












LEGEND

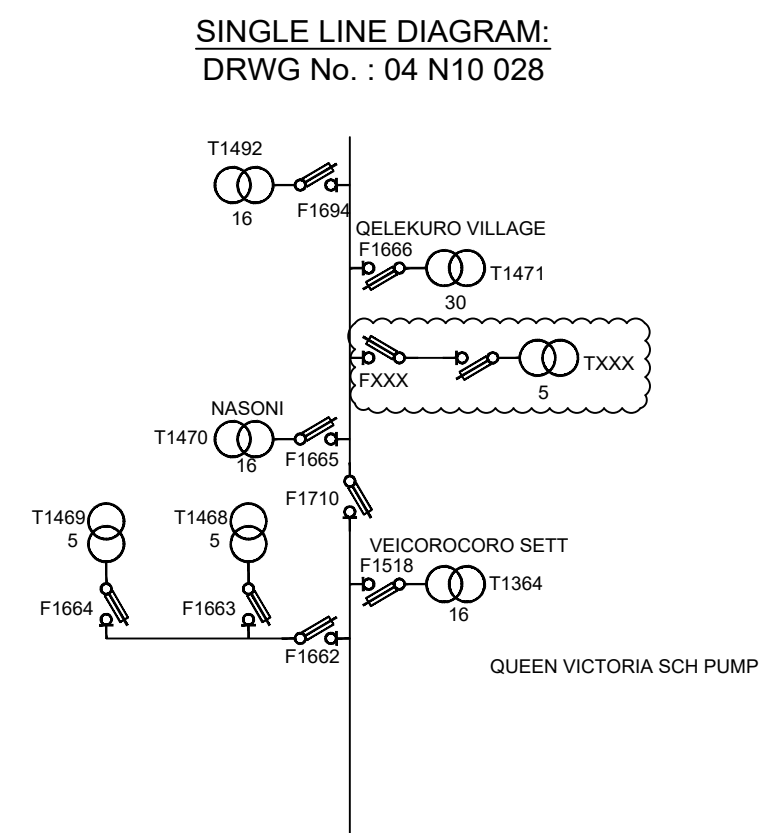
- LV POLE
- HV POLE
- HV & LV POLE
- ⊙ PROP. POLE MOUNTED TRANSFORMER
- ▲ EXIST. POLE MOUNTED TRANSFORMER
- EXISTING O/H CONDUCTOR
- - - PROPOSED O/H CONDUCTOR
- ├ GROUND STAY
- └ FLY STAY

LEGEND - LV CIRCUIT

- | | |
|---|--|
|  | PROP. TRANSFORMER |
|  | LV POLES ONLY |
|  | TERMINATION POINT |
|  | BRIDGING POINT |
|  | STRAIN POINT |
|  | STRING 2 x 7/3.75AAAC HELIUM CONDUCTOR |
| | <u>TOTAL ROUTE LENGTH = 155m</u> |

LEGEND - HV CIRCUIT

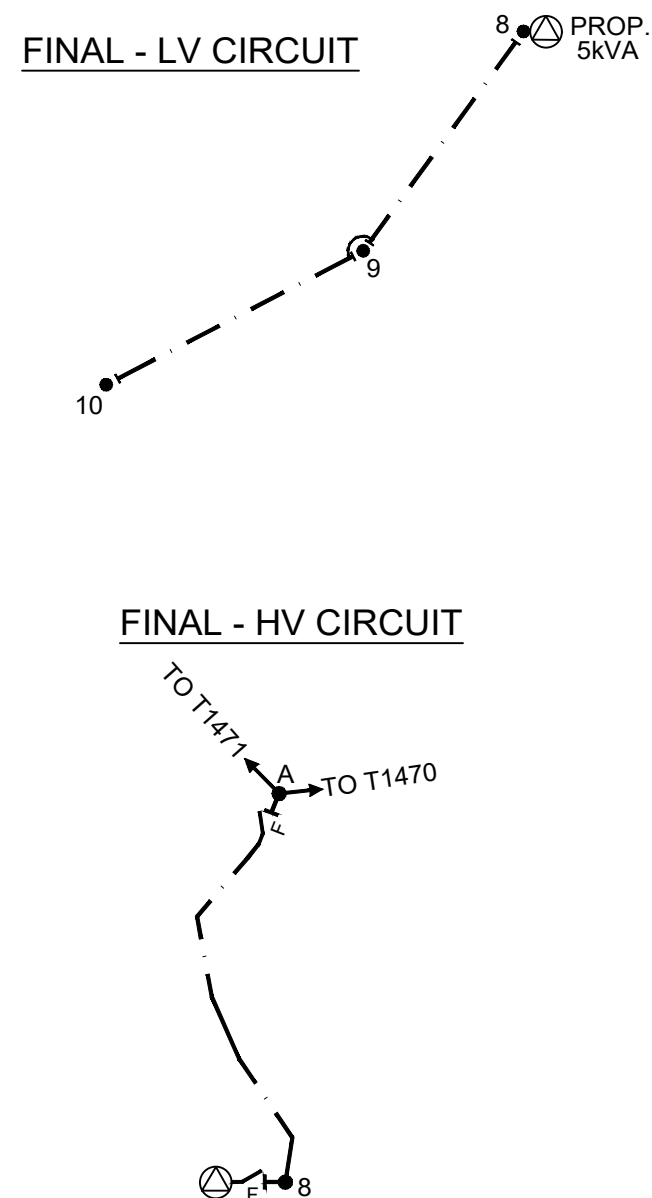
- HV POLE
 -  EXIST. POLE MOUNTED TRANSFORMER
 -  PROP. POLE MOUNTED TRANSFORMER
 -  DROP OUT FUSE
 -  EXISTING O/H CONDUCTOR
 -  STRING 2 x 7/3.75AAAC HELIUM CONDUCTOR.
- TOTAL ROUTE LENGTH = 485m



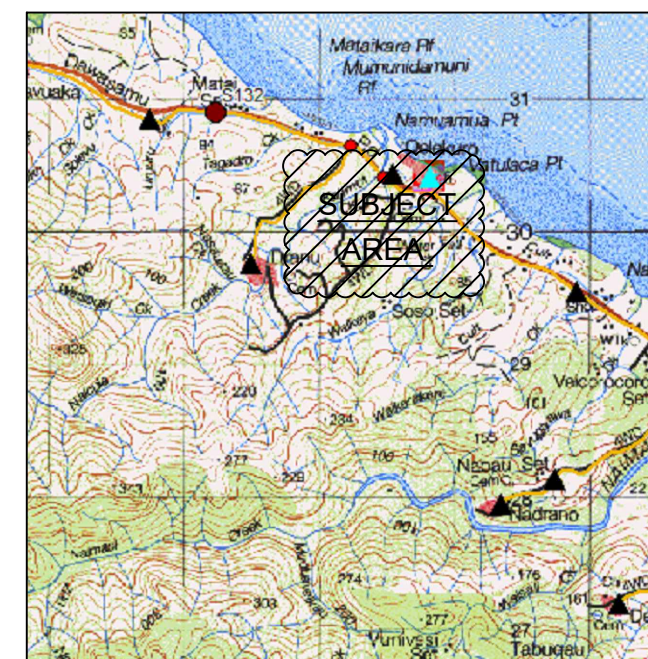
SINGLE LINE DIAGRAM:
DRWG No. : 04 N10 028

SCOPE OF WORK:

1. SUPPLY, INSTALL AND COMMISSION 9 x 10.2m CONCRETE POLES AT LOCATIONS MARKED 1,2,3,4,5,6,7,9 & 10 AND 1 x 11m CONCRETE POLE AT LOCATION MARKED 8 C/W DRESSINGS AND STAY WHERE REQUIRED.
2. SUPPLY,INSTALL AND COMMISSION 1 ϕ HV HELIUM CONDUCTOR FROM EXISTING POLE MARKED 'A' THROUGH TO '8' WITH 1 ϕ LV CONDUCTOR FROM POLE MARKED '8' TO '10'.
3. SUPPLY, INSTALL AND COMMISSION 1 x 5kVA POLE MOUNT TRANSFORMER ON POLE LOCATION MARKED 8.
4. CARRY OUT VEGETATION MANAGEMENT (PRUNE AND CUT TREES) ALONG THE PROPOSED ROUTE.



LOCALITY PLAN



| POLE SCHEDULE | | | | | | | | | |
|---------------|--|---|-------------|--------------------------------------|------------------|-------|-----|---------------|------------------|
| POLE NO | POLE DESCRIPTI ON (WOOD, CONC OR EXISTING | POLE LENGTH & STRENGT H (m/kN) | SPAN (m) | ANGLE OF LINE DEVIATION (°) | POLE DRESSING | STAYS | | | REMARKS |
| | | | | | | GRND | FLY | GRND & FLY | |
| A | EXIST. | - | - | - | EXIST+18A | | | | INSTALL DOF |
| 1 | CONC. | 10.2/6 | 25 | 25 | 14A | 1 | | | STRING 1φ HV ONL |
| 2 | " | " | 50 | 16 | 14A | 1 | | | " |
| 3 | " | " | 90 | 40 | 14A | 1 | | | " |
| 4 | " | " | 90 | 14 | 12A | | 1 | | " |
| 5 | " | " | 75 | 13 | 11A | | | | " |
| 6 | " | " | 55 | 7 | 11A | | | | " |
| 7 | " | " | 50 | 39 | 14A | 1 | | | " |
| 8 | " | " | 50 | 27 | 13A+3A+REM | 1 | | | INSTALL 5kVA TXF |
| 9 | " | " | 75 | 26 | 4A | | | | STRING 1φ LV ONL |
| 10 | " | " | 80 | 0 | 3A | 1 | | | " |

| | | | | | | | | | | | | | | | | | | | |
|-----|----------------|--|----------|----|-----|-----|-----------|-----|--------------|---|-------|-------------------|--------------------|----------------------------|----------------|------------------------|--|--|----------|
| | | | | | | | REFERENCE | | |  | DRAWN | SHANE | 23.11.17 | FIJI ELECTRICITY AUTHORITY | | | | | |
| | | | | | | | | | | | | CHECKED | <i>[Signature]</i> | | | | | | 28.11.17 |
| | | | | | | | | | | | | CHIEF DRAUGHTSMAN | <i>[Signature]</i> | 28.11.17 | DRAWING NUMBER | | | | |
| | | | | | | | | | | | | TEAM LEADER | <i>[Signature]</i> | 29.11.17 | | | | | A2 |
| 0 | ORIGINAL ISSUE | | 23.11.17 | SK | | | | | CAD FILENAME | | | | ENGINEER | | | DAWASAMU AREA(K006-15) | | | |
| No. | REVISION | | DATE | BY | CHK | PSD | | APP | DRAWING No. | | TITLE | | HEAD OF DEPARTMENT | <i>K. Prasad</i> | 6/12/17 | | | | |