

## 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				
<b>SECTION 00330-EARTHWORK</b>												
(See Sec. 330.16(a)) Soil and Soil/Aggregate Mixtures	Gradation								Contractor Quality Control Type D	Contractor Quality Control Type E		Project Manager Type D & E
Establishing Maximum Density (for Compaction)	Density Curve			T 99			3468		1/Soil type	Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00300	Visual	Review Documentation for Acceptance
	Specific Gravity of Coarse Aggregates			T 85			3468					
	Family of Curves			R 75			3468FC					
Compaction	Deflection Testing						1793S	1 Test per 3 ft. in depth				Review Documentation for Acceptance
	Nuclear Density Soils/Aggregates			T 310			1793S		See Table 00330-1 Below			
	Coarse Particle Correction Deflection Testing			T 99			1793S			Visual		
<b>TABLE 00330-1 Frequency of Quality Control Testing</b>												
<b>Individual Areas</b>												
Existing Ground Surface												
Over 3500 yd <sup>2</sup> or yd <sup>3</sup>												
1 test per 1000 yd <sup>2</sup>												
Embankments												
1 test per 500 yd <sup>3</sup>												
Excavations and Finished Subgrade												
1 test per 1000 yd <sup>2</sup>												
1 test per 3000 yd <sup>2</sup>												
Stone Embankment Material (See Sec. 330.16(a))	Gradation								Contractor Quality Control Type D	Contractor Quality Control Type E		Review Documentation for Acceptance
	Deflection Testing						1793S	1 per Layer		Visual		
Compaction	Deflection Testing			TM 158								Review Documentation for Acceptance
<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>												
Imported Topsoil (See Section 01040.14(b))	Compliance											Review Documentation for Acceptance
										Contractor Testing 1/Source & 1/Soil type	Visual	

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		ODOT	WAQTC	AASHTO		Contractor Quality Control Type D	Contractor Quality Control Type E	
SECTION 00331 - SUBGRADE STABILIZATION Aggregate backfill	Material must meet the requirements of Section 00331.10					Contractor Testing		Review Documentation for Acceptance
	Material must meet the requirements of Section 00340					Contractor Testing	Visual	
	Material must meet the requirements of Section 00331					Visual		
SECTION 00332 - SURFACING STABILIZATION Aggregate Base	Material must meet the requirements of Section 00332.10							Review Documentation for Acceptance
	Material must meet the requirements of Section 00332					Visual	Visual	
SECTION 00333 - AGGREGATE DITCH LINING Aggregate	Sampling Aggregates			R 90				Review Documentation for Acceptance
	Reducing Aggregates			R 76		1/Project or 1/Source	Visual	
	Sieve Analysis			T 27/T 11	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	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				3468			
	Deflection Testing	TM 158			1793S	See Special Provisions and Table 00344-1 Below	Visual	
	Deflection Testing Nuclear Density Soils/Aggregates	TM 158		T 310	1793S			Review Documentation for Acceptance
	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-	Quality Control		Quality Assurance	
		ODOT	WAQTC		AASHTO	Contractor Quality Control Type D		Contractor Quality Control Type E
<b>SECTION 00360 - Drainage Blankets</b>								
Granular Drainage Blanket	Sampling Aggregates Reducing Aggregates Gradation	R 90 R 76 T 27/T 11	R 90 R 76 T 27/T 11	1792	1/sublot minimum 1/Source per Project	Visual	A sublot equals 1000 Tons	Review Documentation for Acceptance
Sand Drainage Blanket	Sampling Aggregates Reducing Aggregates Gradation	R 90 R 76 T 27/T 11	R 90 R 76 T 27/T 11	1792	1/Source and Type	Visual		Review Documentation for Acceptance
Establishing Maximum Density (for Compaction)	Density Curve Specific Gravity of Coarse Aggregates	T 99 T 85	T 99 T 85	3468				
Compaction	Deflection Testing	TM 158	TM 158	1793S	1 Test per 3 ft. in depth	Visual		Review Documentation for Acceptance
	Deflection Testing Nuclear Density Soils/Aggregates Coarse Particle Correction	TM 158	T 310 T 99	1793S 1793S	See Table 00360-1 Below	Visual		Review Documentation for Acceptance
<b>TABLE 00360-1 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>		
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 Specific Gravity of Coarse Aggregates	TM 208		T 104 (1) T 85	4000 1825	Contractor Furnished Testing	Provide History of Passing Tests				
Filter Blanket	Gradation See 00390.13					Contractor Testing When Required	Visual	Review Documentation for Acceptance			
	Sampling Aggregates Reducing Aggregates Sieve Analysis			R 90 R 76 T 27/T 11	1792	1/Project	Visual				
Grouted Riprap Sand	Soundness Lightweight Pieces			T 104 T 113	4000	Contractor Furnished Testing	Provide History of Passing Tests	Review Documentation for Acceptance			
Portland Cement											
Material must meet the requirements of Section 02010											

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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 00396 -SHOTCRETE SLOPE STABILIZATION</b>								
Aggregate Production and Mixture							A Sublot equals 1000 Tons	Review Documentation for Acceptance
(1) QAE may waive after 5 sublots/shifts	Sampling Aggregates Reducing Aggregates (2)(3) Sieve Analysis (3) Fineness Modulus			R 90 R 76 T 27/T 11 T 27/T 11	1792	1/Sublot & Start of Production	Provide History of Passing Tests	
(2) Coarse Aggregate (See Section 02690.20)	(1)(2) Wood Particles (3) Sand Equivalent	TM 225		T 176				
(3) 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	Provide History of Passing Tests	
	(2) Dry Rodded Unit Weight (2)(3) Bulk Specific Gravity & Absorption			T 19 (3) T 84 & (2) T 85		Start of production and when changes in aggregate occurs	Start of production and when changes in aggregate occurs	
Portland Cement Admixtures								
Mixing Water								
Production Testing (See Section 00396.14)	(5) Test Panel					Two Test Panels per Mix Design & Two Panels per days Production See Section 00396.14(a)2	Two Test Panels per Mix Design & Two Panels per days Production See Section 00396.14(a)2	
(5) 3 Cores minimum per Panel								
Compression Test Cores	Strength			T 22	4000C	1/Set Cores per Test panel	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									
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL TRENCH FOUNDATION (Excavation Below Grade Only) (See Section 405.44)								Review Documentation for Acceptance								
									Selected general backfill						Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00400	
									Selected granular backfill							
									Selected stone backfill							
									Other approved material							Visual
Establishing Maximum Density	Density Curve			T 99	3468		1/Soil Type or Aggregate Gradation	Visual								
	Specific Gravity of Coarse Aggregates			T 85												
	Family of Curves			R 75	3468FC											
	Nuclear Density of Soils/Aggregates Coarse Particle Correction			T 310 T 99	1793S		1 Test per 300 ft. of Trench	Visual								
Compaction							Review Documentation for Acceptance									
<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>																

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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>										
Bedding 3/8" - 0 PCC fine aggregate (See Section 02690.30(h))	Sampling Aggregates Reducing Aggregates Sieve Analysis				R 90 R 76 T 27/T 11		Contractor Provided Testing	Visual	Review Documentation for Acceptance	
						1792	Contractor Provided Testing	Visual		
Commercial 3/4" - 0 Aggregate							Contractor Provided Testing	Visual	Review Documentation for Acceptance	
No. 10 - 0 Sand drainage blanket material (See Section 00360.10)	Sampling Aggregates Reducing Aggregates Sieve Analysis				R 90 R 76 T 27/T 11		Contractor Provided Testing	Visual		
Reasonably well graded sand, maximum 3/8" to dust							Contractor Provided Testing	Visual	Review Documentation for Acceptance	
Commercial available 3/8"-0 or No.10 - 0 sand							1 per Sublot	Visual		
Continuous cradle of Commercial Grade Concrete	Material must meet the requirements of Section 00440						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			
<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 Aggregates			R 90						
	Reducing Aggregates			R 76						
	Sieve Analysis			T 27		1792	Contractor Provided Testing	Visual		Review Documentation for Acceptance
Rigid Pipe: Commercial 1" - 0 or 3/4" - 0 Aggregate							Contractor Provided Testing	Visual		
Establishing Maximum Density  ( <sup>1</sup> ) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Density Curve			( <sup>1</sup> ) T 99		3468				
	Specific Gravity of Coarse Aggregates			T 85			1/Source or Aggregate Gradation	Visual		
	Coarse Particle Correction			T 99		3468				
Compaction	Nuclear Density Soils/Aggregates			T 310		1793B				
							1 test per 100 ft. of Trench and every 2.0 ft. of Fill	Visual		Review Documentation for Acceptance
<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>										

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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>Trench Backfill</b>									
Class A Backfill - Native or common Material							Contractor Provided Testing	Visual	Review Documentation for Acceptance
Class B Backfill - 1"-0 or 3/4"-0 Granular Material							Contractor Provided Testing	Visual	Review Documentation for Acceptance
Class C Backfill - Clean sand with 100% minus 1/4" material							Contractor Provided Testing	Visual	Review Documentation for Acceptance
Class D Backfill - Pit run or bar run material with 3" maximum dimension and well graded from coarse to fine							Contractor Provided Testing	Visual	Review Documentation for Acceptance
Class E Backfill - Controlled Low Strength Material (CLSM)							Contractor Provided Testing	Visual	Review Documentation for Acceptance
Establishing Maximum Density  (1) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Density Curve			(1) T 99			3468	Visual	Review Documentation for Acceptance
	Specific Gravity of Coarse Aggregates			T 85			3468		
	Family of Curves			R 75			3468FC		
Compaction	Nuclear Density Soils/Aggregates			T 310			1793S	Visual	Review Documentation for Acceptance
	Coarse Particle Correction			T 99			or 1793B		
<p>(C) Density testing is based on cumulative lineal meters or feet of pipe placement.</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>									

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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 Aggregates Reducing Aggregates Sieve Analysis			R 90 R 76 T 27		A Sublot equals 1000 Tons	Review Documentation for Acceptance			
									1792	Visual
									4000	Minimum 1 Per Project
Special Filter Material See Section 00430.46(a)	Abrasion Degradation		TM 208	T 96						
	Compaction									
<b>SECTION 00440 - COMMERCIAL GRADE CONCRETE</b>										
Mixture	Sampling Concrete Air Content of Concrete Density (Unit Weight) of Concrete Yield Slump of Concrete		TM 2	T 152 T 121 T 119 T 309	3573WS or 4000C		Contractor Provided Testing			
										Contractor Provided Testing
										Contractor Provided Testing
Modifiers Admixtures Portland Cement										
Structural Items	Fabrication of Concrete Cylinders/Beams Compressive Strength of Concrete			R 100 T 22	4000C		Contractor Provided Testing			
										(M) (S) 1 Set / Day Minimum
										(M) (S) 1 Set/20 yd <sup>3</sup>
										Cumulative (Maximum 1 Set/day)
Except Visual Acceptance Items (See section 00440.14(a))	Fabrication of Concrete Cylinders/Beams Compressive Strength of Concrete			R 100 T 22	4000C		Contractor Provided Testing	Review Documentation for Acceptance		
(S) 1 Set Represents a minimum of 3 Cylinders										
(M) Per Mix Design & Source										



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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 00442 - CONTROLLED LOW STRENGTH MATERIALS (CLSM)</b>								
CLSM Mixture	Mix Proportions Trial Batch							
	Fabrication of Concrete Cylinders/Beams			R 100				
	Compressive Strength of Concrete			T 22	4000C	1/Project or Source	Contractor Provided Testing	Review Documentation for Acceptance
Modifiers								
Admixtures							Manufacture Compliance Statement	Review Documentation for Acceptance
Portland Cement								
<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"						
Excavation, bedding, pipe zone and trench backfill								
		See Section 00510 for pipes greater than 72"				Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
Concrete Blocks								



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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 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			Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
	Specific Gravity of Coarse Aggregates Coarse Particle Correction	TM 223			T 85		Visual	Contractor Provided Testing	Visual	
Compaction	Nuclear Density of Soils/Aggregates				T 310		Visual	Contractor Provided Testing	Visual	Review Documentation for Acceptance
Structure Backfill (Section 00450.46)		Material and Operation must meet the requirements of Section 00510.48(d)								
<b>SECTION 00459 - CAST IN PLACE CONCRETE</b>										
Concrete		Material must meet the requirements of Section 00540, with acceptance in accordance with Section 00540.17								
Backfill Material		Material must meet the requirements of Section 00405.14 and be incorporated into the project in accordance with Section 00405.46								
							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 H/MAC 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			Contractor Provided Testing	Visual	Review Documentation for Acceptance	
High Early Strength Concrete		Material must meet the requirements of Section 00440, but cement contents adjusted according to 00490.11						
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  (1) Method "A"	Density Curve		(1) T 99	3468 B	Contractor Provided Testing	Visual	Review Documentation for Acceptance	
	Specific Gravity of Coarse Aggregates Coarse Particle Correction	TM 223	T 85					
Compaction	Nuclear Density of Soils/Aggregates		T 310	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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		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								
Granular Structure Backfill (See Section 02630.10)  (1) Perform a minimum of 3 tests QL's required	Sampling Aggregates Reducing Aggregates  (1) Sieve Analysis Fracture (Method 1) Sand Equivalent							
		R 90 R 76 T 27 T 335 T 176				1/Sublot (Minimum 1/Project)	Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00500	Review Documentation for Acceptance
Product Compliance	Abrasion Degradation Plasticity Index Sieve Analysis		TM 208				Contractor Provided Testing	Minimum 1 per Project
					4000			
Establishing Maximum Density (2) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Density Curve  Specific Gravity of Coarse Aggregates							
					3468		1/Soil type or Aggregate Gradation	Visual
					3468			
Compaction	Coarse Particle Correction  Nuclear Density Soils/Aggregates							
					1793B		Min of 1 per lift	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 2021)			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 00510 - STRUCTURE EXCAVATION AND BACKFILL (CONTINUED)</b>										
Soils, Soil/Aggregate Mixtures and Graded Aggregates										
Granular Wall Backfill (See Section 02630.11)	Sampling Aggregates Reducing Aggregates (1) Sieve Analysis Fracture (Method 2)				R 90 R 76 T 27 T 335	1/Sublot (Minimum 1/Project)	Contractor Provided Testing	Review Documentation for Acceptance		
(1) Perform a minimum of 3 tests QL's required										
Product Compliance	Abrasion Degradation	TM 208			T 96	Contractor Provided Testing	Minimum 1 per Project	Review Documentation for Acceptance		
(2) Compaction	(2) Deflection Testing	TM 158				1/Sublot (Minimum 1/Project)	Visual			
<b>Note: Compaction must meet the requirements of section 00330.43c</b> <i>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.</i>										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)		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>								
<b>Aggregate Production</b>								
(1) QAE may waive after 5 sublots/shifts	Sampling Aggregates							Review Documentation for Acceptance
	Reducing Aggregates	R 90						
(2) Perform a minimum of 3 tests QL's required	(2)(3)(4) Sieve Analysis	R 76			1792	Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
	(4) Fineness Modulus	T 27/T 11						
(3) Coarse Aggregate (See Section 02690.20)	(1)(3) Wood Particles	T 27/T 11						Review Documentation for Acceptance
	(4) Sand Equivalent	T 176						
(4) Fine Aggregate (See Section 02690.30)	Soundness	T 104			4000	Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
	Abrasion	T 96						
	Degradation	T 113			4000	Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
	Lightweight Pieces Organics	T 21						
Portland Cement Modifiers Admixtures	(3) Dry Rodded Unit Weight	T 19			1825	Minimum of 1 per Project	Minimum of 1 per Project	Review Documentation for Acceptance
	(3) Specific Gravity of Coarse Aggregate	T 84			1825C			
Drilling Slurry	(4) Specific Gravity of Fine Aggregate	T 85			1825	Minimum of 1 per Project	Minimum of 1 per Project	Review Documentation for Acceptance
Grout	Materials must meet the requirements of Section 02001.10					Manufacture Compliance Statement	Manufacture Compliance Statement	Review Documentation for Acceptance
	Slurry material must meet the requirements of Section 00512.14 & 00512.43(g)					Contractor Provided Testing	Contractor Provided Testing	
Mixing Water	Material must meet the requirements of Section 02080					Manufacture Compliance Statement	Manufacture Compliance Statement	Review Documentation for Acceptance
	Material must meet the requirements of Section 02020					Manufacture Compliance Statement	Manufacture Compliance Statement	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)		Same Frequency for all Tests (Minimums)	
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-734-	Quality Control		Quality Assurance
		ODOT	WAQTC		Contractor Quality Control Type D	Contractor Quality Control Type E	
<b>SECTION 00512 - DRILLED SHAFTS (CONTINUED)</b>							
Portland Cement Concrete	Sampling Concrete Slump of Concrete Concrete Temperature Density (Unit Weight) of Concrete Yield Water/Cement Ratio	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
					R 100  T22	4000C	
(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 2021)		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 - POST-INSTALLED ANCHOR SYSTEMS</b>								
<b>Resin Bonded Anchor System</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	E 488		5189	One demonstration Test includes 3 anchors (Resin shall be from same lot)		Visual	
Production Testing (See Section 00535.45(b))	Strength of Anchors in Concrete Elements	E 488		5189	<sup>(A)</sup> 1 Anchor/Sublot or portion thereof (Minimum 1/Shift)		Visual per Sublot	
<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 2021)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Quality Control		Quality Assurance	
		ODOT	ASTM		AASHTO	Contractor Quality Control Type D	Contractor Quality Control Type E	Project Manager Type D & E
<b>SECTION 00535 - POST-INSTALLED ANCHOR SYSTEMS (continued)</b>								
<b>Mechanical Anchor System</b>								
A Sublot equals 50 Anchors								
Mechanical Anchors								
<i>Materials must meet the requirements of Section 00535.10(b)</i>								
<b>Anchor Installation</b>								
Demonstration Testing (See Section 00535.45(a))	Strength of Anchors in Concrete Elements	E 488		5292	One demonstration Test includes 3 anchors			Visual
Production Testing (See Section 00535.45(b))	Strength of Anchors in Concrete Elements	E 488		5292	(A) 1 Anchor/Sublot or portion thereof (Minimum 1/Shift)			Visual per Sublot
<b>(A) Anchor testing is required per critical element identified in the Special Provisions or Plan Drawings.</b>								



FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)		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 00540 - CONCRETE BRIDGES (CONTINUED)</b>																	
Portland Cement Concrete																	
	Sampling Concrete	TM 2															
	Air Content of Concrete		T 152														
	Slump of Concrete		T 119														
	Concrete Temperature		T 309														
	Density (Unit Weight) of Concrete		T 121														
	Yield																
	Water/Cement Ratio																
	Fabrication of Concrete																
	Cylinders/Beams																
	Compressive Strength of Concrete																
				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										
				4000C													
<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>Production</th> <th>Frequencies</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>								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>
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 2021)		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 of Aggregate & Soil							
				T 255/265	1792	At time of mixing the polymer resin. See 00556.10-b.		
Polymer Resin						Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
		Material must meet the requirements of section 00556.10						Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)		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	
<b>SECTION 00557 - PREMIXED POLYMER CONCRETE OVERLAYS</b>							
Resin Primer	Material must meet the requirements of section 00557.10				Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
Polyester Resin Binder Including (Initiator, Accelerators & Inhibitors)	Material must meet the requirements of section 00557.12 (a-c)				Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
Product Compliance	Specific Gravity of Coarse Aggregate			T 85	1/Project or Source	1/Project or Source	
	Specific Gravity of Fine Aggregate			T 84			
(Submitt 2- 50 lb. samples of blended aggregate (00557.02)during the trial overlay). See Section 00557.12(d)	Sieve Analysis			T 27/T 11			
	Moisture Content of Aggregate & Soil Fracture (Method 1)			T 255/265			
	Moisture Content Sieve Analysis			T 27/11			
	( <sup>1</sup> ) Moisture Content of Aggregate & Soils			T 255/265			
( <sup>1</sup> ) See Section 00557.12(d)	Sieve Analysis				Contractor Provided Testing	Contractor Provided Testing	Review Documentation for Acceptance
Surface Texture Sand (see section 00557.12(e))				T 27/11			
Premixed Polymer Concrete	Density (Unit Weight) of Concrete			T 121	( <sup>B</sup> ) 1/Batch	( <sup>B</sup> ) 1/Batch	
	Static Modulus of Elasticity				( <sup>M</sup> ) Minimum 1 set/batch	( <sup>M</sup> ) Minimum 1 set/batch	
( <sup>M</sup> ) 1 set Represents a minimum of 3 (4"x8") cylinders cast per 00557.44(e).					( <sup>2</sup> ) 1 set per 10 batches placed or minimum 1 set/day	( <sup>2</sup> ) 1 set per 10 batches placed or minimum 1 set/day	
( <sup>2</sup> ) Submit to ODOT - CML							
( <sup>B</sup> ) Batch is defined "Per Mixer or Portion placed".							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2021)			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 - STRUCTURAL CONCRETE OVERLAYS</b>										
<b>Aggregate Production</b>										
(1) QAE may waive after 5 sublots/shifts	Sampling Aggregates									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.)
	Reducing Aggregates									
(2) Perform a minimum of 3 tests, QL's required	(2)(3)(4) Sieve Analysis			R 90	1792					Contractor Provided Testing
	(4) Fineness Modulus			T 27/T 11	1792					
(3) Coarse Aggregate (See Section 02690.20)	(4) Sand Equivalent			T 27/T 11						Contractor Provided Testing
	(1)(3) Elongated Piece			T 176						
(4) Fine Aggregate (See Section 02690.30)	(1)(3) Wood Particles	TM 229			1792					Contractor Provided Testing
	Abrasion	TM 208								
(3) Dry Rodded Unit Weight	Degradation			T 96	4000					Minimum 1 Per Project
	Soundness			T 104						
(4) Specific Gravity of Fine Aggregate	Lightweight Pieces			T 113	4000					Minimum 1 Per Project
	Organics			T 21						
Portland Cement	(3) Specific Gravity of Coarse Aggregate			T 19	1825					Start of production and when changes in aggregate occurs
	(4) Specific Gravity of Fine Aggregate			T 85	1825C					
Modifiers				T 84						Start of production and when changes in aggregate occurs
Admixtures										
Mixing Water										Manufacture Compliance Statement
Materials must meet the requirements of Section 02001.10										
Material must meet the requirements of Section 02020										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)		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 - STRUCTURAL CONCRETE OVERLAYS (CONTINUED)</b>													
Portland Cement Concrete	Sampling Concrete Air Content of Concrete Slump of Concrete Concrete Temperature Density (Unit Weight) of Concrete Yield W/C Ratio	TM 2	T 152 T 119 T 309 T 121  T 121 T 121	3573WS or 4000 C	A sublot equals 1 set of tests per 50 yd3	Contractor Provided Testing	Project Manager Type D & E						
								Latex Modified Concrete	Fine Aggregate Moisture	1792	Contractor Provided Testing	Review Documentation for Acceptance	
													<sup>(M)</sup> Per Mix Design & Source
								<sup>(S)</sup> 1 Set Represents a minimum of 3 Cylinders	Fabrication of Concrete Cylinders/Beams Compressive Strength of Concrete	4000C	<sup>(M)</sup> (S) 1 Set Cylinders per 50yd <sup>3</sup> Minimum 1 set/shift	<sup>(M)</sup> (S) 1 Set Cylinders per 50yd <sup>3</sup> Minimum 1 set/shift	
													Broadcast Aggregate
								Moisture Content of Aggregates & Soils	T 255/265	Field Test at time of Mixing Polymer Resin. See Section 00590.10-c	Field Test at time of Mixing Polymer Resin. See Section 00590.10-c	Review Documentation for Acceptance	
Broadcast Aggregate	Moisture Content of Aggregates & Soils	1792	T 255/265	Field Test at time of Mixing Polymer Resin. See Section 00590.10-c	Field Test at time of Mixing Polymer Resin. See Section 00590.10-c	Review Documentation for Acceptance							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2021)		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		T 96	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance	
	Sampling Aggregates			R 90					
	Reducing Aggregates			R 76					
	Sieve Analysis Un-washed Sand Equivalent Fracture (Method 1)			T 27 T 176 T 335	1792 1792	1/Sublot 1/5 Sublots	Visual	Review Documentation for Acceptance	
Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project									
<sup>(3)</sup> Modular Block Core and Drainage Backfill (Product Compliance)	Soundness			T 104	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance	
	Abrasion Degradation	TM 208		T 96					
	Lightweight Pieces			T 113	4000				
A Sublot equals 1,000 Tons									
<sup>(3)</sup> Modular Block Core and Backfill <sup>(1)</sup> QAE may waive after 5 sublots/shifts	Sampling Aggregates			R 90					
	Reducing Aggregates			R 76					
	<sup>(2)</sup> Sieve Analysis			T 27/T 11	1792	1/Sublot or Minimum 1 Per Project	Visual	Review Documentation for Acceptance	
	<sup>(1)</sup> Wood Particles Fracture (Method 2)	TM 225		T 335	1792				
Elongated Pieces	TM 229								
<sup>(2)</sup> Perform a minimum of 3 tests, QL's required 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	
	Sieve Analysis Un-washed			T 27	4000	1/Sublot	Visual		



FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)				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 00596A - MECHANICALLY STABILIZED EARTH RETAINING WALLS</b>											
<b>Aggregate Production</b>											
Gabion Basket Fill (Product Compliance) (See Section 00390.11(b))	Degradation Soundness Specific Gravity of Coarse Aggregates	TM 208			T 104 (1) T 85	4000	Contractor Provided Testing	Minimum 1 per Project	Review Documentation for Acceptance		
						1825					
Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project											
<i>(1) Apparent Specific Gravity and Absorption</i>											
	Gradation										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)		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 - 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 of Soil Soil Resistivity Organic Content	TM 208		T 96 T 11 T 90 T 289 T 288 T 267	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						
						1/Sublot (Minimum 1/Project)	Visual		Review Documentation for Acceptance			
						1792	Visual					
MSE Granular Wall Backfill  ( <sup>1</sup> ) Perform a minimum of 3 tests, QL's required	Sampling Aggregates Reducing Aggregates ( <sup>1</sup> ) Sieve Analysis Un-Washed Sand Equivalent Fracture (Method 1)		R 90 R 76 T 27  T 176  T 335	1792	1792	1/5 Sublots	Visual	Review Documentation for Acceptance				
									Density Curve	<sup>(2)</sup> T 99	3468	Visual
									Agg. Base Coarse Particle Correction	TM 223	1793B	Visual
Deflection Testing	TM 158	1793B	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 2021)		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 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
	Sampling Aggregates			R 90		1/Sublot	Visual	Review Documentation for Acceptance
	Reducing Aggregates			R 76				
	Sieve Analysis Un-Washed			T 27	1792			
	Sand Equivalent			T 176				
Fracture (Method 1)			T 335	1792	1/5 Sublots	Visual		
A Sublot equals 1000 Tons Minimum 1/Project								
Testing Frequency for Product Compliance per Source 1/5000 Tons Minimum 1/Project								
<sup>(3)</sup> Modular Block Core and Backfill (Product Compliance)	Soundness			T 104	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance
	Abrasion Degradation	TM 208		T 96				
	Lightweight Pieces			T 113	4000			
A Sublot equals 1000 Tons								
<sup>(3)</sup> Modular Block Core and Backfill <sup>(1)</sup> QAE may waive after 5 sublots/shifts	Sampling Aggregates			R 90		1/Sublot (Minimum 1 Per Project)	Visual	Review Documentation for Acceptance
	Reducing Aggregates			R 76				
	<sup>(2)</sup> Sieve Analysis	TM 225		T 27/T 11	1792			
<sup>(1)</sup> Wood Particles			T 335					
Fracture (Method 2)								
Elongated Pieces					1792			
<sup>(2)</sup> Perform a minimum of 3 tests, QL's required								
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
	Sieve Analysis Un-Washed			T 27	4000	1/Sublot	Visual	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)				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 00596B - PREFABRICATED MODULAR RETAINING WALLS</b>												
<b>Aggregate Production</b>												
Gabion Basket Fill (Product Compliance) (See Section 00390.11(b))	Degradation Soundness Specific Gravity of Coarse Aggregates	TM 208			T 104 (1) T 85	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		
						1825						
(1) Apparent Specific Gravity and Absorption	Gradation											

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)		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 00596B - PREFABRICATED MODULAR RETAINING WALLS</b>								
<b>Aggregate Production</b>								
Retaining Wall Granular Backfill (Product Compliance) (Also reference 02630.10)	Abrasion				4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance
	Degradation	TM 208		T 96				
	Sieve Analysis			T 11	4000			
	Plasticity Index			T 90				
A Sublot Equals 2000 Tons								
Retaining Wall Granular Backfill  ( <sup>1</sup> ) Perform a minimum of 3 tests, QL's required	Sampling Aggregates			R 90				
	Reducing Aggregates			R 76				
	( <sup>1</sup> ) Sieve Analysis Un-Washed Sand Equivalent			T 27	1792	1/Sublot (Min. 1 Per Project)	Visual	Review Documentation for Acceptance
	Fracture (Method 1)			T 176				
				T 335	1792	1/5 Sublots	Visual	
Placement  Establishing Maximum Density  ( <sup>2</sup> ) Method A	Density Curve			( <sup>2</sup> ) T 99	3468	1/Aggregate Gradation/Per Source	Visual	Review Documentation for Acceptance
	Specific Gravity of Coarse Aggregates			T 85	3468			
	Agg. Base Coarse Particle Correction	TM 223						
Compaction	Nuclear Density of Soils/Aggregates			T 310	1793B	1/100 yd <sup>3</sup> (Minimum 1/day)	Visual	
	Deflection Testing	TM 158			1793B	1 per layer	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 2021)				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 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			
	Sampling Aggregates Reducing Aggregates			R 90 R 76							
	Sieve Analysis Un-Washed			T 27	4000	1/Sublot	Visual				
Retaining Wall Granular Backfill											
Retaining Wall Granular Backfill (Product Compliance) (Also reference 02630.10)	Abrasion Degradation	TM 208		T 96	4000	Contractor Provided Testing	Minimum 1 Per Project	Review Documentation for Acceptance			
	Sieve Analysis			T 11	4000						
	Plasticity Index			T 90							
Retaining Wall Granular Backfill											
<sup>(1)</sup> Perform a minimum of 3 tests, QL's required	Sampling Aggregates Reducing Aggregates			R 90 R 76 T 27		1/Sublot	Visual	Review Documentation for Acceptance			
	<sup>(1)</sup> Sieve Analysis Un-Washed				1792						
	Fracture (Method 1)			T 335	1792	1/5 Sublots	Visual				
A Sublot Equals 2000 Tons											

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)				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>													
Placement													
Retaining Wall Granular Backfill													
Establishing Maximum Density	Density Curve			(1) T 99				3468	1/Average Gradation/Per Source	Visual		Review Documentation for Acceptance	
(1) Method A	Specific Gravity of Coarse Aggregates			T 85				3468					
	Agg. Base Coarse Particle Correction		TM 223										
Compaction	Nuclear Density of Soils/Aggregates			T 310				1793B	1/100 yd <sup>3</sup> (Minimum 1/day)	Visual		Review Documentation for Acceptance	
	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 2021)				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	Contractor Quality Control Type D	Contractor Quality Control Type E	Review Documentation for Acceptance				
	Sampling Aggregates Reducing Aggregates Sieve Analysis Un-Washed Sand Equivalent	R 90 R 76 T 27 T 176	1792	Contractor Provided Testing	Contractor Quality Control Type D	Contractor Quality Control Type E	Review Documentation for Acceptance				
Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00600											



FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)				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			T 96	4000	Contractor Provided Testing	Submit Required Documentation	Review Documentation for Acceptance			
Aggregate Subbase Grading (See 00641.10(b))	Sampling Aggregates Reducing Aggregates			R 90 R 76 T 27	1792	Contractor Provided Testing	Submit Required Documentation	Review Documentation for Acceptance			
	Sieve Analysis Un-Washed Sand Equivalent			T 176	4000	Minimum 1 per Project	Submit Required Documentation	Review Documentation for Acceptance			
Aggregate Base and Shoulders								A Sublot equals 2000 Tons			
Grading Aggregate Base (See 02630) Aggregate Shoulder (See 02640) Open Graded Aggregate Base (See 02630.11)	Abrasion Degradation	TM 208		R 90 R 76 T 27	1792	Contractor Provided Testing	Submit Required Documentation	Review Documentation for Acceptance			
	Sampling Aggregates Reducing Aggregates (1) Sieve Analysis Un-Washed (2) Sand Equivalent			T 176	1792	Contractor Provided Testing	Submit Required Documentation	Review Documentation for Acceptance			
(1) Perform at least 3 tests (2) May be waived by QAE	Fracture (Method 1)			T 335	1792	Contractor Provided Testing	Submit Required Documentation	Review Documentation for Acceptance			
<b>PLACEMENT</b>								A Sublot equals 2000 Tons			
Aggregate Base Plant Mix Applications Only Aggregate (Mixture)	Sampling Aggregates Reducing Aggregates			R 90 R 76 T 255 & T 265 (3) T 99	1792	1/Sublot or minimum 1 per day	Visual	Review Documentation for Acceptance			
	Moisture Content of Aggregates & Soils			T 85	3468	Each Size Per Source	Visual	Review Documentation for Acceptance			
Establishing Maximum Density & Optimum Moisture (Mix Design)	Density Curve Agg. Base Coarse Particle Correction Specific Gravity of Coarse Aggregates	TM 223			1793B	1 per Sublot	Visual	Review Documentation for Acceptance			
(3) Method A					1793B	(D) 5 Tests Per Sublot	Visual	Review Documentation for Acceptance			
Compaction (D) (Individual tests must meet Specification)	Deflection Testing Nuclear Density of Soils/Aggregates	TM 158		T 310	1793B			Review Documentation for Acceptance			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)		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 2021)		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</b>									
<b>Aggregate Base and Shoulders</b> (See Section 00641)									
(1) Perform at least 3 tests (2) May be waived by QAE	Abrasion Degradation	TM 208		T 96	4000	Minimum 1 per Source/Project	Visual	Review Documentation for Acceptance	
	Sampling Aggregates			R 90					
	Reducing Aggregates			R 76					
	(1) Sieve Analysis Un-Washed (2) Sand Equivalent			T 27	1792	Contractor Provided Testing	Visual	Review Documentation for Acceptance	
	Fracture (Method 1)			T 176					
				T 335	1792	1/5 Sublots	Visual		
A Sublot equals 2,000 Tons									
<b>Aggregate (Sanding Aggregate)</b>									
(3) May be waived by QAE	Sampling Aggregates			R 90					
	Reducing Aggregates			R 76					
	(1) Sieve Analysis Un-Washed (3) Cleanness Value	TM 227		T 27	1792	Contractor Provided Testing	Visual	Review Documentation for Acceptance	
	Abrasion Degradation Lightweight Pieces	TM 208		T 96	4000	Minimum 1 per Source/Project	Visual		
	Fracture (Method 1)			T 113					
	Elongated Pieces	TM 229		T 335	1792	1/5 Sublots & Start of Production	Visual	Review Documentation for Acceptance	
	Wood Particles	TM 225			1792				
A Sublot equals 1000 Tons									



FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2021)			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>											
Aggregate Production Aggregate Cover Material	Sampling Aggregates Reducing Aggregates Sieve Analysis Un-Washed			R 90 R 76 T 27			Provide Process Control	A sublot equals 1000 Tons. A minimum 1 per shift	Requires Signed and Notarized Statement of Compliance From Contractor For All Items Under Section 00700	Review Documentation for Acceptance	
											1792
											4000
Asphalt Prime and Fog Coat Asphalt Cement (Emulsion)	Sampling Asphalt Materials			R 66			Provide Suppliers Certificate of Compliance		Review Documentation for Acceptance		
<b>SECTION 00706 - EMULSIFIED ASPHALT SLURRY SEAL SURFACING</b>											
Aggregate Production	Sampling Aggregates Reducing Aggregates ( <sup>1</sup> ) Sieve Analysis			R 90 R 76 T 27/T 11			Provide Process Control	A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency	Visual	Review Documentation for Acceptance	
											1792
											4000
Emulsified Asphalt Cement Emulsified Asphalt Polymer Modified Emulsion	Sampling Asphalt Materials			R 66			Provide Suppliers Certificate of Compliance	Visual			
Additives Mineral Filler	Material must meet the requirements of Section 00706.13										
Mixture	Material must meet the requirements of Section 00706.16										
								Visual		Review Documentation for Acceptance	



FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)		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 00711 - PRE-COATED AGGREGATE ASPHALT SURFACE TREATMENT</b>																	
<b>Aggregate Production</b>																	
<p>Abrasion Degradation Soundness Lightweight Pieces Dry Rodded Unit Weight</p> <p>Sampling Aggregates Reducing Aggregates (5) Fracture (1) Wood Particles (1)(4) Elongated Piece</p> <p>(2) Sieve Analysis (3) Cleaness Value Dry Rodded Unit Weight</p> <p>(4) Not required for Dry Key Material (5) 1/5 Sublots &amp; Start of Production</p> <p>Asphalt Cement (Emulsion)</p>	<p>TM 208</p>	<p>T 96 T 104 T 113 T 19  R 90 R 76 T 335  T 277/ 11 T 19</p>	<p>4000  4000  1792  1792 1825 1825C  4000</p>	<p>A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency</p>	<p>Contractor Quality Control Type D</p>	<p>Contractor Quality Control Type E</p>	<p>Quality Assurance</p>	<p>Review Documentation for Acceptance</p>									
									<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 00711.10 and 711.15, Aggregate Production.</li> <li>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: <ul 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> </ul> </li> </ol>								



FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)				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>											
Mixture Acceptance								A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency			
Meter Method	Readings backed by Tank Measure & Production Records Daily	TM 321 ( <sup>1</sup> ) TM 322			2277	1/Sublot or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance			
<sup>(1)</sup> ACP Plant Calibration 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				
Plant Discharge Moisture	ACP Moisture Content		T 329		2277	1/Sublot or Min. 1/Day	Production Control Testing				
Asphalt Cement	Sampling Asphalt Materials		R 66		4000	1/50 Tons Submit All	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance			



FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)		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 00712 - DRY KEY 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		R 90				Review Documentation for Acceptance	
	Soundness		R 76				Review Documentation for Acceptance	
	Lightweight Pieces		T 335	1792	1 per Sublot	Visual	Review Documentation for Acceptance	
	Dry Rodded Unit Weight		TM 225 TM 229				Review Documentation for Acceptance	
	Sampling Aggregates						Review Documentation for Acceptance	
	Reducing Aggregates						Review Documentation for Acceptance	
	Fracture						Review Documentation for Acceptance	
	Wood Particles						Review Documentation for Acceptance	
	Elongated Piece						Review Documentation for Acceptance	
Sieve Analysis		TM 227	T 27/T 11	1792	1 per Sublot	Visual	Review Documentation for Acceptance	
Cleaness Value			T 19	1825 1825C	Start of production and when changes in aggregate occurs	Visual	Review Documentation for Acceptance	
Dry Rodded Unit Weight							Review Documentation for Acceptance	
Sampling Asphalt Materials			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 00712.10 and 712.15, Aggregate Production.								
2. 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:								
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 2021)		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 00715 - MULTIPLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT</b>												
<b>Aggregate Production</b>												
<p>Abrasion Degradation Soundness Lightweight Pieces Dry Rodded Unit Weight</p> <p>Sampling Aggregates Reducing Aggregates (5) Fracture (1) Wood Particles (1)(4) Elongated Piece</p> <p>(2) Sieve Analysis (3) Cleanness Value Dry Rodded Unit Weight</p> <p>(4) Not required for Dry Key Material (5) 1/5 Sublots &amp; Start of Production</p> <p>Asphalt Cement (Emulsion)</p>	<p>TM 208</p> <p>TM 225 TM 229</p> <p>TM 227</p>	<p>T 96</p> <p>T 104 T 113 T 19</p> <p>R 90 R 76 T 335</p> <p>T27/T 11</p> <p>T 19</p> <p>R 66</p>	<p>4000</p> <p>4000</p> <p>1792</p> <p>1792</p> <p>1825 1825C</p> <p>4000</p>	<p>A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency</p>			<p>Review Documentation for Acceptance</p>					
				Contractor Provided Testing		Contractor Provided Testing Minimum 1 per Project		Review Documentation for Acceptance				
				1 per Sublot		Visual		Review Documentation for Acceptance				
				Start of production and when changes in aggregate occurs		Visual		Review Documentation for Acceptance				
				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 00715.10 and 715.15, Aggregate Production.</li> <li>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: <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 2021)			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 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)	Sampling Asphalt Materials		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			Visual	Review Documentation for Acceptance				
Aggregate Production Choke Aggregate (See 00705)	Sampling Aggregates Reducing Aggregates Sieve Analysis Un-Washed				A Sublot equals 1000 Tons					
			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>										
The type of recycling agent will be listed in the Special Provisions										
Recycling Agent (See 00745.11)	Sampling Asphalt Materials		R 66	4000	Provide Suppliers Certificate of Compliance		Review Documentation for Acceptance			
			R 66	4000						
Recycling Agent	Sampling Asphalt Materials									
Asphalt Concrete Mixture		New Asphalt Concrete mixture will meet the requirements of Section 00744								
<b>SECTION 00730 - ASPHALT TACK COAT</b>										
Tack	Sampling Asphalt Materials		R 66	4000	Provide Suppliers Certificate of Compliance	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)		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	Quality Assurance
<b>SECTION 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT</b>								
Aggregate production	Abrasion Degradation Soundness Lightweight Pieces	TM 208		T 96 T 104 T 113	4000 4000	Contractor Provided Testing Minimum 1 per Project	Contractor Provided Testing Minimum 1 per Project	Review Documentation for Acceptance
(1) May be waived by QAE	Sampling Reducing Sieve Analysis (1) Cleaness Value Fracture (2) Elongated Pieces (2) Wood Particles	TM 227 TM 229 TM 225		R 90 R 76 T 27/T 11 T 335	1792 1792	1/Sublot & Start of Production	Visual	Review Documentation for Acceptance
Choke Aggregate	Sieve Analysis Un-Washed			T 27	1792	Provide Process Control	Visual	



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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 00743 - POROUS ASPHALT CONCRETE (PAC)</b>									
Aggregate Production	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	Contractor Provided Testing Minimum 1 per Project		Review Documentation for Acceptance
					4000				
( <sup>1</sup> ) QAE may waive after 5 sublots/shifts									A Sublot equals 1000 Tons. A minimum one per shift whichever results in the greatest sampling frequency
( <sup>2</sup> ) Not required for A TPB Mix	Sampling Aggregates Reducing Aggregates			R 90 R 76 T 27/T 11 T 176		1/Sublot & Start of Production	Contractor Provided Testing		Review Documentation for Acceptance
( <sup>3</sup> ) Coarse Agg (+ No. 4)	( <sup>3</sup> )( <sup>4</sup> ) Sieve Analysis								
( <sup>4</sup> ) Fine Agg (- No. 4)	( <sup>1</sup> )( <sup>4</sup> ) Sand Equivalent								
	( <sup>1</sup> )( <sup>2</sup> )( <sup>3</sup> ) Elongated Pieces TM 229 ( <sup>3</sup> )( <sup>4</sup> ) Fracture (Method 2) ( <sup>1</sup> )( <sup>2</sup> )( <sup>3</sup> ) Wood Particles TM 225			T 335		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 2021)		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 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)</b>								
<b>Mixture Acceptance - PAC with RAP</b>								
<b>Gradation</b>								
Ignition method	( <sup>1</sup> ) Calibrate Incinerator	TM 323			A Sublot equals 1000 Tons			
Ignition method	Sampling (ACP) Reducing (ACP)		R 97 R 47	2327/C	1/JMF & Each Calendar Year.	Production Control Testing		Review Documentation for Acceptance
(Residual aggregate from AASHTO T 308)	Sieve Analysis of Extracted Aggregate		T 30	2277	1/Sublot or Min. 1/Day			
( <sup>1</sup> ) Submit Samples a minimum of Days Prior to ACP Production					1/Sublot or Min. 1/day			
<b>Asphalt Content</b>								
Ignition Method	( <sup>1</sup> ) Calibrate Incinerator	TM 323			A Sublot equals 1000 Tons			
Ignition Method	Sampling (ACP) Reducing (ACP)		R 97 R 47	2327/C	1/JMF & Each Calendar Year.	Production Control Testing		Review Documentation for Acceptance
Meter Method	Asphalt Content		T 308	2277	1/Sublot or Min. 1/day			
( <sup>2</sup> ) ACP Plant Calibration Required at start of Production and if Meters fail to meet Specification	Readings backed by Tank measure & Production Records Daily	TM 321 ( <sup>2</sup> ) TM 322		2277	1/Sublot or Min. 1/day	Production Control Testing		
<b><u>Meter Method is required for PAC even when acceptance is by Ignition Method</u></b>				2043 and 2401	Daily Production	Production Control Testing		



FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)		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 Aggregates Reducing Aggregates Sieve Analysis	R 90 R 76 T 27/T 11				A Sublot equals 1000 Tons			
Ignition method	( <sup>1</sup> ) Calibrate Incinerator	TM 323		2327IC	1/JMF & Each Calendar Year.	Production Control Testing		Review Documentation for Acceptance	
Ignition method	Sampling (ACP) Reducing (ACP)								
( <sup>1</sup> ) Not required if Asphalt Content Accepted by Meter									
(Residual aggregate from AASHTO T 308)	Sieve Analysis of Extracted Aggregate	T 30		2277	1/Sublot or Min. 1/day	Production Control Testing		Review Documentation for Acceptance	
( <sup>1</sup> ) Submit Samples a minimum of 2 Days Prior to ACP Production									
<b>Asphalt Content</b>									
Ignition Method	( <sup>1</sup> ) Calibrate Incinerator	TM 323		2327IC	1/JMF & Each Calendar Year.	Production Control Testing		Review Documentation for Acceptance	
Ignition Method	Sampling (ACP) Reducing (ACP)								
( <sup>2</sup> ) ACP Plant Calibration Required at start of production and if meters fail to meet specification	Asphalt Content								
Meter Method	Readings backed by Tank measure & Production Records Daily	TM 321 ( <sup>2</sup> ) TM 322		2277	1/Sublot or Min. 1/day	Production Control Testing			
Meter Method is required for PAC even when acceptance is by Ignition Method				2277	1/Sublot or Min. 1/day	Production Control Testing			
				2043 and 2401	Daily Production	Production Control Testing		Review Documentation for Acceptance	



FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)				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 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)</b>											
Mixture Acceptance - PAC with and without RAP											
Mix Design Verification Testing											
	Cold Feed Moisture				T255/T265				1/Sublot or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance
Plant Discharge Moisture	ACP Moisture Content				T 329				1/Sublot or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance
<sup>(1)</sup> RAP Percentage	<sup>(1)</sup> RAP Moisture				T 329				1/Sublot or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance
<sup>(1)</sup> If applicable	Readings backed by Tank measure & Production Records Daily										
Asphalt Cement	Sampling Asphalt Materials				R 66				Daily Production	Production Control Testing	Review Documentation for Acceptance
<sup>(2)</sup> ACP Plant Calibration Required at start of production and if meters fail to meet specification									1/Sublot See Section 4C	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)				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 00744 - ASPHALT CONCRETE PAVEMENT</b>											
Aggregate Production								Provide Process Control			
See Specifications when Aggregate Testing is Required by Agency								Visual			
Review Documentation for Acceptance								Review Documentation for Acceptance			
<b>Mixture Acceptance</b>											
<b>Gradation</b>								A Sublot equals 1000 Tons			
Ignition method	( <sup>1</sup> ) Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.	Production Control Testing		Review Documentation for Acceptance		
Ignition method	Sampling (ACP) Reducing (ACP)			R 97 R 47		1/Sublot or Min. 1/Day	Production Control Testing		Review Documentation for Acceptance		
(Residual aggregate from AASHTO T 308)	Sieve Analysis of Extracted Aggregate			T 30	2277	1/Sublot or Min. 1/Day	Production Control Testing		Review Documentation for Acceptance		
( <sup>1</sup> ) Submit Samples a minimum of Days Prior to ACP Production											
<b>Asphalt Content</b>								A Sublot equals 1000 Tons			
Ignition Method	( <sup>1</sup> ) Calibrate Incinerator	TM 323			2327IC	1/JMF & Each Calendar Year.	Production Control Testing		Review Documentation for Acceptance		
Ignition Method	Sampling (ACP) Reducing (ACP)			R 97 R 47		1/Sublot or Min. 1/day	Production Control Testing		Review Documentation for Acceptance		
	Asphalt Content			T 308	2277						
<b>Mix Design Verification Testing</b>								A Sublot equals 1000 Tons			
Plant Discharge Moisture	ACP Moisture Content				2277	1/Sublot			Review Documentation for Acceptance		
Maximum Density Test G <sub>mm</sub>	Max. Specific Gravity MAMD	TM 305			2050	1st Sublot Daily or Min. 1/Day	Production Control Testing		Review Documentation for Acceptance		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)		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	Quality Assurance	
<b>SECTION 00744 - ASPHALT CONCRETE PAVEMENT (CONTINUED)</b>									
Compaction  <sup>(D)</sup> See T 355 Yellow sheet for Density Test Locations	Nuclear Density			T 355	1793A				Review Documentation for Acceptance

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)		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>								
Aggregate Production  (1) QAE may waive after 5 sublots/shifts  (2) Perform a minimum of 3 tests QL's required	Soundness Abrasion Degradation Lightweight Pieces Plasticity Index	TM 208	T 104 T 96  T 113 T 90	4000  4000	Contractor Provided Testing Minimum 1 per Project	Contractor Provided Testing Minimum 1 per Project	Review Documentation for Acceptance	
					A Sublot equals 1000 Tons. A minimum one per shift whichever results in the greatest sampling frequency			
(3) Coarse Agg (+ No. 4)  (4) Fine Agg (- No. 4)	Sampling Aggregates Reducing Aggregates (2)(3)(4) Sieve Analysis (1)(4) Sand Equivalent	R 90 R 76 T 27/T 11 T 176	1792	1/Sublot & Start of Production	Contractor Provided Testing	Review Documentation for Acceptance		
				1/5 Sublots & Start of Production	Contractor Provided Testing	Review Documentation for Acceptance		
Note: Sample Aggregate before Lime Treatment	(1)(3) Elongated Piece (3)(4) Fracture (Method 2) (1)(3) Wood Particles	TM 229 TM 225	T 335	1792	Contractor Provided Testing 1/500 Tons	Contractor Provided Testing	Review Documentation for Acceptance	
					1 / 50 Tons	Contractor Provided Testing	Review Documentation for Acceptance	
<b>RAS Production</b> (Reclaimed Asphalt Shingles)	Sieve Analysis Un-Washed Deleterious Materials	TM 335	T 27  R 90 R 76 T 27	4000  1792	Contractor Provided Testing 1/500 Tons	Contractor Provided Testing	Review Documentation for Acceptance	
					1 / 50 Tons	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 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 2021)			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 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)</b>												
<b>Mixture Acceptance - ACP "With and Without RAP"</b>											A Sublot equals 1000 Tons	
<b>Gradation</b>	Ignition method	( <sup>1</sup> ) Calibrate Incinerator	TM 323		2327/C							
	Ignition method	Sampling (ACP)		R 97								
	(Residual aggregate from AASHTO T 308)	Sampling (ACP)		R 47								
		Sieve Analysis of Extracted Aggregate		T 30	2277							
	( <sup>1</sup> ) Submit Samples a minimum of Days Prior to ACP Production											
<b>Asphalt Content</b>											A Sublot equals 1000 Tons	
	Ignition Method	( <sup>1</sup> ) Calibrate Incinerator	TM 323		2327/C							
	Ignition Method	Sampling (ACP)		R 97								
		Sampling (ACP)		R 47								
		Asphalt Content		T 308	2277							
	( <sup>2</sup> ) RAP and RAS Percentage	Meter Method	TM 321		2277							
	( <sup>2</sup> ) If Applicable	( <sup>2</sup> ) RAP and RAS	( <sup>3</sup> ) TM 322									
	( <sup>3</sup> ) ACP Plant Calibration Required at start of Production and if Meters fail to meet Specification	Moisture		T 329								
		Cold Feed Moisture		T255/T265	2277							
		Readings backed by Tank measure & Production Records Daily	TM 321									
	<u>Meter Method is required for ACP even when acceptance is by Ignition Method</u>		( <sup>3</sup> ) TM 322		2401 ACP							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)				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>								A Sublot equals 1000 Tons			
Mix Design Verification Testing Fabrication Maximum Density Test	Gyratory Specimen Max. Specific Gravity of ACP	TM 326		T 209	2050GV 2050 *5068	1/Sublot & according to Section 00745.16 (b)-1-d	Production Control Testing	Review Documentation for Acceptance			
Determination of $G_{mb}$	Bulk Specific Gravity of Compacted ACP			T 166	*2560 *5069						
Stripping Susceptibility	Tensile Strength Ratio			T 283		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)					2050tsr						
Plant Discharge Moisture	ACP Moisture Content			T 329	2277	1/Sublot or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance			
Maximum Density Test $G_{mm}$	Max. Specific Gravity MAMD	TM 305		T 209	2050	1st Sublot Daily or Min. 1/Day	Production Control Testing	Review Documentation for Acceptance			
Performing Control Strip	Control Strip	TM 306			2084 *5069	Develop Rolling Pattern See Specs.					
Compaction	Nuclear Density of ACP			T 355	1793A	<sup>(D)</sup> Average 5 tests per Sublot or Min. 1/Day, See Section 00745.49 (b)-2	Production Control Testing	Review Documentation for Acceptance			
Asphalt Cement	Sampling Asphalt Materials			R 66	4000	1/Sublot See Section 4C	Provide Suppliers Certificate of Compliance	Review Documentation for Acceptance			
<sup>(D)</sup> See T 355 Yellow Sheet for Density Test Locations											



FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2021)			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	
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 Aggregates									
	Reducing Aggregates (2)(3)(4) Sieve Analysis (4) Fineness Modulus holder (4) Sand Equivalent				R 90 R 76 T 27/T 11		Contractor Provided Testing		Contractor Provided Testing	Review Documentation for Acceptance
(2) Perform a minimum of 3 tests, QL's required	(1)(3) Wood Particles				1792					
	(3) Fracture (Method 2) (1)(3) Elongated Piece				1792		Contractor Provided Testing		Contractor Provided Testing	Review Documentation for Acceptance
(4) Fine Aggregate (See Section 02690.30)	Abrasion				4000					
	Degradation									
	Soundness									
	Lightweight Pieces Organics				4000		Minimum 1 per Project		Contractor Provided Testing	Review Documentation for Acceptance
(3) Dry Rodded Unit Weight	(3) Specific Gravity of Coarse Aggregate				1825					
	(4) Specific Gravity of Fine Aggregate				1825C					
(4) Specific Gravity of Fine Aggregate	(3) Specific Gravity of Coarse Aggregate				1825					
	(4) Specific Gravity of Fine Aggregate									
A Sublot equals 1000 Tons										



FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)		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)								
Portland Cement Concrete								A Sublot equals 1000 lane feet of slip formed pavement or 100 yd <sup>3</sup> of non-slip formed PCC
Portland Cement	Materials must meet the requirements of Section 02001.10							
Modifiers								
Admixtures								
Curing Compounds	Material must meet the requirements of Section 02050							
Mixing Water	Material must meet the requirements of Section 02020							
Mixture	Sampling Concrete	TM 2	T 152	3573WS	Contractor Provided Testing - 1/sublot or Minimum 1 per Day	Visual	Review Documentation for Acceptance	
	Air Content of Concrete		T 119	or				
	Slump of Concrete		T 121	4000C				
	Density (Unit Weight) of Concrete		T 121					
	Yield		T 121					
	Concrete Temperature		T 309					
	Water/Cement Ratio		T 121					
	Batching							
	Fabrication of Concrete		R 100		(M) (S) 1 Set of Cylinders per sublot or Minimum 1 set per Day	Visual	Review Documentation for Acceptance	
	Cylinders/Beams		T 22	4000C				
	Compressive Strength of Concrete							
		TM 769			See Special Provisions	Production Control Testing		
		TM 772			See Specs	Visual		
	Sitting Measure	TM 775						
<b>Smoothness</b>	Certification of Profiler Equipment Determining IRI with an Inertial Laser Profiler							
Thickness of Pavement								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)			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	Quality Assurance	
<b>SECTION 00850 - COMMON PROVISIONS FOR PAVEMENT MARKINGS</b>									
In-Place Procedure evaluates Durable and High Performance Pavement Markings	Evaluation of Retroreflectivity	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 2021)		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 00921 - MAJOR SIGN SUPPORT DRILLED SHAFTS</b>								
Aggregate Production							A Sublot equals 1,000 Tons	
(1) QAE may waive after 5 sublots/shifts	Sampling Aggregates			R 90			Review Documentation for Acceptance	Review Documentation for Acceptance
	Reducing Aggregates (2)(3)(4)			R 76				
	Sieve Analysis (4) Fineness Modulus (1)(3) Wood Particles (4) Sand Equivalent			T 27/T 11 T 27/T 11	1792	Contractor Provided Testing		
				T 176	1792	Contractor Provided Testing		
(2) Perform a minimum of 3 tests, QL's required	Soundness			T 104			Review Documentation for Acceptance	Review Documentation for Acceptance
	Abrasion			T 96		Contractor Provided Testing		
	Degradation Lightweight Pieces Organics		TM 208	T 113 T 21	4000	Contractor Provided Testing		
(4) Fine Aggregate (See Section 02690.30)				T 19			Minimum of 1 per Project	Minimum of 1 per Project
				T 85				
				T 84	1825			
Portland Cement								
Modifiers								
Admixtures								
Drilling Slurry								
Grout								
Mixing Water								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)		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 00921 - MAJOR SIGN SUPPORT DRILLED SHAFTS</b>																		
Portland Cement Concrete																		
	Sampling Concrete Slump of Concrete		TM 2	T 119	3573WS	(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.												
	Concrete Temperature			T 309	or	(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.												
	Density (Unit Weight) of Concrete			T 121	4000C													
	Yield			T 121														
	Water/Cement Ratio			T 121														
	Fabrication of Concrete			R 100														
	Cylinders/Beams			T 22														
	Compressive Strength of Concrete							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 00512-1 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>Production</th> <th>Frequencies</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>									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>
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>																	