

Table of Contents: Electric Service Requirements

Table of Contents

General Information

District Service Area Map	R-DSAM
ESR Change Recommendation Form	R-SB
Work Order Drawing Symbols	RD-1
Reference Information	R-REF

Electric Service Requirements

Underground Service: General Requirements	RT-G
Overhead Electric Service: Residential	RR-2
Pole Riser Installation	RR-1

Trenching

Power Trench Sand and Backfill Requirements	RT-1
Trench Sand: Power Type, Approved Suppliers	RT-2
Main Trench Detail: Residential or Commercial	RT-5
Trench: Residential Service Location	RT-6
Trench Detail – Sidewalk, Residential or Commercial	RT-7
Trench Detail – Residential Service	RT-8
Right-of-Way and Staking Requirements: Residential Service	RT-9
Trench Detail: Residential/Commercial	RT-12

Conduit and Cable

Conduit: Material Requirements	RC-1
Conduit: Installation Requirements	RC-2
Conduit Encasement: Concrete Requirements	RC-3
Cable Replacement Requirements (For Maintenance Only)	RC-9
Cable Marking Requirements	RC-10

Concrete Structures: General Requirements

Precast Concrete Structure Requirements	RS-G2
Pads Precast Concrete Structures	RS-G3
Precast Concrete Boxes	RS-G4
Identification Marking: Precast Concrete Structures	RS-G5
Concrete Slabs: Cast-In-Place Structures	RS-G6

Clearances

Clearances to Wood Poles	RS-4
Clearances to Equipment Pad	RS-5
Clearances to Vehicular Protection Barriers	RS-6

				Electric Service Requirements		R-TOC
				Table of Contents: Electric Service Requirements		
Drawn:	Eng:	Appr:	Date:			Revision: 2
DH	ME	DA	05/14/09			Page 1 of 4

Table of Contents: Electric Service Requirements

Equipment Pads

12kV Capacitor Bank Pad Placement: Adjacent to Sidewalk.....	RS-7
25kV Capacitor Bank Pad Placement: Adjacent to Sidewalk.....	RS-8
Residential Transformer Pad: One 1 Ph, 12 or 25kV, Phase to Neutral.....	RS-13
Residential Transformer Pad: Two 1 Ph, 12 or 25kV, Phase to Neutral.....	RS-14
Secondary Meter Pad: Commercial/Residential, 1 Ph, 12 or 25kV.....	RS-18
Commercial Transformer Pad: One 1 Ph, 12 or 25kV.....	RS-19
Commercial Transformer Pad: Two 1 Ph, 12 or 25kV.....	RS-20
Commercial Transformer Pad: Three 1 Ph, 12 or 25kV.....	RS-21
Residential Transformer Pad: 1 Ph, 12kV, Phase to Phase.....	RS-28
Transformer Pad: 3 Ph, 12/25kV, 75-750KVA.....	RS-35
Transformer Pad: 3 Ph, 12/25kV, 500-2500KVA.....	RS-37
Transformer Pad: 3 Ph, 12kV to 4kV Step Down.....	RS-40
Transformer Pad: 3 Ph, 25kV to 12kV Step Down.....	RS-41
Cabinet Pad: Fuse, 15kV.....	RS-45
Cabinet Pad: Fuse/Meter and 12kV Capacitor Bank.....	RS-46
Cabinet Pad: Capacitor Bank, 25kV.....	RS-58
Service Pedestal Pad: Mobile Home.....	RS-70

Vaults and Boxes

Handholes: Secondary Junction.....	RS-1
Handholes: Non-Concrete Structures.....	RS-G1
Splice Box: 30" x 48" x 48".....	RS-80
Regular or Intercept Box: 36" x 72" x 48" (Maintenance Only).....	RS-81
Pull Box: 30" x 84" x 48".....	RS-82
Intercept Pull Box: 72" x 72" x 75".....	RS-83
Intercept Splice Box: 30" x 48" x 48".....	RS-84
Intercept Box: 36" x 84" x 48".....	RS-85
Manhole: Feeder Cable Splice.....	RS-94
Manhole: Switch/Fuse Cabinet, 12 or 25kV.....	RS-97
12kV Manhole Pad: Adjacent to Public R.O.W.....	RS-98
12kV Manhole Pad: Not Adjacent to Public R.O.W.....	RS-99
12kV Manhole Pad and Capacitor Pad: Adjacent to Public R.O.W.....	RS-100
12kV Manhole Pad and Capacitor Pad: Not Adjacent to Public R.O.W.....	RS-101
25kV Manhole Pad: Adjacent to Public R.O.W.....	RS-110
25kV Manhole Pad: Not Adjacent to R.O.W.....	RS-111
25kV Manhole Pad and Capacitor Pad: Adjacent to Public R.O.W.....	RS-112
25kV Manhole Pad and Capacitor Pad: Not Adjacent to Public R.O.W.....	RS-113
Manhole Pad for Switch, Fuse, Meter Cabinet.....	RS-116


				Electric Service Requirements		R-TOC
				Table of Contents: Electric Service Requirements		
Drawn:	Eng:	Appr:	Date:	Revision: 2 Page 2 of 4		
DH	ME	DA	05/14/09			

Table of Contents: Electric Service Requirements

Metering Equipment: Installation Requirements

Metering and Service Installation: General RequirementsRPI-G
 Temporary Service Installation: 120/240 Volt, Single Phase, U.G..... RPI-1
 Single Family Residential Meter Location RPI-2
 Temporary Panel Stand..... RPI-3
 Service Panels..... RPI-8 through 13
 Current Transformer Cabinets..... RPI-14
 Service Panel Risers RPI-23 and 24
 Typical Meter Arrangement RPI-28
 Instrument Transformer Cabinet w/Panel & Test Switch RPI-30

Metering Equipment: Material Requirements

General Requirements: Metering and Service InstallationRPM-G
 NVE Approved EUSERC Drawings..... RPM-EUSERC
 Single Phase Pedestal RPM-A
 Service Panels..... RPM-1 through 5
 Self-Contained Meters Installed In Switchboards: 0-200 Amps RPM-6
 Service Pedestals..... RPM-7 and RPM-8
 Test Bypass/Disconnect Block for Safety Sockets..... RPM-11 and 12
 Combination CT Cabinet & Meter Socket Panels RPM-13 and 14
 Combination Disconnecting Device & Terminating Enclosure: 1200 Amps..... RPM-15
 Current Transformer Cabinets..... RPM-16 through 18
 Instrument Transformer Compartment for Switchboards RPM-19 through 24
 Switchboard Service Sections RPM-25 through 27
 Current Transformer Mounting Bases RPM-28 and 29
 Removable Link & Ct Support for Instrument Trans. Com..... RPM-30 and 31
 Hinged Meter Panels RPM-32 and 33
 Instrument Rated Meter Panel with Test Switch Provisions..... RPM-39
 Combo Terminating Enclosure/Multi Meter1Ø, 3 Wire, 600A Max RPM-42
 Underground Service Termination Sections..... RPM-43 through 47
 Residential Multiple Metering Sections RPM-53
 Outdoor Raintight Enclosure for Switchboards RPM-54
 High Voltage Metering and Service Equipment..... RPM-401 through 414

Engineering Requirements

Adjacent to Public Right of Way RE-01
 Not Adjacent to Public Right of Way RE-02
 Net Metering Systems RE-03
 Bridge and Overpass Conduit Support System Guidelines RE-05
 Equipment Room Requirements RE-04


				Electric Service Requirements		R-TOC
				Table of Contents: Electric Service Requirements		
Drawn:	Eng:	Appr:	Date:	Revision: 2 Page 3 of 4		
DH	ME	DA	05/14/09			

Table of Contents: Electric Service Requirements

THIS PAGE INTENTIONALLY LEFT BLANK

 NVEnergy.				Electric Service Requirements		R-TOC
				Table of Contents: Electric Service Requirements		
Drawn:	Eng:	Appr:	Date:			Revision: 2
DH	ME	DA	05/14/09			Page 4 of 4