

## HOW TO USE THE FIELD TESTED MATERIALS ACCEPTANCE GUIDE FOR TYPE D OR E PROJECTS ONLY

The use of this guide will only be allowed when specifically called out in Section 00165. 10 (a) of the project Special Provisions. This guide summarizes the testing requirements for various materials used in the construction of ODOT/ Local Agency projects. It indicates what tests must be performed, who must perform them, and how frequently they must be performed. It includes materials which are sampled and tested in the field and materials which are field sampled but sent elsewhere for testing. When a contract requires Quality Control (QC) by the Contractor, samples that must be sent elsewhere for testing are delivered to the Project Manager along with the Sample Data Sheet (Form 734-4000). Examples of this and other test report forms are in Section 3 of this manual.

Materials in this guide are listed in the numerical order of the Standard Specifications and the project special provisions. To find the testing requirements for a particular material, first determine what it will be used for and then refer to the appropriate Specifications Section for that product. For example, to look up testing requirements for aggregate to be used in asphalt concrete paving, refer to Section 00745.

### Definitions

**SAMPLE SIZES** – Refer to Section 4(C) for guidance on material sample sizes, containers, and labeling. Although designed for the ODOT Central Materials Laboratory (ODOT-CML), it is a good guide for samples being sent to any laboratory.

**ASPHALT CONCRETE MIX DESIGNS** – If the ODOT-CML is preparing the AC mix design, submit samples of the materials shown in Section 4(C) of this manual.



## TYPES OF TESTS For TYPE D OR E PROJECTS ONLY

This Section is only to be used on projects where the Special Provisions specifically call out Contractor Quality Control Type D or E. The following types of tests will be performed by the Contractor or Engineer on materials and products required for contract work:

1. **Source Review** – This test type is addressed in Section 4(A) of this Manual. The Engineer will test unprocessed material from an aggregate source, if requested by the Contractor, to provide information about the quality of material. Tests will involve degradation, soundness, and abrasion, but may involve other tests. Favorable test results do not imply that processed material from the source will comply with specifications after it is processed as required for the project.
2. **Product Compliance** – This test type is addressed in Section 4(A) of this Manual. This section shall be complied with except that under Product Compliance the contractor may elect to use the ODOT Central Laboratory or a nationally credited private laboratory approved by the Engineer. The material shall not be incorporated into the project unless Product Compliance tests show favorable results.
3. **Quality Control** – The Contractor will perform quality control testing as described in Section 2 and specified in Section 5 of this Manual or as modified by the Special Provisions or Supplemental Standard Specifications.
4. **Quality Assurance** – The Engineer shall review documentation to assure its accuracy and completeness. The Engineer may elect to have additional testing performed by certified technicians.
5. **Production Control Testing** – Testing performed by the contractor or producer at a rate that assures the provided material meets the quality specified.
6. **Visual** – Visual Inspection: Examination and assessment of construction materials, by **OBSERVATION**, to determine if the materials appear to meet the contract requirements and are acceptable for incorporation into construction projects. Visual inspection, when stated in the contract, is a method generally used by the Project Inspector in lieu of normal sampling and testing of field tested materials as defined in section 00165.00 of the Standard Specifications to document quality. Supporting documentation for visual acceptance is, at a minimum, a field inspection report. Consult the construction contract for other acceptance document requirements.



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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance			
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E				
SECTION 00330-EARTHWORK  (See Sec. 330.16(a)) Soil and Soil/Aggregate Mixtures  Establishing Maximum Density (for Compaction)	Gradation					Contractor Furnished Testing	Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00300	Review Documentation for Acceptance			
	Density Curve			T 99	3468	1/Soil type					
	Bulk Specific Gravity			T 85	3468						
	Family of Curves			R 75	3468FC		Visual				
	Deflection Testing	TM 158			1793S	1 Test per 3 ft. in depth					
Compaction	Nuclear Gauge			T 310	1793S			Review Documentation for Acceptance			
	Coarse Particle Correction			T 99	1793S	See Table 00330-1 Below	Visual				
	Deflection Testing	TM 158			1793S						

**TABLE 00330-1 Frequency of Quality Control Testing**

Individual Areas	Under 3500 yd <sup>2</sup> or yd <sup>3</sup>		Over 3500 yd <sup>2</sup> or yd <sup>3</sup>			
	Existing Ground Surface	1 test per 1000 yd <sup>2</sup>	1 test per 1000 yd <sup>2</sup>	1 test per 3000 yd <sup>2</sup>	1 test per 3000 yd <sup>2</sup>	
Embankments	1 test per 500 yd <sup>3</sup>	1 test per 500 yd <sup>3</sup>	1 test per 3000 yd <sup>3</sup>	1 test per 3000 yd <sup>3</sup>		
Excavations and Finished Subgrade	1 test per 1000 yd <sup>2</sup>	1 test per 1000 yd <sup>2</sup>	1 test per 3000 yd <sup>2</sup>	1 test per 3000 yd <sup>2</sup>		
Gradation	Contractor Furnished Testing					
Deflection Testing	TM 158		1793S	1 per Layer		
<p><b>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</b></p>						
Imported Topsoil (See Section 01040.14(b))	Compliance		4000	Contractor Testing 1/Source & 1/Soil type	Visual	Review Documentation for Acceptance

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
<b>SECTION 00331 - SUBGRADE STABILIZATION</b> Aggregate backfill	Material must meet the requirements of Section 00331.10					Contractor Testing		Review Documentation for Acceptance
						Contractor Testing	Visual	
						Visual		
Water	Material must meet the requirements of Section 00340					Contractor Testing		Review Documentation for Acceptance
						Visual		
Compaction	Material must meet the requirements of Section 00331							Review Documentation for Acceptance
<b>SECTION 00332 - SURFACING STABILIZATION</b> Aggregate Base	Material must meet the requirements of Section 00332.10							Review Documentation for Acceptance
						Visual	Visual	
Compaction	Material must meet the requirements of Section 00332							Review Documentation for Acceptance
<b>SECTION 00333 - AGGREGATE DITCH LINING</b> Aggregate	Sampling Reducing Sieve Analysis							Review Documentation for Acceptance
					R 90 R 76 T 27/T 11	1/Project or 1/Source	Visual	
						1792		

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
<b>SECTION 00344 - TREATED SUBGRADE</b>								
Granular Quicklime	Sieve Analysis Calcium Hydroxide Content in lime			T 27 T 219	4000 4000	Contractor Testing 1/Source	Manufacture Compliance Statement	Review Documentation for Acceptance
Hydrated Lime Calcium Chloride Sodium Chloride	Materials must meet the requirements of Section 00344.10 and Test Results Certificate provided according to Section 00165.35(a)							
Portland Cement Water	Material must meet the requirements of Section 02010							
Establishing Maximum Density (for Compaction)	Material must meet the requirements of Section 00340							
Compaction	Density Curve Maximum Specific Gravity				3468	See Special Provisions and Table 00344-1 Below	Visual	Review Documentation for Acceptance
	Deflection Testing	TM 158			1793S			
	Deflection Testing Nuclear Gauge	TM 158		T 310	1793S			
	Coarse Particle Correction			T 99				
<b>TABLE 00344-1 Frequency of Quality Control Testing</b>								
<b>Individual Areas</b>					<b>Under 3500 yd<sup>2</sup></b>		<b>Over 3500 yd<sup>2</sup></b>	
Finished Subgrade					1 test per 1000 yd <sup>2</sup>		1 test per 3000 yd <sup>2</sup>	

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	Quality Control		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
<b>SECTION 00360 - Drainage Blankets</b>								
Granular Drainage Blanket	Sampling Reducing Gradation			R 90 R 76 T 27/T 11	1792	1/sublot minimum 1/Source per Project	Visual	Review Documentation for Acceptance
Sand Drainage Blanket	Sampling Reducing Gradation			R 90 R 76 T 27/T 11	1792			
Establishing Maximum Density (for Compaction)	Density Curve			T 99	3468	1/Source and Type		
	Bulk Specific Gravity			T 85	3468			
Compaction	Deflection Testing	TM 158			1793S	1 Test per 3 ft. in depth		
	Deflection Testing Nuclear Gauge Coarse Particle Correction	TM 158		T 310 T 99	1793S	See Table 00360-1 Below	Visual	Review Documentation for Acceptance
					1793S			

**TABLE 00360-1 Frequency of Quality Control Testing**

Individual Areas	Frequency of Quality Control Testing	
	Under 3500 yd <sup>2</sup>	Over 3500 yd <sup>2</sup>
Existing Ground Surface	1 test per 1000 yd <sup>2</sup>	1 test per 3000 yd <sup>2</sup>
Finished Surfaces	1 test per 1000 yd <sup>2</sup>	1 test per 3000 yd <sup>2</sup>



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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
<b>SECTION 00390 - RIPRAP PROTECTION</b>								
Fill Material & Riprap	Gradation See 00390.11(c)1					Contractor Furnished Testing	Visual	Review Documentation for Acceptance
	Degradation Soundness Apparent Specific Gravity & Absorption	TM 208		T 104 T 85	4000 1825	Contractor Furnished Testing	Provide History of Passing Tests	
	Filter Blanket					Contractor Testing When Required	Visual	
Grouted Riprap Sand	Gradation See 00390.13							Review Documentation for Acceptance
	Sampling Reducing Sieve Analysis			R 90 R 76 T 27/T 11	1792	1/Project	Visual	
Portland Cement	Soundness Lightweight Pieces			T 104 T 113	4000	Contractor Furnished Testing	Provide History of Passing Tests	Review Documentation for Acceptance
	<i>Material must meet the requirements of Section 02010</i>							

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
<b>SECTION 00396 - SHOTCRETE SLOPE STABILIZATION</b>								
Aggregate Production and Mixture							A Sublot equals 1000 Tons	Review Documentation for Acceptance
( <sup>1</sup> ) QAE may waive after 5 sublots/shifts	Sampling Reducing			R 90 R 76			1/Sublot & Start of Production	
( <sup>2</sup> ) Coarse Aggregate (See Section 02690.20)	( <sup>2</sup> )( <sup>3</sup> ) Sieve Analysis ( <sup>3</sup> ) Fineness Modulus ( <sup>1</sup> )( <sup>2</sup> ) Wood Particles ( <sup>3</sup> ) Sand Equivalent	TM 225		T 27/T 11 T 27/T 11 T 176			Provide History of Passing Tests	
( <sup>3</sup> ) Fine Aggregate (See Section 02690.30)	Soundness Abrasion Degradation Lightweight Pieces Organics	TM 208		T 104 T 96 T 113 T 21	4000		Contractor Furnished Testing	
	( <sup>2</sup> ) Dry Rodded Unit Weight ( <sup>2</sup> )( <sup>3</sup> ) Bulk Specific Gravity & Absorption			T 19 T 84 & T 85			Start of production and when changes in aggregate occurs	
Portland Cement Admixtures								
Mixing Water								
Production Testing (See Section 00396.14)								
( <sup>S</sup> ) 3 Cores minimum per Panel								
Compression Test Cores	Strength			T 22	4000C		1/Set Cores per Test panel	Review Documentation for Acceptance

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control			Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E	
<b>SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL</b>									
<b>TRENCH FOUNDATION -- Excavation below grade only</b>									
Selected general backfill								Requires Signed and Notarized Statement of Compliance From All Contractors For All Items Under Section 00400	Review Documentation for Acceptance
	Material must meet the requirements of Section 00330.13						Contractor Furnished Testing		
Selected granular backfill									
	Material must meet the requirements of Section 00330.14								
Selected stone backfill								Visual	
Other approved material									
	Material must meet the requirements of Section 00405.11								
Establishing Maximum Density	Density Curve			T 99	3468			Visual	
	Bulk Specific Gravity			T 85	3468			Visual	
	Family of Curves			R 75	3468FC				
	Nuclear Gauge Coarse Particle Correction			T 310 T 99	1793S			1 Test per 300 ft. of Trench	
Compaction								Visual	Review Documentation for Acceptance

**Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.**

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		
<b>SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)</b>									
<b>Bedding</b>									
3/8" - 0	PCC fine aggregate (See Section 02690.30(h))	Sampling Reducing Sieve Analysis			R 90 R 76 T 27/T 11	1792	Contractor Provided Testing	Visual	Review Documentation for Acceptance
Commercial 3/4" - 0 Aggregate							Contractor Provided Testing	Visual	
No. 10 - 0 Sand drainage blanket material (See Section 00360.10)	Sampling Reducing Sieve Analysis				R 90 R 76 T 27/T 11	1792	Contractor Provided Testing	Visual	
Reasonably well graded sand, maximum 3/8" to dust							Contractor Provided Testing	Visual	
Commercial available 3/8"-0 or No.10 - 0 sand							1 per Sublot	Visual	
Continuous cradle of Commercial Grade Concrete							Contractor Provided Testing	Visual	Review Documentation for Acceptance

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control			Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E	
<b>SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)</b>									
<b>Pipe Zone Material</b>									
Flexible Pipe	Use the Listed Material requirements under Bedding								
Rigid Pipe: Aggregate Base 1" - 0 or 3/4" - 0 Aggregate  (See Section 02630.10)	Sampling Reducing Sieve Analysis				R 90	Contractor Provided Testing	Visual	Review Documentation for Acceptance	
					R 76				
					T 27				
Rigid Pipe: Commercial 1" - 0 or 3/4" - 0 Aggregate	Density Curve					Contractor Provided Testing	Visual	Review Documentation for Acceptance	
					(1) T 99				
					T 85				
Establishing Maximum Density  (1) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Bulk Specific Gravity					1/Source or Aggregate Gradation	Visual	Review Documentation for Acceptance	
					T 99				
Compaction	Coarse Particle Correction					1 test per 100 ft. of Trench and every 2.0 ft. of Fill	Visual	Review Documentation for Acceptance	
					T 310				
	Nuclear Gauge								

**Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.**

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control			Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E	
<b>SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)</b>									
<b>Trench Backfill</b>									
Class A Backfill - Native or common Material		Material must meet the requirements of Section 00330.43							
Class B Backfill - 1"-0 or 3/4"-0 Granular Material		Material must meet the requirements of Section 00641							
Class C Backfill - Clean sand with 100% minus 1/4" material									
Class D Backfill - Pit run or bar run material with 3" maximum dimension and well graded from coarse to fine									
Class E Backfill - Controlled Low Strength Material (CLSM)		Material must meet the requirements of Section 00442							
Establishing Maximum Density	Density Curve				(1) T 99	3468		Visual	Review Documentation for Acceptance
(1) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Bulk Specific Gravity				T 85	3468		Visual	Review Documentation for Acceptance
	Family of Curves				R 75	3468FC			
		Nuclear Gauge Coarse Particle Correction				T 310 T 99	1793S or 1793B		
Compaction								Visual	Review Documentation for Acceptance
(C) Density testing is based on cumulative lineal meters or feet of pipe placement.									
<b>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</b>									

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-734-	Quality Control		Quality Assurance						
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E					
<b>SECTION 00430 - SUBSURFACE DRAINS</b>													
Granular Drain Backfill Material	Sampling Reducing Sieve Analysis	R 90 R 76 T 27		1792	A Sublot equals 1000 Tons	Visual	Review Documentation for Acceptance						
								T 96	Minimum 1 Per Project				
										Contractor Provided Testing	Contractor Provided Testing		
Special Filter Material See Section 00430.46(a)	Abrasion Degradation	TM 208		4000									
<b>SECTION 00440 - COMMERCIAL GRADE CONCRETE</b>													
Mixture	Compaction	See section 405 for compaction requirements											
								Sampling Air Content Density (Unit Weight) Slump Concrete Temperature	TM 2	T 152 T 121 T 119 T 309	3573WS or 4000C	Contractor Provided Testing	Contractor Provided Testing
Modifiers Admixtures Portland Cement													
Structural Items	Strength			4000C	T 22 & T 23		Contractor Provided Testing						
								(M) (S) 1 Set / Day Minimum					
Except Visual Acceptance Items (See section 00440.14(a))  (S) 1 Set Represents a minimum of 3 Cylinders	Strength			4000C	T 22 & T 23		Contractor Provided Testing						
								(M) (S) 1 Set/20 yd <sup>3</sup> Cumulative (Maximum 1 Set/day)					
(M) Per Mix Design & Source							Review Documentation for Acceptance						

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	Quality Control		Quality Assurance	
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		
<b>SECTION 00442 - CONTROLLED LOW STRENGTH MATERIALS (CLSM)</b>									
CLSM Mixture	Mix Proportions Trial Batch Strength								
				T 22 & T 23	4000C		1/Project or Source	Contractor Provided Testing	Review Documentation for Acceptance
Modifiers		Material must meet the requirements of Section 02030							
Admixtures		Material must meet the requirements of Section 02040							
Portland Cement		Material must meet the requirements of Section 02010					Manufacture Compliance Statement	Review Documentation for Acceptance	
<b>SECTION 00445 - SANITARY, STORM, CULVERT, SIPHON, AND IRRIGATION PIPE - INCLUDED WITH SECTION 00405</b>									
<b>Trench Work</b>									
Excavation, bedding, pipe zone and trench backfill		See Section 00405 for pipes less than 72"							
		See Section 00510 for pipes greater than 72"					Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
Concrete Blocks		Material must meet the requirements of Section 00440							



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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control			
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
<b>SECTION 00450 - STRUCTURAL PLATE PIPE, PIPE ARCH AND ARCH</b>								
Commercial Grade Concrete in appurtenances	Material must meet the requirements of Section 00440							
<b>Trench Work</b>								
Excavation and Backfill	Operations must meet the requirements of Section 00510							
<b>Trenches in Unstable Areas</b>								
Granular Structural Backfill	Material must meet the requirements of Section 00510							
<b>Establishing Maximum Density</b>								
<sup>(1)</sup> Method "A"	Density Curve			<sup>(1)</sup> T 99				
	Bulk Specific Gravity Coarse Particle Correction	TM 223		T 85	Contractor Provided Testing			Visual
Compaction	Nuclear Gauge			T 310				
				1793 B	Contractor Provided Testing			Visual
Structure Backfill (Section 00450.46)	Material and Operation must meet the requirements of Section 00510.48(d)							
<b>SECTION 00459 - CAST IN PLACE CONCRETE PIPE</b>								
Concrete	Material must meet the requirements of Section 00540, with acceptance in accordance with Section 00540.17							
Backfill Material					Contractor Provided Testing			Contractor Provided Testing
					Contractor Provided Testing			Visual
Review Documentation for Acceptance								

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		ODOT	WAQTC	AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E		
<b>SECTION 00460 - PAVED CULVERT END SLOPES</b>								
Commercial Grade Concrete	Material must meet the requirements of Section 00440				Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance	
<b>SECTION 00470 - MANHOLES, CATCH BASINS AND INLETS</b>								
Commercial Grade Concrete	Material must meet the requirements of Section 00440							
Base Drain Backfill	Material must meet the requirements of Section 00470.17				Contractor Provided Testing	Visual	Review Documentation for Acceptance	
Excavation, Backfill and Foundation Stabilization	Material must meet the requirements of Section 00405							
<b>SECTION 00480 - DRAINAGE CURBS</b>								
Commercial Grade Concrete	Material must meet the requirements of Section 00440				Contractor Provided Testing	Visual	Review Documentation for Acceptance	
Dense Graded HMAC Mixture Level 2, (1/2")	Material must meet the requirements of Section 00744							

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		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
<b>SECTION 00490 - WORK ON EXISTING SEWERS AND STRUCTURES</b>								
Commercial Grade Concrete	Material must meet the requirements of Section 00440							
High Early Strength Concrete	Material must meet the requirements of Section 00440, but cement contents adjusted according to 00490.11				Contractor Provided Testing	Visual	Review Documentation for Acceptance	
Backfill Operations	Backfill Excavations according to section 405							
<b>Filling Abandoned Pipes, Manholes and Catch Basins (See section 00490.44)</b>								
Backfill Operations (Roadway)	Material must meet the requirements of Section 2630							
Establishing Maximum Density ( <sup>1</sup> ) Method "A"	Density Curve	( <sup>1</sup> ) T 99			Contractor Provided Testing	Visual	Review Documentation for Acceptance	
	Bulk Specific Gravity Coarse Particle Correction	T 85		3468 B				
Compaction	Nuclear Gauge	TM 223						
				1793B	1 Test per 100 ft. and every 1.5' of Fill	Visual		
Backfill Operations Landscaped or Unimproved Roadways	Material must meet the requirements of Section 00330.13				Contractor Provided Testing	Visual	Review Documentation for Acceptance	
Top 1.0' of Backfill Region	Material must meet the requirements of Section 00330.11							
<b>SECTION 00495 - TRENCH RESURFACING</b>								
Resurfacing Materials	See Section 00495.40 for Material Requirements				Contractor Provided Testing	Visual	Review Documentation for Acceptance	

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-734-	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
<b>SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL</b>								
Soils, Soil/Aggregate Mixtures and Graded Aggregates					A Sublot equals 1000 Tons			
<b>Granular Structure Backfill</b> (See Section 02630.10)  (1) Perform a minimum of 3 tests QL's required	Sampling Reducing			R 90 R 76 T 27 T 335 T 176		1/Sublot (Minimum 1/Project)	Review Documentation for Acceptance	
	(1) Sieve Analysis Fracture (Method 1) Sand Equivalent				1792			
								Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00500
								Minimum 1 per Project
Product Compliance	Abrasion Degradation Plasticity Index Sieve Analysis	TM 208		T 96 T 90 T 11		Contractor Provided Testing		
Establishing Maximum Density	Density Curve			(2) T 99				
(2) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Bulk Specific Gravity			T 85		1/Soil type or Aggregate Gradation	Visual	
Compaction	Coarse Particle Correction			T 99			Review Documentation for Acceptance	
	Nuclear Gauge				1793B	Min of 1 per lift	Visual	
<b>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</b>								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Contractor Quality Control Type D	Contractor Quality Control Type E
<b>SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL (CONTINUED)</b>									
Soils, Soil/Aggregate Mixtures and Graded Aggregates									
<b>Granular Wall Backfill</b> (See Section 02630.11)	Sampling Reducing					R 90 R 76 T 27 T 335	1/Sublot (Minimum 1/Project)	Contractor Provided Testing	Review Documentation for Acceptance
	( <sup>1</sup> ) Steve Analysis Fracture (Method 2)				1792				
Product Compliance	Abrasion					T 96	Contractor Provided Testing	Minimum 1 per Project	Review Documentation for Acceptance
	Degradation		TM 208		4000				
( <sup>2</sup> ) Compaction	( <sup>2</sup> ) Deflection Testing						1/Sublot (Minimum 1/Project)	Visual	
<p><b>Note: Compaction must meet the requirements of section 00330.43c</b></p> <p><b>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</b></p>									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
<b>SECTION 00512 - DRILLED SHAFTS</b>								
Aggregate Production	Sampling Reducing (2)/(3)/(4) Sieve Analysis (4) Fineness Modulus (1)/(3) Wood Particles (4) Sand Equivalent	TM 225			R 90	Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
(1) QAE may waive after 5 sublots/shifts					R 76			
(2) Perform a minimum of 3 tests QL's required					T 27/T 11 T 27/T 11			
(3) Coarse Aggregate (See Section 02690.20)					T 176			
(4) Fine Aggregate (See Section 02690.30)	Soundness Abrasion Degradation Lightweight Pieces Organics	TM 208			T 104 T 96	Contractor Provided Testing	Contractor Provided Testing	
	(3) Dry Rodded Unit Weight				T 113 T 21			
	(3)/(4) Bulk Specific Gravity & Absorption				T 19			
Portland Cement Modifiers Admixtures	Materials must meet the requirements of Section 02001.10				1825 1825C 1825	Minimum of 1 per Project	Minimum of 1 per Project	
Drilling Slurry	Slurry material must meet the requirements of Section 00512.14 & 00512.43(g)						Manufacture Compliance Statement	
Grout	Material must meet the requirements of Section 02080						Contractor Provided Testing	
Mixing Water	Material must meet the requirements of Section 02020						Manufacture Compliance Statement	Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
<b>SECTION 00512 - DRILLED SHAFTS (CONTINUED)</b>								
Portland Cement Concrete	Sampling Slump Concrete Temperature Density (Unit Weight) Yield Water/Cement Ratio  Strength	TM 2	T 119 T 309 T 121 T 121 T 121	3573WS or 4000C	(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.	(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.	Review Documentation for Acceptance	
(S) 1 Set Represents a minimum of 3 Cylinders								
(M) Per Mix Design & Source								

**TABLE 00512-1 Frequency of Quality Control Testing**

Minimum frequencies per Class of concrete based on daily production records.	
Production	Frequencies
0 to 100 yd <sup>3</sup> on a single day	1 Set each day
<b>Quantity Over 100 yd<sup>3</sup></b>	
100 to 600 yd <sup>3</sup> on a single day	1 Set per each 100 yd <sup>3</sup> or portion thereof
over 600 yd <sup>3</sup> on a single day	1 Set per each 200 yd <sup>3</sup> or portion thereof after reaching 600 yd <sup>3</sup>

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	Quality Control		Quality Assurance
		ODOT	ASTM	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
<b>SECTION 00535 - RESIN BONDED ANCHOR SYSTEMS</b>								
<b>Anchor Systems</b>								
Anchor Bolts, reinforcing steel and resin (Polyester, vinyl ester or epoxy)						A Sublot equals 50 Anchors		
<b>Anchor Installation</b>								
Demonstration Testing (See Section 00535.45(a))	Strength of Anchors in Concrete Elements				5189			Visual
		E 488				One demonstration Test includes 3 anchors (Resin shall be from same lot)		
Production Testing (See Section 00535.45(b))	Strength of Anchors in Concrete Elements				5189			Visual per Sublot
		E 488				<sup>(A)</sup> 1 Anchor/Sublot or portion thereof (Minimum 1/Shift)		
<sup>(A)</sup> Anchor testing is required per critical element identified in the Special Provisions or Plan Drawings.								



FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		
<b>SECTION 00540 - CONCRETE BRIDGES</b>									
Aggregate Production	Sampling Reducing			R 90 R 76		A Sublot equals 1000 Mg or 1000 Tons		Review Documentation for Acceptance	
(1) QAE may waive after 5 sublots/shifts	(2)/(3)/(4) Sieve Analysis			T 27/T 11 T 27/T 11	1792	Contractor Provided Testing	Contractor Provided Testing		
(2) Perform a minimum of 3 tests	(4) Fineness Modulus	TM 225		T 176					
(3) Coarse Aggregate (See Section 02690.20)	(1)/(3) Wood Particles			T 104 T 96	4000	Minimum 1 per Project	Minimum 1 per Project		
(4) Fine Aggregate (See Section 02690.30)	(4) Sand Equivalent			T 113 T 21					
	Soundness Abrasion	TM 208		T 19	1825 1825C	Contractor Provided Testing Minimum 1 per Project	Contractor Provided Testing Minimum 1 per Project		
	Degradation Lightweight Pieces Organics			T 84 & T 85	1825				
Portland Cement	(3) Dry Rodded Unit Weight							Review Documentation for Acceptance	
Modifiers	(3)/(4) Bulk Specific Gravity & Absorption								
Admixtures	Materials must meet the requirements of Section 02001.10					Manufacture Compliance Statement			
Mixing Water	Material must meet the requirements of Section 02020								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2019)			Same Frequency for all Tests (Minimums)												
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance												
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		Project Manager Type D & E											
<b>SECTION 00540 - CONCRETE BRIDGES (CONTINUED)</b>																				
Portland Cement Concrete																				
	Sampling Air Content Slump Concrete Temperature Density (Unit Weight) Yield Water/Cement Ratio Strength	TM 2			T 152 T 119 T 309 T 121 T 121 T 121	3573WS or 4000C	(M) (S) Test at minimum frequencies according to table 00540-1. Review specs.	(M) (S) Test at minimum frequencies according to table 00540-1. Review specs.	Review Documentation for Acceptance											
<p>(S) 1 Set Represents a minimum of 3 Cylinders</p> <p>(M) Per Mix Design &amp; Source</p>																				
<p><b>TABLE 00540-1 Frequency of Quality Control Testing</b></p> <p><b>Minimum frequencies per Class of concrete based on daily production records.</b></p> <table border="1"> <thead> <tr> <th><u>Production</u></th> <th><u>Frequencies</u></th> </tr> </thead> <tbody> <tr> <td>0 to 100 yd<sup>3</sup> on a single day</td> <td>1 Set each day</td> </tr> <tr> <td><b>Quantity Over 100 yd<sup>3</sup></b></td> <td></td> </tr> <tr> <td>100 to 600 yd<sup>3</sup> on a single day</td> <td>1 Set per each 100 yd<sup>3</sup> or portion thereof</td> </tr> <tr> <td>over 600 yd<sup>3</sup> on a single day</td> <td>1 Set per each 200 yd<sup>3</sup> or portion thereof after reaching 600 yd<sup>3</sup></td> </tr> </tbody> </table>											<u>Production</u>	<u>Frequencies</u>	0 to 100 yd <sup>3</sup> on a single day	1 Set each day	<b>Quantity Over 100 yd<sup>3</sup></b>		100 to 600 yd <sup>3</sup> on a single day	1 Set per each 100 yd <sup>3</sup> or portion thereof	over 600 yd <sup>3</sup> on a single day	1 Set per each 200 yd <sup>3</sup> or portion thereof after reaching 600 yd <sup>3</sup>
<u>Production</u>	<u>Frequencies</u>																			
0 to 100 yd <sup>3</sup> on a single day	1 Set each day																			
<b>Quantity Over 100 yd<sup>3</sup></b>																				
100 to 600 yd <sup>3</sup> on a single day	1 Set per each 100 yd <sup>3</sup> or portion thereof																			
over 600 yd <sup>3</sup> on a single day	1 Set per each 200 yd <sup>3</sup> or portion thereof after reaching 600 yd <sup>3</sup>																			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
<b>SECTION 00556 - MULTI-LAYER POLYMER CONCRETE OVERLAY</b>								
Aggregate Production								
	Moisture Content			T 255/265	1792	At time of mixing the polymer resin. See 00556.10-b.		
						Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
Polymer Resin								
						Material must meet the requirements of section 00556.10		Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
<b>SECTION 00559 - SILICA FUME AND LATEX MODIFIED CONCRETE OVERLAYS</b>								
Aggregate Production								A Sublot equals 500 Tons. A minimum one per shift, whichever results in the greatest sampling frequency. (For preproduced aggregates, 1 shift shall mean 500 Tons.)
(1) QAE may waive after 5 sublots/shifts	Sampling Reducing			R 90 R 76				Review Documentation for Acceptance
(2) Perform a minimum of 3 tests, QL's required	(2)(3)(4) Sieve Analysis (4) Fineness Modulus (4) Sand Equivalent			T 27/T 11 T 27/T 11 T 176	1792 1792	Contractor Provided Testing	Contractor Quality Control Type E	
(3) Coarse Aggregate (See Section 02690.20 & 00559.10)	(1)(3) Elongated Pieces (1)(3) Wood Particles	TM 229 TM 225			1792			Review Documentation for Acceptance
(4) Fine Aggregate (See Section 02690.30 & 00559.10)	Abrasion Degradation Soundness Lightweight Pieces Organics	TM 208		T 96 T 104 T 113 T 21	4000 4000	Minimum 1 Per Project	Minimum 1 Per Project	
	(3) Dry Rodded Unit Weight			T 19	1825 1825C		Start of production and when changes in aggregate occurs	Review Documentation for Acceptance
	(3)(4) Bulk Specific Gravity & Absorption			T 84 & T 85	1825		Start of production and when changes in aggregate occurs	
Portland Cement Modifiers Admixtures		Materials must meet the requirements of Section 02001.10						
Mixing Water		Material must meet the requirements of Section 02020						

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)																								
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance																						
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		Project Manager Type D & E																					
<b>SECTION 00559 - SILICA FUME AND LATEX MODIFIED CONCRETE OVERLAYS (CONTINUED)</b>																														
<b>SFC AND LMC</b>	Sampling Air Content Slump Concrete Temperature Density (Unit Weight) Yield W/C Ratio	TM 2	T 152 T 119 T 309 T 121 T 121 T 121	3573WS or 4000 C	A subplot equals 1 set of tests per 50 yd <sup>3</sup>	Contractor Quality Control Type D	Contractor Quality Control Type E	Review Documentation for Acceptance																						
									Latex Modified Concrete	Fine Aggregate Moisture	1792	Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance																
															<sup>(M)</sup> Per Mix Design & Source	Mixer Calibration	Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance											
																				SFC and LMC	Strength	4000C	<sup>(M)</sup> <sup>(S)</sup> 1 Set Cylinders per 50yd <sup>3</sup> Minimum 1 set/shift	<sup>(M)</sup> <sup>(S)</sup> 1 Set Cylinders per 50yd <sup>3</sup> Minimum 1 set/shift	Review Documentation for Acceptance					
																										<sup>(S)</sup> 1 Set Represents a minimum of 3 Cylinders				

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2019)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	Quality Control		Quality Assurance	
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		
<b>SECTION 00596A - MECHANICALLY STABILIZED EARTH RETAINING WALLS</b>									
<b>Aggregate Production</b>									
Gravel Leveling Pads Backfill (See Section 02630.10)	Abrasion Degradation	TM 208	T96	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance	Contractor Quality Control Type D	
								A Sublot equals 1,000 Tons Minimum 1/Project	
								1/Sublot	
								1/5 Sublots	
<sup>(3)</sup> Modular Block Core and Drainage Backfill (Product Compliance)	Soundness Abrasion Degradation Lightweight Pieces	TM 208	T 104 T 96 T 113	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance	Visual	
								Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project	
								A Sublot equals 1,000 Tons	
<sup>(3)</sup> Modular Block Core and Drainage Backfill <sup>(1)</sup> QAE may waive after 5 sublots/shifts <sup>(2)</sup> Perform a minimum of 3 tests, QL's required Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	Sampling Reducing <sup>(2)</sup> Sieve Analysis <sup>(1)</sup> Wood Particles Fracture (Method 2) Elongated Pieces	TM 225 TM 229	R 90 R 76 T 27/T 11 T 335	1792	1/Sublot or Minimum 1 Per Project	Visual	Review Documentation for Acceptance	Contractor Quality Control Type E	
								Contractor Provided Testing	
								Minimum 1 Per Project	
								Visual	
Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	Abrasion Degradation Sieve Analysis	TM 208	T 96	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance	Contractor Quality Control Type E	
								Contractor Provided Testing	
								Minimum 1 Per Project	
								Visual	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2019)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E	Quality Assurance	
<b>SECTION 00596A - MECHANICALLY STABILIZED EARTH RETAINING WALLS</b>										
<b>Aggregate Production</b>										
Gabion Basket Fill (Product Compliance) (See Section 00390.11(b))	Degradation Soundness Apparent Specific Gravity & Absorption  Gradation	TM 208		T 104 T 85	4000 1825	Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project				
						Contractor Provided Testing	Minimum 1 per Project	Review Documentation for Acceptance		
						1/Sublot (Minimum 1/Project)	Visual			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-1792	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
<b>SECTION 00596A - MSE RETAINING WALLS</b>								
<b>Aggregate Production</b>								
MSE Granular Wall Backfill (Product Compliance) (Also reference 02630.10)	Abrasion Degradation Sieve Analysis Plasticity Index pH Resistivity Organic Content	TM 208		T96 T 11 T 90 T 289 T 288 T 267	4000  4000	Contractor Provided Testing	Minimum 1 per Project	Review Documentation for Acceptance
Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project								
A Sublot Equals or 2000 Tons								
MSE Granular Wall Backfill  ( <sup>1</sup> ) Perform a minimum of 3 tests, QL's required	Sampling Reducing ( <sup>1</sup> ) Sieve Analysis Sand Equivalent Fracture (Method 1)			R 90 R 76 T 27 T 176  T 335	1792  1792	1/Sublot (Minimum 1/Project)  1/5 Sublots	Visual  Visual	Review Documentation for Acceptance
<b>Placement</b>	Density Curve			( <sup>2</sup> ) T 99	3468	1/Aggregate Gradation/Per Source	Visual	Review Documentation for Acceptance
Establishing Maximum Density  ( <sup>2</sup> ) Method A	Bulk Specific Gravity			T 85	3468			
Compaction	Coarse Particle Correction	TM 223			1793B	1/100 yd <sup>3</sup> (Minimum 1/day)	Visual	
	Nuclear Gauge			T 310	1793B	1 per layer	Visual	
	Deflection Testing	TM 158						
<p><b>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</b></p>								



FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)									
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance								
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E							
<b>SECTION 00596B - PREFABRICATED MODULAR RETAINING WALLS</b>															
<b>Aggregate Production</b>															
Gravel Leveling Pads Backfill (See Section 02630.10)	Abrasion Degradation	TM 208	T96	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance	A Sublot equals 1000 Tons Minimum 1/Project							
								Sampling Reducing Sieve Analysis Sand Equivalent Fracture (Method 1)	R 90 R 76 T 27 T 176	1/Sublot	Visual	Review Documentation for Acceptance			
													1792	1/5 Sublots	Visual
								4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance				
4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance												
<sup>(3)</sup> Modular Block Core and Drainage Backfill (Product Compliance)	Soundness Abrasion Degradation Lightweight Pieces	TM 208	T 104 T 96 T 113	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance	A Sublot equals 1000 Tons							
								1792	1/Sublot (Minimum 1 Per Project)	Visual	Review Documentation for Acceptance				
												1792			
<sup>(3)</sup> Modular Block Core and Drainage Backfill <sup>(1)</sup> QAE may waive after 5 sublots/shifts <sup>(2)</sup> Perform a minimum of 3 tests, QL's required	Sampling Reducing <sup>(2)</sup> Sieve Analysis <sup>(1)</sup> Wood Particles Fracture (Method 2) Elongated Pieces	TM 225 TM 229	R 90 R 76 T 27/T 11 T 335	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance	A Sublot equals 1000 Tons							
								1792	1/Sublot (Minimum 1 Per Project)	Visual	Review Documentation for Acceptance				
												1792			
Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	Abrasion Degradation Sieve Analysis	TM 208	T 96 T 27	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance	A Sublot equals 1000 Tons							
								4000	1/Sublot	Visual					

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2019)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E	Project Manager Type D & E	
<b>SECTION 00596B - PREFABRICATED MODULAR RETAINING WALLS</b>										
<b>Aggregate Production</b>										
Gabion Basket Fill (Product Compliance) (See Section 00390.11(b))	Degradation Soundness Apparent Specific Gravity & Absorption	TM 208			T 104 T 85	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance	
						1825	1/Sublot	Visual		
						Gradation				
Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-734-	Quality Control		Quality Assurance		
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E	
<b>SECTION 00596B - PREFABRICATED MODULAR RETAINING WALLS</b>									
<b>Aggregate Production</b>									
Retaining Wall Granular Backfill (Product Compliance) (Also reference 02630.10)	Abrasion Degradation Sieve Analysis Plasticity Index	TM 208	T 96 T 11 T 90	4000 4000	Contractor Provided Testing	Minimum 1 Per Project	Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project		
							Review Documentation for Acceptance		
A Sublot Equals 2000 Tons									
Retaining Wall Granular Backfill  ( <sup>1</sup> ) Perform a minimum of 3 tests, QL's required	Sampling Reducing  ( <sup>1</sup> ) Sieve Analysis Sand Equivalent  Fracture (Method 1)	R 90 R 76 T 27 T 176	T 335	1792 1792	1/Sublot (Min. 1 Per Project)	Visual	Review Documentation for Acceptance		
							Visual		
<b>Placement</b>									
Establishing Maximum Density  ( <sup>2</sup> ) Method A	Density Curve  Bulk Specific Gravity	TM 223	(2) T 99 T 85	3468 3468	1/Aggregate Gradation/Per Source	Visual	Review Documentation for Acceptance		
							Visual		
Compaction	Coarse Particle Correction  Nuclear Gauge  Deflection Testing	TM 158	T 310	1793B 1793B	1/100 yd <sup>3</sup> (Minimum 1/day)	Visual	Review Documentation for Acceptance		
							Visual		
Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance			
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E		
<b>SECTION 00596C - CAST-IN-PLACE CONCRETE RETAINING WALLS</b>										
<b>Aggregate Production</b>										
Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	Abrasion Degradation	TM 208		T 96	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance		
						1/Sublot	Visual			
Retaining Wall Granular Backfill					Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project					
Retaining Wall Granular Backfill (Product Compliance) (Also reference 02630.10)	Abrasion Degradation Sieve Analysis Plasticity Index	TM 208		T 96 T 11 T 90	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance		
Retaining Wall Granular Backfill					A Sublot Equals 2000 Tons					
<sup>(1)</sup> Perform a minimum of 3 tests, QL's required	Sampling Reducing <sup>(1)</sup> Sieve Analysis Fracture (Method 1)			R 90 R 76 T 27 T 335	1792	1/Sublot	Visual	Review Documentation for Acceptance		
						1/5 Sublots	Visual			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
<b>SECTION 00596C - CAST-IN-PLACE CONCRETE RETAINING WALLS</b>								
<b>Placement</b>								
Retaining Wall Granular Backfill								
Establishing Maximum Density ( <sup>1</sup> ) Method A	Density Curve			( <sup>1</sup> ) T 99	3468			Review Documentation for Acceptance
	Bulk Specific Gravity			T 85	3468	1/Aggregate Gradation/Per Source	Visual	
Compaction	Coarse Particle Correction		TM 223					Review Documentation for Acceptance
	Nuclear Gauge			T 310	1793B	1/100 yd <sup>3</sup> (Minimum 1/day)	Visual	
	Deflection Testing		TM 158		1793B	1 per layer	Visual	
<p><b>Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.</b></p>								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
<b>SECTION 00635 - GRID-ROLLED AGGREGATE SUBBASE</b>								
Aggregate Subbase Grading (See 00635.10)	Abrasion			T 96	4000	Contractor Provided Testing	Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00600	Review Documentation for Acceptance
						R 90 R 76 T 27 T 176	1792	Contractor Provided Testing

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)				Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance					
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E	Project Manager Type D & E			
<b>SECTION 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS</b>												
Aggregate Production	Abrasion								Contractor Provided Testing	Submit Required Documentation	Review Documentation for Acceptance	
Aggregate Subbase Grading (See 00641.10(b))	Sampling Reducing Sieve Analysis Sand Equivalent				T 96			4000				
					R 90 R 76 T 27 T 176			1792	Contractor Provided Testing	Submit Required Documentation	Review Documentation for Acceptance	
Aggregate Base and Shoulders	Abrasion Degradation	TM 208						4000	Minimum 1 per Project	Submit Required Documentation	Review Documentation for Acceptance	
Grading Aggregate Base (See 02630) Aggregate Shoulder (See 02640) Open Graded Aggregate Base (See 02630.11) <sup>(1)</sup> Perform at least 3 tests <sup>(2)</sup> May be waived by QAE	Sampling Reducing <sup>(1)</sup> Sieve Analysis <sup>(2)</sup> Sand Equivalent Fracture (Method 1)				R 90 R 76 T 27 T 176			A Sublot equals 2000 Tons				
									Contractor Provided Testing	Submit Required Documentation	Review Documentation for Acceptance	
										Contractor Provided Testing		Review Documentation for Acceptance
							T 335		1792			
<b>PLACEMENT</b>												
Aggregate Base Plant Mix Applications Only Aggregate (Mixture)	Sampling Reducing Moisture							A Sublot equals 2000 Tons				
					R 90 R 76 T 255 & T 265 <sup>(3)</sup> T 99			1792	1/Sublot or minimum 1 per day	Visual	Review Documentation for Acceptance	
Establishing Maximum Density & Optimum Moisture (Mix Design)  Compaction <sup>(3)</sup> Method A	Density Curve Coarse Particle Correction Bulk Specific Gravity	TM 223						3468	Each Size Per Source	Visual	Review Documentation for Acceptance	
					T 85					Visual	Review Documentation for Acceptance	
<sup>(D)</sup> (Individual tests must meet Specification)	Deflection Testing Nuclear Gauge	TM 158						1793B	1 per Sublot	Visual	Review Documentation for Acceptance	
					T 310			1793B	<sup>(D)</sup> 5 Tests Per Sublot	Visual	Review Documentation for Acceptance	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
<b>SECTION 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS (Continued)</b>								
Placement								
Aggregate Subbase								
Compaction	Deflection Testing	TM 158			1793 B	1 per Layer	Visual	Review Documentation for Acceptance



FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)							
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance						
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E					
<b>SECTION 00680 - STOCKPILED AGGREGATES</b>													
Aggregate Base and Shoulders (See Section 00641)	Abrasion Degradation	TM 208		T 96	4000	Minimum 1 per Source/Project	Visual	Review Documentation for Acceptance					
					A Sublot equals 2,000 Tons								
					1792	Contractor Provided Testing	Visual	Review Documentation for Acceptance					
					1792	1/5 Sublots	Visual						
Perform at least 3 tests May be waived by QAE	Sampling Reducing (1) Sieve Analysis (2) Sand Equivalent			R 76 T 27 T 176	1792	Contractor Provided Testing	Visual	Review Documentation for Acceptance					
					A Sublot equals 1000 Tons								
					1792	1/5 Sublots	Visual						
Aggregate (Sanding Aggregate)	Sampling Reducing Sieve Analysis (3) Cleaness Value	TM 227		R 90 R 76 T 27	1792	Contractor Provided Testing	Visual	Review Documentation for Acceptance					
					A Sublot equals 1000 Tons								
					4000	Minimum 1 per Source/Project	Visual						
					4000	1/5 Sublots & Start of Production	Visual	Review Documentation for Acceptance					
May be waived by QAE	Abrasion Degradation Lightweight Pieces	TM 208		T 96 T 113	1792	1/5 Sublots & Start of Production	Visual	Review Documentation for Acceptance					
					1792								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)										
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance								
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E									
<b>SECTION 00680 - STOCKPILED AGGREGATES (CONTINUED)</b>																
<b>Emulsified AC Aggregate</b> Aggregate Production (See Sections 00705, 00706, 00710, 00711, 00712 and 00715)  (1) QAE may waive after 5 sublots/shifts  (2) QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated (3) May be waived by QAE  (4) Not required for Dry Key Material (5) 1/5 Sublots & Start of Production	Abrasion Degradation Soundness Lightweight Pieces Dry Rodded Unit Weight  Sampling Reducing (5) Fracture (1) Wood Particles (1)(4) Elongated Pieces (2) Sieve Analysis (3) Cleanness Value  Dry Rodded Unit Weight	TM 208          TM 225 TM 229  TM 227	T 96 T 104 T 113 T 19  R 90 R 76 T 335   T27/T 11   T 19	4000  4000   1792  1792  1825 1825C	A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency  Minimum 1 per Source/Project  Contractor Provided Testing  Start of production and when changes in aggregate occurs	Visual   Visual   Visual	Review Documentation for Acceptance          Review Documentation for Acceptance									
								<b>Aggregate (Other)</b>								
								<i>Use sampling and testing frequencies required for proposed end product use</i>								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E			
<b>SECTION 00705 - ASPHALT PRIME COAT and EMULSIFIED ASPHALT FOG COAT</b>										
<b>Aggregate Cover Material</b>										
Aggregate Production	Sampling Reducing Sieve Analysis			R 90 R 76 T 27	1792		Provide Process Control	Review Documentation for Acceptance		
Asphalt Prime and Fog Coat	Compliance			R 66	4000		Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance		
<b>SECTION 00706 - EMULSIFIED ASPHALT SLURRY SEAL SURFACING</b>										
<b>Aggregate Production</b>										
Emulsified Asphalt Cement Emulsified Asphalt Polymer Modified Emulsion	Sampling Reducing Sieve Analysis			R 90 R 76 T 27/T 11	1792		Provide Process Control	Review Documentation for Acceptance		
Additives Mineral Filler	Compliance				4000		Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance		
Material must meet the requirements of Section 00706.13										
Material must meet the requirements of Section 00706.16										
Mixture										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control			
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
<b>SECTION 00710 - SINGLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT</b>								
<b>Aggregate Production</b>								
<p>(1) QAE may waive after 5 sublots/shifts</p> <p>(2) Perform at least 3 tests (QL's required), QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated</p> <p>(3) May be waived by QAE</p> <p>(4) Not required for Dry Key Material</p> <p>(5) 1/5 Sublots &amp; Start of Production</p> <p>Asphalt Cement (Emulsion)</p>	Abrasion	TM 208	T 96	4000	Contractor Provided Testing	Contractor Provided Testing Minimum 1 per Project	Review Documentation for Acceptance	
	Degradation		T 104					
	Soundness		T 113					
	Lightweight Pieces		T 19					
	Dry Rodded Unit Weight		R 90					
	Sampling		R 76					
	Reducing		T 335					
	(5) Fracture			1792	1 per Sublot	Visual	Review Documentation for Acceptance	
	(1) Wood Particles	TM 225	T27/T 11					
	(1)(4) Elongated Pieces	TM 229						
(2) Sieve Analysis			1792					
(3) Cleaness Value	TM 227	T 19	1825	Start of production and when changes in aggregate occurs	Visual			
Dry Rodded Unit Weight			1825C					
Compliance			4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance		
<b>Preproduced Aggregate</b>								
<p>Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:</p> <ol style="list-style-type: none"> <li>Continuing production records meeting the above requirements of Section 00710.10 and 710.15, Aggregate Production.</li> <li>Furnish records of testing for the entire stockpile according to Section 00710.10 and 710.15 Aggregate Production except change the sampling frequency to the following: <ol style="list-style-type: none"> <li>One Per 5 sublots means "One Set of Tests Per 2500 Tons".</li> <li>One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.</li> <li>Provide one stockpile sample for each set of tests required above.</li> </ol> </li> </ol>								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Assurance			
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
<b>SECTION 00711 - PRE-COATED AGGREGATE ASPHALT SURFACE TREATMENT</b>								
<b>Aggregate Production</b>								
(1) QAE may waive after 5 sublots/shifts	Abrasion Degradation Soundness Lightweight Pieces Dry Rodded Unit Weight	TM 208		T 96 T 104 T 113 T 19	4000	Contractor Provided Testing	Contractor Provided Testing Minimum 1 per Project	Review Documentation for Acceptance
(2) Perform at least 3 tests (QL's required), QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated	Sampling Reducing (5) Fracture (1) Wood Particles (1)(4) Elongated Pieces	TM 225 TM 229		R 90 R 76 T 335	1792	1 per Sublot	Visual	Review Documentation for Acceptance
(3) May be waived by QAE	(2) Sieve Analysis (3) Cleaness Value Dry Rodded Unit Weight	TM 227		T 27/T 11 T 19	1792 1825 1825C	Start of production and when changes in aggregate occurs	Visual	Review Documentation for Acceptance
(4) Not required for Dry Key Material (5) 1/5 Sublots & Start of Production	Compliance			R 66	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance
<b>Preproduced Aggregate</b>								
Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:								
1. Continuing production records meeting the above requirements of Section 00711.10 and 711.15, Aggregate Production.								
2. Furnish records of testing for the entire stockpile according to Section 00711.10 and 711.15 Aggregate Production except change the sampling frequency to the following:								
a. One Per 5 sublots means "One Set of Tests Per 2500 Tons".								
b. One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.								
c. Provide one stockpile sample for each set of tests required above.								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance			
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		Project Manager Type D & E		
<b>SECTION 00711 - PRE-COATED AGGREGATE ASPHALT SURFACE TREATMENT (CONTINUED)</b>											
<b>Mixture Acceptance</b>											
Meter Method	Readings backed by Tank Measure & Production Records Daily	TM 321 (1) TM 322				2277	1/Sublot or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance		
<sup>(1)</sup> Required at start of production and if meters fail to meet specification	Cold Feed Moisture		T 255/265			2043 and 2401	Daily Production	Production Control Testing	Review Documentation for Acceptance		
Plant Discharge Moisture	Asphalt Mix Moist.		T 329			2277	1/Sublot	Production Control Testing	Review Documentation for Acceptance		
Asphalt Cement	Compliance		R 66			4000	1/50 Tons Submit All	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance		
A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency											

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
<b>SECTION 00712 - DRY KEY EMULSIFIED ASPHALT SURFACE TREATMENT</b>								
<b>Aggregate Production</b>								
(1) QAE may waive after 5 sublots/shifts  (2) Perform at least 3 tests (QL's required), QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated  (3) May be waived by QAE  (4) Not required for Dry Key Material (5) 1/5 Sublots & Start of Production  Asphalt Cement (Emulsion)	Abrasion	TM 208	T 96	4000	A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency	Contractor Provided Testing	Contractor Provided Testing Minimum 1 per Project	Review Documentation for Acceptance
	Degradation							
	Soundness							
	Lightweight Pieces							
	Dry Rodded Unit Weight							
Sampling	TM 225 TM 229	R 90 R 76 T 335	1792	1 per Sublot	Visual	Review Documentation for Acceptance		
Reducing								
(5) Fracture	TM 227	T 27/T 11	1792	Start of production and when changes in aggregate occurs	Visual	Review Documentation for Acceptance		
(1) Wood Particles								
(1)(4) Elongated Pieces	TM 227	T 19	1825 1825C	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance		
(2) Sieve Analysis								
(3) Cleaness Value	Compliance	R 66	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance		
Dry Rodded Unit Weight								

**Preproduced Aggregate**

Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:

- Continuing production records meeting the above requirements of Section 00712.10 and 712.15, Aggregate Production.
- Furnish records of testing for the entire stockpile according to Section 00712.10 and 712.15 Aggregate Production except change the sampling frequency to the following:
  - One Per 5 sublots means "One Set of Tests Per 2500 Tons".
  - One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.
  - Provide one stockpile sample for each set of tests required above.



FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)									
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance							
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		Project Manager Type D & E						
<b>SECTION 00715 - MULTIPLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT</b>															
<b>Aggregate Production</b>															
Abrasion Degradation Soundness Lightweight Pieces Dry Rodded Unit Weight  Sampling Reducing <sup>(5)</sup> Fracture <sup>(1)</sup> Wood Particles <sup>(1)(4)</sup> Elongated Pieces  <sup>(2)</sup> Sieve Analysis <sup>(3)</sup> Cleanness Value Dry Rodded Unit Weight  Compliance	TM 208           TM 225 TM 229    TM 227			T 96 T 104 T 113 T 19  R 90 R 76 T 335   T27/T 11  T 19   R 66	4000  4000   1792   1792 1825 1825C  4000	Contractor Provided Testing	Contractor Provided Testing Minimum 1 per Project	Review Documentation for Acceptance           Review Documentation for Acceptance       Review Documentation for Acceptance							
						Contractor Provided Testing	1 per Sublot		Visual						
						Start of production and when changes in aggregate occurs	Visual								
						Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance								
						<b>Preproduced Aggregate</b>									
						Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:									
						1. Continuing production records meeting the above requirements of Section 00715.10 and 715.15, Aggregate Production.									
						2. Furnish records of testing for the entire stockpile according to Section 00715.10 and 715.15 Aggregate Production except change the sampling frequency to the following:									
						a. One Per 5 sublots means "One Set of Tests Per 2500 Tons".									
						b. One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.									
c. Provide one stockpile sample for each set of tests required above.															



FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E	
<b>SECTION 00720 - COLD IN-PLACE RECYCLED ASPHALT CONCRETE PAVEMENT (CIR)</b>									
<b>SECTION 00721 - COLD RECYCLED EMULSIFIED ASPHALT CONCRETE PAVEMENT (CRP)</b>									
Asphalt Cement (Emulsified Recycling Agent)	Compliance								
					R 66	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance
Water		Material must meet the requirements of Section 00340.10							
Aggregate Production Choke Aggregate (See 00705)	Sampling Reducing Sieve Analysis								
					R 90 R 76 T 27	1792	Provide Process Control	Visual	Review Documentation for Acceptance
<b>SECTION 00725 - HOT IN-PLACE RECYCLED (HIR) ASPHALT CONCRETE PAVEMENT</b>									
<i>The type of recycling agent will be listed in the Special Provisions</i>									
Recycling Agent (See 00745.11)	Compliance								
					R 66	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance
Recycling Agent	Compliance								
					R 66	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance
Asphalt Concrete Mixture		New Asphalt Concrete mixture will meet the requirements of Section 00744							
<b>SECTION 00730 - ASPHALT TACK COAT</b>									
Tack	Compliance								
					R 66	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM	Quality Control			
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
<b>SECTION 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT</b>								
Aggregate production	Abrasion Degradation Soundness Lightweight Pieces	TM 208		T 96 T 104 T 113	4000	Contractor Provided Testing Minimum 1 per Project	Contractor Quality Control Type E	Review Documentation for Acceptance
					4000			
					A Sublot equals 1000 Tons. A minimum one per shift, whichever results in the greatest sampling frequency. (For preproduced aggregates, 1 shift shall mean 1000 Tons)			
<sup>(1)</sup> May be waived by QAE  <sup>(2)</sup> QAE may waive after 5 sublots/shifts	Sampling Reducing Sieve Analysis <sup>(1)</sup> Cleaness Value Fracture <sup>(2)</sup> Elongated Pieces <sup>(2)</sup> Wood Particles	TM 227 TM 229 TM 225		R 90 R 76 T 27/T 11  T 335	1792	1/Sublot & Start of Production	Visual	Review Documentation for Acceptance
					1792			
					Provide Process Control			
Choke Aggregate	Sieve Analysis			T 27	1792	Visual		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Contractor Quality Control Type D	Contractor Quality Control Type E
<b>SECTION 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT (CONTINUED)</b>									
Mixture Acceptance							A Sublot equals 1000 Tons of Mixture		
% Emulsified Asphalt ( <sup>1</sup> ) Required at start of production and if meters fail to meet specification	Sampling Reducing Sieve Analysis Moisture Content			R 90 R 76 T 27/T 11 T 255	2277 2277	Provide Process Control	Visual	Review Documentation for Acceptance	
	Meter Backed by Tank Measure Daily	TM 321 ( <sup>1</sup> ) TM 322			2401 & 2043	Daily Production	Visual		
	Compliance			R 66	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance	
<b>SECTION 00740 - COMMERCIAL ASPHALT CONCRETE PAVEMENT (CACP)</b>									
	See Specifications when Testing is Required by Agency					Provide Process Control	Visual	Review Documentation for Acceptance	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
<b>SECTION 00743 - POROUS ASPHALT CONCRETE (PAC)</b>								
<b>Aggregate Production</b>								
(1) QAE may waive after 5 sublots/shifts	Soundness Abrasion Degradation Lightweight Pieces Plasticity Index	TM 208			4000	Contractor Provided Testing Minimum 1 per Project	Contractor Quality Control Type E	Review Documentation for Acceptance
					4000			
(2) Not required for ATPB Mix (3) Coarse Agg (+ No. 4) (4) Fine Agg (- No. 4)	Sampling Reducing (3)(4) Sieve Analysis (1)(4) Sand Equivalent				1792	1/Sublot & Start of Production	Contractor Provided Testing	Review Documentation for Acceptance
	(1)(2)(3) Elongated Pieces TM 229 (3)(4) Fracture (Method 2) (1)(2)(3) Wood Particles TM 225				1792	1/5 Sublots & Start of Production	Contractor Provided Testing	Review Documentation for Acceptance
<b>Preproduced Aggregate</b>								

Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:

1. Continuing production records meeting the above requirements of Section 00743.10 Aggregate Production.
2. Furnish records of testing for the entire stockpile according to Section 00743.10 Aggregate Production except change the sampling frequency to the following:
  - a. One Per 5 sublots means "One Set of Tests Per 5000 Tons".
  - b. One Per sublot means "One Set of Tests Per 1000 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.
  - c. Provide one stockpile sample for each set of tests required above.

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control			Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E	
<b>SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)</b>									
Mixture Acceptance - PAC with RAP									
Gradation									
Ignition method	Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.			
Ignition method	Sampling Reducing		R 97 R 47			1/Sublot or Min. 1/Day			Review Documentation for Acceptance
(Residual aggregate from AASHTO T 308)	Sieve analysis		T 30		2277	1/Sublot or Min. 1/day			
Asphalt Content									
Ignition Method	Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.			
Ignition Method	Sampling Reducing		R 97 R 47			1/Sublot or Min. 1/day			Review Documentation for Acceptance
Meter Method	Asphalt Content		T 308		2277				
( <sup>1</sup> ) Required at start of production and if meters fail to meet specification	Readings backed by Tank measure & Production Records Daily	TM 321 ( <sup>1</sup> ) TM 322			2277	1/Sublot or Min. 1/day			
<u>Meter Method is required for PAC even when acceptance is by Ignition Method</u>					2043 and 2401	Daily Production			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)			Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance			
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E		
<b>SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)</b>										
<b>Mixture Acceptance - PAC without RAP</b>										
<b>Gradation</b>										
Cold Feed Method	Sampling Reducing Sieve Analysis		R 90 R 76 T 27/T 11	2277	Production Control Testing	Review Documentation for Acceptance	A Sublot equals 1000 Tons			
Ignition method	Calibrate Incinerator	(1) TM 323		2327IC	Production Control Testing					
Ignition method	Sampling Reducing		R 97 R 47		Production Control Testing					
(1) <b>Not required if Asphalt Content Accepted by Meter Method</b>										
(Residual aggregate from AASHTO T 308)	Sieve analysis		T 30	2277	Production Control Testing	Review Documentation for Acceptance				
<b>Asphalt Content</b>										
Ignition Method	Calibrate Incinerator	TM 323		2327IC	Production Control Testing	Review Documentation for Acceptance	A Sublot equals 1000 Tons			
Ignition Method	Sampling Reducing		R 97 R 47		Production Control Testing					
(2) <b>Required at start of production and if meters fail to meet specification</b>	Asphalt Content		T 308	2277	Production Control Testing					
Meter Method	Readings backed by Tank measure & Production Records Daily	TM 321 (2) TM 322		2277	Production Control Testing					
<b><u>Meter Method is required for PAC even when acceptance is by Ignition Method</u></b>				2043 and 2401	Production Control Testing	Review Documentation for Acceptance				

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance	
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		
<b>SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)</b>									
Mixture Acceptance - PAC with and without RAP									
Mix Design Verification Testing									
	Cold Feed Moisture			T255/T265	2277	1/Sublot or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance	
Plant Discharge Moisture	Asphalt Mix Moist.			T 329	2277	1/Sublot or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance	
<sup>(1)</sup> If applicable	<sup>(1)</sup> RAP Moisture			T 329	2277	1/Sublot or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance	
Asphalt Cement	Compliance			R 66	4000	1/Sublot See Section 4C	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance	
	<sup>(2)</sup> Required at start of production and if meters fail to meet specification								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)				Same Frequency for all Tests (Minimums)						
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control			Quality Assurance					
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E						
<b>SECTION 00744 - ASPHALT CONCRETE PAVEMENT</b>														
Aggregate Production											Provide Process Control	Visual	Review Documentation for Acceptance	
Mixture Acceptance														
Gradation											A Sublot equals 1000 Tons			
Ignition method	Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.	Production Control Testing		Review Documentation for Acceptance					
Ignition method	Sampling Reducing			R 97 R 47		1/Sublot or Min. 1/Day	Production Control Testing							
(Residual aggregate from AASHTO T 308)	Sieve analysis			T 30	2277	1/Sublot or Min. 1/Day	Production Control Testing		Review Documentation for Acceptance					
Asphalt Content											A Sublot equals 1000 Tons			
Ignition Method	Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.	Production Control Testing		Review Documentation for Acceptance					
Ignition Method	Sampling Reducing			R 97 R 47		1/Sublot or Min. 1/day	Production Control Testing							
	Asphalt Content			T 308	2277									
Mix Design Verification Testing											A Sublot equals 1000 Tons			
Plant Discharge Moisture	Asphalt Mix Moist.			T 329	2277	1/Sublot								
Maximum Density Test G <sub>mm</sub>	Max. Specific Gravity MAMD	TM 305		T 209	2050	1st Sublot Daily or Min. 1/Day	Production Control Testing		Review Documentation for Acceptance					



FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)				Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	Quality Control			Quality Assurance			
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E				
<b>SECTION 00744 - ASPHALT CONCRETE PAVEMENT (CONTINUED)</b>												
Compaction	Nuclear Density			T 355	1793A	(D) Average 10 tests per Sublot or Min. 10/Day, See Section 00744.49	Production Control Testing	Review Documentation for Acceptance				

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)										
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control											
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E								
<b>SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE</b>																
<b>Aggregate Production</b>  <sup>(1)</sup> QAE may waive after 5 sublots/shifts  <sup>(2)</sup> Perform a minimum of 3 tests QL's required  <sup>(3)</sup> Coarse Agg (+ No. 4)  <sup>(4)</sup> Fine Agg (- No. 4)  Note: Sample Aggregate before Lime Treatment	Soundness Abrasion Degradation Lightweight Pieces Plasticity Index	TM 208		T 104 T 96  T 113 T 90	4000	Contractor Provided Testing Minimum 1 per Project  A Sublot equals 1000 Tons. A minimum one per shift whichever results in the greatest sampling frequency	Contractor Provided Testing Minimum 1 per Project	Review Documentation for Acceptance								
					1792				1/Sublot & Start of Production	Contractor Provided Testing	Review Documentation for Acceptance					
					1792				T 335	1/5 Sublots & Start of Production	Contractor Provided Testing	Review Documentation for Acceptance				
					4000				T 27	Sieve Analysis Deleterious Materials	Contractor Provided Testing 1/500 Tons	Contractor Provided Testing	Review Documentation for Acceptance			
					1792				R 90 R 76 T 27	Sampling Reducing Sieve Analysis Deleterious Materials	1 / 50 Tons					
					<b>Preproduced Aggregate</b>											
					<b>RAS Production</b> (Reclaimed Asphalt Shingles)											
					Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:											
					1. Continuing production records meeting the above requirements of Section 00745.10 Aggregate Production.											
					2. Furnish records of testing for the entire stockpile according to Section 00745.10 Aggregate Production except change the sampling frequency to the following:											
a. One Per 5 sublots means "One Set of Tests Per 5000 Tons".																
b. One Per sublot means "One Set of Tests Per 1000 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.																
c. Provide one stockpile sample for each set of tests required above.																

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance				
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E			
<b>SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)</b>											
<b>Mixture Acceptance - ACP "With and Without RAP"</b>											
Gradation											
Ignition method	Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.	Production Control Testing	Review Documentation for Acceptance			
Ignition method	Sampling Reducing Sieve analysis		R 97 R 47 T 30		2277	1/Sublot					
(Residual aggregate from AASHTO T 308)											
Asphalt Content											
Ignition Method	Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.	Production Control Testing	Review Documentation for Acceptance			
Ignition Method	Sampling Reducing Asphalt Content		R 97 R 47 T 308		2277	1/Sublot or Min. 1/day					
( <sup>2</sup> ) RAP Percentage	Meter Method	TM 321 ( <sup>1</sup> ) TM 322			2277	1/Sublot or Minimum 1/Day	Production Control Testing	Review Documentation for Acceptance			
( <sup>2</sup> ) If Applicable											
( <sup>1</sup> ) Required at start of production and if meters fail to meet specification	( <sup>2</sup> ) RAP Moisture Cold Feed Moisture		T 329 T255/T265		2277						
<u>Meter Method is required for ACP even when acceptance is by Ignition Method</u>	Readings backed by Tank measure & Production Records Daily	TM 321 ( <sup>1</sup> ) TM 322			2401 ACP	Daily Production	Production Control Testing	Review Documentation for Acceptance			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance			
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E				
<b>SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)</b>											
<b>Mixture Acceptance - ACP "With and Without RAP"</b>											
<b>Mix Design Verification Testing</b>											
A Sublot equals 1000 Tons											
Fabrication	Gyratory Specimen	TM 326			2050GV						
Maximum Density Test	Max. Specific Gravity			T 209	2050	1/Sublot & according to Section 00745.16 (b)-1-d	Production Control Testing			Review Documentation for Acceptance	
Determination of $G_{mb}$	Bulk Specific Gravity			T 166	*5068 *2560 *5069						
Stripping Susceptibility	Tensile Strength Ratio			T 283	2050tsr	1/JMF See Section 00745.16 (b)-1-f	Production Control Testing			Review Documentation for Acceptance	
*Cat-II complete & submit as required, See Section 745.16(b)											
Plant Discharge Moisture	Asphalt Mix Moist.			T 329	2277	1/Sublot					
Maximum Density Test $G_{mm}$	Max. Specific Gravity MAMD			T 209	2050	1st Sublot Daily or Min. 1/Day	Production Control Testing			Review Documentation for Acceptance	
Performing Control Strip	Control Strip	TM 305									
Compaction	Nuclear Density	TM 306		T 355	2084 *5069 1793A	Develop Rolling Pattern See Specs. (D) Average 5 tests per Sublot or Min. 1/Day, See Section 00745.49 (b)-2	Production Control Testing			Review Documentation for Acceptance	
Asphalt Cement	Compliance			R 66	4000	1/Sublot See Section 4C	Provide Suppliers Certificate of Compliance			Review Documentation for Acceptance	
(D) See T 355 Yellow sheet for Density Test Locations											



FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00754 - PLAIN CONCRETE PAVEMENT REPAIR								
SECTION 00755 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT								
SECTION 00756 - PLAIN CONCRETE PAVEMENT								
SECTION 00758 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT REPAIR								
Aggregate Production								
(1) QAE may waive after 5 sublots/shifts	Sampling Reducing (2),(3),(4) Sieve Analysis (4) Fineness Modulus (4) Sand Equivalent	R 90 R 76 T 27/T 11	T 176	T 335	1792 1792	Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
(2) Perform a minimum of 3 tests, QL's required	(1),(3) Wood Particles (3) Fracture (Method 2) (1),(3) Elongated Pieces	TM 225 TM 229	T 96	T 96	1792 1792	Contractor Provided Testing 1/5 Sublots & Start of Production	Contractor Provided Testing	Review Documentation for Acceptance
(4) Fine Aggregate (See Section 02690.30)	Abrasion Degradation Soundness Lightweight Pieces Organics	TM 208	T 104 T 113 T 21	T 19	4000 4000	Minimum 1 per Project	Contractor Provided Testing	Review Documentation for Acceptance
(3) Coarse Aggregate (See Section 02690.20)	(3) Dry Rodded Unit Weight (3),(4) Bulk Specific Gravity & Absorption	TM 208	T 19	T 84 & T 85	1825 1825C 1825	Start of production and when changes in aggregate occurs	Contractor Provided Testing	Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00754 - PLAIN CONCRETE PAVEMENT REPAIR								
SECTION 00755 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT								
SECTION 00756 - PLAIN CONCRETE PAVEMENT								
SECTION 00758 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT REPAIR (CONTINUED)								
Mixture								A Sublot equals 1000 lane feet of slip formed pavement or 100 yd <sup>3</sup> of non-slip formed PCC
Portland Cement Modifiers Admixtures								Provide Suppliers Certificate of Compliance
Curing Compounds								
Mixing Water								
Mixture								Review Documentation for Acceptance
(S) 1 Set Represents a minimum of 3 Cylinders	Sampling							
	Air Content							
	Slump							
(M) Per Mix Design & Source	Density (Unit Weight)							Review Documentation for Acceptance
	Yield							
	Concrete Temperature							
Smoothness	Water/Cement Ratio							Review Documentation for Acceptance
	Batching							
	Strength							
Certification of Profiler Equipment Determining Profile Index	Sitting Measure							Review Documentation for Acceptance
Thickness of Pavement								Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)			Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM	Quality Control		Quality Assurance	
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E		Project Manager Type D & E
<b>SECTION 00850 - COMMON PROVISIONS FOR PAVEMENT MARKINGS</b>									
<b>Placement Evaluation "Retroreflectivity"</b>									
In-Place  Procedure evaluates Durable and High Performance Pavement Markings	Evaluation of Retroreflectivity Using Hand-Operated Instrument	TM 777			4101 thru 4105	See Special Provisions and Test Procedure for Testing Frequency	Visual	Review Documentation for Acceptance	



FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2019)		Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control		Quality Assurance		
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Contractor Quality Control Type D & E	Project Manager Type D & E	
<b>SECTION 00921 - MAJOR SIGN SUPPORT DRILLED SHAFTS</b>										
<b>Aggregate Production</b>										
(1) QAE may waive after 5 sublots/shifts  (2) Perform a minimum of 3 tests, QL's required  (3) Coarse Aggregate (See Section 02690.20)  (4) Fine Aggregate (See Section 02690.30)	Sampling Reducing			R 90 R 76					Review Documentation for Acceptance	
	(2)(3)(4) Sieve Analysis			T 27/T 11 T 27/T 11	1792	Contractor Provided Testing	Contractor Provided Testing			
	(4) Fineness Modulus			T 176	1792					
	(1)(3) Wood Particles	TM 225			4000	Contractor Provided Testing	Contractor Provided Testing			
	(4) Sand Equivalent				4000					
	Soundness			T 104						
	Abrasion			T 96						
	Degradation	TM 208								
	Lightweight Pieces			T 113 T 21						
	Organics									
Portland Cement Modifiers Admixtures			(3) Dry Rodded Unit Weight	T 19	1825 1825C 1825	Minimum of 1 per Project	Minimum of 1 per Project			
				(3)(4) Bulk Specific Gravity & Absorption						
Drilling Slurry				Materials must meet the requirements of Section 02001.10		Manufacture Compliance Statement	Manufacture Compliance Statement			
				Slurry material must meet the requirements of Section 00921.14 & 00921.43(g)		Contractor Provided Testing	Contractor Provided Testing			
Grout				Material must meet the requirements of Section 02080		Manufacture Compliance Statement	Manufacture Compliance Statement			
				Material must meet the requirements of Section 02020						
Mixing Water								Review Documentation for Acceptance		

**FIELD TESTED MATERIALS ACCEPTANCE GUIDE**

(Revised November 2019)

Same Frequency for all Tests (Minimums)

MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Quality Control			Quality Assurance
		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E	
<b>SECTION 00921 - MAJOR SIGN SUPPORT DRILLED SHAFTS</b>									
Portland Cement Concrete	Sampling Slump Concrete Temperature Density (Unit Weight) Yield Water/Cement Ratio  Strength		TM 2	T 119 T 309 T 121 T 121 T 121	3573WS or 4000C	(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.	(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.		Review Documentation for Acceptance
(S) 1 Set Represents a minimum of 3 Cylinders					4000C				
(M) Per Mix Design & Source									

**TABLE 00512-1 Frequency of Quality Control Testing**

<b>Minimum frequencies per Class of concrete based on daily production records.</b>		
<u>Production</u>	0 to 100 yd <sup>3</sup> on a single day	1 Set each day
<u>Quantity Over 100 yd<sup>3</sup></u>	100 to 600 yd <sup>3</sup> on a single day over 600 yd <sup>3</sup> on a single day	1 Set per each 100 yd <sup>3</sup> or portion thereof 1 Set per each 200 yd <sup>3</sup> or portion thereof after reaching 600 yd <sup>3</sup>