

# Engineering Service Specifications

## Table of Contents

<b>Commercial Service Requirements - Cross Reference Table .....</b>	<b>CSR-CRT1-11</b>
 <b><u>Commercial Service Requirements</u></b>	
SLEMCO Commercial Service Order Procedure .....	39
Applicability of SLEMCO's Commercial Service Entrance Requirements .....	40
Conductor Sizes for Commercial Service Entrances .....	41
 <b><u>Commercial Transformer Foundation Details</u></b>	
Three-Phase Padmount Transformer Foundation - <i>Drawing No. 14</i> .....	42
Transformer Foundations Dimensions Table .....	43
 <b><u>Commercial Underground Primary Requirements</u></b>	
Specifications for Commercial Underground Primary Requirements .....	44
 <b><u>Commercial Three-Phase Current Transformer Metering Schemes</u></b>	
Specifications for Commercial Underground Current Transformer Metering Requirements for a Single Three-Phase Customer served from a New Underground Padmount Transformer .....	47
Three-Phase Current Transformer Metering Requirements from a new Padmount Transformer for a Single Customer - <i>Drawing No. 15</i> .....	51
Specifications for Commercial Underground Current Transformer Metering Requirements for Multiple Three-Phase Customers served from a New Underground Padmount Transformer .....	52
Three-Phase Current Transformer Metering Requirements from a new Padmount Transformer for Multiple Customers - <i>Drawing No. 16</i> .....	56
Specifications for Commercial Underground Current Transformer Metering Requirements for Multiple Three-Phase Customers served from an Existing Underground Padmount Transformer .....	57
Three-Phase Current Transformer Metering Requirements from an existing Padmount Transformer for Multiple Customers - <i>Drawing No. 17</i> .....	60
Specifications for Commercial Underground Current Transformer Metering Requirements for a Three-Phase Customer served from an Overhead Transformer Bank .....	61
Three-Phase Current Transformer Metering Requirements from an Overhead Source - <i>Drawing No. 18</i> .....	65
Specifications for Commercial Overhead Current Transformer Metering Requirements .....	66
Three-Phase Overhead Current Transformer Metering Requirements - <i>Drawing No. 19</i> .....	69
 <b><u>Commercial Single-Phase Current Transformer Metering Schemes</u></b>	
Specifications for Commercial Underground CT Metering Requirements for a Single-Phase Customer .....	70
Single-Phase CT Metering Requirements from an Existing Padmount Transformer - <i>Drawing No. 9</i> .....	74
Single-Phase CT Metering Requirements from a New Padmount Transformer - <i>Drawing No. 10</i> .....	75
Single-Phase CT Metering Requirements from an Overhead Source - <i>Drawing No. 11</i> .....	76
Specifications for Commercial Overhead CT Metering Requirements for a Single-Phase Customer .....	77
Single-Phase Overhead CT Metering Requirements - <i>Drawing No. 12</i> .....	80
 <b><u>Commercial Three-Phase Metering Schemes (self-contained meter base / no CTs)</u></b>	
Specifications for Commercial Underground Secondary Requirements for Three-Phase Customers .....	81
Three-Phase Underground Service Requirements from a New Padmount Transformer - <i>Drawing No. 20</i> .....	84
Three -Phase Underground Service Requirements from an Existing Padmount Transformer - <i>Drawing No. 21</i> .....	85
Three-Phase Underground Service Requirements from an Overhead Source - <i>Drawing No. 22</i> .....	86
Specifications for Commercial Overhead Service Requirements .....	87
Three-Phase Overhead Service Requirements - <i>Drawing No. 23</i> .....	89

**Engineering Service Specifications**  
**Table of Contents (Cont'd)**

**Commercial Single-Phase Metering Schemes (self-contained meter base / no CTs)**

Specifications for Commercial Underground Secondary Requirements .....90  
Single-Phase Underground Service Requirements from an Existing Padmount Transformer - *Drawing No.2* .....93  
Single-Phase Underground Service Requirements from a New Padmount Transformer - *Drawing No.3*.....94  
Single-Phase Underground Service Requirements from an Overhead Source - *Drawing No.4*.....95

**Commercial Service Requirements for Multiple Occupancy Buildings**

Specifications for Commercial Metering Requirements for Three-Phase Customers within  
Multiple Occupancy Building served from a New Underground Padmount Transformer.....96  
Sample Configuration of Customers within a Multiple Occupancy Building served from  
3-Phase Padmount Transformer - *Drawing No.24* ..... 101

Specifications for Commercial Metering Requirements for Single-Phase Customers within  
Multiple Occupancy Building served from a New Underground Padmount Transformer..... 102  
Sample Configuration of Customers within a Multiple Occupancy Building served from  
1-Phase Padmount Transformer - *Drawing No.25* ..... 108