

Materials Sampling Guide

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Item or Group	Minimum Material Certificate, Test and Inspection Requirements					Note No	Page No
	Sample Required (Tests to be made at Lincoln laboratory)	Approved Products Lists	Manufacturer Certified Tests Required	Manufacturer Certification of Compliance Required	Location of Additional Information		
SECTION: 21 – Lighting and Signal Materials							
1)Bolts, Nuts & Washers							
A) Anchor Bolts for Light, Signal, Span Wire and Combination Poles	No	No	No	Yes	12 16 19	7 8 9	
2) Electrical Items							
A) Cast Iron Frames & Covers for Pull Boxes	No	No	No	Yes	17 18 19	9 9 9	
B) Cast Iron Junction Boxes	No – Project Manager shall measure and determine quantity of galvanizing, if galvanized, and report to the Materials and Research Division.	No	No	Yes	17	9	
C) Conduit a) Aluminum b) Asbestos Cement c) Fiber d) Plastic e) Steel(Rigid, Flexible) f) Rigid Nonmetallic	Yes – One sample two feet long of each size from each lot or batch, unless U.L. approved. If U.L. label is attached and physical dimensions are correct, the conduit may be accepted. The Project Manager shall report the results of the field inspection in SiteManager.	No	No	No	17	9	
D) Light Poles							
a) Conventional Light Pole	No	No	No	Yes	16 17, 19	8 9	
b) High Mast Pole	No	No	No	Yes	16 17, 19	8 9	
c) Signal Standards	No	No	No	Yes	16 17, 19	8 9	
d) Span Wire Pole	No	No	No	Yes	16 17, 19	8 9	
e) Breakaway Base	No	No	No	Yes	16 17, 19	8 9	

Item or Group	Minimum Material Certificate, Test and Inspection Requirements					Note No	Page No
	Sample Required (Tests to be made at Lincoln laboratory)	Approved Products Lists	Manufacturer Certified Tests Required	Manufacturer Certification of Compliance Required	Location of Additional Information		
SECTION: 21 – Lighting and Signal Materials (continued)							
E) Ground Rod	No – Project Manager to measure diameter and length. Report in writing to the Materials and Research Division.	No	No	No	17	9	
F) Ground Wire	Yes – One sample one foot long from each lot	No	No	No	---	---	
G) Electrical Wire & Cable	Yes – One sample four feet long from each lot. If requested by the Materials and Research Division a manufacturer's certified test report may also be required.	No	Yes	No	17	9	
H) Span Wire, Tie Wire & Guy Wire	Yes – One sample six feet long from each lot	No	No	No	---	---	
I) Electrical Equipment	See Standard Specifications, Supplemental Specifications and/or the Project Special Provisions.						
a) Photo-Electric Cells					17	9	
b) Traffic Signals & Controllers					17	9	
c) Transformers					17	9	
d) Vehicle Detectors					17	9	
e) Luminaires					17,20	9	
f) Circuit Breakers					17	9	
g) Fittings & Hardware					17	9	
h) Pull Boxes					17	9	
J) Galvanized Steel Wire	Yes – One sample six feet long from each lot of 5,000 feet or less and two samples from lots of 5,000 to 30,000 feet.	No	No	No	1	1	
K) Grouting Material							
a) Non-shrink grout	No	Yes	No	No	---	---	
b) Epoxy type	No	Yes	No	Yes	19	9	
L) Preformed Joint Filler	No	Yes	No	No	---	---	
M) Poles (wood)	No – Unless requested by the Materials and Research Division.	No	See Note	See Note	25	11	

Item or Group	Minimum Material Certificate, Test and Inspection Requirements					Note No	Page No
	Sample Required (Tests to be made at Lincoln laboratory)	Approved Products Lists	Manufacturer Certified Tests Required	Manufacturer Certification of Compliance Required	Location of Additional Information		
SECTION: 21 – Lighting and Signal Materials (continued)							
N) Polyurethane Foamed Footings	Yes – The manufacturer’s recommended quantity of each component to provide one quart when mixed, unless shipped from tested and approved stock, or specified brands are being used.	No	No	Yes		19	9