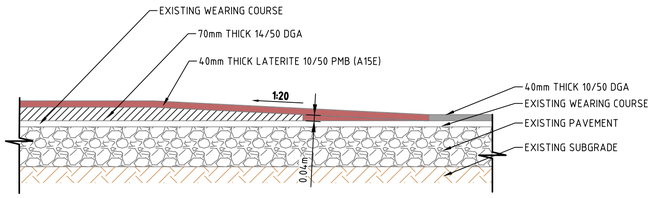
PAVEMENT REWORK DETAIL (GENERAL)
SCALE: 1:20



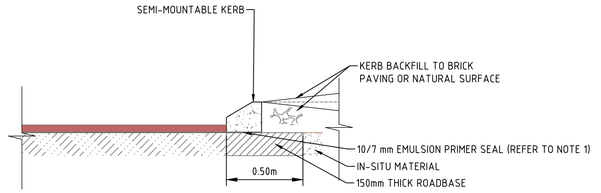
PAVEMENT RECONSTRUCTION DETAIL
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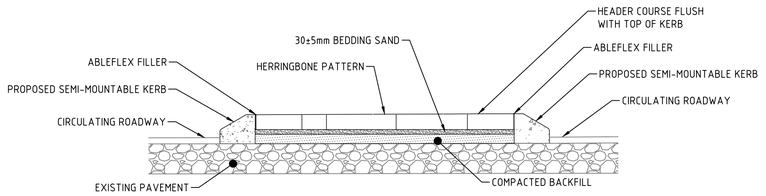
ASPHALT OVERLAY TIE-IN DETAIL
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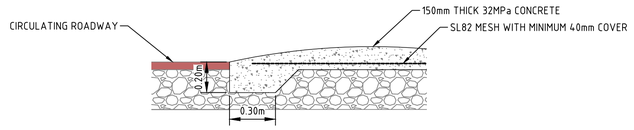
RSP DETAIL
SCALE: 1:20



KERB PAVEMENT WINDENING DETAIL
SCALE: 1:20



CROSS SECTION THROUGH MEDIANS
SCALE: 1:20



CROSS SECTION THROUGH DOMED ROUNDABOUT
SCALE: 1:20

NOTES:

1. BICK PAVING TO BE PAVESTONE ORIGINAL HERITAGE RED - 60mm THICK.

PAVEMENT NOTES:

1. TWO-COAT EMULSION PRIMER SEAL IS TO BE
   FIRST COAT: 10mm AGGREGATE @ 140-160 m^2/m^3 AND CRS-170/60 EMULSION @ 1.2 L/m^2
   SECOND COAT: 7mm AGGREGATE @ 180-200 m^2/m^3 AND CRS-170/60 EMULSION @ 1.3 L/m^2
2. PAVEMENT REWORK SHALL BE:
   -RIP TO A MINIMUM TOTAL DEPTH OF 70 mm
   -PULVERISE AND MIX THE ASPHALT WITH THE UPPER BASE MATERIAL
   -WATER-BIND TO ACHIEVE OPTIMUM MOISTURE CONTENT.
   -TRIM TO DESIGN LEVELS AND CROSSFALL.
   -WATER-BIND TO ACHIEVE OPTIMUM MOISTURE CONTENT.
   -COMPACT TO MINIMUM 96% MODIFIED DENSITY RATION PRIOR TO SEALING AND ASPHALTING.

ISSUED FOR TENDER

REV	DATE	AMENDMENT	DRN	CHKD	APP
C	01.09.2025	ISSUED FOR TENDER	MM	DG	CL
B	13.08.2025	100% DD CLIENT REVIEW	MM	DG	CL
A	13.05.2025	85% DESIGN ISSUE	MM	DG	CL

ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

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SIGNATURE
DATE
DATE APPROVED

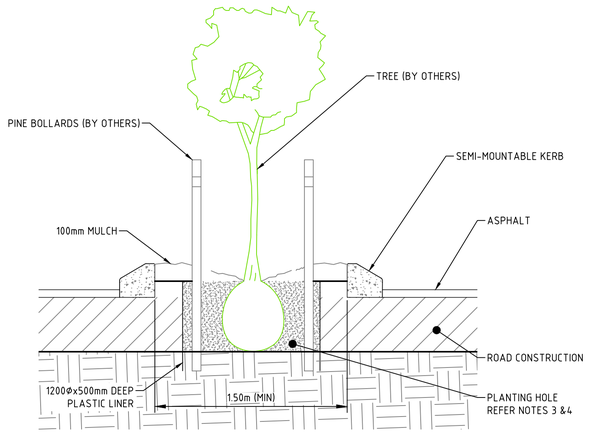
CLIENT
City of Kwinana

SCALE : AS SHOWN (@ A1)
METADATA
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V: AHD
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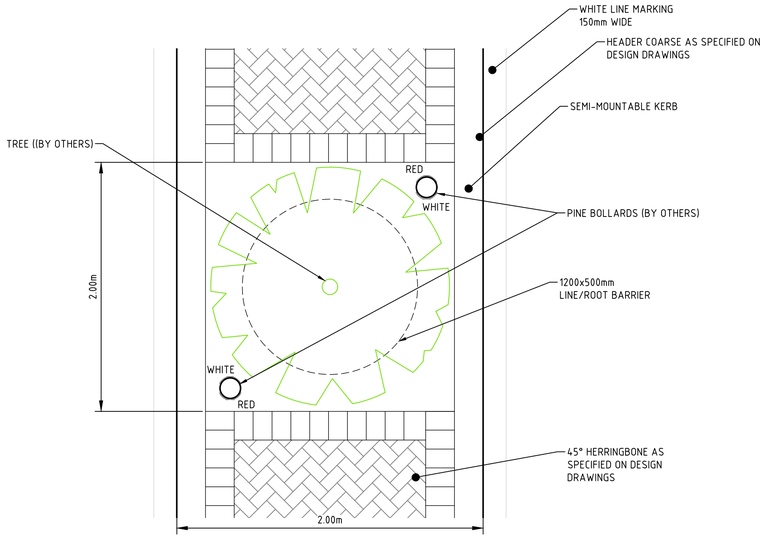
DESIGNED: MM
DRAWN: VS
PROJECT MANAGER: COLIN LEEK

PROJECT: PACE ROAD UPGRADE
DRAWING TITLE: TYPICAL DETAILS 1 OF 2
DRAWING NUMBER: C-301
Revision : C
CSE PROJECT NUMBER: CSE-2425-138

CAD drawing path: C:\Users\ViniciusSoares\Civil Sciences and Engineering\Projects - Docs\CSE-2425-138_PACE RD UPGRADE\4. Drawings\1_Drawings\CSE-2425-138_PACE RD UPGRADE.dwg
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Date & time: Wednesday, 15 October 2025 9:43:29 AM



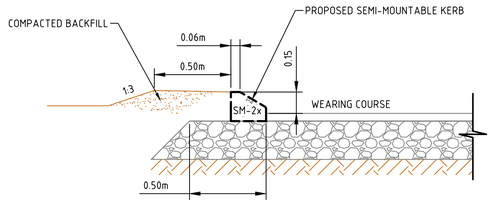
ELEVATION OF TYPICAL TREE WELL DETAIL IN MEDIAN ISLAND
SCALE: 1:20



PLAN OF TYPICAL TREE WELL DETAIL IN MEDIAN ISLAND
SCALE: 1:20

TREE NOTES:

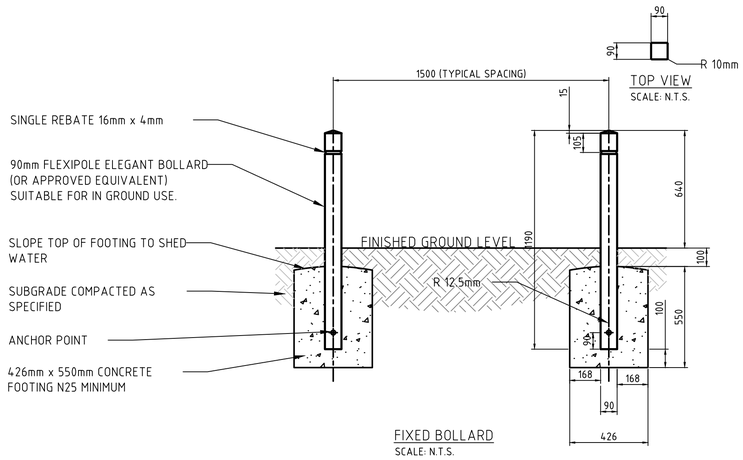
1. WHERE MEDIAN ISLANDS ARE CONSTRUCTED IN EXISTING PAINTED MEDIANS, TREE WELL WIDTH TO SUIT EXISTING WHITE LINING. EG. 1800 WIDE.
2. PLANTING HOLE TO BE THREE TIMES THE DIAMETER OF THE ROOTBALL, BACKFILLED WITH 50% SITE SOIL AND 50% TOPSOIL. TOPSOIL SHALL COMPLY WITH AS4419- SOILS FOR HORTICULTURAL PURPOSES.
3. PLANTING MIX IS NOT TO BE ADDED EARTH ROOTBALL. BASE OF PLANTING HOLE SHALL SUPPORT THE BASE OF THE TREE'S ROOTBALL.
4. PLANTING HOLE TO BE BACKFILLED AND WATERED IN TO LEAVE A FINISHED SURFACE LEVEL FLUSH WITH THE SURROUNDING GROUND LEVEL.



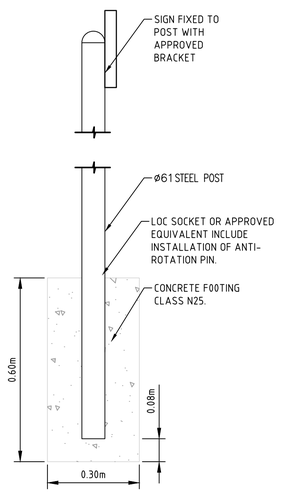
TYPICAL SEMI-MOUNTABLE KERB DETAIL
SCALE: 1:20

KERB NOTES:

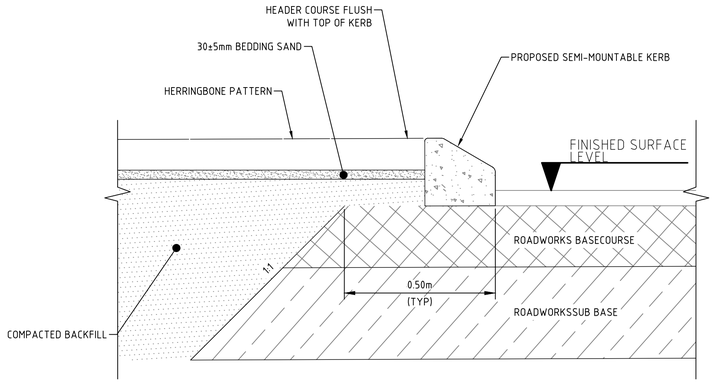
1. CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OR 32 MPa AT 28 DAYS.
2. CONTRACTION JOINTS SHALL BE CONSTRUCTED EVERY 2.5m RUN OF KERBING AND SHALL BE 5mm WIDE.
3. EXPANSION JOINTS SHALL BE CUT AT 5m INTERVALS AND SHALL BE 10mm WIDE.
4. EXPANSION JOINTS SHALL BE FILLED WITH AN APPROVED BUTYL MASTIC COMPOUND FILLER AND FOAM OR POLYURETHANE BACKING SHALL BE PLACED IN EACH EXPANSION JOINT.



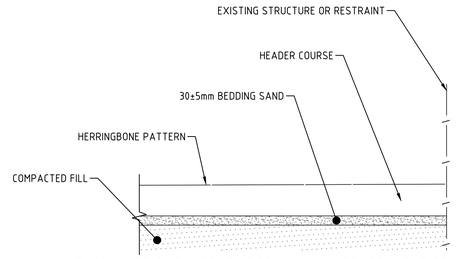
FIXED BOLLARD
SCALE: N.T.S.



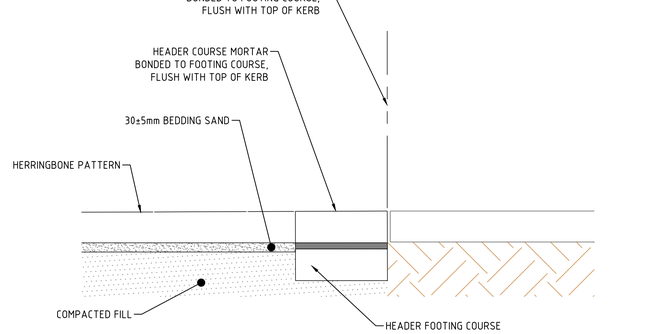
SIGN FOOTING DETAIL
SCALE: 1:10



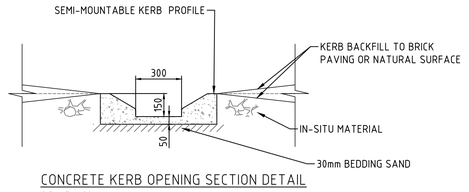
TYPICAL BRICK FOOTPATH DETAIL - NON-TRAFFICABLE EDGE BRICK PAVING
SCALE: 1:10



TYPICAL BRICK FOOTPATH DETAIL - NON-TRAFFICABLE RESTRAINED EDGE
SCALE: 1:10



TYPICAL BRICK FOOTPATH DETAIL - NON-TRAFFICABLE EDGE TYING INTO EXISTING PAVING
SCALE: 1:10



CONCRETE KERB OPENING SECTION DETAIL
SCALE: 1:20

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C	01.09.2025	ISSUED FOR TENDER	MM	DG	CL
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A	13.05.2025	85% DESIGN ISSUE	MM	DG	CL

ORIG SIZE A1

0 10 20 30 40 50 100mm
AT ORIGINAL PLOT SIZE

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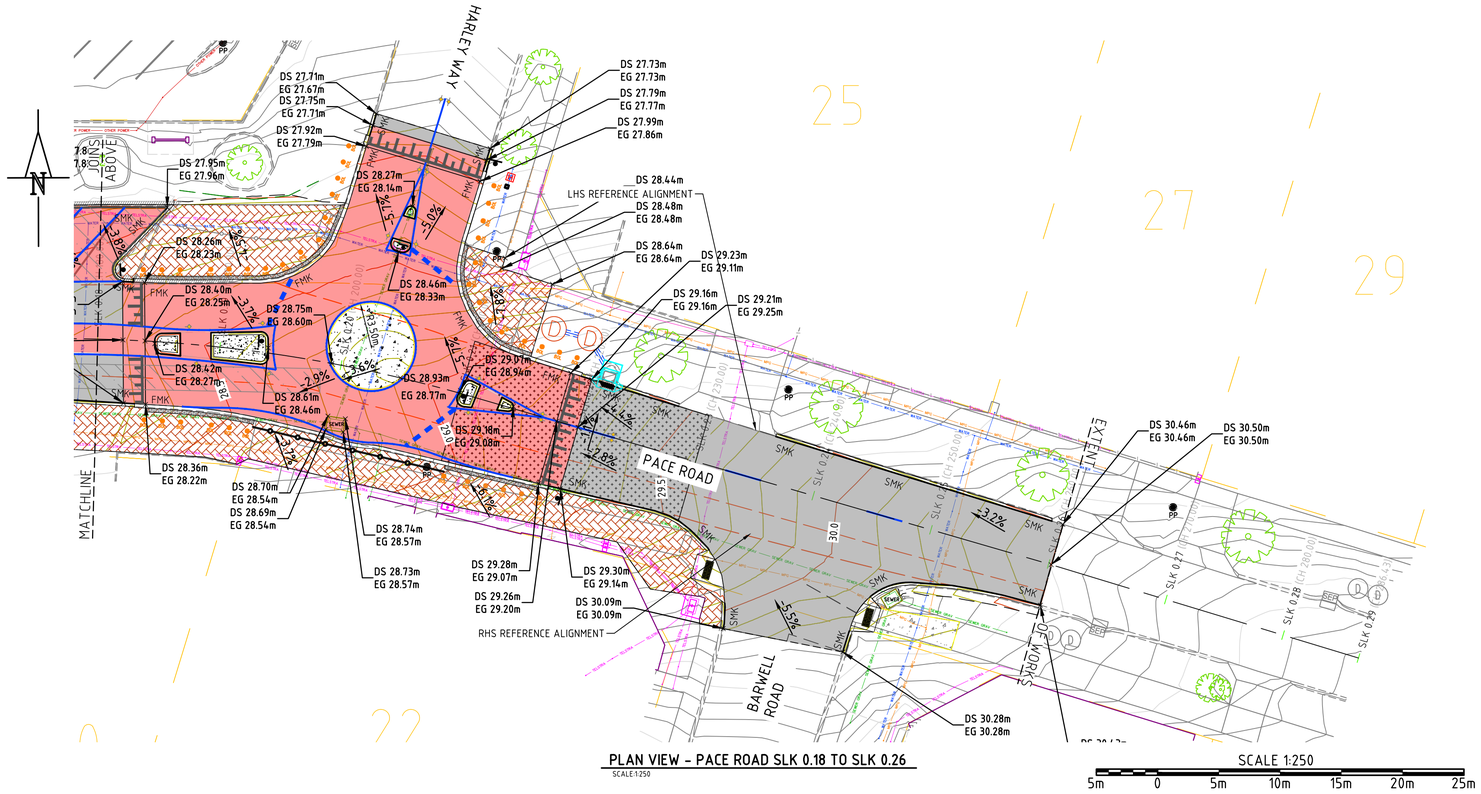
CLIENT
City of Kwinana

SCALE : AS SHOWN (@ A1)
METADATA
H: GDA2020 MGA Z50
V: AHD
SURVEY SOURCE & DATE:

DESIGNED: MM
DRAWN: VS
PROJECT MANAGER: COLIN LEEK

PROJECT: PACE ROAD UPGRADE
DRAWING TITLE: TYPICAL DETAILS 2 OF 2
DRAWING NUMBER: C-302
Revision : C
CSE PROJECT NUMBER: CSE-2425-138

CAD drawing path: C:\Users\ViniciusSoares\Civil Sciences and Engineering\Projects - Docs\CSE-2425-138_PACE RD UPGRADE\4. Drawings\1_Drawings\CSE-2425-138_PACE RD UPGRADE.dwg
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Date & time: Wednesday, 15 October 2025 9:43:56 AM

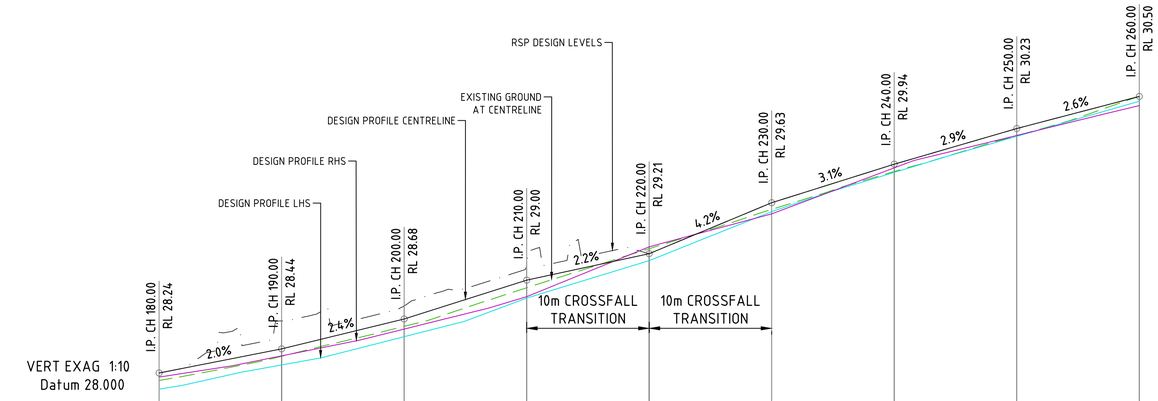


PLAN VIEW – PACE ROAD SLK 0.18 TO SLK 0.26

SCALE:1:250

SCALE 1:250

5m 0 5m 10m 15m 20m 25m



DESIGN LEVELS	28.238			28.435			28.679		28.996	29.019	29.212	29.628	29.942		30.233		30.495
EXISTING LEVELS	28.178			28.375			28.619		28.934	28.969	29.253	29.574	29.882		30.173		30.495
DEPTH	0.060			0.060			0.060		0.062	0.050	-0.041	0.054	0.060		0.060		0.000
RHS LEVELS		28.260	28.297	28.335	28.378	28.418	28.464	28.501	28.570	28.597	28.611	28.647	28.679	28.724	28.768	28.861	28.861	29.268	29.268	29.306	29.482	29.537	29.537	29.912	29.972	30.104	30.176	30.351	30.421
LHS LEVELS	28.136	28.175	28.246	28.304	28.343	28.357	28.361	28.489	28.534	28.554	28.659	28.826	28.849	28.882	28.939	28.975	29.120	29.155	29.155	29.555	29.555	29.712	29.875	30.016	30.169	30.456
CHAINAGE	180.000			190.000			200.000		210.000	211.069	220.000	230.000	240.000		250.000		260.000

SCALE 1:250

5m 0 5m 10m 15m 20m 25m

LEGEND

- EXISTING CADASTRAL BOUNDARY
- EXISTING BOLLARD
- EXISTING TREE
- EXISTING SIGN
- EXISTING ANCHOR POLE
- EXISTING CENTRELINE
- EXISTING KERBS
- EXISTING CONCRETE FOOTPATH
- EXISTING BITUMEN HUMP
- EXISTING FENCE
- EXISTING GUARDRAIL
- EXISTING SEWER MANHOLE
- EXISTING GAS LID
- EXISTING CONTOURS
- EXISTING CHANGE OF SEAL
- EXISTING LINE MARKING
- EXISTING WALLS
- EXISTING BUILDING
- EXISTING BRICK PAVING
- EXISTING DRAINAGE PIPE
- EXISTING VEGETATION
- EXISTING BUILDING AWNING
- EXISTING GATE
- EXISTING BOTTOM OF BANK
- EXISTING POWER SOURCE
- EXISTING FIRE HYDRANT
- EXISTING TELSTRA PIT
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING SIDE ENTRY PIT
- EXISTING DRAINAGE MANHOLE
- EXISTING DRAINAGE GULLY
- EXISTING POWER POLE/LIGHT POLE
- EXISTING RETIC VALVE
- EXISTING STORMWATER DOWNPIPE
- EXISTING CONCRETE PADS
- EXISTING BORES
- EXISTING TELSTRA CONDUITS
- EXISTING GAS PIPE
- EXISTING WATER PIPES
- EXISTING SEWER GRAVITY PIPE
- EXISTING SEWER PRESSURE PIPE
- EXISTING OTHER POWER CONDUITS
- EXISTING WESTERN POWER LV
- EXISTING UNKNOWN SERVICES
- EXISTING OPTUS CONDUITS
- PROPOSED ROAD CENTREINE
- PROPOSED FMK OR SMK KERBING
- PROPOSED FMK (EDGE BEAM) LANDSCAPE KERBING
- PROPOSED LINE MARKING
- PROPOSED BOLLARD
- PROPOSED GRAY TACTILES
- PROPOSED RED LATERITE ASPHALT WEARING COURSE
- PROPOSED BRICK PAVING
- PROPOSED DENSE GRADED ASPHALT WEARING COURSE
- PROPOSED PAVEMENT WIDENING FOR KERBS
- PROPOSED PAVEMENT RECONSTRUCTION
- PROPOSED PAVEMENT REWORK
- NEW TACTILES (TGSI'S)
- NEW PRAM RAMP WITH TACTILES
- NEW RRPM'S
- EDGE OF NEW WEARING COURSE
- NEW SIGN
- PROPOSED DESIGN CONTOUR LEVELS
- RL LEVELS DS: DESIGN EG: EXISTING GROUNG
- PROPOSED INGAL CIVIL PEDESTRIAN FENCING 1.2m HIGH

PROFILE LEGEND

- DESIGN PROFILE RHS
- DESIGN PROFILE LHS
- DESIGN PROFILE CENTRELINE
- RSP DESIGN LEVELS
- EXISTING GROUND PROFILE AT ROAD CENTRELINE

DRAINAGE LEGEND

STRUCTURE NAME/NUMBER EASTING NORTHING FINISHED SURFACE LEVEL DEPTH DIAMETER	UPSTREAM INVERT DIAMETER / SLOPE LENGTH / CLASS DOWNSTREAM INVERT

- PROPOSED SOAKWELL
- PROPOSED DRAINAGE PIPE
- PROPOSED SIDE-ENTRY PIT (SEP)
- PROPOSED JUNCTION PIT

ISSUED FOR TENDER

REV	DATE	AMENDMENT	DRN	CHKD	APP
E	15.10.2025	UPDATED AS PER MRWA COMMENTS	VS	DG	CL
D	01.09.2025	ISSUED FOR TENDER	MM	DG	CL
C	05.08.2025	100% DESIGN COMMENTS ADDRESSED	VS	DG	CL
B	10.06.2025	UPDATED AS PER CLIENT COMMENTS	VS	DG	CL
A	13.05.2025	85% DESIGN ISSUE	MM	DG	CL

ORIG SIZE A1

0 10 20 30 40 50 100mm

AT ORIGINAL PLOT SIZE

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CIVIL SCIENCES & ENGINEERING
Consulting Engineers
10/643 Newcastle Street
Leederville WA 6007

VALIDATION

SIGNATURE

DATE

DATE APPROVED

CLIENT

City of Kwinana

SCALE : N.T.S. (@ A1)

METADATA
H: GDA2020 MGA Z50
V: AHD

SURVEY SOURCE & DATE:

DESIGNED: MM

DRAWN: VS

PROJECT MANAGER: COLIN LEEK

PROJECT: PACE ROAD UPGRADE

DRAWING TITLE: PLAN AND PROFILE

DRAWING NUMBER: C-400

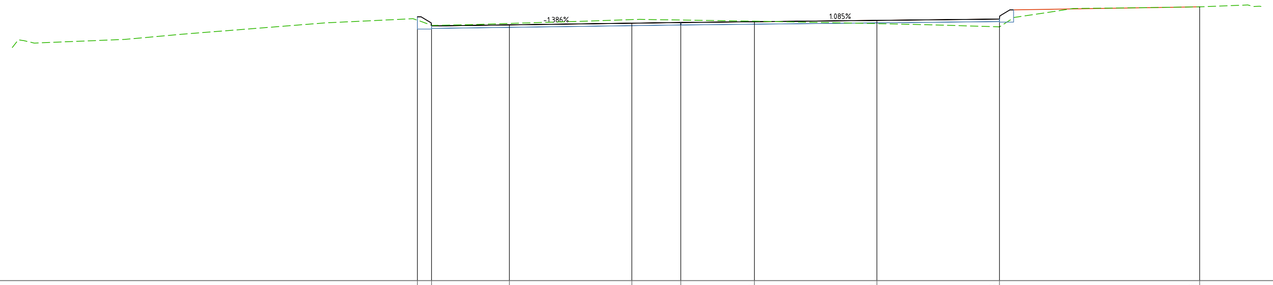
Revision : E

CSE PROJECT NUMBER: CSE-2425-138

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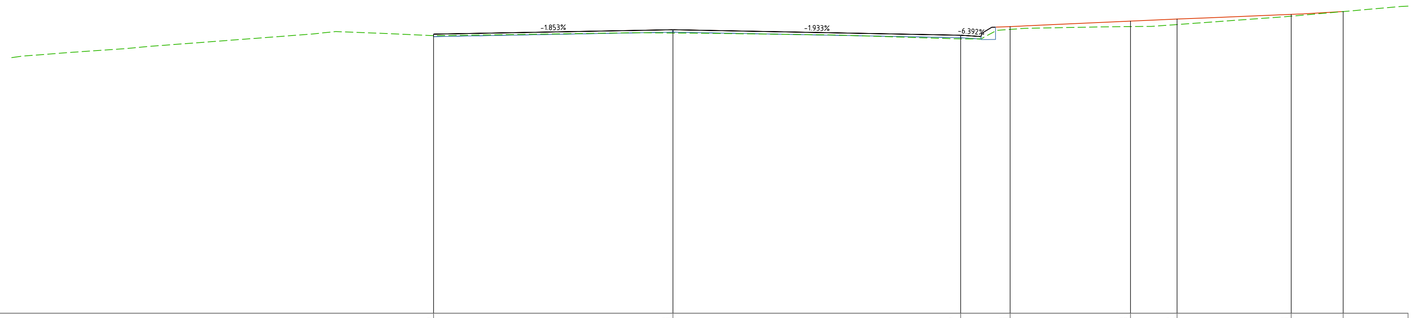
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Datum: 25.000

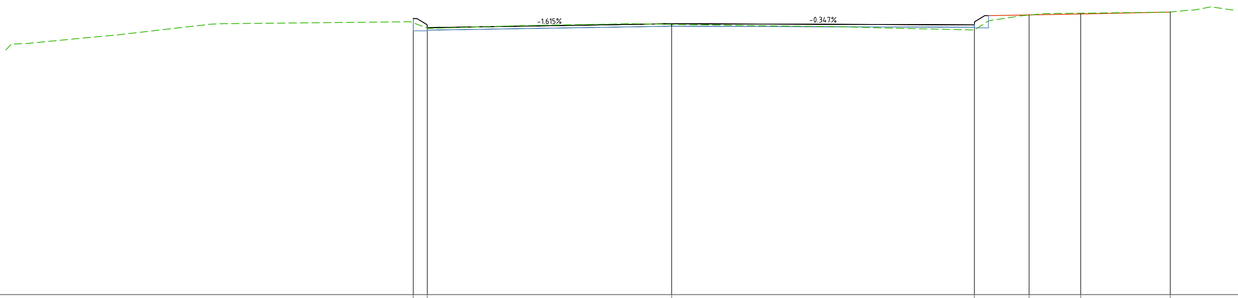
| | | |



Datum: 25.000

PROPOSED LEVELS	29.555	29.628	29.537	29.678	29.768	29.802	29.878	29.924				
EXISTING LEVELS	29.531	29.574	29.477	29.632	29.679	29.712	29.848	29.923				
LEVEL DIFFERENCE	0.025	0.054	0.059	0.045	0.089	0.090	0.030	0.001				
OFFSETS	-3.908	0.000	4.696	5.504	7.469	8.229	10.092	10.940				

Chainage 230.000



Datum: 25.000

PROPOSED LEVELS	29.505	29.355	29.420	29.402	29.564	29.579	29.611					
EXISTING LEVELS	29.435	29.350	29.410	29.318	29.561	29.592	29.611					
LEVEL DIFFERENCE	0.070	0.005	0.009	0.084	0.003	-0.014	0.000					
OFFSETS	-4.219	-3.989	0.000	4.941	5.834	6.677	8.139					

Chainage 225.000

ISSUED FOR TENDER

SCALE 1:50

1m 0 1m 2m 3m 4m 5m

REV	DATE	AMENDMENT	DRN	CHKD	APP
E	15.10.2025	UPDATED AS PER MRWA COMMENTS	VS	DG	CL
D	01.09.2025	ISSUED FOR TENDER	MM	DG	CL
C	05.08.2025	100% DESIGN COMMENTS ADDRESSED	VS	DG	CL
B	10.06.2025	UPDATED AS PER CLIENT COMMENTS	VS	DG	CL
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ORIG SIZE A1

0 10 20 30 40 50 100mm

AT ORIGINAL PLOT SIZE

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Consulting Engineers
10/643 Newcastle Street
Leederville WA 6007

VALIDATION

SIGNATURE

DATE

DATE APPROVED

CLIENT

City of Kwinana

SCALE : N.T.S. (@ A1)

METADATA
H: GDA2020 MGA Z50
V: AHD

SURVEY SOURCE & DATE:

DESIGNED: MM

DRAWN: VS

PROJECT MANAGER: COLIN LEEK

PROJECT: PACE ROAD UPGRADE

DRAWING TITLE: CROSS SECTIONS 2 OF 2

DRAWING NUMBER: C-402

Revision : E

CSE PROJECT NUMBER: CSE-2425-138

CAD drawing path: C:\Users\ViniciusSoares\Civil Sciences and Engineering\Projects - Docs\CSE-2425-138_PACE RD UPGRADE\4. Drawings\1_Drawings\CSE-2425-138_PACE RD UPGRADE.dwg

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