**Appendix B**

**Main Incoming 27.6 KV Switchgear**

|  |  |  |
| --- | --- | --- |
| **Cell Number** | **Description** | **Note/Location** |
| 1 | Incoming 27.6kV |  |
| 2 | Meter Cabinet |  |

**Main Vista Switch**

|  |  |  |
| --- | --- | --- |
| **Way** | **Description** | **Note/Location** |
| 1 | From Transfer Switch |  |
| 2 | To North Service building (cell #4) |  |
| 3 | To Polar Bear Switch |  |
| 4 | Spare |  |
| 5 | Spare |  |

**Administration Building**

|  |  |  |
| --- | --- | --- |
| **Cell Number** | **Description** | **Note/Location** |
| 1 | Service building to Americas Pavilion loop feeder |  |
| 2A | Eurasia Paddock feeder | Feeds T26 & Submersible 27, 28 & 23 |
| 2B | Americas Paddock feeder | Feeds Submersible 29, 1 & 2 |
| 3 | North Service building transformer | Feeds T1 |
| 4 | From main outdoor switchgear |  |
|  | K-Bar Unit | For Outdoor Holding |
|  |  |  |
|  | **Low Voltage Switchboards** |  |
|  | * SWBD-AAA | High Voltage Room |
|  | * SWBD-BBB | Penthouse |
|  | * DP-NAA | High Voltage Room |
|  | * DP-NBB | Shipping/Receiving |
|  | * DP-NCC | Bell Telephone Room |
|  | * DP-NDD | Commissary |
|  | * DP-NEA | Generator Room |
|  | * MCC-1A | Boiler Room |
|  | * MCC-1AE | Boiler Room |
|  | * RP-PHRA | Penthouse |
|  | * DP-SAA | South Service 1st Floor Electrical room |
|  | * DP-SBB | South Service 1st Floor Electrical room |
|  | * DP-SEA | South Service 1st Floor Electrical room |
|  | * PP-WHC-AAA | South Service 1st Floor Electrical room |
|  | * PP-WHC-BBB | South Service 3rd Floor Electrical room |
|  | * PP-WHC-AA | South Service 1st Floor Electrical room |
|  | * PP-WHC-EAA | South Service 1st Floor Electrical room |
|  |  |  |
|  | **Dry Core Transformers** |  |
| T1 | North Service building transformer | Main electrical room |
| T3 | Transit garage | Material Storage room |
| T5 | Transformer room | Shipping/Receiving |
| T6 | Main Electrical room | Main electrical room |
| T7 | Generator transfer switch | General maintenance area |
| T8 | Penthouse | 3rd Floor |
| T9 | Bell telephone room | Basement |
| T10 | South Service | Electrical room |
|  | South Service | Electrical room (outside) |
|  | Elevator Room | Basement |
|  | Transit/Bendix Garage | Compressor room |

**Americas Pavilion**

|  |  |  |
| --- | --- | --- |
| **Cell Number** | **Description** | **Note/Location** |
| 1 | Americas Pavilion to North Service building loop feeder |  |
| 2 | Loop feeder Americas Pavilion to Way #1 at Watusi vista switch |  |
| 3 | Paddock feeder | Feeds T32 |
| 4 | Building transformer | Feeds T5 |
|  |  |  |
|  | **Low Voltage Switchboards** |  |
|  | * SWBD | High Voltage room |
|  | * DP-NA | High Voltage room |
|  | * DP-NB | Mechanical room |
|  | * DP-NE | High Voltage room |
|  | * DP-7AA (from T32) | Polar Bear Mechanical room (underwater) |

**Watusi Vista Switch**

|  |  |  |
| --- | --- | --- |
| **Way** | **Description** | **Note/Location** |
| 1 | From Americas Pavilion (cell #2) |  |
| 2 | To Africa Pavilion (cell #3) |  |
| 3 | Paddock feeder | Feeds Submersible 34, 12, 35, Weston Station & K-Bar |
| 4 | Spare |  |
|  |  |  |
|  | **Low Voltage Switchboards** |  |
|  | * DP-MA (from Sub. 12) | Madagascar Snack Bar |

**Weston Station**

|  |  |  |
| --- | --- | --- |
|  | **Description** |  |
|  | Weston Station Switch |  |
|  | Pad mount transformer |  |
|  |  |  |
|  | **Low Voltage Switchboards** |  |
|  | * SWBD | Weston Station |

**Africa Pavilion**

|  |  |  |
| --- | --- | --- |
| **Cell Number** | **Description** | **Note/Location** |
| 1 | Africa Pavilion to Indo-Malaya Vista Switch loop feeder WAY # 1 |  |
| 2 | Paddock Feeder | Feeds T-39, 11, 11A & Submersible 8, 10 & 31 |
| 3 | Africa Pavilion to Americas Pavilion loop feeder (cell #2) | Through the Watusi Vista switch Way 2 |
| 4 | Building Transformer | Feeds T6 |
|  |  |  |
|  | **Low Voltage Switchboards** |  |
|  | * SWBD | High Voltage room |
|  | * DP-AE | High Voltage room |
|  | * DP-AA | High Voltage room |
|  | * DP-BB | High Voltage room |
|  | * DP-CC | High Voltage room |
|  | * MCC-A1 | Mechanical room (basement) |
|  | * DP-11AA (from T11A) | Hyena House |
|  | * DP-10AA (from Sub. 10) | Penguin Mechanical room (underwater) |

**Indo-Malaya Vista Switch**

|  |  |  |
| --- | --- | --- |
| **Way** | **Description** | **Notes/Location** |
| 1 | Indo-Malaya vista switch to Africa Pavilion loop feeder (cell #1) |  |
| 2 | Indo-Malaya vista switch to Membership Vista switch (way #1) |  |
| 3 | Sumatran Tiger pad mount transformer |  |
| 4 | Indo-Malaya pad mount transformer | Feeds T2 (Indo-Malaya Pavilion) |
| 5 | Hippo House pad mount (#13) & Giraffe House pad mount (#13A) |  |
| 6 | African Savannah restaurant pad mount |  |
|  |  |  |
|  | **Low Voltage Switchboards** |  |
|  | DP-SR (from Savannah TX) | Simba Lodge |
|  | DP-13AA (from T13) | Hippo House |

**Indo-Malaya Pavilion**

|  |  |  |
| --- | --- | --- |
|  | **Description** | **Notes/Location** |
|  |  |  |
|  | **Low Voltage Switchboards** |  |
|  | * SWBD | Electrical room (basement) |
|  | * DP-MA | Electrical room (basement) |
|  | * DP-MB | Electrical room (basement) |
|  | * DP-ME | Electrical room (basement) |

**Membership Building & Vista Switch**

|  |  |  |
| --- | --- | --- |
| Way | Description | Notes/Location |
| 1 | Membership Building to Indo-Malaya Vista Switch loop feeder (way #2) |  |
| 2 | Membership Building to Australasia pavilion loop feeder (cell #2) | Through K-bar at Education |
| 3 | Building Transformer | Feeds T7 |
| 4 | Building Transformer | Feeds T8 |
| 5 | Paddock Feeder | Feeds Submersibles 30 & 18 |
| 6 | Spare |  |
|  |  |  |
|  | Low Voltage Switchboards |  |
|  | * DP-T7 | High Voltage room |
|  | * DP-T8 | High Voltage room |
|  | * DP-AAA | Mechanical room (basement) |
|  | * DP-AEA | Mechanical room (basement) |
|  | * DP-MW (from Sub. 30) | Malayan Woods |
|  |  |  |
|  | Dry Core Transformers |  |
|  | Parking lot lighting | High Voltage room |
|  | Membership Boiler room | Mechanical room (basement) |
|  | Peacock Café | Electrical closet |
|  | Exit Gate | Parking lot shed (exit) |
|  | Entrance Gate | Parking lot island (entrance) |
|  | Waterfall Pump Room | Mechanical room (front bridge) |

**Education Building**

|  |  |  |
| --- | --- | --- |
|  | Description | Notes/Location |
|  | Education Switch |  |
|  | Pad mount transformer | Feeds Education |
|  | K-Bar unit |  |
|  |  |  |
|  | Low Voltage Switchboards |  |
|  | * DP- | Electrical room (basement) |
|  | * PP-AA | Mechanical room |
|  | * PP-BB | Mechanical room |

**Australasia Pavilion**

|  |  |  |
| --- | --- | --- |
| **Cell Number** | **Description** | **Notes/Location** |
| 1 | Australasia pavilion to Australasia Vista (way #2) |  |
| 2 | Australasia to membership building Vista loop feeder (way #2) | Through K-bar at Education |
| 3 | Building Transformer | T1 |
| 4B | Paddock Feeder | Feeds T33 & Submersible 20 & 24 |
|  |  |  |
|  | **Low Voltage Switchboards** |  |
|  | * SWBD | High Voltage room |
|  | * DP-UA | High Voltage room |
|  | * DP-DEA (from Sub. 20) | Eurasia Snack Bar |

**Australasia Vista Switch**

|  |  |  |
| --- | --- | --- |
| **Way** | **Description** | **Notes/Location** |
| 1 | From Polar Bear Switch |  |
| 2 | To Australasia Pavilion Cell #1 |  |
| 3 | Feeder to Splash Island & Bard Barn pad mounts |  |
| 4 | Spare |  |

**Polar Bear Switch**

|  |  |  |
| --- | --- | --- |
|  | **Description** | **Notes/Location** |
|  | Polar Bear Switch |  |
|  | Pad Mount Transformer | Feeds Polar Bear House, Beaver Tails, Tim Hortons Express & Retail Store |

**Main Barn**

|  |  |  |
| --- | --- | --- |
|  | **Description** | **Notes/Location** |
|  |  |  |
|  | **Low Voltage Switchboards** |  |
|  | * DP-AAA | Electrical Room |
|  |  |  |
|  | **Dry Core Transformers** |  |
|  | Main Barn | T1 |
|  | Main Barn | T2 |

**Emergency Generator Site**

|  |  |  |
| --- | --- | --- |
|  | **Description** | **Notes/Location** |
|  | Generator Switchboard | Generator Area |
|  | Generator Transformer | Generator Area |
|  | Transfer Switch | Generator Area |

**Appendix C**

|  |  |  |  |
| --- | --- | --- | --- |
| **Submersible Transformers** | | | |
| **Vault Number** | **Location** | **# of Transformers** | **Fed From** |
| 1 | Tundra Reindeer | 1 | Cell 2B North Service through k-bar at Tundra Reindeer |
| 2 | Mayan Temple | 1 | Reindeer Transformer Vault 1 |
| 10 | Penguin Mechanical Room | 3 | T-39 Rhino/Hoofstock |
| 12 | Madagascar Washroom | 2 | Vault 34 Africa Pump Station through k-bar |
| 18 | Indian Rhino | 1 | T-Splice from Malayan Woods Vault 30 |
| 20 | Eurasia Snack Bar | 1 | Cell 4B Australasia |
| 23 | Eurasia Reindeer | 1 | Vault 28 Oryx |
| 24 | Pink Palace | 1 | Vault 20 Eurasia Snack Bar |
| 27 | Dhole | 1 | Cell 2A north Service |
| 28 | Oryx | 1 | Vault 27 Dhole House |
| 29 | Outdoor Holding | 1 | Cell 2B North Service through k-bar at Tundra Reindeer |
| 30 | Malayan Woods | 3 | Cell 3 Membership |
| 31 | Africa Restaurant and Penguin Holding | 3 | Cell 2 Africa Pavilion |
| 34 | Africa Pumping Station | 3 | Watusi Vista Switch Way 3 |
| 35 | Racoon House | 3 | Vault 34 Africa Pump Station through k-bar |
|  |  |  |  |
|  | Total | 26 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Pad-Mount Transformers** | | | | |
| **Vault Number** | **Location** | **1 Or 3 Ph.** | **KVA** | **Fed From** |
| 26 | Wisent | 1 | 100 | T Splice off line from Cell 2 North Service |
| 32 | Americas Restaurant | 3 | 225 | Americas Pavilion Cell 3 |
|  | Weston Station | 3 | 225 | Watusi Vista Switch |
| 39 | Bird & Rhino Hoofstock | 3 | 225 | Africa Pavilion Cell 2 |
| 13A | Giraffe House | 3 | 225 | Indo-Malaya Vista Switch Way 6 through Hippo (13) |
| 13 | Hippo House | 3 | 225 | Indo-Malaya Vista Switch Way 6 |
|  | Savannah Restaurant | 3 | 500 | Indo-Malaya Vista Switch Way 5 |
|  | Sumatran Tiger | 1 | 75 | Indo-Malaya Vista Switch Way 3 |
|  | Education | 3 | 300 | Education Switch |
|  | Tundra Air | 3 | 75 | Polar Bear Switch |
|  | Splash Island | 3 | 300 | Australasia Vista Switch Way 3 |
|  | Bird Barn | 3 | 225 | Splash Island Transformer |
| 7 | Polar Bear | 3 | 225 | Polar Bear Switch |
| T2 | Indo-Malaya Pavilion | 3 | 500 | Indo-Malaya Vista Switch Way 4 |
| 11 | Lion House | 1 | 167 | Vault 31 Africa Restaurant |
| 11A | Hyena House | 1 | 100 | Vault 11 Lions |
| 8 | Cheetah & Baboon | 3 | 150 | Vault 10 Penguin Mechanical Room |
| 33 | Snow Leopard & Pumping Station | 1 | 167 | Vault 24 Pink Palace |
|  |  |  |  |  |
|  | Total: 18 |  |  |  |