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Telecommunications
Engineers***

**ENGINEERING COMMITTEE
Interface Practices Subcommittee**

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Graphic Symbols for Cable Systems

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1. Introduction

1.1. Executive Summary

1.1.1. Basic Considerations

The symbols for devices do not indicate types or model numbers of any manufacturer. They represent the function of the device operated within a cable system. The symbols permit easy addition of model or type numbers within or near their outline. If such model or type designations are used, an explanation of these designations should be placed on a legend sheet for the drawing on which the symbols appear.

1.1.2. Proposed Drafting Practices

The orientation of a symbol on a drawing, including a mirror image presentation, does not alter the meaning of the symbol.

Line width does not affect the meaning of a symbol. In specific cases, a wider line may be used for emphasis. Generally, lines must be made sufficiently wide to avoid loss of resolution during photocopy reduction.

Symbols shown in this text are in the approximate correct size and proportion. This relationship should be maintained as nearly as possible on any particular drawing regardless of the symbol scale.

Symbols may be drawn to any proportional size that suits a particular drawing, depending upon reduction or enlargement anticipated. If essential for purposes of contrast, some symbols may be drawn relatively smaller than the other symbols on a drawing. The Standard recommends the use of no more than two sizes on a given drawing.

For simplification or clarification of a drawing, parts of a symbol for devices, such as amplifiers, may be separated. If this is done, suitable designations to show proper correlation of the parts must be provided.

1.2. Scope

The scope of this documentation is to illustrate the symbols recommended for Telecommunication drafting needs. It also provides recommendations for attributes both visible on the drafted map as well as embedded in the symbol when building a database mapping application. This will provide better data capturing and provide a better source of record for internal and external users.

It will provide much better benefit when moving to a mobile solutions to our boundary partners.

With the need for a cleaner and more intuitive maps the data captured is needed in more granular detail of information with embedded attributes or extended symbol attributes which allows for more comprehensive data. Due to the necessary crowding of symbols onto telecommunication system mapping and grid diagrams, some symbols are structured differently than those used in electrical and electronic diagrams

1.3. Benefits

The need for this is to provide a much better view at the system drafted maps and provide the designers and drafters a consistent input. This will support when developing a Rulebook for their drafting application that would assist in developing drafting standards and rules.

The benefit using this will assistance to make better engineering decisions, help with reports and easier to make transitions into other tools that rely on consistence data integrity. It also provides the benefit to make the data more consistence across the industry.

The benefits for this are long term this is a living and growing document. It will constantly grow and change but the core symbols and fundamentals are mostly consistence, attribute could change more often which would help streamline data input and improve reporting and decision planning.

The benefit for this on the industry would help align all companies with more consistency, support job sharing with Design and Drafting within markets, aid the field technicians both locally and when traveling to another market and this will help with joining forces when companies need to come together and provide tie points for national backbone connections

1.4. Intended Audience

The intended audience initially for this would be for the Design & Drafting then all Field personnel with a mobile mapping viewer (or plotted maps when needed), Business Services, Dispatch, Network Operation Centers, as the data is captured and consistently placed the more need for other departments will rely on this data.

1.5. Areas for Further Investigation or to be Added in Future Versions

Areas that will need to be further investigated would be the attribute needed or required for each symbol. As newer technology is introduced we will need to update the type of symbols and attributes required.

2. Normative References

The following documents contain provisions, which, through reference in this text, constitute provisions of this document. At the time of Subcommittee approval, the editions indicated were valid. All documents are subject to revision; and while parties to any agreement based on this document are encouraged to investigate the possibility of applying the most recent editions of the documents listed below, they are reminded that newer editions of those documents might not be compatible with the referenced version.

2.1. SCTE References

- No informative references are applicable.

2.2. Standards from Other Organizations

- No normative references are applicable.

2.3. Published Materials

- No normative references are applicable.

3. Informative References

The following documents might provide valuable information to the reader but are not required when complying with this document.

- No normative references are applicable.

3.1. SCTE References

- No informative references are applicable.

3.2. Standards from Other Organizations

- No informative references are applicable.

3.3. Published Materials

- No informative references are applicable.

4. Compliance Notation

<i>shall</i>	This word or the adjective “ <i>required</i> ” means that the item is an absolute requirement of this document.
<i>shall not</i>	This phrase means that the item is an absolute prohibition of this document.
<i>forbidden</i>	This word means the value specified shall never be used.
<i>should</i>	This word or the adjective “ <i>recommended</i> ” means that there may exist valid reasons in particular circumstances to ignore this item, but the full implications should be understood and the case carefully weighted before choosing a different course.
<i>should not</i>	This phrase means that there may exist valid reasons in particular circumstances when the listed behavior is acceptable or even useful, but the full implications should be understood and the case carefully weighed before implementing any behavior described with this label.
<i>may</i>	This word or the adjective “ <i>optional</i> ” means that this item is truly optional. One vendor may choose to include the item because a particular marketplace requires it or because it enhances the product, for example; another vendor may omit the same item.
<i>deprecated</i>	Use is permissible for legacy purposes only. Deprecated features may be removed from future versions of this document. Implementations should avoid use of deprecated features.

5. Abbreviations and Definitions

5.1. Abbreviations

Aer	Aerial
Amp	Amplifier
APC	Angled Physical Contact
BNC	Bayonet Neill–Concelman
Cab	Cabinet
CB	(Cox) Business Customer
CLLI	Common Language Location Identifier
CPE	Customer Premise Equipment
dB	Decibel
EDFA	Erbium-Doped Fiber Amplifier
EMT	Electric Metallic Tube
Ftg	Footage


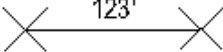
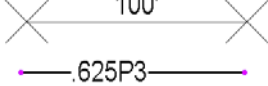
FTTX	Fiber To The X (Service Area)
GHz	Gigahertz
GIG	Gigabit
ITU	International Telecommunication Union
km	Kilometer
LCP	Local Convergence Point
m	Meter
MDU	Multiple Dwelling Unit
mi	Mile
MN	Micro Node
NAP	Network Access Point
NE	Network Element Name
NIU	Network Interface Unit
OCC	Optical Cross Connect
ODN	Optical Distribution Network
OLT	Optical Line Terminal
ONU	Optical Network Unit
OTE	Optical Terminal Enclosure
OTN	Optical Transition Node
PON	Passive Only Network
PS	Power Supply
RC	Reverse Conditioner
Regen	Regeneration
Resi	Residential Customer
RF	Radio Frequency
RFOG	RF Over Glass
RME	Rack Mounted Equipment
RX	Receive Transmitter
SC	Snap in Connector
SCTE	Society of Cable Telecommunications Engineers
TA	Terminal Access
TE	Terminal Enclosure
Telco	Telecommunication
TX	Transmitter
U/G	Underground
UPC	Ultra Physical Contact
WiFi	Wireless Device


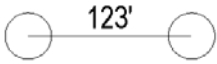
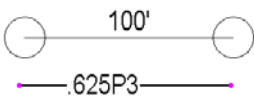
5.2. Definitions


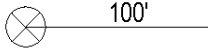
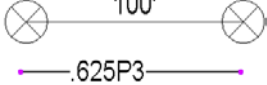
Poles	To support Aerial Route Network
Underground Route	Show where underground routing is located
Pedestals/Vaults	Underground structures to house equipment
Guys/Anchors	Helps support and guide the Aerial Route Network
Riser	Displays where Aerial to Underground transitions
Conduit	Tubing that is placed to housed and protect the network
Amplifier	Amplifies the RF signal in the network
Splitter/Coupler	A device to divide a single line network into two or three
Optical Node	A device to receive lightwaves and convert to RF



Channel Inserter	A device to remove a certain channel and insert local channel
Optical Splitter	A device to divide a single line network into two to many
Rack Mounted Equipment (RME)	Used to display the connects from the Inside network to the field network






6. Pole Types

1. Power Pole	Object	Example	Drafted Example
			
<p>Power Pole Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Type • Owner • Cox Pole Tag Number • Power Pole Tag • Telco Pole Tag • Attachments • Drop pole • Extension Arm • Ground Status • Ground Type • Material Type • Pole Config. Type • Latitude • Longitude • Mountable? Example - True/False - To place a WiFi or Small Cell Device • Location Number • Grid Number • Date Installed • Application Number 			
<p>Alternative Symbols:</p>			


2. Telephone Pole	Object	Example	Drafted Example
			
Telephone Pole Attributes:			
<ul style="list-style-type: none"> • Construction Status • Type • Owner • Cox Pole Tag Number • Power Pole Tag • Telco Pole Tag • Attachments • Drop pole • Extension Arm • Ground Status • Ground Type • Material Type • Pole Config. Type • Latitude • Longitude • Mountable? • Location Number • Grid Number • Date Installed • Application Number 	<p>Example - True/False - To place a WiFi or Small Cell Device</p>		
Alternative Symbols:			


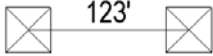
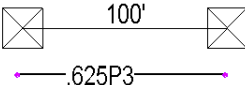
3. Joint Use Pole (Power and Telephone)	Object	Example	Drafted Example
			
Joint Pole Attributes:			
<ul style="list-style-type: none"> • Construction Status • Type • Owner • Cox Pole Tag Number • Power Pole Tag • Telco Pole Tag • Attachments • Drop pole • Extension Arm • Ground Status • Ground Type • Material Type • Pole Config. Type • Latitude • Longitude • Mountable? • Location Number • Grid Number • Date Installed • Application Number 			
		Example - True/False - To place a WiFi or Small Cell Device	
Alternative Symbols:			

4. Cable System Pole	Object	Example	Drafted Example
		123'	100'
Cable Pole Attributes:			
<ul style="list-style-type: none"> • Construction Status • Type • Owner • Cox Pole Tag Number • Power Pole Tag • Telco Pole Tag • Attachments • Drop pole • Extension Arm • Ground Status • Ground Type • Material Type • Pole Config. Type • Latitude • Longitude • Mountable? • Location Number • Grid Number • Date Installed • Application Number 	Example - True/False - To place a WiFi or Small Cell Device		
Alternative Symbols:			

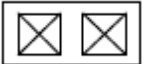
5. Concrete Pole	Object	Example	Drafted Example
		 123' 	 100'  .625P3
Concrete Pole Attributes:			
<ul style="list-style-type: none"> • Construction Status • Type • Owner • Cox Pole Tag Number • Power Pole Tag • Telco Pole Tag • Attachments • Drop pole • Extension Arm • Ground Status • Ground Type • Material Type • Pole Config. Type • Latitude • Longitude • Mountable? • Location Number • Grid Number • Date Installed • Application Number 	Example - True/False - To place a WiFi or Small Cell Device		
Alternative Symbols:			


6. Steel Pole	Object	Example	Drafted Example
Steel Pole Attributes:			
<ul style="list-style-type: none"> • Construction Status • Type • Owner • Cox Pole Tag Number • Power Pole Tag • Telco Pole Tag • Attachments • Drop pole • Extension Arm • Ground Status • Ground Type • Material Type • Pole Config. Type • Latitude • Longitude • Mountable? • Location Number • Grid Number • Date Installed • Application Number 	Example - True/False - To place a WiFi or Small Cell Device		
Alternative Symbols:			

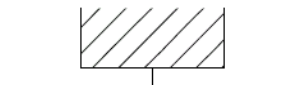
7. Fiber Reinforced Pole	Object	Example	Drafted Example
<p data-bbox="651 247 727 310"></p> <p data-bbox="191 394 602 424">Fiber Reinforced Pole Attributes:</p> <ul data-bbox="285 436 586 1220" style="list-style-type: none"> • Construction Status • Type • Owner • Cox Pole Tag Number • Power Pole Tag • Telco Pole Tag • Attachments • Drop pole • Extension Arm • Ground Status • Ground Type • Material Type • Pole Config. Type • Latitude • Longitude • Mountable? • Location Number • Grid Number • Date Installed • Application Number 			<p data-bbox="630 1031 1273 1060">Example - True/False - To place a WiFi or Small Cell Device</p>
<p data-bbox="191 1268 456 1297">Alternative Symbols:</p>			


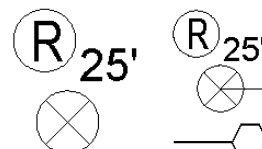
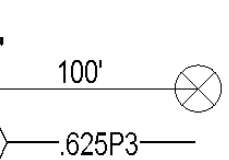

8. Power Transformer Pole	Object	Example	Drafted Example
			
Power Transformer Pole Attributes:			
<ul style="list-style-type: none"> • Construction Status • Type • Owner • Cox Pole Tag Number • Power Pole Tag • Telco Pole Tag • Attachments • Drop pole • Extension Arm • Ground Status • Ground Type • Material Type • Pole Config. Type • Latitude • Longitude • Mountable? Example - True/False - To place a WiFi or Small Cell Device • Location Number • Grid Number • Date Installed • Application Number 			
Alternative Symbols:			



9. Joint Use With Power Transformer Pole	Object	Example	Drafted Example
Joint Use With Power Transformer Pole Attributes:			
<ul style="list-style-type: none"> • Construction Status • Type • Owner • Cox Pole Tag Number • Power Pole Tag • Telco Pole Tag • Attachments • Drop pole • Extension Arm • Ground Status • Ground Type • Material Type • Pole Config. Type • Latitude • Longitude • Mountable? Example - True/False - To place a WiFi or Small Cell Device • Location Number • Grid Number • Date Installed • Application Number 			
Alternative Symbols:			

10. Power Transformer Platform	Object	Example	Drafted Example
			
Power transformer Platform Attributes:			
<ul style="list-style-type: none"> • Construction Status • Type • Owner • Cox Pole Tag Number • Power Pole Tag • Telco Pole Tag • Attachments • Drop pole • Extension Arm • Ground Status • Ground Type • Material Type • Pole Config. Type • Latitude • Longitude • Mountable? Example - True/False - To place a WiFi or Small Cell Device • Location Number • Grid Number • Date Installed • Application Number 			
Alternative Symbols:			



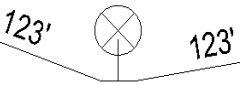
11. Transmission Line Contact	Object	Example	Drafted Example
			
Transmission Line Contact Attributes:			
<ul style="list-style-type: none"> • Construction Status • Type • Owner • Cox Pole Tag Number • Power Pole Tag • Telco Pole Tag • Attachments • Drop pole • Extension Arm • Ground Status • Ground Type • Material Type • Pole Config. Type • Latitude • Longitude • Mountable? Example - True/False - To place a WiFi or Small Cell Device • Location Number • Grid Number • Date Installed • Application Number 			
Alternative Symbols:			

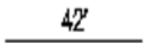
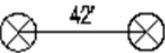
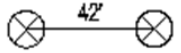
12. Other Support Type Structures	Object	Example	Drafted Example
<p>Other Support Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Type • Owner • Cox Pole Tag Number • Power Pole Tag • Telco Pole Tag • Attachments • Drop pole • Extension Arm • Ground Status • Ground Type • Material Type • Pole Config. Type • Latitude • Longitude • Mountable? Example - True/False - To place a WiFi or Small Cell Device • Location Number • Grid Number • Date Installed • Application Number 			
<p>Alternative Symbols:</p>			

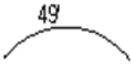
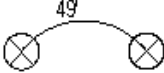
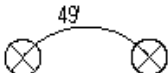
13. Riser Pole With Footage	Object	Example	Drafted Example
<p>Riser Pole Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Height 			
<p>Alternative Symbols:</p>			


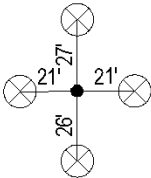
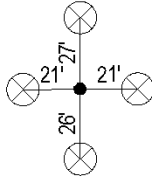
14. Drop Pole	Object	Example	Drafted Example
<p>Drop Pole Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Type • Owner • Cox Pole Tag Number • Power Pole Tag • Telco Pole Tag • Attachments • Drop pole • Extension Arm • Ground Status • Ground Type • Material Type • Pole Config. Type • Latitude • Longitude • Mountable? • Location Number • Grid Number • Date Installed • Application Number 	<p>DP</p> 	<p>Example - True/False - To place a WiFi or Small Cell Device</p>	
<p>Alternative Symbols:</p>			
<p>NOTES:</p> <p>In this section, riser and drop poles are shown as joint use because this occurs most frequently.</p> <p>Unless otherwise specified, the standard considers wooden poles.</p> <p>The Standard states that unless otherwise specified on drawings or referenced documents, pole usage and ownership are the same. For modification, a designation may be shown adjacent to the pole symbol.</p>			

7. Cable Support Elements

1. Extension Arm (Telecommunication Industry)	Object	Example	Drafted Example
<p>Extension Arm Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Specification • Size • Type/Material • Model # • Manufacture (This could be tracked by Spec) 			
Alternative Symbols:			



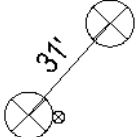
2. Tension Strand (Aerial Strand Route)	Object	Example	Drafted Example
<p>Tension Strand Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Measure Length • Calculated Length • Drop Route? • Guy Type • Current Tension • Strand Size • Grounded 			
Alternative Symbols:			


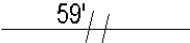
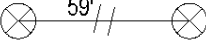
3. Slack Span	Object	Example	Drafted Example
			
<p>Slack Span Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Measure Length • Calculated Length • Strand Size 			
<p>Alternative Symbols:</p>			



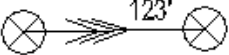

4. Mid Span Crossover	Object	Example	Drafted Example
			
<p>Mid Span Crossover Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Type 			
<p>Alternative Symbols:</p>			

Note: In this section, Poles are shown as Joint because this occurs most frequently

8. Anchoring and Guying

1. Push Brace	Object	Example	Drafted Example
			
<p>Push Brace Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Type • Size • Material <p>Alternative Symbols:</p>			


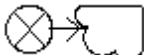
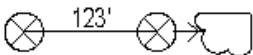

2. OverHead Guy	Object	Example	Drafted Example
			
<p>OverHead Guy Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Type <p>Alternative Symbols:</p>			


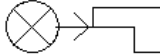
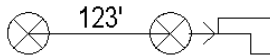

3. Pole to Pole Guy	Object	Example	Drafted Example
			
<p>Pole to Pole Guy Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Type <p>Alternative Symbols:</p>			
			


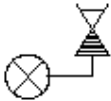
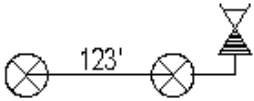


4. Down Guy With Anchor	Object	Example	Drafted Example
Down Guy With Anchor Attributes:			
<ul style="list-style-type: none"> • Construction Status • Type 			
Alternative Symbols:			


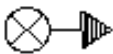
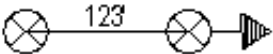
5. Side Walk Down Guy with Anchor - Existing	Object	Example	Drafted Example
Side Walk Down Guy with Anchor Attributes:			
<ul style="list-style-type: none"> • Construction Status • Type 			
Alternative Symbols:			

6. Tree Guy	Object	Example	Drafted Example
Tree Guy Attributes:			
<ul style="list-style-type: none"> • Construction Status • Type 			
Alternative Symbols:			

7. Rock Guy	Object	Example	Drafted Example
			
<p>Rock Guy Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Type <p>Alternative Symbols: </p>			


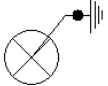

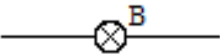
8. Building Guy	Object	Example	Drafted Example
			
<p>Building Guy Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Type <p>Alternative Symbols: </p>			



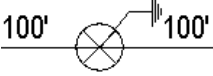
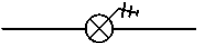
9. Set Cable Anchor	Object	Example	Drafted Example
			
<p>- used for SideWalk CATV</p> <p>Set Cable Anchor Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Type <p>Alternative Symbols:</p> <p>Existing </p> <p>Set Cable Anchor </p>			

10. Existing Anchor	Object	Example	Drafted Example
			
Existing Anchor Attributes			
<ul style="list-style-type: none"> • Construction Status • Type 			
Alternative Symbols:			




9. Miscellaneous Symbols

Note: In this section, Poles are shown as Joint because this occurs most frequently

4. MISCELLANEOUS SYMBOLS			
Attachments, Routing and Structures			
1. BOND	Object	Example	Drafted Example
			
Bond Attributes			
<ul style="list-style-type: none"> • Construction Status • Type 			
Alternative Symbols:			
			


2. GROUND	Object	Example	Drafted Example
			
Ground Attributes:			
<ul style="list-style-type: none"> • Construction Status • Type 			
Alternative Symbols:			
			

3. LockBox
Surface Utility Mount




Object	Example	Drafted Example
		

LockBox Attributes:

- Construction Status
- Specification
- Owner
- Drop Terminal?
- Ground Status
- Ground Type
- Label
- Location Number

Alternative Symbols: 

4. BackBoard
Surface Utility Mount

Object	Example	Drafted Example
		

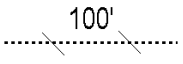
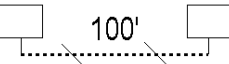
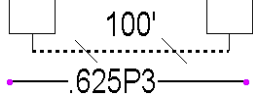
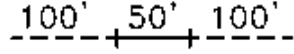
BackBoard Attributes:



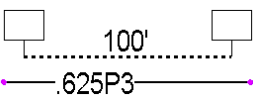
- Construction Status
- Specification
- Owner
- Drop Terminal?
- Ground Status
- Ground Type
- Label
- Location Number

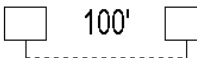
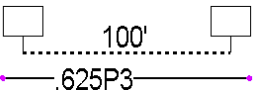
Alternative Symbols:

5. Building Bracket	Object	Example	Drafted Example
Building Bracket Attributes:			
<ul style="list-style-type: none"> • Construction Status • Specification • Owner • Location Number 			
Alternative Symbols:			

1.A. Underground Routing Trench	Object	Example	Drafted Example
	100'		
Trench - Underground Routing Attributes:			
<ul style="list-style-type: none"> • Construction Status • Measure Length • Calculated Length • Type = Example: Trench • Drop Route • Private • Telco-Only Conduits 			
Alternative Symbols:			

1.B. Underground Routing	Object	Example	Drafted Example
Bore			
<p>Bore - Underground Routing Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Measure Length • Calculated Length • Type = Example: Bore • Drop Route • Private • Telco-Only Conduits 			
<p>Alternative Symbols: </p>			

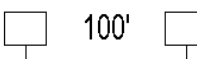
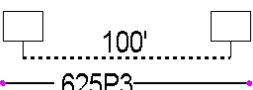
1.C. Underground Routing	Object	Example	Drafted Example
Building Riser			
<p>Building Riser - Underground Routing Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Measure Length • Calculated Length • Type = Example: Building Riser • Drop Route • Private • Telco-Only Conduits 			
<p>Alternative Symbols:</p>			

1.D. Underground Routing	Object	Example	Drafted Example
Internal	100'		

Internal - Underground Routing Attributes:

- Construction Status
- Measure Length
- Calculated Length
- Type = Example: Internal
- Drop Route
- Private
- Telco-Only Conduits

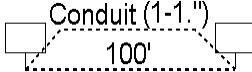
Alternative Symbols:

1.E. Underground Routing	Object	Example	Drafted Example
Plow	100'		



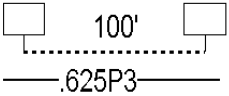
Plow - Underground Routing Attributes:

- Construction Status
- Measure Length
- Calculated Length
- Type = Example: Plow
- Drop Route
- Private
- Telco-Only Conduits

Alternative Symbols:

2. Conduit Routing	Object	Example	Drafted Example
	-----	100' ----- Conduit (1-1.")	
Conduit Route Attributes:			
<ul style="list-style-type: none"> • Construction Status • Measure Length • Calculated Length • Number Of Conduits • Size Of Conduits • Owner • Telco? • Status Example: Availability, Used, Vacant and Unknown • Type Example: Core Extraction, Conduit, Microduct, EMT....etc. • Contains Innerduct? • Innerduct Number and Size • Contains Microduct? • Microduct Number and Size • Date Installed • Notes 			
Alternative Symbols: _____ = Direct Buried Conduit Routing			



3. Pedestal

	Object	Example	Drafted Example
			


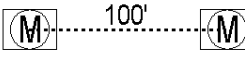
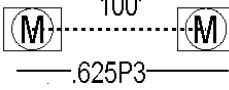
Pedestal Attributes:

- Construction Status
- Specification
- Owner
- Drop Pedestal?
- Ground Status
- Ground Type
- Latitude
- Longitude
- Location Number
- Grid Number

Alternative Symbols:



4. Manhole

	Object	Example	Drafted Example
Underground Utility Box			

Manhole Attributes:






- Construction Status
- Specification
- Owner
- Drop Vault?
- Ground Status
- Ground Type
- Latitude
- Longitude
- Location Number
- Grid number

Alternative Symbols:


5. Vault

Underground Utility Box

Object	Example	Drafted Example
	 ----- 100' ----- 	 ----- 100' -----  ----- .625P3 -----






Vault (UUB) Attributes:

- Construction Status
- Specification
- Owner
- Drop Vault?
- Ground Status
- Ground Type
- Latitude
- Longitude
- Location Number
- Grid number

Alternative Symbols:  * = Optional user Defined attribute



6. HandHole

Underground Utility Box

Object	Example	Drafted Example
	 ----- 100' ----- 	 ----- 100' -----  ----- .625P3 -----



HandHole Attributes:


- Construction Status
- Specification
- Owner
- Drop Vault?
- Ground Status
- Ground Type
- Latitude
- Longitude
- Location Number
- Grid number


Alternative Symbols:  * = Optional user Defined attribute


7. Fiber Vault Underground Utility Box	Object	Example	Drafted Example
<p>Fiber Vault Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Specification • Owner • Drop Vault? • Ground Status • Ground Type • Latitude • Longitude • Location Number • Grid number 			
Alternative Symbols:			

8. Road Bore	Object	Example	Drafted Example
See above Underground Routing			
<p>Road Bore Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Type 			
Alternative Symbols:			

9. Existing Power Transformer	Object	Example	Drafted Example
Other Utility Feature No Longer Used by Cox			
Existing Power Transformer Attributes:			
<ul style="list-style-type: none"> • Construction Status • Type 			
Alternative Symbols:			
No Longer Used by Cox			

10. Punch Down Block	Object	Example	Drafted Example
Other Utility Feature No Longer Used by Cox			
Punch Down Block Attributes			
<ul style="list-style-type: none"> • Construction Status • Type 			
Alternative Symbols:			
No Longer Used by Cox			


11. Telephone Pedestal	Object	Example	Drafted Example
Other Utility Feature No Longer Used by Cox			
Telephone Pedestal Attributes			
<ul style="list-style-type: none"> • Construction Status • Type 			
Alternative Symbols:			
No Longer Used by Cox			

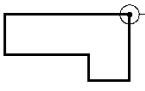
10. House Drop Designations

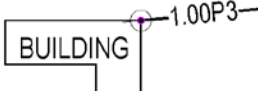
1. House Count	Object	Example	Drafted Example
	R1 M1 V1 C1		
House Count Attributes:			
Alternative Symbols:			
		= (#) Number of Actual House Counts/Drops at this location	
		= (#) On Top Actual House Counts/Drops at this location = (#) On Bottom potential Counts/Drops at this location	
		= MDU - (#) Number of dwelling Units	
		= Commercial - (#) Number of actual drops	


2. Drop	Object	Example	Drafted Example
Drop Attributes:			
Alternative Symbols:			

2. Building
Commercial and Institutional

Object 

Example 

Drafted Example 


 = Cable/Sheath Attachment

Type =



Church
Commercial
Government
Hospital
Hotel/Motel
INET
MDU
Residential
SDU
School
Wireless Site

Building Attributes:



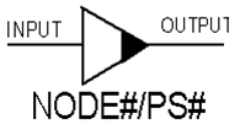
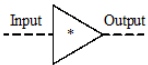
- Name
- Type = Note all Buildings are under Type
- Commercial Count
- MDU Count
- Internal Node?

Alternative Symbols:  = (*) Type of Building e.g. School, Church, Police, etc.

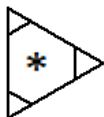
11. Make Ready or Pole Line Preparation Symbols


1. Make Ready	Object	Example	Drafted Example
(*) = Optional User Defined Attribute			
Note: Pole type shown is used for example only			
Make Ready Attributes:			
<ul style="list-style-type: none">• Utility Reason• Violation• Notes			
Alternative Symbols:	CONSTRUCTION NOTE		
			

12. Amplifiers

1. SINGLE OUTPUT AMPLIFIER	Object	Example	Drafted Example																
<p>* = Optional User Defined</p> <p>■ = Hot Output when Internal DC is used</p> <p>Amplifier Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Specification • Name • Total Footage from Last Active/Split • Cascade • Forward Input At High Frequency • Forward Input At Low Frequency • Forward Output At High Frequency • Forward Output At Low Frequency • Set-Up Level Input • Set-Up Level Output • Reverse Input At High Frequency • Reverse Input At Low Frequency • Reverse Output At High Frequency • Reverse Output At Low Frequency • Forward Equalizer • Reverse Equalizer • Forward Pad • Reverse Pad • Splice Code • Power Supply Name • Amplifier Voltage • Powering Mode • Flipped? • Underground? • Node Number • Optical Hub Feed • Optical Node Leg Feed • Part Number • Date Installed 		<p>No Name Set</p> 	<table border="1"> <thead> <tr> <th colspan="2">NODE#/PS#</th> </tr> <tr> <th colspan="2">SA-550-SINGLE</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>17</td> </tr> <tr> <td>3.0/7.0/4.0</td> <td>5.0/8.0/6.0</td> </tr> <tr> <td>9.0/10.0</td> <td>11.0/12.0</td> </tr> <tr> <td>1'</td> <td>-</td> </tr> <tr> <td>13/14</td> <td>15/16</td> </tr> <tr> <td>18.0</td> <td>7</td> </tr> </tbody> </table> 	NODE#/PS#		SA-550-SINGLE		2	17	3.0/7.0/4.0	5.0/8.0/6.0	9.0/10.0	11.0/12.0	1'	-	13/14	15/16	18.0	7
NODE#/PS#																			
SA-550-SINGLE																			
2	17																		
3.0/7.0/4.0	5.0/8.0/6.0																		
9.0/10.0	11.0/12.0																		
1'	-																		
13/14	15/16																		
18.0	7																		
Alternative Symbols:																			

2. MULTIPLE OUTPUT AMPLIFIER

Object 

Example  No Name Set


Drafted Example

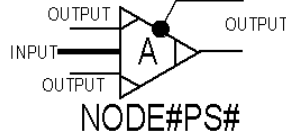
NODE#PS#	
GM1GHZHG8T-A	
2	18
3.0/7.0/4.0	5.0/8.0/6.0
9.0/10.0	11.0/12.0
1'	17
13/14	15/16
19.0	1





* = Optional User Defined
 ■ = Hot Output when Internal DC is used

Amplifier Attributes:

- Construction Status
- Specification
- Name
- Total Footage from Last Active/Split
- Cascade
- Forward Input At High Frequency
- Forward Input At Low Frequency
- Forward Output At High Frequency
- Forward Output At Low Frequency
- Set-Up Level Input
- Set-Up Level Output
- Reverse Input At High Frequency
- Reverse Input At Low Frequency
- Reverse Output At High Frequency
- Reverse Output At Low Frequency
- Forward Equalizer
- Reverse Equalizer
- Forward Pad
- Reverse Pad
- Splice Code
- Power Supply Name
- Amplifier Voltage
- Powering Mode
- Flipped?
- Underground?
- Node Number
- Optical Hub Feed
- Optical Node Leg Feed
- Part Number
- Date Installed

Alternative Symbols: 



3. LINE EXTENDER	Object	Example	Drafted Example														
<p>Line Extender Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Specification • Name • Total Footage from Last Active/Split • Cascade • Forward Input At High Frequency • Forward Input At Low Frequency • Forward Output At High Frequency • Forward Output At Low Frequency • Set-Up Level Input • Set-Up Level Output • Reverse Input At High Frequency • Reverse Input At Low Frequency • Reverse Output At High Frequency • Reverse Output At Low Frequency • Forward Equalizer • Reverse Equalizer • Forward Pad • Reverse Pad • Splice Code • Power Supply Name • Amplifier Voltage • Powering Mode • Flipped? • Underground? • Node Number • Optical Hub Feed • Optical Node Leg Feed • Part Number • Date Installed 		<p>No Name Set</p> 	<p style="text-align: center;">NODE#PS#</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2" style="text-align: center;">GM L E M</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">18</td> </tr> <tr> <td style="text-align: center;">3.0/7.0/4.0</td> <td style="text-align: center;">5.0/8.0/6.0</td> </tr> <tr> <td style="text-align: center;">9.0/10.0</td> <td style="text-align: center;">11.0/12.0</td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">17</td> </tr> <tr> <td style="text-align: center;">13/14</td> <td style="text-align: center;">15/16</td> </tr> <tr> <td style="text-align: center;">19.0</td> <td style="text-align: center;">1</td> </tr> </tbody> </table>	GM L E M		2	18	3.0/7.0/4.0	5.0/8.0/6.0	9.0/10.0	11.0/12.0	1	17	13/14	15/16	19.0	1
GM L E M																	
2	18																
3.0/7.0/4.0	5.0/8.0/6.0																
9.0/10.0	11.0/12.0																
1	17																
13/14	15/16																
19.0	1																
	<p>INPUT</p>  <p>OUTPUT</p>	<p>NODE#PS#</p>	<p>Note: Above - Labels "Input" and "Output" are only shown in example</p>														
<p>Alternative Symbols:</p>																	



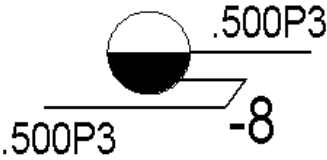
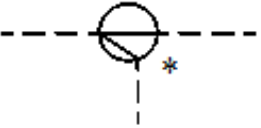

13. Splitting Devices

1. 2-Way Splitter	Object	Example	Drafted Example
<p>2-Way Splitter Attributes</p> <ul style="list-style-type: none"> • Construction Status • Specification • Flipped • Part Number • Date Installed 			
Alternative Symbols:			


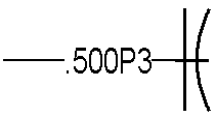
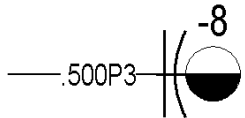
Internal Coupler - Cox

2. 3-Way Splitter	Object	Example	Drafted Example
<p>3-Way Splitter Attributes</p> <ul style="list-style-type: none"> • Construction Status • Specification • Flipped • Part Number • Date Installed 			
Alternative Symbols:			



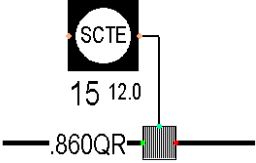

Internal Coupler - Cox

3. Directional Coupler	Object	Example	Drafted Example
* = Denotes value			
Directional Coupler Attributes			
<ul style="list-style-type: none"> • Construction Status • Specification • Flipped • Part Number • Date Installed 			
Alternative Symbols:			Internal Coupler - Cox 
Notes: Indoor drops splits may have additional user defined symbols			

14. Powering Devices

1. Power Block	Object	Example	Drafted Example
			
Power Block Attributes			
<ul style="list-style-type: none"> • Construction Status • Specification 			
Alternative Symbols:			


2. Power Inserter

<p>Object</p> 	<p>Example</p> <p>— .500P3 — </p>	<p>Drafted Example</p> <p>SCTE-90V</p>  <p>— .860QR — </p>
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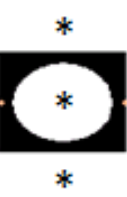

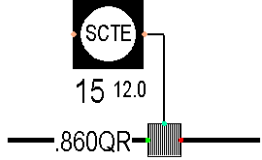
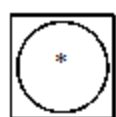

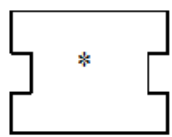
Power Inserter Attributes

- Construction Status
- Specification
- Flipped
- Part Number

Alternative Symbols:



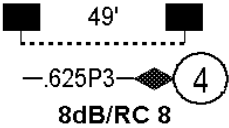


* = Optional user defined Attribute

3. SB Power Supply - With Housing	Object	Example	Drafted Example
SB = StandBy		SCTE-90V  15 12.0	SCTE-90V 
* = Optional Information: Voltage, Current Load, PS name, Status monitor			
Power Supply Module Attributes			
<ul style="list-style-type: none"> • Construction Status • Specification • Name • Total Current Draw • StandBy • Power Supply Batteries • Electric Meter Number • Top Hat • Generator • Transponder No. • Account No. • Power Co • Underground • Feeds Node # • Part Number • Date Installed 			
Power Supply Housing Attributes			
<ul style="list-style-type: none"> • Construction Status • Name • Type • Address • Node Number • Power Supply Position 			
Alternative Symbols:			
Non-SB PS		Centrilized PS	
			


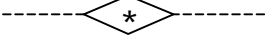
15. Line Devices

1. IN-LINE EQUALIZERS

	Object	Example	Drafted Example
			


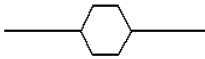
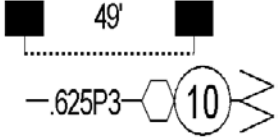
In-Line Equalizer Attributes:

- Construction Status
- Specification
- RC Value
- Bypass?
- Flipped?
- Part Number

	
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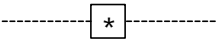
Alternative Symbols:
 "*" = Optional User defined/Value

2. COAXIAL SPLICE


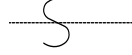
	Object	Example	Drafted Example
			

Coaxial Splice Attributes:


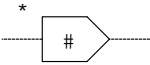
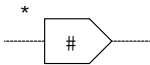
- Construction Status
- Specification
- Part Number


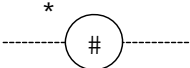

	
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Alternative Symbols:
 "*" = Optional User defined/Value


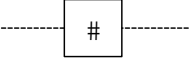

	
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16. Subscriber Taps

1. 1-Output Directional Tap	Object	Example	Drafted Example
			
<p>"#" = Represents value of tap "*" = May be shown inside symbol. Represents value of pad, cable equalizer, addressable or telephony tap, or fiber color (optical tap). Indoor taps may have additional user defined symbols.</p> <p>Tap Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Specification • Hot Tap? • Part Number • Power Passing <p>Alternative Symbols: NA</p>			



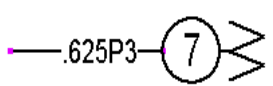
2. 2-Output Directional Tap	Object	Example	Drafted Example
			
<p>"#" = Represents value of tap "*" = May be shown inside symbol. Represents value of pad, cable equalizer, addressable or telephony tap, or fiber color (optical tap). Indoor taps may have additional user defined symbols.</p> <p>Tap Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Specification • Hot Tap? • Part Number • Power Passing <p>Alternative Symbols: NA</p>			


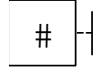
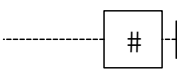


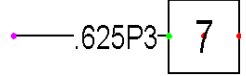
3. 3-Output Directional Tap	Object	Example	Drafted Example
			
<p>"#" = Represents value of tap</p> <p>"*" = May be shown inside symbol. Represents value of pad, cable equalizer, addressable or telephony tap, or fiber color (optical tap). Indoor taps may have additional user defined symbols.</p> <p>Tap Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Specification • Hot Tap? • Part Number • Power Passing <p>Alternative Symbols: NA</p>			



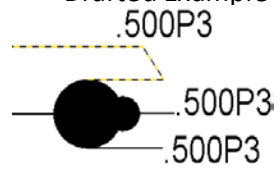
4. 4-Output Directional Tap	Object	Example	Drafted Example
			
<p>"#" = Represents value of tap</p> <p>"*" = May be shown inside symbol. Represents value of pad, cable equalizer, addressable or telephony tap, or fiber color (optical tap). Indoor taps may have additional user defined symbols.</p> <p>Tap Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Specification • Hot Tap? • Part Number • Power Passing <p>Alternative Symbols: NA</p>			

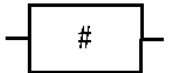

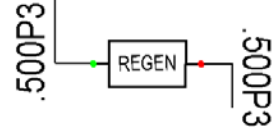
5. 8-Output Directional Tap	Object	Example	Drafted Example
		[*] 	
<p>"#" = Represents value of tap</p> <p>"*" = May be shown inside symbol. Represents value of pad, cable equalizer, addressable or telephony tap, or fiber color (optical tap). Indoor taps may have additional user defined symbols.</p>			
<p>Tap Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Specification • Hot Tap? • Part Number • Power Passing 			
Alternative Symbols:		NA	

17. Line Terminators

1. RF Terminator	Object	Example	Drafted Example
			
<p>Terminator Attributes:</p> <ul style="list-style-type: none"> • Construction Status 			
Alternative Symbols:		NA	

2. Self Terminating Tap	Object	Example	Drafted Example
<p>"#" = Represents value of tap</p> <p>Self Terminating Tap Attributes:</p> <ul style="list-style-type: none"> • Construction Status 			
<p>Alternative Symbols:</p>			



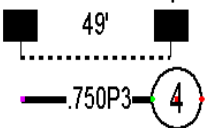
3. Hot Dot/Hi-Leg	Object	Example	Drafted Example
<p>Hot Dot/Hi-Leg Attributes:</p> <ul style="list-style-type: none"> • Construction Status 			
<p>Alternative Symbols:</p>			

4. Channel Insertion	Object	Example	Drafted Example
"#" = User Defined Type			
Channel Insertion Attributes:			
<ul style="list-style-type: none"> • Channel Insertion Type = Inserter, Regen • Construction Status • Specification • Customer Type = CB, Resi/Bulk • Name • Device Address • Install Date • Type • Model Number • Firmware Version • Remote Access IP Address • Cox Part Number • Number of Analog Channels • Number of Services • Type of Services 1 • Type of Services 2 • Type of Services 3 • Type of Services 4 • Type of Services 5 • Type of Services 6 • Property Channel 1 • Property Channel 2 • Property Channel 3 • Property Channel 4 • Property Channel 5 • Property Channel 6 • RF Level In • RF Level Out • Physical Location within Building 			
Alternative Symbols:	NA		

18. Coaxial Cables

1. 1.000 INCH (25.4MM)	Object	Example	Drafted Example
<p>Note: Cox uses the Specification attribute to determine Type and Size:</p>			
<p>Coaxial Cable Attributes:</p>			
<ul style="list-style-type: none"> • Construction Status • Specification • Measured Length • Calculated Length • Cable Category (From Lode Data Design) • Cable Use (Power Feed, Status Monitor, Unknown) • Auto Terminate? = True/False • Cable Size • Part Number • Date Installed • In Couduit? 			
<p>Alternative Symbols:</p>			

2. .875 INCH (22.2MM)	Object	Example	Drafted Example
<p>Note: Cox uses the Specification attribute to determine Type and Size:</p>			
<p>Coaxial Cable Attributes:</p>			
<ul style="list-style-type: none"> • Construction Status • Specification • Measured Length • Calculated Length • Cable Category (From Lode Data Design) • Cable Use (Power Feed, Status Monitor, Unknown) • Auto Terminate? = True/False • Cable Size • Part Number • Date Installed • In Conduit? 			
<p>Alternative Symbols:</p>			

3. .750 INCH (19.1MM)	Object	Example	Drafted Example
			
<p>Note: Cox uses the Specification attribute to determine Type and Size:</p>			
<p>Coaxial Cable Attributes:</p>			
<ul style="list-style-type: none"> • Construction Status • Specification • Measured Length • Calculated Length • Cable Category (From Lode Data Design) • Cable Use (Power Feed, Status Monitor, Unknown) • Auto Terminate? = True/False • Cable Size • Part Number • Date Installed • In Couduit? 			
<p>Alternative Symbols:</p>			

4. **.625 INCH (15.9MM)**

Object	Example	Drafted Example

Note: Cox uses the Specification attribute to determine Type and Size:
Coaxial Cable Attributes:

- Construction Status
- Specification
- Measured Length
- Calculated Length
- Cable Category (From Lode Data Design)
- Cable Use (Power Feed, Status Monitor, Unknown)
- Auto Terminate? = True/False
- Cable Size
- Part Number
- Date Installed
- In Conduit?

Alternative Symbols:

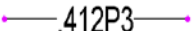
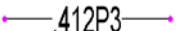
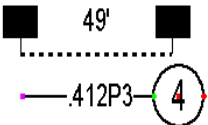
5. **.500 INCH (12.7MM)**

Object	Example	Drafted Example

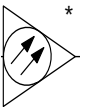
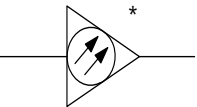
Note: Cox uses the Specification attribute to determine Type and Size:
Coaxial Cable Attributes:


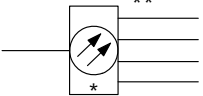
- Construction Status
- Specification
- Measured Length
- Calculated Length
- Cable Category (From Lode Data Design)
- Cable Use (Power Feed, Status Monitor, Unknown)
- Auto Terminate? = True/False
- Cable Size
- Part Number
- Date Installed
- In Conduit?


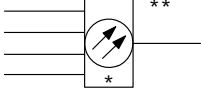
Alternative Symbols:


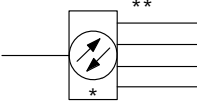
6. .412 INCH (10.5MM)	Object	Example	Drafted Example
			
<p>Note: Cox uses the Specification attribute to determine Type and Size:</p>			
<p>Coaxial Cable Attributes:</p>			
<ul style="list-style-type: none"> • Construction Status • Specification • Measured Length • Calculated Length • Cable Category (From Lode Data Design) • Cable Use (Power Feed, Status Monitor, Unknown) • Auto Terminate? = True/False • Cable Size • Part Number • Date Installed • In Conduit? 			
<p>Alternative Symbols:</p>			

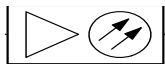

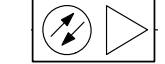
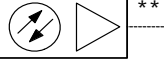
19. Optical Devices

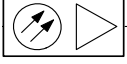
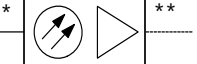
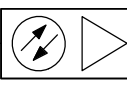
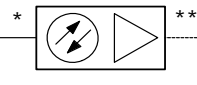
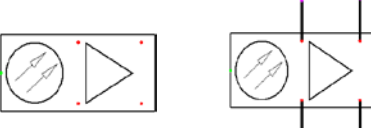
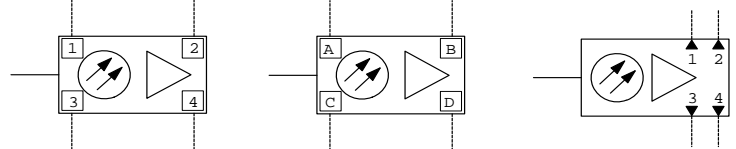
1. Optical Amplifier	Object	Example	Drafted Example
* = Indicates the gain (db)			
Optical Amplifier Attributes:			
<ul style="list-style-type: none"> • Construction Status • Specification • Name • Address • Grounding Method • Notes • Aerial • Underground • Map Location • Part Number 			
Alternative Symbols:			

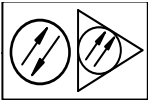
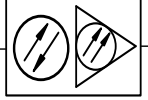



2. Demultiplexer	Object	Example	Drafted Example
<p>* = Indicates number of outputs</p> <p>** = Optional user defined attributes</p>			
Demultiplexer Attributes:			
<ul style="list-style-type: none"> • Construction Status • Specification • Name • Address • Grounding Method • Notes • Aerial • Underground • Map Location • Part Number 			
Alternative Symbols:			

3. Multiplexer	Object	Example	Drafted Example
<p>* = Indicates number of inputs</p> <p>** = Optional user defined attributes</p>			
<p>Multiplexer Attributes:</p>			
<ul style="list-style-type: none"> • Construction Status • Specification • Name • Address • Grounding Method • Notes • Aerial • Underground • Map Location • Part Number 			
<p>Alternative Symbols:</p>			

4. Bi-Directional Mux/Demux	Object	Example	Drafted Example
<p>* = Indicates number of outputs</p> <p>** = Optional user defined attributes</p>			
<p>Bi-Directional Mux/Demux Attributes:</p>			
<ul style="list-style-type: none"> • Construction Status • Specification • Name • Address • Grounding Method • Notes • Aerial • Underground • Map Location • Part Number 			
<p>Alternative Symbols:</p>			

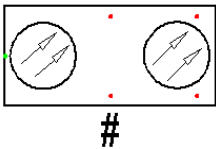
5. Optical Transmitter	Object	Example	Drafted Example
<p>* = Input RF level ** = Output Optical Power</p>			
		<p>Forward Only</p>	
			
		<p>Forward / Reverse</p>	
<p>Optical Transmitter Attributes:</p>			
<ul style="list-style-type: none"> • Construction Status • Specification • Name • Address • Grounding Method • Notes • Aerial • Underground • Map Location • Part Number 			
<p>Alternative Symbols:</p>			

6. Optical Node	Object	Example	Drafted Example
<p>* = Input Optical Power</p> <p>** = Output RF level</p>		 <p>Forward Only</p>	
		 <p>Forward / Reverse</p>	
<p>Optical Node Attributes:</p>			
<ul style="list-style-type: none"> • Construction Status • Specification • Node Number • Address • Power Supply Name • Input Voltage • Input Reverse High • Input Reverse Low • ITU Receiver Channel • ITU Return Channel • Receiver Wavelength • Return Wavelength • Primary Fiber/OTDR Footage • Primary Fiber/Lightpath Footage • Secondary Fiber/OTDR Footage • Signal Forward High • Signal Forward Low • Underground = True/False • Map Location • Optical Hub Feed • Part Number • Position in Housing • Date Installed 			
<p>Alternative Symbols:</p>			
			
<p>ex. Multiple RF Output Examples Showing Various Label Choices</p>			
			

7. Fiber Node	Object	Example	Drafted Example
<p>* = Input Optical Power ** = Output Optical Power</p>		<p>* **</p>  <p>Forward / Reverse</p>	
<p>Fiber Node Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Specification • Node Number • Address • Power Supply Name • Input Voltage • Input Reverse High • Input Reverse Low • ITU Receiver Channel • ITU Return Channel • Receiver Wavelength • Return Wavelength • Primary Fiber/OTDR Footage • Primary Fiber/Lightpath Footage • Secondary Fiber/OTDR Footage • Signal Forward High • Signal Forward Low • Underground = True/False • Map Location • Optical Hub Feed • Part Number • Position in Housing • Date Installed 			
<p>Alternative Symbols:</p>  			

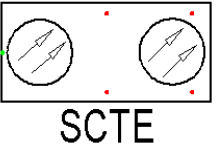
8. RFoG Node

Object



#

Example



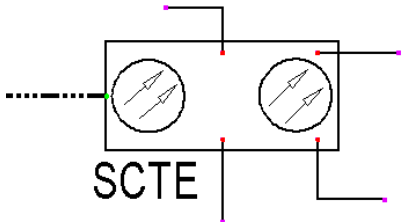
SCTE

= User Defined Name

RFoG Node Attributes:

- Construction Status
- Specification
- Node Number
- Type = RFoG, EDFA
- Power Supply Name
- Address
- Input Voltage
- Primary Fiber/OTDR Footage
- Primary Fiber/LightPath Footage
- Secondary Fiber/OTDR Footage
- Receiver Wavelength
- Return Wavelength
- ITU Receiver Channel
- ITU Return Channel
- Optical Hub Feed
- Map Location
- Underground? = True/False
- Position in Housing
- Part Number
- Date Installed





Drafted Example









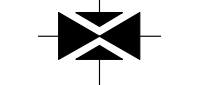

SCTE

Alternative Symbols:

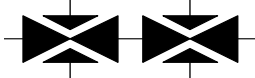

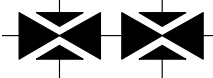
20. Optical Splice Symbols

1. 2 - Way Splice	Object	Example	Drafted Example
2 Way Splice Attributes:			
<ul style="list-style-type: none">• Construction Status• Name• Specification• Function• Address• Part Number			
Suggested Attributes			
<ul style="list-style-type: none">• Grounding Method• Internal/External• Leased• Notes• Aerial• Underground• Map Location			
Alternative Symbols:			

2. 3 - Way Splice	Object	Example	Drafted Example
			
3 Way Splice Attributes:			
<ul style="list-style-type: none">• Construction Status• Name• Specification• Function• Address• Part Number			
Suggested Attributes			
<ul style="list-style-type: none">• Grounding Method• Internal/External• Leased• Notes• Aerial• Underground• Map Location			
Alternative Symbols:			

3. 4 - Way Splice	Object	Example	Drafted Example
<ul style="list-style-type: none">• Construction Status• Name• Specification• Function• Address• Part Number <p>Suggested Attributes</p> <ul style="list-style-type: none">• Grounding Method• Internal/External• Leased• Notes• Aerial• Underground• Map Location <p>Alternative Symbols:</p>			
			

4. >4 - Way Splice

	Object	Example	Drafted Example
			


>4 - Way Splice Attributes:

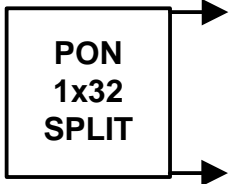
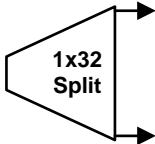


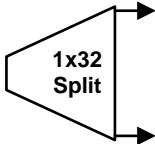

- Construction Status
- Name
- Specification
- Function
- Address
- Part Number





Suggested Attributes

- Grounding Method
- Internal/External
- Leased
- Notes
- Aerial
- Underground
- Map Location

Alternative Symbols:



5. PON 32 Way Optical Splice	Object	Example	Drafted Example
<p>1x32 Split</p> <p>PON 1x32 Splitter</p> <ul style="list-style-type: none"> • Construction Status • Name • Specification • Function • Address • Part Number <p>Suggested Attributes</p> <ul style="list-style-type: none"> • Grounding Method • Internal/External • Leased • Notes • Aerial • Underground • Map Location 			
<p>Alternative Symbols:</p>			

6. Mid Entry Splice / Ring Cut	Object	Example	Drafted Example
			
<p>Mid Entry Splice/Ring Cut Attributes:</p> <ul style="list-style-type: none">• Construction Status• Name• Specification• Function• Address• Part Number			
<p>Suggested Attributes</p> <ul style="list-style-type: none">• Grounding Method• Internal/External• Leased• Notes• Aerial• Underground• Map Location			
Alternative Symbols:			

21. Miscellaneous Optical Symbols

1. Optical Fiber Cable	Object	Example	Drafted Example
	Uni-Directional	Uni-Directional	Uni-Directional
	Bi-Directional	Bi-Directional	Bi-Directional

* Denotes User define attributes


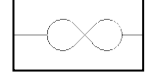
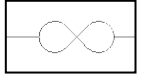
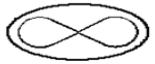
Optical Fiber Cable Attributes:

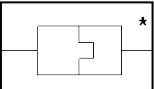
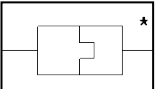
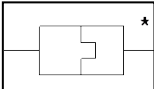
- Construction Status
- Specification
- Sheath ID
- Tethered = True/False
- Tethered Specification = OCC value
- Company Owned? Example Cox Owned = True
- Jumper Type = Connectorized/Non-Connectorized
- Jumper Length
- Sheath Length
- Measured Fiber Length
- Measure Length (Feet)
- Calculated Length
- Aerial Footage
- Underground Footage
- Riser Footage
- Notes
- Part Number
- Date Installed
- In Conduit?

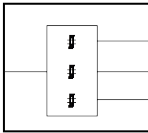
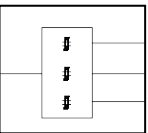
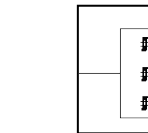
Alternative Symbols:

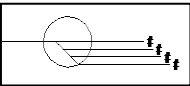
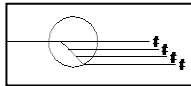
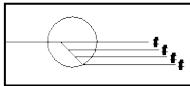
Aerial




UG

2. Optical Storage Loop	Object	Example	Drafted Example
Alternat name = Fiber Figure Eight			
Optical Storage Loop Attributes:			
<ul style="list-style-type: none"> • Construction Status • Length • Type 			
Alternative Symbols:			
 160'			



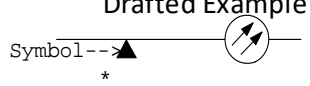
3. Connector	Object	Example	Drafted Example
			
Connector Attributes:			
<ul style="list-style-type: none"> • Construction Status • Specification • Aerial/UG • In Conduit • Owner • Jumper Type • Jumper Length • Sheath Length • Measured Fiber Length • Aerial Ftg. • Underground Ftg. • Notes • Part Number 			
Alternative Symbols:			
* Denotes connector Type			

4. Splitter	Object	Example	Drafted Example
<p>Splitter Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Specification • Aerial/UG • In Conduit • Owner • Jumper Type • Jumper Length • Sheath Length • Measured Fiber Length • Aerial Ftg. • Underground Ftg. • Notes • Part Number 			
<p>Alternative Symbols: # Denotes Percentage or dB loss</p>			

5. Alternate	Object	Example	Drafted Example
<p># Denotes = ?</p>			
<p>Alternate Attributes:</p>			
<ul style="list-style-type: none"> • Construction Status • Specification • Aerial/UG • In Conduit • Owner • Jumper Type • Jumper Length • Sheath Length • Measured Fiber Length • Aerial Ftg. • Underground Ftg. • Notes • Part Number 			
<p>Alternative Symbols:</p>			

6. Fiber Sheath Transition	Object	Example	Drafted Example
<p>Transition Marker</p>			
<p>* Indicates footage stamp number</p>			
<p>Fiber Sheath Transition Attributes:</p>			
<ul style="list-style-type: none"> • Transition Type = Aerial-> Underground / Underground->Aerial 			
<p>Alternative Symbols:</p>			

7. Fiber Footage/Seq.Marker

Object	Example	Drafted Example
		

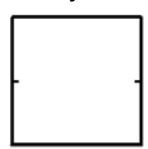
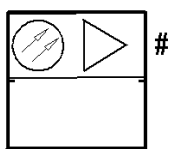
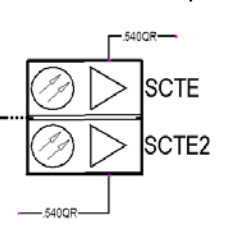
* Indicates footage stamp number

Fiber Footage/Sequential Marker Attributes:

- NA

Alternative Symbols:

8. Dual Segmented Node Housing

Object	Example	Drafted Example
		

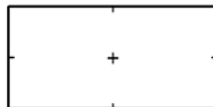

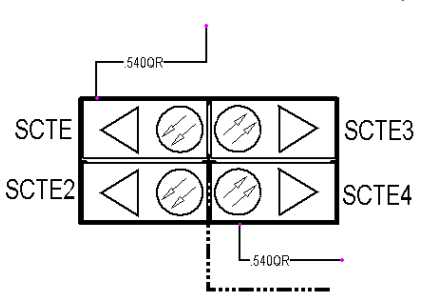
= Node Name

Dual Segmented Node Housing Attributes:

- Node A
- Node B

Alternative Symbols:

9. Quad Segmented Node Housing

Object	Example	Drafted Example
		


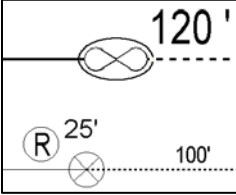
= User defined Name

Dual Segmented Node Housing Attributes:

- Node A
- Node B
- Node C
- Node D

Alternative Symbols:

10. FootStamp

Object	Example	Drafted Example
□		

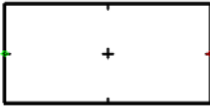
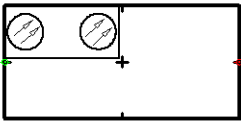
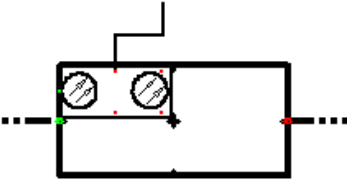
FootStamp Attributes

- Marker Value

Alternative Symbols:

Note: Footstamps Are on either side of Fiber Figure Eight Slack Loop object

11. Optical Cabinet

Object	Example	Drafted Example
		


Optical Cabinet Attributes


- Name
- Specification
- Type = RFoG Housing / Remote RFoG Cab
- Address
- RFoG Node Position
- Date Installed


Alternative Symbols:

12. Optical Cross Connect

* = Tap Value
= User defined Name

Object: 

Example: 

Drafted Example: 

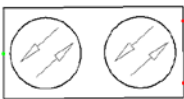
Optical Cross Connect Attributes

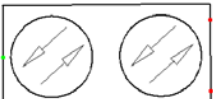
- Construction Status
- Specification
- Name
- Notes
- Address
- Grounding Method = Bond, Ground Rod..
- Map Location
- Underground? = True/False
- Flipped? = True/False
- Cox Part Number
- Part Number

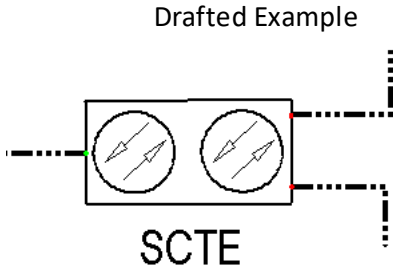
Alternative Symbols:

13. Optical Housing

= User defined Name

Object: 

Example: 

Drafted Example: 

Optical Housing Attributes

- Construction Status
- Specification
- Node Number
- Name
- Address
- Power Supply Name
- Input Voltage
- Power Mode
- Location Number
- Underground?
- Map Location
- Part Number
- Date Installed

Alternative Symbols:

14. OTN Mini Bay

	Object	Example	Drafted Example
# = User defined Name			
	#	SCTE	SCTE

Optical Housing Attributes

- Construction Status
- Specification
- Name
- Address
- Notes
- CLI

Alternative Symbols:



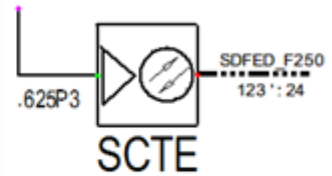
15. ONU (Optical Network Unit)

	Object	Example	Drafted Example


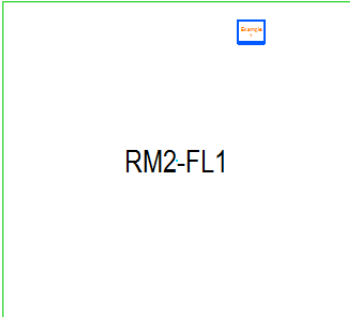
Optical Housing Attributes

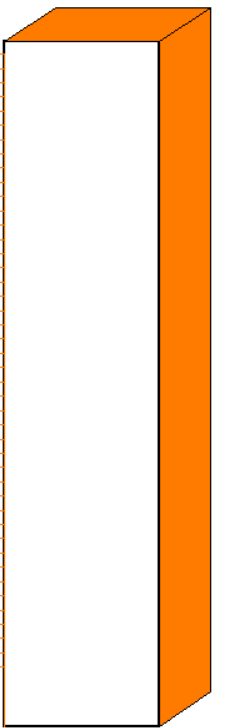
- Construction Status
- Specification
- Name
- Address
- Notes
- CLI


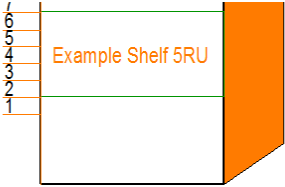
Alternative Symbols:


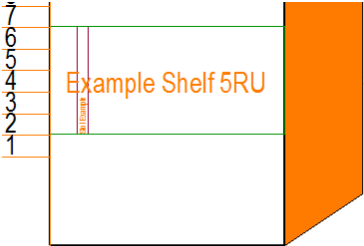
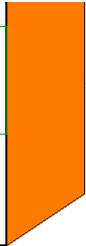
16. RF Optical RX/TX	Object	Example	Drafted Example
<p>RF Optical RX/TX Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Specification • Name • Total From Last Active • Cascade • Forward Input At High Frequency • Forward Input At Low Frequency • Optical RX Input • Optical TX Output • Set-Up Level Input • Set-Up Level Output • Reverse Output At High Frequency • Reverse Output At Low Frequency • Forward Pad • Reverse Pad • Power Supply Name • Voltage • Power Mode • Underground? = True/False • Node Number • Part Number (Company Part Number) • Date Installed 			
<p>Alternative Symbols:</p>			


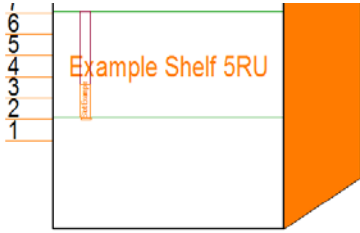
22. Rack Mounted Equipment (RME) Symbols


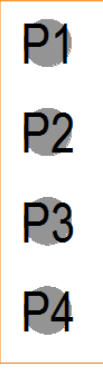
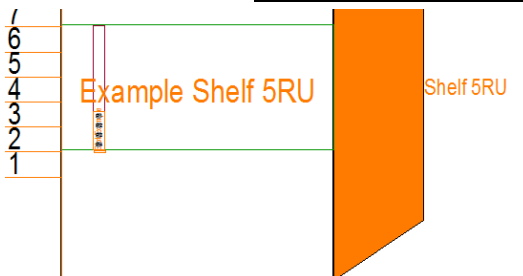
1. BAY	Object	Example	Drafted Example
<p>Bay Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Specification • Description • Number • Account Code • Installed Cost • Date Installed • Installer Name • Barcode Number • Serial Number • Acceptance Date • Acceptance Name 			
<p>Alternative Symbols:</p>			

2. Rack	Object	Example	Drafted Example
<p>Rack Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Specification • Description • Number • Account Code • Installed Cost • Date Installed • Installer Name • Barcode Number • Serial Number • Acceptance Date • Acceptance Name 			 <p style="text-align: center; color: orange;">Example 1 Room (2, Commercial)</p>
<p>Alternative Symbols:</p>			

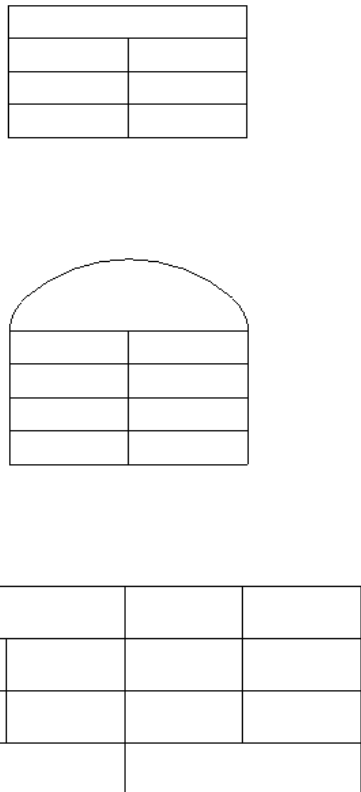
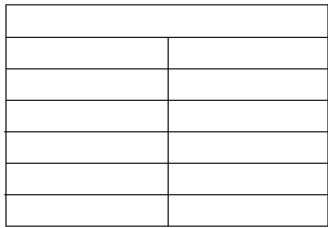
3. Shelf	Object	Example	Drafted Example
		<p data-bbox="867 428 1008 464">Example 1</p> <p data-bbox="737 470 1138 506">Room (RM2-FL1, Commercial)</p>	
Shelf Attributes:			
<ul style="list-style-type: none"> • Construction Status • Specification • Description • NE Name • ENID Name • Date Installed • Installer Name • Firmware Version • Software Version • Barcode Number • Serial Number • Acceptance Date • Acceptance Name • Account Code • Installed Cost 			
Alternative Symbols:			

4. Slot	Object	Example	Drafted Example
<p>Slot Attributes:</p> <ul style="list-style-type: none"> • Description • Construction Status • Account Code • Installed Cost • Date Installed • Installer Name • Barcode Number • Serial Number • Acceptance Date • Acceptance Name <p>Alternative Symbols:</p>	 <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Slot Example</p>	 <p style="text-align: center;">Example 1 Room (RM2-FL1, Commercial)</p>	 <p style="text-align: center;">Shelf 5RU</p>

5. Card	Object	Example	Drafted Example
<p>Card Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Specification • Description • NE Name • ENID Name • Account Code • Installed Cost • Date Installed • Installer Name • Firmware Version • Software Version • Barcode Number • Serial Number • Acceptance Date • Acceptance Name • ITU Receiver Channel • ITU Return Channel • Optical Input Signal 	 <p>Example Card</p>	 <p>Example 1 Room (RM2-FL1, Commercial)</p>	<p>Shelf 5RU</p>
		<p>Example Cox Owned = True</p>	
<p>Alternative Symbols:</p>			

6. Port	Object	Example
<p>Port Attributes:</p> <ul style="list-style-type: none"> • Specification • Description • Sort Order • Type or Use • Service Level • Physical Status • Connector Type • Name 		 <p>e.g. 1GIG, CB, Micro Node, WiFi, AC Current, Signal..</p> <p>e.g. Fiber, Powering, Coaxial, Undefined, Copper</p> <p>e.g. In Service, Faulty, Reserved, Spare</p> <p>e.g. SC, APC, BNC, UPC, etc....</p> <div data-bbox="1019 829 1291 871" style="border: 1px solid black; padding: 2px; display: inline-block;">Drafted Example</div>  <p style="text-align: center; color: orange; font-weight: bold;">Example 1 Room (RM2-FL1, Commercial)</p>
<p>Alternative Symbols:</p>		

23. Amp Datablocks

1. Data Blocks	Object	Example	Drafted Example
<p>Data Block Attributes:</p> <ul style="list-style-type: none"> • Name • Amplifier Model • Cascade • Power Supply Number • Forward Input at High Frequency • Forward Input at Low Frequency • Forward Output at High Frequency • Forward Output at Low Frequency • Set-Up Level Input • Set-Up Level Output • Reverse Input at High Frequency • Reverse Input at Low Frequency • Reverse Output at High Frequency • Reverse output at Low Frequency • Total Footage from Last Active • Splice Code • Forward Equalizer • Reverse Equalizer • Forward Pad • Reverse Pad • Amplifier Voltage • Powering Mode 		<p style="text-align: center;">Suggested Styles</p> 	
<p>Alternative Symbols:</p>			

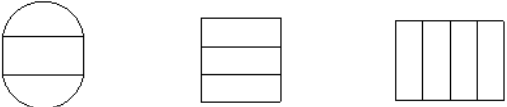
End of Line Datablocks

1. End of Line Data Blocks

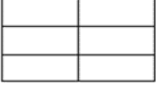
End of Line DataBlock Attributes:

- Footage to Last Active
- High Forward Tap Output
- Low Forward Tap Output
- High Return Tap Input - Drop Side
- Low Return Tap Input - Drop Side
- Set Up Level Output
- High Toal Cable Loss to Last Avtive
- High Digital Signal
- High Analog Signal
- Low Analog Signal
- AC Voltage

Suggested Styles



Alternative Symbols:



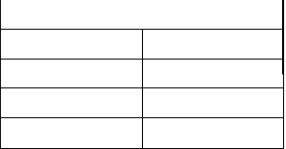
WiFi Datablocks

1. WiFi Data Blocks

WiFi DataBlock Attributes:

- Name
- Voltage
- Forward Input at High Frequency
- Set-Up Level Input
- Forward Input at Low Frequency
- Forward Pad
- Reverse Pad

Suggested Styles



Alternative Symbols:

Terminal Access Datablocks

1. Terminal Access Data Blocks

Terminal Access DataBlock Attributes:




- Name
- Voltage
- Forward Input at High Frequency
- Set-Up Level Input
- Forward Input at Low Frequency
- Forward Pad
- Reverse Pad



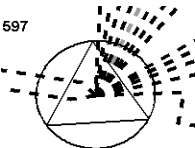
Suggested Styles

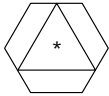
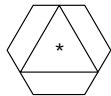

Alternative Symbols:

16. RF Optical RX/TX Datablock	Object	Example	Drafted Example												
RF Optical RX/TX Datablock Attributes:		Suggested Styles													
<ul style="list-style-type: none"> • Name • Model • Cascade • Total Footage From Last Active • Power Supply Name • Forward Input At High Frequency • Forward Input At Low Frequency • Optical RX Input • Optical TX Output • Set-Up Level Input • Set-Up Level Output • Reverse Output At High Frequency • Reverse Output At Low Frequency • Forward Pad • Reverse Pad • Voltage • Power Mode 	<table border="1"> <tr><td colspan="2" style="height: 15px;"></td></tr> <tr><td style="width: 50%; height: 15px;"></td><td style="width: 50%; height: 15px;"></td></tr> <tr><td style="height: 15px;"></td><td style="height: 15px;"></td></tr> <tr><td style="height: 15px;"></td><td style="height: 15px;"></td></tr> <tr><td style="height: 15px;"></td><td style="height: 15px;"></td></tr> <tr><td style="height: 15px;"></td><td style="height: 15px;"></td></tr> </table>														
Alternative Symbols:															
Alternative Symbols:															




24. Signal Processing Locations

1. Headend	Object	Example	Drafted Example
<p data-bbox="191 470 448 501">Headend Attributes:</p> <ul data-bbox="282 508 563 974" style="list-style-type: none"><li data-bbox="282 508 563 539">• Construction Status<li data-bbox="282 546 383 577">• Type<li data-bbox="282 583 396 615">• Name<li data-bbox="282 621 443 653">• Hub Code<li data-bbox="282 659 423 690">• Address<li data-bbox="282 697 370 728">• Use<li data-bbox="282 735 386 766">• State<li data-bbox="282 772 423 804">• Latitude<li data-bbox="282 810 448 842">• Longitude<li data-bbox="282 848 370 879">• CLLI<li data-bbox="282 886 396 917">• Notes<li data-bbox="282 924 488 955">• Map Location <p data-bbox="191 1062 456 1094">Alternative Symbols:</p>			

2. Primary Hub	Object	Example	Drafted Example
			
<p>"*" = Optional User Defined Attributes</p>			
<p>Primary Hub Attributes:</p>			
<ul style="list-style-type: none"> • Construction Status • Type • Name • Hub Code • Address • Use • State • Latitude • Longitude • CLLI • Notes • Map Location 			
<p>Alternative Symbols:</p>	<p>NA</p>		

3. Secondary Hub	Object	Example	Drafted Example
			
"*" = Optional User Defined Attributes			
Secondary Hub Attributes:			
<ul style="list-style-type: none">• Construction Status• Type• Name• Hub Code• Address• Use• State• Latitude• Longitude• CLLI• Notes• Map Location			
Alternative Symbols:	NA		

4. Tower

	Object	Example	Drafted Example
			
	#	SCTE	SCTE

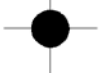


"#" = User Defined Name

Tower Attributes:

- Construction Status
- Specification
- Name
- Owner
- Address
- Date Installed
- Notes
- Latitude
- Longitude

Alternative Symbols: NA

5. Microwave Antenna

	Object	Example	Drafted Example
			
	#	Verizon	Verizon

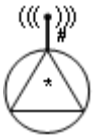
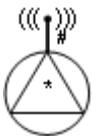
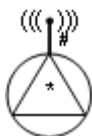
"#" = User Defined Name

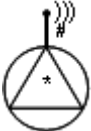
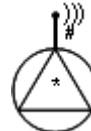
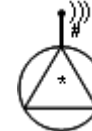
Microwave Antenna Attributes:

- Construction Status
- Specification
- Name
- CLLI
- Owner
- Notes

Alternative Symbols: NA

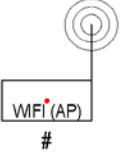
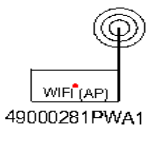

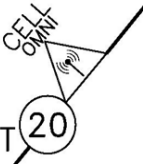
25. Wireless Devices

1. Omni-Directional Wireless Hub	Object	Example	Drafted Example
			
Omni-Directional Wireless Hub Attributes:			
<ul style="list-style-type: none"> • Construction Status • Specification • Name • Location Type • Indoor/Outdoor • Address • MAC Address Modem • MAC Address Wireless • City • State • Zip Code • Node Number • Latitude • Longitude 			
Alternative Symbols: NA			
* Optional user defined attributes (e.g. polarization; modulation type)			
# Denotes Over the air frequency (e.g. 5.8GHz)			
) = Range < 150m (~55ft.) (e.g. WiFi hotspot)			
)) = Range between 150m and 3km inclusive (~500ft. And ~2mi.) (e.g. wireless plant extension)			
))) = Range > 3km (~2mi.) (e.g. long range microwave)			

2. Directional Wireless Hub	Object	Example	Drafted Example
<p>Directional Wireless Hub Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Specification • Name • Location Type • Indoor/Outdoor • Address • MAC Address Modem • MAC Address Wireless • City • State • Zip Code • Node Number • Latitude • Longitude 			
<p>Alternative Symbols:</p>	<p>NA</p>		
<p>* Optional user defined attributes (e.g. polarization; modulation type)</p>			
<p># Denotes Over the air frequency (e.g. 5.8GHz)</p>			
<p>) = Range < 150m (~55ft.) (e.g. WiFi hotspot)</p>			
<p>) = Range between 150m and 3km inclusive (~500ft. And ~2mi.) (e.g. wireless plant extension)</p>			
<p>)) = Range > 3km (~2mi.) (e.g. long range microwave)</p>			

3. Omni-Directional Customer Premises Equipment (CPE)	Object	Example	Drafted Example
<p>Omni-Directional Customer Premises Equipment (CPE) Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Specification • Name • Location Type • Indoor/Outdoor • Address • MAC Address Modem • MAC Address Wireless • City • State • Zip Code • Node Number • Latitude • Longitude 			
<p>Alternative Symbols:</p> <div align="center"> </div>			
<p>* Optional user defined attributes (e.g. polarization; modulation type) # Denotes Over the air frequency (e.g. 5.8GHz)) = Range < 150m (~55ft.) (e.g. WiFi hotspot))) = Range between 150m and 3km inclusive (~500ft. And ~2mi.) (e.g. wireless plant extension)))) = Range > 3km (~2mi.) (e.g. long range microwave)</p>			





4. Directional Customer Premise Equipment (CPE)	Object	Example	Drafted Example
* Denotes =			
Directional Customer Premises Equipment (CPE) Attributes:			
<ul style="list-style-type: none"> • Construction Status • Specification • Name • Location Type • Indoor/Outdoor • Address • MAC Address Modem • MAC Address Wireless • City • State • Zip Code • Node Number • Latitude • Longitude 			
Alternative Symbols:			
* Optional user defined attributes (e.g. polarization; modulation type)			
# Denotes Over the air frequency (e.g. 5.8GHz)			
) = Range < 150m (~55ft.) (e.g. WiFi hotspot)			
)) = Range between 150m and 3km inclusive (~500ft. And ~2mi.) (e.g. wireless plant extension)			
))) = Range > 3km (~2mi.) (e.g. long range microwave)			



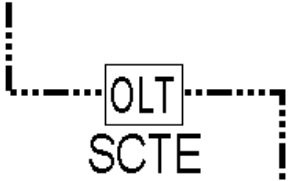


5. Wireless Access Point	Object	Example	Drafted Example
# WiFi Name			
Wireless Access Point Attributes:			
<ul style="list-style-type: none"> • Construction Status • Specification • Fiber Feeds WiFi ? • Name • Location Type • Location Category • Mount Type • Indoor? • Forward Input at High Frequency • Forward Input at Low Frequency • Set-Up Level Input • Forward Pad • Reverse Pad • Power Supply Name • Voltage • Primary Street • Primary Address • MAC Address (Modem) • MAC Address (Wireless) • Root AP Name • Access Point • City • State • Zip Code • Node Number • Latitude • Longitude • CLI • WSL? • Date Installed 			
Alternative Symbols:			






26. FTTX Symbols





1. Central Office Node (CDT-Central Digital Terminal)	Object	Example	Drafted Example
Central Office Node Attributes:			
<ul style="list-style-type: none"> • Construction Status • Specification • Type • Name • Address • Use 			
Alternative Symbols:			





2. Main Transition Splice Closure (Transition To PONS)	Object	Example	Drafted Example
Main Transition Splice Closure Attributes:			
<ul style="list-style-type: none"> • Construction Status • Specification • Name • Address • Grounding Method • Internal? • Leased? • Notes • Useable? • Owner • Aerial/Underground • Location • Part Number 			
Alternative Symbols:			

3. Branch Splice Closure	Object	Example	Drafted Example
			
Branch Splice Closure Attributes:			
<ul style="list-style-type: none">• Construction Status• Specification• Name• Address• Grounding Method• Internal?• Leased?• Notes• Useable?• Owner• Aerial/Underground• Location• Part Number			
Alternative Symbols:			

4. Optical Line Terminal (OLT) Remote Digital Terminal (RDT)	Object	Example	Drafted Example
			
<p>Optical Line Terminal Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Specification • OLT Name • ODN Name 1 • ODN Name 2 • Service Type • Address • Notes • Channel Insertion? • CLLI • Primary Fiber/OTDR Footage • Scondary Fiber/OTDR Footage • Date Installed 			
		Example Resi, CB Only, Resi/CB	
<p>Alternative Symbols:</p> <p>Cox Uses a container and builds RME RME = Rack Mounted Equipment</p>			
			

5. Network Access Point (NAP) Aerial	Object	Example	Drafted Example
			
<p>Network Access Point Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Specification • Type • Name • Address • Use 			
<p>Alternative Symbols:</p>			
			
<p>* = Optical Coupler Value</p>			

6. Network Access Point (NAP) Aerial	Object	Example	Drafted Example
			
<p>Network Access Point Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Specification • Type • Name • Address • Use 			
Alternative Symbols:			
* = Optical Coupler Value			

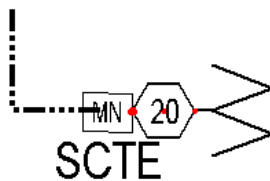
6. Network Access Point (NAP) Aerial	Object	Example	Drafted Example
			
<p>Network Access Point Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Specification • Type • Name • Address • Use 			
Alternative Symbols:			
* = Optical Coupler Value			

7. Passive Optical Network (PON)	Object	Example	Drafted Example
Local Convergence Point (LCP)			
Passive Optical Network Attributes: <ul style="list-style-type: none"> • Construction Status • Specification • Type • Name • Address • Use 			
Alternative Symbols:	NA		
* = Service Size			
** = Coupler Configuration			

9. ODN (PON)	Object	Example	Drafted Example
Optical Distribution Network			
Passive Optical Network Attributes: <ul style="list-style-type: none"> • Construction Status • Specification • ODN Name • Address • Notes • Channel Insertion? • CLI • Primary Fiber/OTDR Footage • Secondary Fiber/OTDR Footage • Date Installed 			
Alternative Symbols:			

8. Network Interface Device	Object	Example	Drafted Example
Optical Network Unit			
Optical Network Terminal	□	□	□
<p>Network Interface Device Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Specification • Name • Address • Grounding Method • Notes • Owner • Location • Part Number 			
Alternative Symbols:		TE	


9. Network Interface Device	Object	Example	Drafted Example
Optical Network Unit			
Optical Network Terminal	◻	◻	◻
<p>Network Interface Device Attributes:</p> <ul style="list-style-type: none"> • Construction Status • Specification • Name • Address • Grounding Method • Notes • Owner • Location • Part Number 			
Alternative Symbols:		TE	

10. Optical Terminal Enclosure	Object	Example	Drafted Example
OTE	<div style="border: 1px solid black; display: inline-block; padding: 2px;">#</div>	<div style="border: 1px solid black; display: inline-block; padding: 2px;">MN</div>	
# = Denotes - MN or 1x8	*	SCTE	
* = Denotes User Defined Text			
Optical Terminal Enclosure Attributes:			
<ul style="list-style-type: none"> • Name • Construction Status • Specification • Type • Account Code • Installed Cost • Notes • Map Location • Address • Part Number 	= MN (MicroNode), 1x8		
Alternative Symbols:			


11. Terminal Access

"#" = User Defined Name


Object



Example



Drafted Example



Network Interface Device Attributes:


- Construction Status
- Specification
- Name
- Location Type
- Location Category
- Forward Input at High Frequency
- Forward Input at Low Frequency
- Set-Up Level Input
- Forward Pad
- Reverse Pad
- Power Supply Name
- Voltage
- Primary Street
- PrimaryAddress
- MAC Address Modem
- City
- State
- Zip Code
- Node Number
- Latitude
- Longitude
- CLI

Alternative Symbols:

27. Miscellaneous

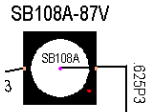
1. Generator

Object




GENERIC GENERATOR - AC

Example



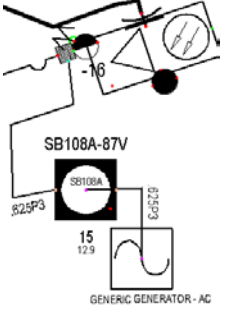
SB108A-87V



15
12.9

GENERIC GENERATOR - AC

Drafted Example



SB108A-87V

GENERIC GENERATOR - AC


Generator Attributes:

- Construction Status
- Specification
- Address
- Fuel Provider
- Fuel Source
- Output Type
- Wattage Capacity
- Date Installed

Alternative Symbols: NA

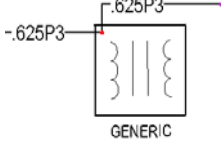
2. Power Booster

Object



GENERIC

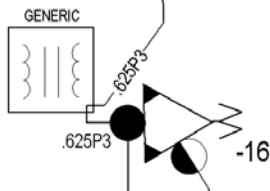
Example



-.625P3 .625P3

GENERIC

Drafted Example



GENERIC

-.625P3 .625P3

-16

Power Booster Attributes:

- Construction Status
- Specification

Alternative Symbols: NA

3. Small Cell	Object	Example	Drafted Examples
# Defined Naming standard		20VW0018SMC	20VW0018SMC
Small Cell Attributes:			
<ul style="list-style-type: none"> • Construction Status • Specification • Name • Modem/Router? • Frequency • Radio Mount Type • Backhaul • Antenna 1 • Antenna 1 Mount Type • Antenna Drop Cable Type • Antenna Drop Splitter • Antenna 2 • Antenna 2 Mount Type • Antenna 3 • Antenna 3 Mount Type • Customer • Customer Site Name • Delivery • Owner • Power Transformer? • GPS Tracker? • Power Source • Power Supply Name • Input Voltage • Primary Address • Primary Street • City • State • Zip Code • Node Number • Latitude • Longitude • Indoor? • CLI 			
Alternative Symbols:	NA		