

APPENDIX

Visual Inspection Items - Alphabetical

This list is intended as a quick reference, alphabetical by material name, for materials which normally require some form of testing but have VI quantities listed. It does not include materials which are accepted by VI basis only.

Visual Inspection Items - By Specification Number

This list is intended as a quick reference, by specification number for materials which normally require some form of testing but have VI quantities listed. It does not cover materials which are accepted on a VI basis only.

This Visual Inspection Items List is in accordance with the 2003 Standard Specification for Construction

VISUAL INSPECTION ITEMS - Alphabetical

| <u>MATERIAL</u> | | <u>MAXIMUM V.I.</u> | |
|-----------------|-----------------------------------|----------------------------|------------------------------|
| | | <u>English</u> | <u>Metric</u> |
| Misc. | ABS Pipe | 600 ft | 183 m |
| 919 | Aluminum Sheet | 100 sq ft | 9 m ² |
| 902 | Aggregate, Coarse | 100 tons | 100 t |
| 902 | Aggregate, Dense-Graded | 500 tons | 500 t |
| 902 | Aggregate, Fine | 100 tons | 100 t |
| 902 | Aggregate, Open-Graded | 100 tons | 100 t |
| 904 | Asphalt Binder | 30 tons | 27,216 kg - 27 t |
| 904 | Asphalt Cement (WOA) | 5 gal - 150 lbs | 19 L |
| 904 | Asphalt, Liquid (RC-250) | 5 gal - 150 lbs | 19 L |
| 907 | Barbed Wire | 1000 ft | 310 m |
| 905 | Bar Reinforcement (all) | 500 lbs | 230 kg |
| 914 | Bituminous Fiber Joint Filler | 150 sq ft | 14 m ² |
| 501 | Bituminous Mixtures | 500 tons/project/mix | 454 tons/project/mix |
| 914 | Bolts for Structure Exp. Anchor | 250 units | 250 units |
| 922 | Calcium Chloride Solids | 5000 lbs | 2268 kg |
| 922 | Calcium Chloride Solutions | 1000 gals | 3785 L |
| Misc. | Cast & Ductile Iron Pipe | 250 ft | 76 m |
| 901 | Cement | 50 tons | 45,360 kg - 45 t |
| Misc. | Clay Pipe | 10 pcs | 10 pcs |
| 913 | Clay and Sand Lime Brick | 1000 pcs | 1000 pcs |
| 913 | Concrete Block | 1000 units | 1000 units |
| 913 | Concrete Brick | 1000 pcs | 1000 pcs |
| 909 | Concrete Pipe, Non-Reinforced | 10 pcs | 10 pcs |
| 909 | Concrete Pipe, Reinforced | 5 pcs of 42 in dia or less | 5 pcs of 1000 mm dia or less |
| 909 | Corrugated Galv. Steel Plates | 10 plates | 10 plates |
| 909 | Corrugated Aluminum Sheets | 25 sheets | 25 sheets |
| 909 | Corrugated Aluminum Alloy Pipe | 250 ln ft | 80 m |
| 909 | Corrugated Plastic Pipe | <12 in dia 250 ft | <300 mm dia - 76 m |
| | | >12 in dia 100 ft | >300 mm dia - 30 m |
| 909 | Corrugated Plastic Pipe, Smooth | Same as CPP | Same as CPP |
| 909 | Corrugated Plastic Tubing | 250 ft | 76 m |
| 909 | Corrugated Steel Pipe | * | * |
| | 12" - 300 mm or less | 125 ln ft | 38 m |
| | 15" to 54" - 375 mm to 1350 mm | 50 ln ft | 15 m |
| | 60" - 1500 mm or greater | 25 ln ft | 8 m |
| 909 | CSP for Underdrains | * | * |
| 909 | Corrugated Steel Sheets | * | * |
| | 12" - 300 mm or less | 125 ln ft | 38 m |
| | 15" to 54" - 375 mm to 1350 mm | 50 ln ft | 15 m |
| | 60" - 1500 mm or greater | 25 ln ft | 8 m |
| 909 | Coupling Bands | 5 pcs | 5 pcs |
| 914 | Deformed Bars | 500 lbs | 227 kg |
| 919 | Delineator Posts, Steel | 80 posts | 80 posts |
| 919 | Delineator Reflectors | 25 pcs each color | 25 pcs each color |
| 914 | Dowel Bars | 240 pcs | 240 pcs |
| 918 | Electrical Conduit, Polyethylene | 400 ln ft | 122 m |
| 918 | Electrical Conduit, Rigid | 400 ln ft | 122 m |
| 904 | Emulsified Asphalt (Bond Coat) | 1000 gals | 3785 L |
| Misc. | Emulsified Asphalt (Tackifier) | 500 gals | 1514 L |
| 914 | Epoxy Binder | 5 gals | 19 L |
| Misc. | Fiberglass and Bit. Cotton Fabric | 5 rolls | 5 rolls |
| 916 | Geocomposite Wall Joint Drain | 100 sq ft | 10 m ² |
| 910 | Geotextile Blanket | 400 sq yd | 330 m ² * |
| 910 | Geotextile Liner/ Riprap | 300 sq yd | 300 m ² * |
| 910 | Geotextile Liner/Heavy Riprap | 200 sq yd | 200 m ² * |
| 910 | Geotextile Stabilizer/Separator | 300 sq yd | 300 m ² * |
| 916 | Geotextile Silt Fence | 1000 ln ft | 150 m |

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| <u>MATERIAL</u> | | <u>MAXIMUM V.I.</u> | |
|-----------------|-------------------------------------|--|--|
| | | <u>English</u> | <u>Metric</u> |
| 920 | Glass Beads | 500 lbs | 227 kg |
| 902 | Granular, Class I | 100 tons | 100 t |
| 902 | Granular, Class II (Subbase) | 400 cu yd | 400 m ³ |
| 902 | Granular, Class II (Abutment b.f.) | 100 cu yd | 100 m ³ |
| 902 | Granular, Class IIA | 100 cu yd | 100 m ³ |
| 902 | Granular, Class III | 400 cu yd | 400 m ³ |
| 902 | Granular, Class IIIA | 100 cu yd | 100 m ³ |
| 908 | Guardrail Beam Elements | 125 ln ft | 38 m |
| 908 | Guardrail Posts, Steel | 25 posts | 25 posts |
| 918 | Handholes, Precast Concrete | 10 pcs | 10 pcs |
| 903 | Insulation Board, Polystyrene | 30 sq yd | 30 m ² |
| 903 | Interim Curing (Linseed Based) | 55 gals | 210 L |
| 914 | Joint Assemblies | Fabrication Inspection Required | |
| 914 | Joint Sealant, Hot Poured | 100 lbs | 45 kg |
| 909 | Mastic (Cold-Applied Joint Sealer) | 10 gals | 38 L |
| 903 | Membrane Curing Compound | 200 gals | 757 L |
| 909 | Metal End Sections | 4 pcs | 4 pcs |
| 908 | Metallic Waterstop | 25 sq ft | 2.3 m ² |
| 902 | Mineral Filler (Bit. Mixes) | 10 tons | 10 t |
| 914 | Neoprene Joint Seals | 1000 ft | 30 m |
| 922 | Paint (Traffic Paint) | 55 gal each color | 208 L each color (if not on QPL) |
| 909 | Polyethylene Pipe (Downspouts) | <12 in dia 250 ft | <300 mm dia - 76 m |
| | | >12 in dia 100 ft | >300 mm dia - 30 m |
| 903 | Polystyrene Insulation Board | 30 sq yds | 30 m ² |
| 913 | Precast Concrete Bases and Sumps | 10 pcs total | 10 pcs total |
| 918 | Precast Concrete Handholes | 10 pcs | 10 pcs |
| 909 | Precast Concrete End Sections | 10 pcs | 10 pcs |
| 913 | Precast Units for Dr. Structures | 10 pcs total | 10 pcs total |
| 909 | PVC Pipe | 600 ft | 180 m |
| 907 | Rail for Braces (Chain Link) | 300 ft | 91 m |
| 919 | Reflective Sheeting | 1 roll | 1 roll |
| 905 | Reinforcement Steel | 500 lbs | 227 kg |
| 917 | Seed and Seeding Mixtures | 100 lbs | 45 kg |
| 919 | Sign Posts, Galvanized Steel | 25 posts | 25 posts |
| 913 | Slope Paving Blocks | 1000 pcs | 1000 pcs |
| 909 | Smooth Plastic Pipe for Underdrains | 250 ft | 76 m |
| 907 | Steel Chain Link Fence Fabric | 260 ft | 80 m |
| 907 | Steel Posts/Chain Link Fence | 25 line, 15 gate posts | 25 line, 15 gate posts |
| 919 | Steel Posts/Delineator | 80 posts | 80 posts |
| 907 | Steel Posts/Woven Wire Fence | 80 line, 15 end corner & gate posts | 80 line, 15 end corner & gate posts |
| 905 | Steel Wire Fabric (Mesh) | 500 sq yds | 418 m ² |
| 913 | Structural Tile | 1000 tiles | 1000 tiles |
| 907 | Top Rail (Chain Link) | 250 ft | 80 m |
| 907 | Tension Wire | 500 ft | 150 m |
| 914 | Tie Bars | 500 lbs | 227 kg |
| 912 | Wood Fence Posts | 25 posts | 25 posts |
| 912 | Wood Guide, Guard and Mailbox | 20 posts | 20 posts |
| 919 | Wood Sign Posts | 25 posts | 25 posts |
| 907 | Woven Wire Fencing | 1000 ft | 310 m |

*See Remarks in Acceptance Requirements Section

VISUAL INSPECTION ITEMS – by Specification Number

| <u>MATERIAL</u> | | <u>MAXIMUM V.I.</u> | |
|-----------------|--------------------------------------|--|--|
| | | <u>English</u> | <u>Metric</u> |
| 501 | Bituminous Mixtures | 500 tons/project/mix | 453,600 kg - 454 tons/project/mix |
| 901 | Cement | 45 tons | 45,360 kg - 45 t |
| 902 | Coarse Aggregate | 100 tons | 100 t |
| 902 | Dense-Graded Aggregate | 500 tons | 500 t |
| 902 | Open-Graded Aggregate | 100 tons | 100 t |
| 902 | Granular, Class I | 100 tons | 100 t |
| 902 | Granular, Class II (Subbase) | 400 cu yds | 400 m ³ |
| 902 | Granular, Class II (Abutment b.f.) | 100 cu yds | 100 m ³ |
| 902 | Granular, Class IIA | 100 cu yds | 100 m ³ |
| 902 | Granular, Class III | 400 cu yds | 400 m ³ |
| 902 | Granular, Class IIIA | 100 cu yds | 100 m ³ |
| 902 | Fine Aggregate | 100 tons | 100 t |
| 902 | Mineral Filler (Bit. Mixes) | 10 tons | 10 t |
| 903 | Membrane Curing Compound | 200 gals | 840 L |
| 903 | Interim Curing (Linseed Based) | 55 gals | 210 L |
| 903 | Polystyrene Insulation Board | 30 sq yds | 30 m ² |
| 904 | Asphalt Binder | 30 tons | 27,216 kg - 27 t |
| 904 | Asphalt Cement (WOA) | 5 gals | 19 L |
| 904 | Liquid Asphalt (RC-250) | 5 gals | 19 L |
| 904 | Emulsified Asphalt (Bond Coat) | 1000 gals | 3785 L |
| 905 | Bar Reinforcement (all) | 500 lbs | 230 kg |
| 905 | Steel Wire Fabric (Mesh) | 500 sq yds | 418 m ² |
| 907 | Woven Wire Fencing | 1000 ln ft | 310 m |
| 907 | Barbed Wire | 1000 ln ft | 310 m |
| 907 | Steel Posts/Woven Wire Fence | 80 line, 15 end corner & gate posts | 80 line, 15 end corner & gate posts |
| 907 | Steel Chain Link Fence Fabric | 260 ft | 80 m |
| 907 | Tension Wire | 500 ft | 150 m |
| 907 | Top Rail (Chain Link) | 260 ft | 80 m |
| 907 | Steel Posts/Chain Link Fence | 25 line, 15 gate post s | 25 line, 15 gate posts |
| 907 | Rail for Braces (Chain Link) | 300 ft | 91 m |
| 908 | Metallic Waterstop | 25 sq ft | 2.3 m ² |
| 908 | Guardrail Beam Elements | 125 ft | 38 m |
| 908 | Guardrail Posts, Steel | 25 posts | 25 posts |
| 909 | Reinforced Concrete Pipe | 5 pcs of 42 in dia or less | 5 pcs of 1000 mm dia or less |
| 909 | Non-Reinforced Concrete Pipe | 10 pcs | 10 pcs |
| 909 | Corrugated Steel Pipe | * | * |
| | 12" - 300 mm or less | 125 ln ft | 38 m |
| | 15" to 54" - 375 mm to 1350 mm | 50 ln ft | 15 m |
| | 60" -1500 mm or greater | 25 ln ft | 8 m |
| 909 | Corrugated Steel Sheets | * | * |
| | 12" - 300 mm or less | 125 ln ft | 38 m |
| | 15" to 54" - 375 mm to 1350 mm | 50 ln ft | 15 m |
| | 60" - 1500 mm or greater | 25 ln ft | 8 m |
| 909 | Metal End Sections | 4 pcs | 4 pcs |
| 909 | Coupling Bands | 5 pcs | 5 pcs |
| 909 | Corrugated Aluminum Sheets | 25 sheets | 25 sheets |
| 909 | Corrugated Aluminum Alloy Pipe | 250 ln ft | 80 m |
| 909 | Bit. Coated Steel Pipe | * | * |
| 909 | PVC Pipe | 600 ln ft | 180 m |
| 909 | Corrugated Plastic Pipe | <12 in dia - 250 ft >12 in dia - 100 ft | <300 mm dia - 76 m >300 mm dia - 30 m |
| 909 | Smooth Lined Corrugated Plastic Pipe | Same as CPP | Same as CPP |
| 909 | Corrugated Galv. Steel Plates | 10 plates | 10 plates |
| 909 | Mastic (Cold-Applied Joint Sealer) | 10 gals | 38 L |
| 909 | Precast Concrete End Sections | 10 pcs | 10 pcs |

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|-----------------|-------------------------------------|---------------------------------|----------------------------------|
| | | <u>English</u> | <u>Metric</u> |
| 909 | CSP for Underdrains | * | * |
| 909 | Smooth Plastic Pipe for Underdrains | 250 ln ft | 76 m |
| 909 | Corrugated Plastic Tubing | 250 ln ft | 76 m |
| 909 | Polyethylene Pipe (Downspouts) | <12 in dia 250 ft | <300 mm dia - 76 m |
| | | >12 in dia 100 ft | >300 mm dia - 30 m |
| 910 | Geotextile Blanket | 400 sq yd | 330 m ² * |
| 910 | Geotextile Liner/Riprap | 300 sq yd | 300 m ² * |
| 910 | Geotextile Stabilizer/Separator | 300 sq yd | 300 m ² * |
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| 912 | Wood Fence Posts | 25 posts | 25 posts |
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| 913 | Clay and Sand Lime Brick | 1000 pcs | 1000 pcs |
| 913 | Concrete Brick | 1000 pcs | 1000 pcs |
| 913 | Concrete Block | 1000 units | 1000 units |
| 913 | Precast Units for Dr. Structures | 10 pcs total | 10 pcs total |
| 913 | Precast Concrete Bases and Sumps | 10 pcs total | 10 pcs total |
| 913 | Structural Tile | 100 tiles | 1000 tiles |
| 913 | Slope Paving Blocks | 1000 pcs | 1000 pcs |
| 914 | Bituminized Fiber Joint Filler | 150 sq ft | 14 m ² |
| 914 | Hot Poured Joint Sealant | 100 lbs | 45 kg |
| 914 | Neoprene Joint Seals | 100 ft | 30 m |
| 914 | Epoxy Binder | 5 gals | 19 L |
| 914 | Dowel Bars | 240 bars | 240 bars |
| 914 | Joint Assemblies | Fabrication Inspection Required | |
| 914 | Deformed Bars | 500 lbs | 227 kg |
| 914 | Tie Bars | 500 lbs | 227 kg |
| 914 | Bolts for Structure Exp. Anchor | 250 units | 250 units |
| 916 | Geotextile Silt Fence | 500 ft | 150 m |
| 916 | Geocomposite Wall Joint Drain | 100 sq ft | 10 m ² |
| 917 | Seed and Seeding Mixtures | 100 lbs | 45 kg |
| 918 | Precast Concrete Handholes | 10 pcs | 10 pcs |
| 918 | Electrical Conduit, Polyethylene | 400 ft | 122 m |
| 918 | Electrical Conduit, Rigid | 400 ft | 122 m |
| 919 | Aluminum Sheet | 100 sq ft | 9 m ² |
| 919 | Reflective Sheeting | 1 roll | 1 roll |
| 919 | Delineator Reflectors | 25 pcs each color | 25 pcs each color |
| 919 | Steel Delineator Posts | 80 posts | 80 posts |
| 919 | Galvanized Steel Sign Posts | 25 posts | 25 posts |
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| 922 | Calcium Chloride Solids | 5000 lbs | 2268 kg |
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| Misc. | Clay Pipe | 10 pcs | 10 pcs |
| Misc. | Cast & Ductile Iron Pipe | 250 ft | 76 m |
| Misc. | Asphalt Emulsion (Tackifier) | 500 gals | 1514 L |
| Misc. | Fiberglass and Bit. Cotton Fabric | 5 rolls | 5 rolls |

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