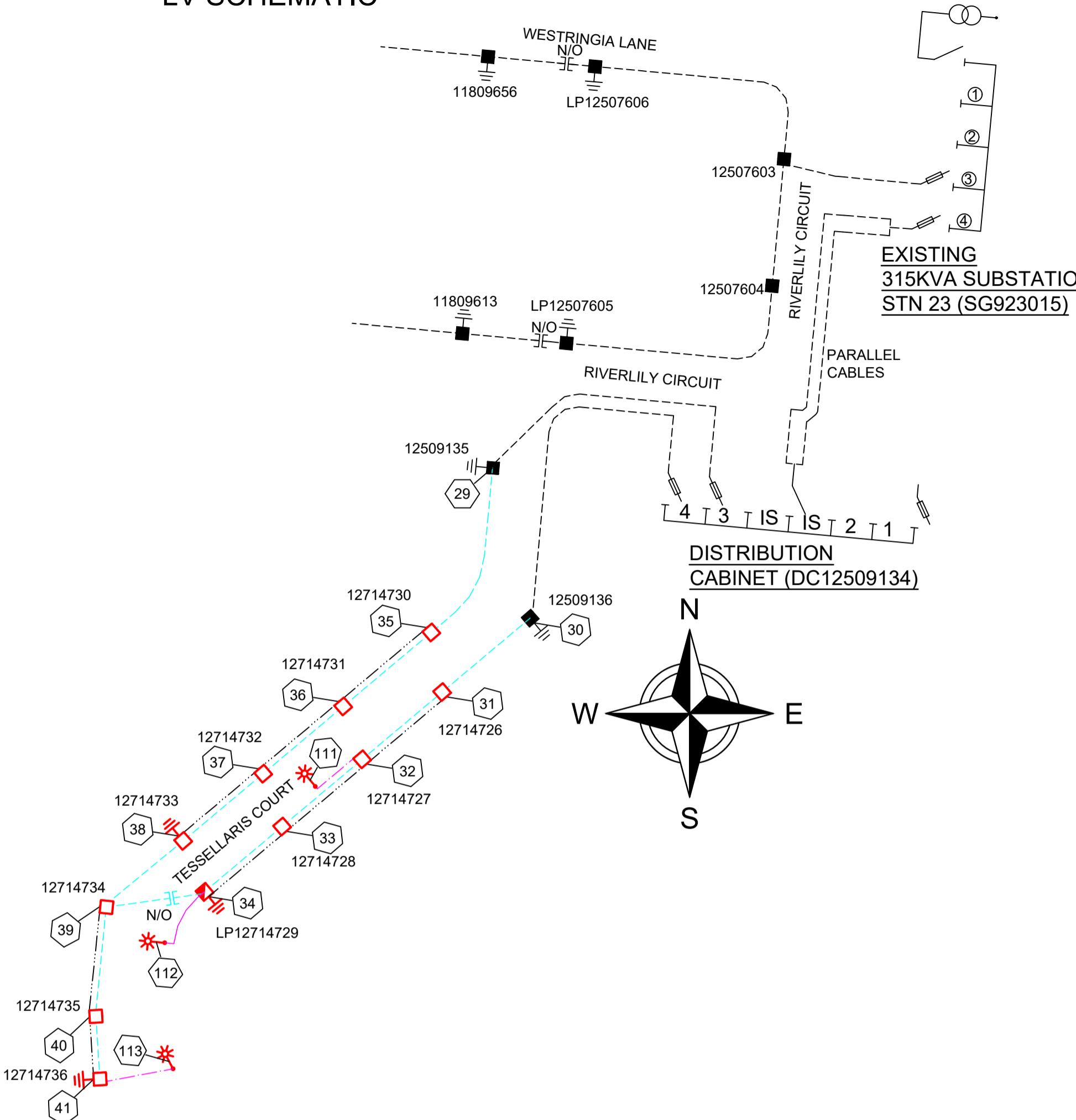


LV SCHEMATIC



ERGON ENERGY TO UPDATE LABELS AS PER BELOW

EXISTING DISTRIBUTION CABINET

| RIVERLILY CIRCUIT | | | | | DC12509134 |
|-------------------|---------------------|-----------------|----------------|---|------------|
| CIRCUIT No. | LABEL SIZE LABEL | LABEL COLOUR | LETTER SIZE | LABEL INFORMATION | |
| MAIN ISOLATOR | 80 x35 | WB | 6 | EXISTING | |
| 1 | 80 x35 | WB | 5 | SPARE | |
| 2 | 80 x35 | WB | 5 | SPARE | |
| 3 | 80 x35 | WB | 5 | TO TESSELLARIS Crt 12509135 DIRECT/ 12714736/ LP12714729 & SERVICES. | |
| 4 | 80 x35 | WB | 5 | TO TESSELLARIS Crt 12509136 DIRECT/ LP12714729 & SERVICES. | |

CONTRACTOR TO INSTALL LABELS AS PER BELOW

NEW LINK PILLAR

| | | | | | |
|-------------|---------------------|-----------------|----------------|--|------------|
| LOCATION: | TESSELLARIS COURT | | | STATION: 34 | LP12714729 |
| CIRCUIT No. | LABEL SIZE LABEL | LABEL COLOUR | LETTER SIZE | LABEL INFORMATION | |
| 1 (LHS) | 150 x 50 | WB | 5 | TO RIVERLILY Cct DC12509134 FS4 & SERVICES. | |
| 2 (RHS) | 150 x 50 | WB | 5 | TO RIVERLILY Cct DC12509134 FS3/TESELLARIS Ct 12714736 & SERVICES. | |

| Rev Date 08/08/2024 | UNDERGROUND CABLE SCHEDULE | | | | | | |
|------------------------|----------------------------|---------|---------|----------------------|-----------------|-----------------|--|
| STN FROM | STN TO | ACTION | VOLTAGE | CONSTRUCTION CODE | ROUTE LENGTH | CABLE LENGTH | REMARKS |
| 29 | 35 | INSTALL | 415V | LVI-240C4/1611 | 43 | 47 | COIL CABLE AT STN 29 FOR FINA; TERMINATION BY ERGON ENERGY. |
| 30 | 31 | INSTALL | 415V | LVI-240C4/1611 | 28 | 32 | COIL 2M OF CABLE AT STN 30 FOR FINAL TERMINATION BY ERGON ENERGY. |
| 31 | 32 | INSTALL | 415V | LVI-240C4/1611 | 26 | 30 | |
| 32 | 33 | INSTALL | 415V | LVI-240C4/1611 | 25 | 29 | |
| 32 | 111 | INSTALL | 240V | LVI-4CU2NS/1671 | 16 | 21 | |
| 33 | 34 | INSTALL | 415V | LVI-240C4/1611 | 24 | 28 | |
| 34 | 39 | INSTALL | 415V | LVI-240C4/1611 | 24 | 28 | LV LINK |
| 34 | 112 | INSTALL | 240V | LVI-4CU2NS/1671 | 18 | 23 | |
| 35 | 36 | INSTALL | 415V | LVI-240C4/1611 | 27 | 31 | |
| 36 | 37 | INSTALL | 415V | LVI-240C4/1611 | 25 | 29 | |
| 37 | 38 | INSTALL | 415V | LVI-240C4/1611 | 25 | 29 | |
| 38 | 39 | INSTALL | 415V | LVI-240C4/1611 | 25 | 29 | |
| 39 | 40 | INSTALL | 415V | LVI-240C4/1611 | 26 | 30 | |
| 40 | 41 | INSTALL | 415V | LVI-240C4/1611 | 15 | 19 | |
| 41 | 113 | INSTALL | 240V | LVI-4CU2NS/1671 | 17 | 22 | |
| | | | | | | | |

SPA LIGHTING DESIGN COMPLIANCE CERTIFICATE



THIS LIGHTING DESIGN COMPLIES GENERALLY WITH THE NOMINATED CATEGORIES OF AS1158 FOR RATE 1 AND RATE 2 LUMINAIRES.

NAME: MICHAEL DAYOT TITLE: SENIOR ELECTRICAL ENGINEER
RPEQ: 29435

PR5
E CITY COUNCIL
UPCAST ANGLE

MAINTENANCE FACTOR 0.75
THE DESIGN ASSUMES MAINTENANCE FACTORS OF 0.75 FOR MINOR ROAD
LIGHTING AND 0.75 FOR MAJOR ROAD LIGHTING. THESE MAINTENANCE FACTORS
ARE BASED ON THE FOLLOWING MAINTENANCE SCHEDULE, WHICH MIGHT NOT
NECESSARILY BE ADOPTED BY ERGON

1. LAMPS SHALL BE REPLACED AT 36- MONTH INTERVALS.
2. ALL THAT TIME, LUMINARIES SHALL BE CLEANED, INSPECTED AND MAINTAINED.
3. VEGETATION SHALL BE KEPT CLEAR OF STREET LIGHTS.
4. INSPECTION PATROLS AND SPOT LAMP REPLACEMENT SHALL MAINTAIN SERVICE AVAILABILITY AT NO LESS THAN 95%.
5. LUMINARIES AND LAMPS SHALL BE REPLACED WITH EXACT EQUIVALENTS.

ALL LIGHTING CALCULATIONS ARE AVAILABLE UPON REQUEST.
FOR LIGHTING ARRANGEMENT, SPACINGS, MOUNTING HEIGHTS, OUTREACH

PILLAR CENTERED ON BOUNDARY

LOT PROPERTY A LOT PROPERTY B

FRONT PROPERTY BOUNDARY

DIVIDING BOUNDARY

ERGON PILLAR

EXCLUSION ZONE

1000

400

400

PILLAR OFFSET FROM BOUNDARY

LOT PROPERTY A LOT PROPERTY B

FRONT PROPERTY BOUNDARY

DIVIDING BOUNDARY

ERGON PILLAR

EXCLUSION ZONE

1000

400

400

PILLAR ON TRUNCATED BOUNDARY

LOT PROPERTY A LOT PROPERTY B

FRONT PROPERTY BOUNDARY

DIVIDING BOUNDARY

ERGON PILLAR

EXCLUSION ZONE

400

400

400

400

400

400

400

DETAIL A: PILLAR LOCATION CLEARANCE FROM LOT

- PILLAR TO BE INSTALLED AS SHOWN WHERE REQUIRED TO AVOID DRIVEWAY ACCESS TO LOTS.
- EDGE OF PILLAR CANNOT BE LOCATED MORE THAN 100mm FROM PROPERTY BOUNDARY PEG.
- DRIVEWAY ACCESS TO LOTS CANNOT BE LOCATED WITHIN 1m OF THE EDGE OF PILLAR, AS SHOWN.
- ENSURE PILLAR IS INSTALLED 400mm TO CENTRE FROM ANY PROPERTY BOUNDARY



CLIENT:
RBEX PTY LTD

The logo for SPA Consulting Engineers. It features the word "spa" in a large, bold, black, sans-serif font. Below "spa", the words "Simon Perkins & Associates" are written in a smaller, black, sans-serif font. At the bottom, the words "consulting engineers" are written in a large, bold, black, sans-serif font. The "a" in "spa" and the "e" in "consulting engineers" are slightly taller than the other letters in their respective words.

TRENCH SECTIONS-LEGEND

| LEGEND | |
|--------|-------------------|
| D | ZERO LOT BOUNDARY |
| NG | 150mm HV DUCT |
| ED | 125mm HV DUCT |
| | 100mm LV DUCT |
| | LIGHTING DUCT |
| | 35mm sq ANNEALED |
| | BARE COPPER EARTH |
| | CABLE EXISTING |
| | CABLE PLANNED |
| | CABLE RECOVER |
| | EQUIPMENT EXIST |
| | EQUIPMENT RECOV |
| | EQUIPMENT PLANNED |

| | | | | | |
|---|-------------------|---|--------------------------|---|------------------------|
|  | SUBSTATION |  | N1, N2, N3 PILLARS | | |
|  | RING MAIN UNIT |  | DISTRIBUTION CABINET | | |
|  | CROSS ROAD PILLAR |  | STREETLIGHT |  | CIA1 & CIA2 PILLARS |
|  | LINKING PILLAR |  | EARTH |  | HV POLE |
|  | LIGHTING PIT |  | HV/LV POLE |  | LV POLE |
|  | CABLE JOINT |  | POLE MOUNTED TRANSFORMER | | |

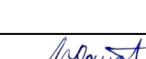
Drawing Title

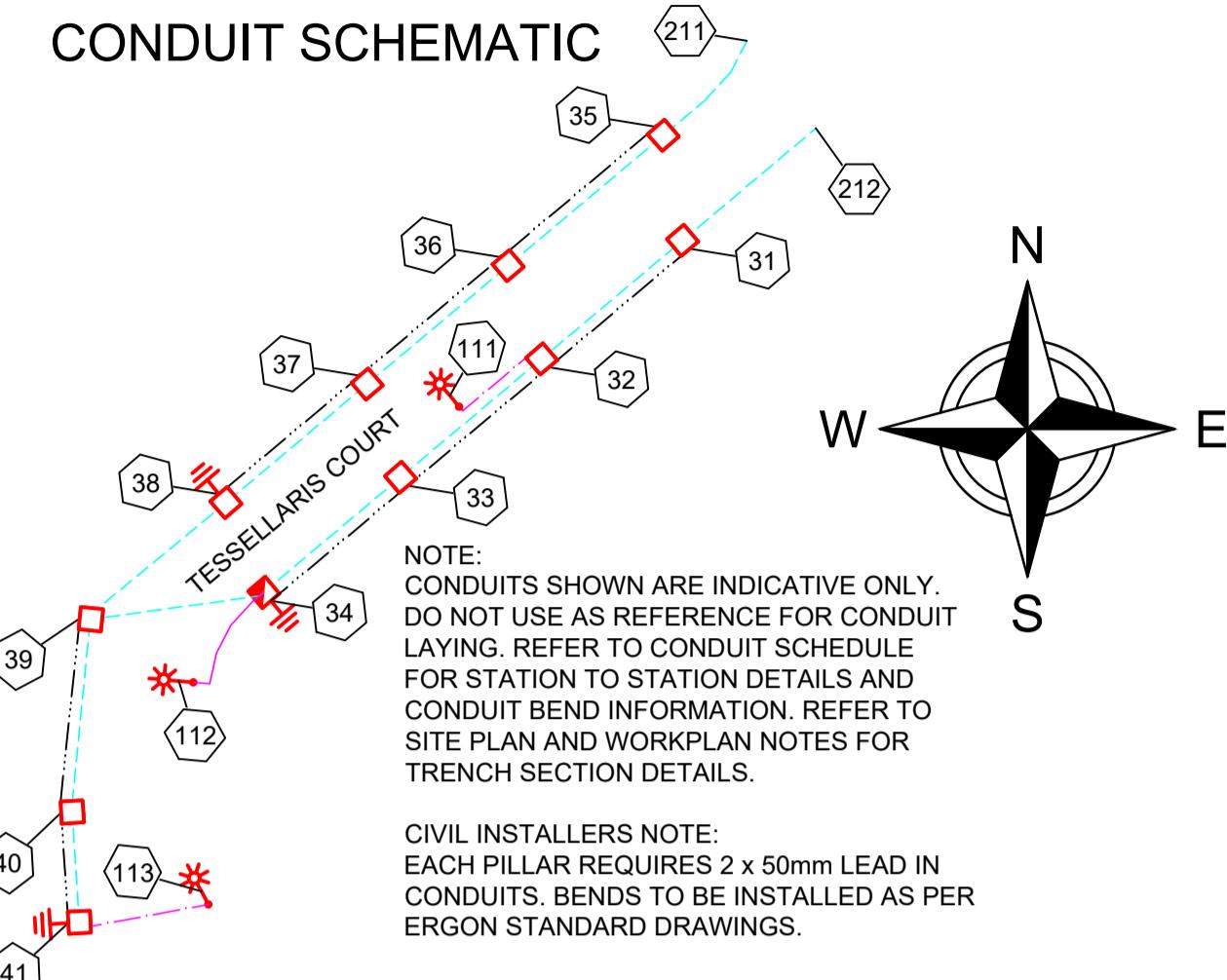
THE RESERVE STAGE 15C

DC UG ELECTRICAL RETICULATION

SCHEMATIC, LABELS, CABLE &

LIGHTING SCHEDULES AND DETAIL A.

| | | |
|--|---|----------------------|
| Date | OCTOBER 2024 | |
| Scale | N.T.S | |
| Drawn | SW | |
| RPEQ Design Certification Michael Dayot 29435 |  | |
| Sheet | 2 OF 3 | |
| ERGON Project Number 1796281 | SPA Drawing Number 3398-E02 | Revision B |



| Rev Date 20-4-23 | CROSSING CONDUIT DUCTING SCHEDULE | | | | | | |
|---------------------|-----------------------------------|-----------------|-------------------|------------|-----------------------|-----------------------------------|-------------------|
| STN FROM | STN TO | ACTION | CONSTRUCTION CODE | LENGTH (m) | No. of LENGTHS / DRUM | BENDS (Degrees/ Radius(mm) x No.) | Remarks |
| 34 | 39 | INSTALL - CIVIL | C100L | 24 | 4.0 | 45/1200x2 45/1830x2 15/1830x5 | REFER TO NOTE 13. |

| Rev Date 20-4-23 | VERGE CONDUIT DUCTING SCHEDULE | | | | | | |
|---------------------|--------------------------------|-----------------|------------------------------|------------|-----------------------|-----------------------------------|---|
| STN FROM | STN TO | ACTION | CONSTRUCTION CODE | LENGTH (m) | No. of LENGTHS / DRUM | BENDS (Degrees/ Radius(mm) x No.) | Remarks |
| 31 | 32 | INSTALL - CIVIL | C100L | 26 | 4.3 | 45/1200x2 | |
| 31 | 34 | INSTALL - CIVIL | 35mm2 ANNEALED BARE Cu EARTH | 76 | 0.3 | | COIL 2M OF CABLE AT STN 34 FOR CONNECTION BY ELECTRICAL CONTRACTOR. LEAVE AT BOTTOM OF TRENCH AT STN 31 |
| 32 | 33 | INSTALL - CIVIL | C100L | 25 | 4.2 | 45/1200x2 | |
| 32 | 111 | INSTALL - CIVIL | C50H | 16 | 4.0 | 90/300x2 90/600x1 | |
| 33 | 34 | INSTALL - CIVIL | C100L | 24 | 4.0 | 45/1200x2 | |
| 34 | 112 | INSTALL - CIVIL | C50H | 18 | 4.5 | 90/300x2 90/600x1 | |
| 35 | 36 | INSTALL - CIVIL | C100L | 27 | 4.5 | 45/1200x2 | |
| 35 | 38 | INSTALL - CIVIL | 35mm2 ANNEALED BARE Cu EARTH | 79 | 0.3 | | COIL 2M OF CABLE AT STN 38 FOR CONNECTION BY ELECTRICAL CONTRACTOR. LEAVE AT BOTTOM OF TRENCH AT STN 35 |
| 36 | 37 | INSTALL - CIVIL | C100L | 25 | 4.2 | 45/1200x2 | |
| 37 | 38 | INSTALL - CIVIL | C100L | 25 | 4.2 | 45/1200x2 | |
| 38 | 39 | INSTALL - CIVIL | C100L | 25 | 4.2 | 45/1200x2 45/1830x1 | |
| 39 | 40 | INSTALL - CIVIL | C100L | 26 | 4.3 | 45/1200x2 15/1830x1 | |
| 39 | 41 | INSTALL - CIVIL | 35mm2 ANNEALED BARE Cu EARTH | 43 | 0.2 | | COIL 2M OF CABLE AT STN 41 FOR CONNECTION BY ELECTRICAL CONTRACTOR. LEAVE AT BOTTOM OF TRENCH AT STN 39 |
| 40 | 41 | INSTALL - CIVIL | C100L | 15 | 2.5 | 45/1200x2 | |
| 41 | 113 | INSTALL - CIVIL | C50H | 17 | 4.3 | 90/300x2 | |
| 211 | 35 | INSTALL - CIVIL | C100L | 17 | 2.8 | 45/1200x1 15/1830x3 | LOCATE EXISTING CAPPED CONDUIT AT STN 211. |
| 212 | 31 | INSTALL - CIVIL | C100L | 27 | 4.5 | 45/1200x1 | LOCATE EXISTING CAPPED CONDUIT AND CONNECT TO NEW. |

| CONSTRUCTION SCHEDULE | | | | | | | | | |
|-----------------------|------------|----------------|--------------------|-----------------|--------------------|-------------------|----------------|------------------|---|
| STN NO | SITE LABEL | POLE ALIGNMENT | POLE SETTING DEPTH | ACTION | CONSTRUCTION CLASS | CONSTRUCTION CODE | DRAWING NUMBER | POSITION ON POLE | REMARKS |
| 29 | 12509135 | | | EXISTING | EARTH | | | | |
| 29 | 12509135 | | | EXISTING | PILLAR | | | | |
| 29 | 12509135 | | | INSTALL - ERGON | PILLAR UPGRADE | LV PNU1-2/240 | 5074 | | ERGON ENERGY TO UPGRADE PILLAR TO 2-WAY IN THIS STAGE AND TERMINATE CABLE FROM STN 29-35. |
| 30 | 12509136 | | | EXISTING | EARTH | | | | |
| 30 | 12509136 | | | EXISTING | PILLAR | | | | |
| 30 | 12509136 | | | INSTALL - ERGON | PILLAR UPGRADE | LV PNU1-2/240 | 5074 | | ERGON ENERGY TO UPGRADE PILLAR TO 2-WAY IN THIS STAGE AND TERMINATE CABLE FROM STN 30-31. |
| 31 | 12714726 | | | INSTALL | PILLAR | LV PN2/6/240 | 5026 | | INSTALL PILLAR OFFSET TOWARD LOT 149. REFER TO NOTE 16. |
| 32 | 12714727 | | | INSTALL | PILLAR | LV PN2/6S/240 | 5026 | | INSTALL PILLAR OFFSET TOWARD LOT 147. REFER TO NOTE 16. |
| 33 | 12714728 | | | INSTALL | PILLAR | LV PN2/6/240 | 5026 | | INSTALL PILLAR OFFSET TOWARD LOT 145. REFER TO NOTE 16. |
| 34 | LP12714729 | | | INSTALL | EARTH | E MEN/PIL | 5085 | | NORMALLY OPEN. PILLAR TO AVOID DRIVEWAYS. REFER TO DETAIL A. |
| 34 | LP12714729 | | | INSTALL | PILLAR | LV PL2/6S/240 | 5042 | | |
| 35 | 12714730 | | | INSTALL | PILLAR | LV PN2/6/240 | 5026 | | INSTALL PILLAR OFFSET TOWARD LOT 131. REFER TO NOTE 16. |
| 36 | 12714731 | | | INSTALL | PILLAR | LV PN2/6/240 | 5026 | | INSTALL PILLAR OFFSET TOWARD LOT 133. REFER TO NOTE 16. |
| 37 | 12714732 | | | INSTALL | PILLAR | LV PN2/6/240 | 5026 | | INSTALL PILLAR OFFSET TOWARD LOT 135. REFER TO NOTE 16. |
| 38 | 12714733 | | | INSTALL | EARTH | E MEN/PIL | 5085 | | |
| 38 | 12714733 | | | INSTALL | PILLAR | LV PN2/6/240 | 5026 | | INSTALL PILLAR OFFSET TOWARD LOT 137. REFER TO NOTE 16. |
| 39 | 12714734 | | | INSTALL | PILLAR | LV PN3/6/240 | 5027 | | INSTALL PILLAR OFFSET TOWARD LOT 139. REFER TO NOTE 16. |
| 40 | 12714735 | | | INSTALL | PILLAR | LV PN2/6/240 | 5026 | | INSTALL PILLAR OFFSET TOWARD LOT 141. REFER TO NOTE 16. |
| 41 | 12714736 | | | INSTALL | EARTH | E MEN/PIL | 5085 | | |
| 41 | 12714736 | | | INSTALL | PILLAR | LV PN1/6S/240 | 5025 | | INSTALL PILLAR OFFSET TOWARD LOT 142. REFER TO NOTE 16. |
| 110 | 12509139 | | | EXISTING | POLE | | | | |
| 111 | 12714737 | 0.8M FROM BOK | | INSTALL | POLE | SL BPM/75/1 15 CI | 1-6-4-1 & 2 | | INSTALL LIGHT POLE OFFSET 1M TO AVOID DRIVEWAY. REFER TO NOTE 17. |
| 112 | 12714738 | 0.8M FROM BOK | | INSTALL | POLE | SL BPM/75/1 15 CI | 1-6-4-1 & 2 | | REFER TO NOTE 17. |
| 113 | 12714739 | 0.8M FROM BOK | | INSTALL | POLE | SL BPM/75/1 15 CI | 1-6-4-1 & 2 | | INSTALL LIGHT POLE AS DIMENSIONED. REFER TO NOTE 17. |

AS CONSTRUCTED

ON COMPLETION, MARK UP THIS. PRINT CLEARLY WITH ALL FINAL CHANGES AND RETURN TO PROJECT MANAGER.

CHANGES: YES NO

ELECTRICAL CONTRACTOR

NAME: iLEC Solutions

SIGNATURE: Phil Young

DATE: 13/08/25

CIVIL CONTRACTOR

NAME: BMD Constructions

SIGNATURE: Anthony Burke

DATE: 24/07/25

| | | | CLIENT: URBEX PTY LTD | PO BOX 6008, TOWNSVILLE, QLD. 4810 Ph 07 4750 7000 Fax | SPa consulting engineers | TRENCH SECTIONS-LEGEND | LEGEND | | Drawing Title | Date | OCTOBER 2024 |
|------|----------|------------------|--------------------------|--|-----------------------------|------------------------|--------|--|---|--|--------------|
| B | 15/08/25 | AS CONSTRUCTED | | | | | | | THE RESERVE STAGE 15C UDC UG ELECTRICAL RETICULATION CONDUIT SCHEMATIC, CONDUIT & CONSTRUCTION SCHEDULE. | Scale | N.T.S |
| A | 9/12/24 | FOR CONSTRUCTION | | | | | | | Project Description THE RESERVE, BOHLE PLAINS | Drawn | SW |
| Code | Date | Description | Revised | PO BOX 6008, TOWNSVILLE, QLD. 4810 Email Address - admin@spaconsulting.com.au A business unit of SPA Consulting Engineers (QLD) Pty Ltd a.s.n. 91 010 844 416 | Fax | | | | Project Description THE RESERVE, BOHLE PLAINS | RPEO Design Certification Michael Dayot 29435 | <i>Dayot</i> |
| | | | | | | | | | Sheet | 3 of 3 | |
| | | | | | | | | | ERGON Project Number | SPA Drawing Number | Revision |
| | | | | | | | | | 1796281 | 3398-E03 | B |