



10/24/2016



Materials	
MAC Material	Comment
104 - Prevention, Control, and Abatement of Erosion and Water Pollution	For contracts with floating turbidity barrier. This MAC Spec is a reminder to the project personnel if the material is incorporated into the final project, it must be on the APL. No sampling and testing is required.
120 - Excavation and Embankment	
121 - Flowable Fill	MAC Spec not yet created by State Materials Office. If you have this on your contract, please contact the MAC System Administrator.
125 - Excavation for Structures and Pipe	
145 - Geosynthetic Reinforcement	
160 - Stabilizing	
162 - Prepared Soil Layer	
200 - Rock Base	
204 - Graded Aggregate Base	Select for delivery ticket certification method of acceptance for projects with graded aggregate base. Log samples under the 200 MAC Spec.
234 - Superpave Asphalt Base	
285 - Optional Base Course	Do not select. There are no MAC Specs for this material. Select 200 instead.
287 - Asphalt Treated Permeable Base	
288 - Cement Treated Permeable Base	
330 - Hot Mix Asphalt – General Construction Requirements	Select for Rolling Straightedge and Laser Profiler method of acceptance on projects with Material 337.
334 - Superpave Asphalt Concrete	
336 - Asphalt Rubber Binder	No MAC Specs are needed for this section. Do not select.
337 - Asphalt Concrete Friction Courses	
338 - Value Added Asphalt Pavement	
339 - Miscellaneous Asphalt Pavement	No MAC Specs are needed for this section. Do not select.
340 - Open Graded Crack Relief Layer	
346 - Portland Cement Concrete	
347 - Portland Cement Concrete - Class NS	

350 - Cement Concrete Pavement	
353 - Concrete Pavement Slab Replacement	
355 - Value Added Portland Cement Concrete Pavement	No MAC Specs are needed for this section. Do not select. This is not for project acceptance.
407 - Three-Sided Precast Concrete Culvert	Select if there are 3 sided precast concrete box culverts for certification method of acceptance.
410 - Precast Concrete Box Culvert	Select if there are precast concrete box culverts for certification method of acceptance.
413 - Sealing Cracks and Concrete Structure Surfaces	
415 - Reinforcing for Concrete	No MAC Specs are needed for this section. Do not select.
415 - Reinforcing Steel	Use this version for all contracts. Section changed title in 07/2016, but all MAC Spec workbook versions are on this Material. This is for plastic chairs and bolsters. Use 931 for the actual reinforcing steel sampling and testing and certified mill analysis.
430 - Pipe Culvert	No MAC Specs are needed for this section. Do not select. Select 449 and 450 instead.
446 - Edgedrain (Draincrete)	
449 - Precast Concrete Drainage Products	Select if there are precast concrete pipes for the certification method of acceptance.
450 - Precast Prestressed Concrete Construction	
453 - Epoxy Jointing of Precast Segments	
455 - Structures Foundations	
457 - Integral Pile Jackets	This is a project specific material. PAs should contact the SMO Physical Lab to ensure the Financial Project Id is assigned to the MAC Spec under this material id.
460 - Structural Steel and Miscellaneous Metals	Do not select. There are no MAC Specs for this material. Select 960 instead.
506 - Bridge Drainage System	
522 - Concrete Sidewalk and Driveways	Do not select. There are no MAC Specs for this material. Select 347 instead.
523 - Patterned Pavement	
524 - Concrete Ditch and Slope Pavement	Do not select. There are no MAC Specs for this material. Select 347 instead.
526 - Architectural Pavers	
530 - Riprap	

536 - Guardrail	If guardrail is on the contract, select this material for certification method of acceptance. Also select 536 - Guardrail under Program MAC Specs (random sampling) and 536 - Guardrail under APL Specs. Guardrail Method of Acceptance is certification and APL and it is a random sample material.
548 - Retaining Wall Systems	
550 - Fencing	
570 - Performance Turf	No MAC Specs are needed for this section. Do not select.
700 - Highway Signing	
901 - Coarse Aggregate	Has a Project MAC Spec for delivery ticket requirements. Select for projects with bedding stone (Section 125), ARMI (Section 341), French Drains (Section 443), Articulating Block (Section 530), Retaining Walls with bedding stone (Section 548).
902 - Fine Aggregate	Has a Project MAC Spec for delivery ticket requirements. Select for projects with fine aggregate for underdrains (Section 440).
911 - Limerock Material for Base and Stabilized Base	Has a Project MAC Spec for delivery ticket requirements. Use for projects with limerock base and stabilized base.
913 - Shell Material	No MAC Specs are needed for this section. Do not select.
913A - Shell – Rock Material	No MAC Specs are needed for this section. Do not select.
914 - Stabilization Materials	Do not use. Project specific requirements are included in Material 160.
915 - Cemented Coquina Shell Material	No MAC Specs are needed for this section. Do not select.
916 - Bituminous Materials	Do not use in Materials. Will be selected under Program MAC Specs.
917 - Mineral Filler	No MAC Specs are needed for this section. Do not select.
919 - Ground Tire Rubber for Use in Asphalt Rubber Binder	Do not use in Materials. Will be selected under Program MAC Specs.
921 - Portland Cement and Blended Cement	No MAC Specs are needed for this section. Do not select.
923 - Water for Concrete	No MAC Specs are needed for this section. Do not select.
924 - Admixtures for Concrete	No MAC Specs are needed for this section. Do not select.
925 - Curing Materials for Concrete.	Do not use in Materials. Will be selected under Program MAC Specs.
926 - Epoxy Compounds	Do not use in Materials. Will be selected under Program MAC Specs.
929 - Pozzolans and Slags	No MAC Specs are needed for this section. Do not select.
930 - Concrete Repair Materials	Do not use in Materials. Will be selected under Program MAC Specs.
931 - Metal Accessory Materials for Concrete Pavement and Concrete Structures	Select for reinforcing steel (which is sampling and testing), welded wire reinforcement (certified mill analysis) and/or metal materials for joints in concrete pavement (certified mill analysis).
932 - Nonmetallic Accessory Materials for Concrete Pavement and Concrete Structures	Has a Project MAC Spec. Select if there are 932 materials being used on the project, for example, preformed joint filler or bearing pads.

933 - Prestressing Steel	For contracts let up to 06/2016
933 - Prestressing Strand and Bar	For contracts let on or after 07/2016
934 - Non-Shrink Grout	Do not use in Materials. Will be selected under Program MAC Specs.
937 - Post-Installed Anchor Systems for Structural Applications in Concrete Elements	Has a Project MAC Spec. Select if an adhesive bonding material system is being used on the project.
938 - Duct Filler for Post-Tensioning Structures	Do not use in Materials. Will be selected under Program MAC Specs.
938 - Post-Tensioning Grout	No MAC Specs are needed for this section. Do not select.
942 - Precast Concrete Pipe Gaskets	Has a Project MAC Spec. Select if there is precast concrete pipe on the project.
943 - Corrugated Steel Pipe and Pipe Arch (Including Underdrain)	Has a Project MAC Spec. Select if there is corrugated metal pipe on the project.
944 - Structural Plate Steel Pipe and Pipe Arch	Has a Project MAC Spec. Select if there is structural plate steel pipe on the project.
945 - Aluminum Pipe, Including Underdrain, Pipe Arch and Structural Plate Pipe and Pipe Arch	Has a Project MAC Spec. Select if there is aluminum pipe on the project.
946 - Cast Iron Pipe	No MAC Specs are needed for this section. Do not select.
948 - Optional Drainage Products and Liner Repair Systems	Has a Project MAC Spec. Select if there is optional drainage pipe product on the project.
949 - Brick and Concrete Masonry Units for Manholes, Inlets and Other Structures	Has a Project MAC Spec. Select if there are clay or shale bricks, concrete blocks or concrete bricks on the project.
951 - Inspection of Timber Products	No MAC Specs are needed for this section. Do not select.
952 - Structural Timber	No MAC Specs are needed for this section. Do not select.
953 - Timber Piling (Including Timber Sheet Piling)	No MAC Specs are needed for this section. Do not select.
954 - Timber Fence Posts and Braces	No MAC Specs are needed for this section. Do not select.
955 - Timber Treatment (Including Treating Materials)	No MAC Specs are needed for this section. Do not select.
960 - Post-Tensioning Components	No MAC Specs are needed for this section. Do not select.
962 - Structural Steel and Miscellaneous Metal Items (Other than Aluminum)	Select for contracts with structural steel and other items in Section 962 that require a certified mill analysis to be submitted to SMO for review.
965 - General Provisions for Aluminum Items (Including Welding)	Has a Project MAC Spec. Select if there are aluminum materials on the project.
967 - Rail Elements for Guardrail	Select for steel rail elements for guardrail. Certified mill analysis must be submitted to SMO for review.
967 - Rail Elements for Guardrail	Has a Project MAC Spec. Select if there are steel guardrail elements on the project.
970 - Materials for Raised Retroreflective Pavement Markers & Bituminous Adhesive	Has a Project MAC Spec. Select if there are rpms the project.

971 - Pavement Marking Materials	Has a Project MAC Spec. For contracts up on or after 07/2015.
971 - Traffic Marking Materials	Has a Project MAC Spec. For contracts up until 07/2015.
972 - Recycled Plastic Products	No MAC Specs are needed for this section. Do not select.
973 - Fiber Reinforced Polymer (FRP) Composite Structural Materials	Has a Project MAC Spec. Select if there are bridge fender systems the project.
975 - Structural Coating Materials	Has a Project MAC Spec. Select if there are coatings applied to elements in the field on the project.
982 - Fertilizer	Has a Project MAC Spec. Select if there is fertilizer on the project.
985 - Geosynthetic Materials	A Project MAC Spec was created with categories to replace the categories in individual MAC Specs (like MAC Spec 120, 145, 548).
987 - Prepared Soil Layer Materials	No MAC Specs are needed for this section. Do not select.
993 - Object Markers & Delineators	Has a Project MAC Spec. Select if there are object markers or delineators on the project.
994 - Retroreflective and Non-reflective Sheeting and Sign Panel Fabrication	Has a Project MAC Spec. Select if there are signs or sign panels on the project.
<i>All other materials are project specific. Financial Project Id must be assigned to the MAC Spec before the material will be available for selection on the Materials tab.</i>	
Program MAC Specs	
<i>Only select these program MAC Specs for non-standard JGS. Do not select Program MAC Specs for materials unless they are being used on the contract.</i>	
Program MAC Specs	Comment
453 - Epoxy Jointing of Precast Segments	Random Sampling
523 - Patterned Pavement	Random Sampling
536 - Guardrail	Random Sampling
916 - Bituminous Materials	Select to include the program extraction/recovery samples that are sampled by project personnel and sent to the SMO on the JGS.
919 - Ground Tire Rubber for Use in Asphalt Rubber Binder	Select to include the program samples that are sampled by project personnel and sent to the SMO on the JGS.
925 - Curing Materials for Concrete	Random Sampling
926 - Epoxy Compounds	Random Sampling
930 - Materials for Concrete Repair	Random Sampling
932 - Nonmetallic Accessory Materials for Concrete Pavement and Concrete Structures	Random Sampling
934 - Non-shrink Grout	Random Sampling
937 - Post-Installed Anchor Systems for Structural Applications in Concrete Elements	Random Sampling

938 - Duct Filler for Post-Tensioning Structures	Random Sampling
970 - Materials for Raised Retroreflective Pavement Markers & Bituminous Adhesive	Random Sampling
971 - Pavement Marking Materials	Random Sampling
975 - Structural Coating Materials	Random Sampling
993 - Object Markers & Delineators	Random Sampling
994 - Retroreflective and Non-reflective Sheeting and Sign Panel Fabrication	Random Sampling. DO NOT SELECT. This MAC Spec is only used by SMO when testing signs randomly selected from existing roadways (not on current projects).
APL Specs	
APL Spec	Comment
102 - Maintenance of Traffic Items	
400 - Applied Finish Coatings	
413 - High Molecular Weight Methacrylate (HMWM)	
415 - Reinforcing Steel	
455 - Pile Splice Systems	
458 - Bridge Deck Joints	
462 - Elastomeric Coating	
471 - Polymeric Fender Systems	
521 - Barrier Delineator - Barrier Walls	
523 - Patterned Pavement	Program MAC Spec 523 (random sampling) should also be selected.
527 - Detectable Warnings on Walking Surfaces	
534 - Sound Barriers	
536 - Guardrail	Material 536 - Guardrail should also be selected. Program MAC Spec 536 - Guardrail (random sampling) should also be selected.
544 - Crash Cushions (For Temporary Crash Cushions, see 102 Maintenance of Traffic Items)	
546 - Rumble Strips	
548 - Retaining Wall Systems	
560 - Structural Steel Coating Systems for New Structures	
561 - Structural Steel Coating Systems for Existing Structures	
562 - Galvanizing Repair Materials	
563 - Anti-Graffiti Coatings	
620 - Grounding and Lightning Protection	
635 - Pull, Splice and Junction Boxes	
639 - Electrical Power Assemblies	
641 - Prestressed Concrete Poles	

649 - Steel Strain Poles, Steel Mast Arms and Monotube Assemblies	
650 - Vehicular Traffic Signal Assemblies	
653 - Pedestrian Signal Assemblies	
654 - Midblock Crosswalk Enhancement Assemblies	
659 - Mast Arm, Span Wire and Pole Mounting Assemblies	
660 - Vehicle Detection Systems	
663 - Signal Priority and Preemption Systems	
665 - Pedestrian Detector Assemblies	
671 - Traffic Controllers	
676 - Controller Cabinets	
678 - Traffic Controller Accessories	
680 - System Control Equipment	
682 - Video Equipment	
684 - Network Devices	
685 - Traffic Control System Auxiliaries	
700 - Highway Signing	
701 - Audible and Vibratory Pavement Markings	
702 - Wet Weather Pavement Markings	
705 - Delineators and Object Markers	
706 - Raised Pavement Markers	
709 - Two Reactive Component Traffic Markings	
710 - Water Base Traffic Paints	
711 - Thermoplastic - Alkyd	
713 - Permanent Tape (Standard)	
715 - Highway Lighting Systems	
741 - Traffic Monitoring Site Vehicle Sensor (Class II)	
742 - Traffic Monitoring Site Weigh-In-Motion Assembly	
743 - Traffic Monitoring Site Vehicle Speed/Classification Unit	
744 - Traffic Monitoring Site Solar Power Unit	
745 - Traffic Monitoring Site Inductive Loop Assembly	
746 - Traffic Monitoring Site Cabinet	
747 - Traffic Monitoring Site Modem	
785 - Intelligent Transportation Systems-Infrastructure	
925 - Curing Materials for Concrete	Program MAC Spec 925 (random sampling) should also be selected.

926 - Epoxy Compounds	If epoxy is for precast elements, program MAC Spec 453 (random sampling) should also be selected under Program MAC Specs. If epoxy is for other uses, program MAC Spec 926 (random sampling) should also be selected.
930 - Concrete Repair Materials	Program MAC Spec 930 (random sampling) should also be selected.
931 - Metal Dowel Bar Assemblies	
932 - Nonmetallic Accessory Materials for Concrete Pavement and Concrete Structures	
934 - Non-Shrink Grouts	Program MAC Spec 934 (random sampling) should also be selected.
937 - Structural Adhesive Types	Program MAC Spec 937 (random sampling) should also be selected.
938 - Duct Filler For Post-Tensioned Structures	Program MAC Spec 938 (random sampling) should also be selected.
942 - Resilient Connectors	
971 - Glass Beads	Program MAC Spec 971 (random sampling) should also be selected.
985 - Geosynthetic Materials	Has been revised from a category on each MAC Spec to a stand alone MAC Spec. Select for projects with pipe bedding (Section 125), Section 145, and Section 548.