

HOW TO USE THE FIELD TESTED MATERIALS ACCEPTANCE GUIDE

This guide summarizes the testing requirements for various materials used in the construction of ODOT 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 MFTP.

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

SOURCE REVIEW/PRODUCT COMPLIANCE TESTING – Refer to Section 4(A) for additional explanation. Certain QC tests on aggregates fall into this category. They are identified in this section by the words “Product Compliance.”

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 MFTP.

TYPES OF TESTS

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. The Engineer will test processed material if process control testing indicates that the processed material meets the contract quality requirements. Tests will involve degradation, soundness, abrasion, and lightweight pieces, but may involve other tests. 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 4(D) of this Manual or as modified by the Special Provisions or Supplemental Standard Specifications.

4. **Verification** – The Engineer will perform Verification testing as described in Section 2 and specified in Section 4(D) of this Manual. **Note: The required 1 per 10 subplot testing of Quality Control by the Region QA is considered a minimum frequency and testing may be increased when deemed necessary by the engineer.** These tests provide the basis for the Engineer's decision on acceptance of materials and products. If Independent Assurance is to be done on a material, a split of the Verification sample will be given to the Contractor for testing.

5. **Independent Assurance** – Where Independent Assurance involves testing, the Engineer will evaluate test results from split samples to assure that Contractor test results meet required parameters.

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 ODOT 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.

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 ASSURANCE						
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory			
SECTION 00330 - EARTHWORK												
Establishing Maximum Density (for Compaction)	Density Curve			T 99	3468							
	Specific Gravity of Coarse Aggregates			T 85	3468			1/Soil type		1/Project		
	Family of Curves			R 75	3468FC							
	Deflection Testing	TM 158			1793S			1 test per 3 ft. in depth				
Compaction	Nuclear Density Soils/Aggregates			T 310	1793S			See Table 00330-1 Below			1 test per 10 QC Tests per Table 00330-1	
	Coarse Particle Correction			T 99								
	Deflection Testing	TM 158			1793S							
TABLE 00330-1 Frequency of Quality Control Testing (English)												
Individual Areas		Under 3500 yd² or yd³				Over 3500 yd² or yd³						
Existing Ground Surface		1 test per 1000 yd ²				1 test per 3000 yd ²						
Embankments		1 test per 500 yd ³				1 test per 3000 yd ³						
Excavations and Finished Subgrade		1 test per 1000 yd ²				1 test per 3000 yd ²						
Stone Embankment Material (See Sec. 330.16(a))	Gradation							Visual See Section 00330.16(b)				
	Deflection Testing	TM 158			1793S			1 per Layer				
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.												
Imported Topsoil (See Section 01040.14(b))	Compliance	See Section 4C				4000		Submit to Lab				
		1/Source & 1/Type of Soil										

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE			Materials Laboratory			
		ODOT	WAQTC	AASHTO			Independent Assurance/Verification	Project Manager	Region Quality Assurance				
SECTION 00331 - SUBGRADE STABILIZATION Aggregate backfill													
					Material must meet the requirements of Section 00331.10	Visual							
					Material must meet the requirements of Section 00340								
					Material must meet the requirements of Section 00331	Visual							
SECTION 00332 - SURFACING STABILIZATION Aggregate Base													
					Material must meet the requirements of Section 00332.10	Visual							
					Material must meet the requirements of Section 00332	Visual							
SECTION 00333 - AGGREGATE DITCH LINING Aggregate	Sampling Aggregates Reducing Aggregates Sieve Analysis												
					R 90 R 76 T 27/T 11	1/Project or 1/Source							
					1792								

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Independent Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00344 - TREATED SUBGRADE											
Granular Quicklime	Sieve Analysis Calcium Hydroxide Content in lime			T 27 T 219	4000	1/Project or 1/Source	Submit to Lab			1/Project or 1/Source	
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	Material must meet the requirements of Section 02010										
Water	Material must meet the requirements of Section 00340										
Establishing Maximum Density	Density Curve			T 99	3468	See Table 00344-1 Below for Testing Frequency					1/Project and 1 Test per 10 QC tests per Table 00344-1
	Deflection Testing	TM 158			1793S						
Compaction	Deflection Testing Nuclear Density Soils/Aggregates	TM 158		T 310	1793S						
	Coarse Particle Correction			T 99							
TABLE 00344-1 Frequency of Quality Control Testing											
Individual Areas											
Finished Subgrade											
Under 3500 yd ²						Over 3500 yd ²					
1 test per 1000 yd ²						1 test per 3000 yd ²					

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	Contractor Quality Control	QUALITY ASSURANCE			
		ODOT	WAQTC			AASHTO	Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00360 - Drainage Blankets									
Granular Drainage Blanket	Sampling Aggregates Reducing Aggregates Sieve Analysis	R 90 R 76 T 27/T 11		1792	1/sublot minimum 1/Source per Project	A sublot equals 1000 Tons			
Sand Drainage Blanket	Sampling Aggregates Reducing Aggregates Sieve Analysis	R 90 R 76 T 27/T 11		1792					
Establishing Maximum Density	Density Curve Specific Gravity of Coarse Aggregates	T 99 T 85		3468 3468	1/Source and Type			1/Project	
Compaction	Deflection Testing Nuclear Density Soils/Aggregates Coarse Particle Correction	TM 158 TM 158		1793S 1793S	1 test per 3 ft. in depth See Table 00360-1 Below				1 Test per 10 QC Tests per Table 00360-1
TABLE 00360-1 Frequency of Quality Control Testing									
Individual Areas				Under 3500 yd²			Over 3500 yd²		
Existing Ground Surface				1 test per 1000 yd ²			1 test per 3000 yd ²		
Finished Surfaces				1 test per 1000 yd ²			1 test per 3000 yd ²		

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Independent Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00390 - RIPRAP PROTECTION											
Fill Material & Riprap											
Gradation See 00390.11(c-1)								Visual			
⁽¹⁾ Apparent Specific Gravity and Absorption	Degradation Soundness Specific Gravity of Coarse Aggregates	TM 208			T 104	See Section 4(A)	Submit To Lab				See Section 4(A)
					⁽¹⁾ T 85						
Filter Blanket								Visual			
Gradation See 00390.13											
Grouted Riprap Sand	Sampling Aggregates Reducing Aggregates Sieve Analysis				R 90 R 76 T 27/T 11	1/Project					
Portland Cement	Soundness Lightweight Pieces				T 104 T 113	See Section 4(A)	Submit to Lab				See Section 4(A)
	Material must meet the requirements of Section 02010										

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE			
		ODOT	WAQTC	AASHTO			Independent Assurance/Verification	Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00396 -SHOTCRETE SLOPE STABILIZATION										
Aggregate Production and Mixture										
(1) QAE may waive after 5 sublots/shifts	Sampling Aggregates									
	Reducing Aggregates									
	(2)(3) Sieve Analysis			R 90 R 76	1792		1 per 10 Sublots			
(2) Coarse Aggregate (See Section 02690.20)	(3) Fineness Modulus			T 27/T 11 T 27/T 11						
	(1)(2) Wood Particles	TM 225								
	(3) Sand Equivalent			T 176						
(3) Fine Aggregate (See Section 02690.30)	Soundness									
	Abrasion			T 104 T 96	4000			Submit to Central Lab		See Section 4(A)
	Degradation Lightweight Pieces Organics	TM 208		T 113 T 21						
Portland Cement Admixtures	(2) Dry Rodded Unit Weight									
	(2) Specific Gravity of Coarse Aggregate			T 19	1825 1825C					
	(3) Specific Gravity of Fine Aggregate			T 85 T 84	1825					
Mixing Water	Material must meet the requirements of Section 02010									
	Material must meet the requirements of Section 02040									
	Material must meet the requirements of Section 02020									
Production Testing (See Section 00396.14)	(5) Test Panel									
	Strength			T 22	4000C		Two Test Panels per Mix Design & Two Panels per days Production See Section 00396.14(a)2			
Competition Test Cores										
(5) 3 Cores minimum per Panel										
							1/Set Cores per Test panel			
								Submit to Central Lab		

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE			
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL									
TRENCH FOUNDATION (Excavation Below Grade Only) (See Section 405.44)									
Selected general backfill								Visual	
Selected granular backfill								Visual	
Selected stone backfill								Visual	
Other approved material								Visual	
Establishing Maximum Density	Density Curve			T 99	3468				
	Specific Gravity of Coarse Aggregates			T 85	3468			1/Soil Type or Aggregate Gradation	
	Family of Curves			R 75	3468FC				
	Nuclear Density Soils/Aggregates			T 310	1793S			1 Test per 300 ft. of Trench	
Compaction	Coarse Particle Correction			T 99					
<p>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.</p>									

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	Contractor Quality Control	QUALITY ASSURANCE					
		ODOT	WAQTC	AASHTO			Project Manager	Region Quality Assurance	Materials Laboratory			
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)												
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	1/Source or Aggregate Gradation						
							Visual					
Commercial 3/4" - 0 Aggregate	Sampling Aggregates Reducing Aggregates Sieve Analysis				R 90 R 76 T 27/T 11	1/Source or Aggregate Gradation						
							Visual					
Commercial available 3/8"-0 or No.10 - 0 sand	Reasonably well graded sand, maximum 3/8" to dust											
						Visual						
Continuous cradle of Commercial Grade Concrete	Material must meet the requirements of Section 00440											
						Visual						

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		ODOT	WAQTC	AASHTO			Independent Assurance/Verification	Project Manager	Region Quality Assurance	Materials Laboratory				
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)														
Pipe Zone Material														
Flexible Pipe														
<i>Use the Listed Material requirements under Bedding</i>														
Rigid Pipe: Aggregate Base 1" - 0 or 3/4" - 0 Aggregate (See Section 02630.10)	Sampling Aggregates Reducing Aggregates Sieve Analysis				R 90 R 76 T 27									
					1792			1/Source or Gradation						
Rigid Pipe: Commercial 1" - 0 or 3/4" - 0 Aggregate Establishing Maximum Density	Density Curve				(1) T 99						Visual			
					T 85			1/Source or Aggregate Gradation						
					(1) T 99									
Compaction	Nuclear Density Soils/Aggregates				T 310									
					1793B			1 Test per 300 ft. of Trench and every 1.5 ft. of Fill						
<p>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.</p>														

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		ODOT	WAQTC	AASHTO			Project Manager	Region Quality Assurance	Materials Laboratory				
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)													
Trench Backfill													
Class A Backfill - Native or common Material		<i>Material must meet the requirements of Section 00330.43</i>											
Class B Backfill - 1"-0 or 3/4"-0 Granular Material		<i>Material must meet the requirements of Section 00641</i>											
Class C Backfill - Clean sand with 100% minus 1/4" material								Visual					
Class D Backfill - Pit run or bar run material with 3" maximum dimension and well graded from coarse to fine								Visual					
Class E Backfill - Controlled Low Strength Material (CLSM)		<i>Material must meet the requirements of Section 00442</i>											
Establishing Maximum Density (1) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Density Curve			(1) T 99	3468	1/Soil Type or Aggregate Gradation							
	Specific Gravity of Coarse Aggregates			T 85	3468								
	Family of Curves			R 75	3468FC								
Compaction (C) Density testing is based on cumulative lineal feet of pipe placement.	Nuclear Density Soils/Aggregates			T 310	1793S or 1793B	(C) 1 test per 300 ft. of Trench and every 1.5 ft. of Fill							
	Coarse Particle Correction			T 99									
Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.													

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	QUALITY ASSURANCE				
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Independent Assurance/Verification	Region Quality Assurance	Materials Laboratory	
SECTION 00430 - SUBSURFACE DRAINS										
Granular Drain Backfill Material	Sampling Aggregates			R 90		A Sublot equals 1000 Tons				
	Reducing Aggregates			R 76						
	Sieve Analysis			T 27	1792					
	Abrasion Degradation	TM 208		T 96	4000			See Section 4A	Submit To Lab	See Section 4A
Special Filter Material See Section 00430.46(a)	Compaction									
SECTION 00440 - COMMERCIAL GRADE CONCRETE										
Mixture	Sampling Concrete		TM 2							
	Air Content of Concrete			T 152	3573WS or 4000 C					
	Density (Unit Weight) of Concrete			T 121						
	Yield			T 121						
	Slump of Concrete			T 119						
Concrete Temperature			T 309							
Modifiers										
Admixtures										
Portland Cement										
Structural Items	Fabrication of Concrete Cylinders/Beams			R 100	4000C					
	Compressive Strength of Concrete			T 22						
Except Visual Acceptance Items (See section 00440.14(a))	Fabrication of Concrete Cylinders/Beams			R 100	4000C					
	Compressive Strength of Concrete			T 22						
(S) 1 Set Represents a minimum of 3 Cylinders										
(M) Per Mix Design & Source										

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		ODOT	WAQTC	AASHTO			Independent Assurance/Verification	Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00442 - CONTROLLED LOW STRENGTH MATERIALS (CLSM)										
CLSM Mixture	Mix Proportions					1/Project or Source				
	Trial Batch									
	Fabrication of Concrete Cylinders/Beams			R 100						
	Compressive Strength of Concrete			T 22	4000C					
Modifiers	Material must meet the requirements of Section 02030									
Admixtures	Material must meet the requirements of Section 02040									
Portland Cement	Material must meet the requirements of Section 02010									
SECTION 00445 - SANITARY, STORM, CULVERT, SIPHON, AND IRRIGATION PIPE - INCLUDED WITH SECTION 00405										
Trench Work										
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"										
Concrete Blocks										
Material must meet the requirements of Section 00440										

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE		
		ODOT	WAQTC	AASHTO			Independent Assurance/Verification	Project Manager	Region Quality Assurance
SECTION 00450 - STRUCTURAL PLATE SHAPED STRUCTURES									
Commercial Grade Concrete in appurtenances		<i>Material must meet the requirements of Section 00440</i>							
Trench Work									
Excavation and Backfill		<i>Operations must meet the requirements of Section 00510</i>							
Trenches in Unstable Areas									
Granular Structural Backfill		<i>Material must meet the requirements of Section 00510</i>							
<i>Establishing Maximum Density</i>					(¹) T 99				
⁽¹⁾ Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Density Curve				T 85			1/Aggregate Gradation and Source	
	Specific Gravity of Coarse Aggregates Coarse Particle Correction	TM 223							
Compaction	Nuclear Density of Soils/Aggregates				T 310			1 Test per 100 ft. and 1 ft. of fill	
Structure Backfill (Section 00450.46)		<i>Material and Operation must meet the requirements of Section 00510.48(d)</i>							
SECTION 00459 - CAST IN PLACE CONCRETE									
Concrete		<i>Material must meet the requirements of Section 00540, with acceptance in accordance with Section 00540.17</i>							
Backfill Material		<i>Material must meet the requirements of Section 00405.14 and be incorporated into the project in accordance with Section 00405.46</i>							

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		ODOT	WAQTC	AASHTO			Independent Assurance/Verification	Project Manager	Region Quality Assurance
SECTION 00460 - PAVED CULVERT END SLOPES									
Commercial Grade Concrete	<i>Material must meet the requirements of Section 00440</i>								
SECTION 00470 - MANHOLES, CATCH BASINS AND INLETS									
Commercial Grade Concrete	<i>Material must meet the requirements of Section 00440</i>								
Base Drain Backfill	<i>Material must meet the requirements of Section 00470.17</i>								
Excavation, Backfill and Foundation Stabilization	<i>Material must meet the requirements of Section 00405</i>								
SECTION 00480 - DRAINAGE CURBS									
Commercial Grade Concrete	<i>Material must meet the requirements of Section 00440</i>								
Dense Graded ACP Mixture Level 2, (1/2")	<i>Material must meet the requirements of Section 00744</i>								

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		ODOT	WAQTC	AASHTO			Independent Assurance/Verification	Project Manager
SECTION 00490 - WORK ON EXISTING SEWERS AND STRUCTURES								
Commercial Grade Concrete		Material must meet the requirements of Section 00440						
High Early Strength Concrete		Material must meet the requirements of Section 00440, but cement contents adjusted according to 00490.11						
Backfill Operations		Backfill Excavations according to section 405						
Filling Abandoned Pipes, Manholes and Catch Basins (See section 00490.44)								
Backfill Operations (Roadway)		Material must meet the requirements of Section 2630						
Establishing Maximum Density (¹) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Density Curve			(¹) T 99				
	Specific Gravity of Coarse Aggregates Coarse Particle Correction	TM 223		T 85		1/Aggregate Gradation and Source		
Compaction	Nuclear Density of Soils/Aggregates			T 310		1 Test per 100 ft. and every 1.5' of Fill		
Backfill Operations Landscaped or Unimproved Roadways		Material must meet the requirements of Section 00330.13						
Top 1.0' of Backfill Region		Material must meet the requirements of Section 00330.11						
SECTION 00495 - TRENCH RESURFACING								
Resurfacing Materials		See Section 00495.40 for Material Requirements						

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		ODOT	WAQTC	AASHTO			Independent Assurance/Verification	Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL										
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			R 90 R 76 T 27		1/Sublot (Minimum 1/Project)	A Sublot equals 1,000 Tons			
	(1) Sieve Analysis Fracture (Method 1) Sand Equivalent			T 335 T 176						
	Abrasion Degradation Plasticity Index Sieve Analysis	TM 208	T 96 T 90 T 11	4000	See Section 4C 1/Source					
Establishing Maximum Density (2) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	Density Curve			(2) T 99	3468	1/Soil type or Aggregate Gradation				
	Specific Gravity of Coarse Aggregates			T 85	3468					
	Coarse Particle Correction			T 99						
Compaction	Nuclear Density Soils/Aggregates			T 310	1793B	1/100 yd ³ minimum 1/project				
<p>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.</p>										

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MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	QUALITY ASSURANCE				
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Independent Assurance/Verification	Region Quality Assurance	Materials Laboratory
SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL (CONTINUED)									
Soils, Soil/Aggregate Mixtures and Graded Aggregates									
Granular Wall Backfill (See Section 02630.11) (1) Perform a minimum of 3 tests QL's required	Sampling Aggregates Reducing Aggregates (1) Sieve Analysis Fracture (Method 2)								
					R 90 R 76 T 27 T 335	1/Sublot (Minimum 1/Project)			
					T 96	See Section 4C 1/Source	Submit to Lab		Minimum 1/Project or 1/Source
Product Compliance	Abrasion Degradation	TM 208			4000				
(2) Compaction	(2) Deflection Testing	TM 158			1793B	1/Sublot (Minimum 1/Project)			
Note: Compaction must meet the requirements of section 00330.43c									
<p style="text-align: center;">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.</p>									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	QUALITY ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00512 - DRILLED SHAFTS											
Aggregate Production											
(1) QAE may waive after 5 sublots/shifts	Sampling Aggregates										
	Reducing Aggregates (2)(3)(4)	R 90									
(2) Perform a minimum of 3 tests, QL's required	(4) Sieve Analysis	R 76			1792						
	(4) Fineness Modulus (1)(3)	T 27/T 11									
(3) Coarse Aggregate (See Section 02690.20)	(4) Wood Particles	T 27/T 11			1792						
	(4) Sand Equivalent	T 176									
(4) Fine Aggregate (See Section 02690.30)	Soundness	T 104			4000						
	Abrasion	T 96									
	Degradation	T 113			4000						
	Lightweight Pieces Organics	T 21									
Portland Cement Modifiers Admixtures	(3) Dry Rodded Unit Weight	T 19			1825						
	(3) Specific Gravity of Coarse Aggregate	T 85			1825C						
	(4) Specific Gravity of Fine Aggregate	T 84			1825						
Drilling Slurry	Materials must meet the requirements of Section 02001.10										
	Slurry material must meet the requirements of Section 00512.14 & 00512.43(g)										
Grout	Material must meet the requirements of Section 02080										
	Material must meet the requirements of Section 02020										
Mixing Water											
A Sublot equals 1,000 Tons											
1 per 10 Sublots											
See Section 4(A)											

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-	Contractor Quality Control	QUALITY ASSURANCE																								
		ODOT	WAQTC	AASHTO			Project Manager	Region Quality Assurance	Materials Laboratory																						
SECTION 00512 - DRILLED SHAFTS (CONTINUED)																															
Portland Cement Concrete																															
	Sampling Concrete Slump of Concrete		TM 2		T 119					QA Testing																					
	Concrete Temperature				T 309																										
	Density (Unit Weight) of Concrete				T 121																										
	Yield				T 121																										
	Water/Cement Ratio				T 121																										
	Fabrication of Concrete				R 100																										
	Cylinders/Beams				T 22																										
	Compressive Strength of Concrete																														
^(S) 1 Set Represents a minimum of 3 Cylinders																															
^(M) Per Mix Design & Source																															
<table border="1"> <thead> <tr> <th colspan="3">TABLE 00512-1 Frequency of Quality Control Testing</th> </tr> <tr> <th colspan="3">Minimum frequencies per Class of concrete based on daily production records.</th> </tr> <tr> <th>Production</th> <th colspan="2">Frequencies</th> </tr> </thead> <tbody> <tr> <td>0 to 100 yd³ on a single day</td> <td colspan="2">1 Set each day</td> </tr> <tr> <td>Quantity Over 100 yd³</td> <td colspan="2"></td> </tr> <tr> <td>100 to 600 yd³ on a single day</td> <td colspan="2">1 Set per each 100 yd³ or portion thereof</td> </tr> <tr> <td>over 600 yd³ on a single day</td> <td colspan="2">1 Set per each 200 yd³ or portion thereof after reaching 600 yd³</td> </tr> </tbody> </table>											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 ³ on a single day	1 Set each day		Quantity Over 100 yd³			100 to 600 yd ³ on a single day	1 Set per each 100 yd ³ or portion thereof		over 600 yd ³ on a single day	1 Set per each 200 yd ³ or portion thereof after reaching 600 yd ³	
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 ³ on a single day	1 Set each day																														
Quantity Over 100 yd³																															
100 to 600 yd ³ on a single day	1 Set per each 100 yd ³ or portion thereof																														
over 600 yd ³ on a single day	1 Set per each 200 yd ³ or portion thereof after reaching 600 yd ³																														

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE	
		ODOT	ASTM	AASHTO			Project Manager	Region Quality Assurance
SECTION 00535 - POST-INSTALLED ANCHOR SYSTEMS								
Resin Bonded Anchor System								
Anchor Bolts, reinforcing steel and resin (Polyester, vinyl ester or epoxy)		Materials must meet the requirements of Section 00535.10(a)			A Sublot equals 50 Anchors			
Anchor Installation								
Demonstration Testing (See Section 00535.45(a))		E 488		5189		One demonstration Test includes 3 anchors (Resin shall be from same lot)		Visual
Production Testing (See Section 00535.45(b))		E 488		5189		(A) 1 Anchor/Sublot or portion thereof (Minimum 1/Shift)		Visual per Sublot
(A) 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 ASSURANCE					
		ODOT	ASTM	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00535 - POST-INSTALLED ANCHOR SYSTEMS (continued)											
Mechanical Anchor System											
Mechanical Anchors						A Sublot equals 50 Anchors					
						Materials must meet the requirements of Section 00535.10(b)					
Anchor Installation											
Demonstration Testing (See Section 00535.45(a))	Strength of Anchors in Concrete Elements	E 488			5292		One demonstration Test includes 3 anchors	Visual			
							(A) 1 Anchor/Sublot or portion thereof (Minimum 1/Shift)	Visual per Sublot			
Production Testing (See Section 00535.45(b))	Strength of Anchors in	E 488			5292						
(A) 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 ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00540 - STRUCTURAL CONCRETE											
Aggregate Production											
(1) QAE may waive after 5 sublots/shifts	Sampling Aggregates			R 90							
	Reducing Aggregates			R 76	1792						
	(2)(3)(4) Sieve Analysis			T 27/T 11 T 27/T 11						1 per 10 Sublots	
(2) Perform a minimum of 3 tests, QL's required	(4) Fineness Modulus	TM 225		T 176	1792						
	(1)(3) Wood Particles										
(3) Coarse Aggregate (See Section 02690.20)	(4) Sand Equivalent										
	Soundness			T 104	4000						
(4) Fine Aggregate (See Section 02690.30)	Abrasion			T 96							
	Degradation	TM 208		T 113	4000						
Portland Cement	Lightweight Pieces Organics			T 21					See Section 4A		See Section 4A
	(3) Dry Rodded Unit Weight			T 19	1825						
	(3) Specific Gravity of Coarse Aggregate			T 85	1825C						
Modifiers	(4) Specific Gravity of Fine Aggregate			T 84	1825						
	Admixtures										
Mixing Water	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-	Contractor Quality Control	QUALITY ASSURANCE											
		ODOT	WAQTC			AASHTO	Project Manager	Region Quality Assurance	Materials Laboratory								
SECTION 00540 - STRUCTURAL CONCRETE (CONTINUED)																	
Portland Cement Concrete	Sampling Concrete Air Content of Concrete Slump of Concrete Concrete Temperature Density (Unit Weight) of Concrete Yield Water/Cement Ratio	TM 2	T 152 T 119 T 309 T 121	3573WS or 4000C	(M) (S) Test at minimum frequencies according to table 00540-1. Review specs.	QA Testing											
						Projects under 100 yd ³ all classes 1/Project representing all classes of PCC											
(S) 1 Set Represents a minimum of 3 Cylinders	Fabrication of Concrete Cylinders/Beams Compressive Strength of Concrete	R 100 T 22	4000C	Projects over 100 yd ³ all classes 1/500 yd ³ per class minimum 1/class													
				QA Testing													
<p>(M) Per Mix Design & Source</p> <p>TABLE 00540-1 Frequency of Quality Control Testing</p> <p>Minimum frequencies per Class of concrete based on Daily Production Records.</p> <table border="1"> <thead> <tr> <th>Production</th> <th>Frequencies</th> </tr> </thead> <tbody> <tr> <td>0 to 100 yd³ on a single day</td> <td>1 Set each day</td> </tr> <tr> <td>Quantity Over 100 yd³ 100 to 600 yd³ on a single day</td> <td>1 Set per each 100 yd³ or portion thereof</td> </tr> <tr> <td>over 600 yd³ on a single day</td> <td>1 Set per each 200 yd³ or portion thereof after reaching 600 yd³</td> </tr> </tbody> </table>										Production	Frequencies	0 to 100 yd ³ on a single day	1 Set each day	Quantity Over 100 yd³ 100 to 600 yd ³ on a single day	1 Set per each 100 yd ³ or portion thereof	over 600 yd ³ on a single day	1 Set per each 200 yd ³ or portion thereof after reaching 600 yd ³
Production	Frequencies																
0 to 100 yd ³ on a single day	1 Set each day																
Quantity Over 100 yd³ 100 to 600 yd ³ on a single day	1 Set per each 100 yd ³ or portion thereof																
over 600 yd ³ on a single day	1 Set per each 200 yd ³ or portion thereof after reaching 600 yd ³																

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)			Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE			
		ODOT	WAQTC	AASHTO			Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00556 - MULTI-LAYER POLYMER CONCRETE OVERLAY										
Aggregate Production	Moisture Content of Aggregate & Soil			T 255/265	1792	At time of mixing the polymer resin. See 00556.10-b				
Polymer Resin	Material must meet the requirements of section 00556.10									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					Same Frequency for all Tests (Minimums)					
					TEST METHOD			FORM		QUALITY ASSURANCE
MATERIAL AND OPERATION	DESCRIPTION OF TEST	ODOT	WAQTC	AASHTO	734-	Contractor Quality Control	Independent Assurance/Verification	Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00557 - PREMIXED POLYMER CONCRETE OVERLAYS										
Resin Primer	<i>Material must meet the requirements of section 00557.10</i>									
Polyester Resin Binder Including (Initiator, Accelerators & Inhibitors)	<i>Material must meet the requirements of section 00557.12 (a-c)</i>									
Aggregate Production Product Compliance (Submit 2- 50 lb. samples of blended aggregate (00557.02) during the trial overlay)	Specific Gravity of Coarse Aggregate Specific Gravity of Fine Aggregate Sieve Analysis Moisture Content of Aggregate & Soil Fracture (Method 1)			T 85 T 84 T 27/11 T 255/265 T 335	4000	1/Project and Source		Submit to Lab		See Section 00557.12(d)
(1) See Section 00557.12(d)	Moisture Content of Aggregate & Soils Sieve Analysis			T 255/265 T 27/11	1792	During the Trial Overlay Strip				
	(1) Moisture Content of Aggregate & Soils			T 255/265		During Production				
	Sieve Analysis			T 27/11	1792	1/Project and Source				
Premixed Polymer Concrete	Density (Unit Weight) of Concrete			T 121	3573WS	(B) 1/Batch				
	Static Modulus of Elasticity	TM 759			4000C	(M) Minimum 1 set/batch				
(M) 1 set Represents a minimum of 3 (4"x8") cylinders cast per 00557.44(e)	1 set per 10 batches placed or minimum 1 set/day									
(B) Batch is defined "Per Mixer or Portion placed".	Submit to Lab									

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 ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00559 - STRUCTURAL CONCRETE OVERLAYS											
Aggregate Production											
(1) QAE may waive after 5 sublots/shifts	Sampling Aggregates Reducing Aggregates (2)(3)(4) Sieve Analysis (4) Fineness Modulus (4) Sand Equivalent			R 90 R 76 T 27/T 11 T 27/T 11 T 176	1792 1792	1/Sublot & Start of Production					
(2) Perform a minimum of 3 tests, QL's required											
(3) Coarse Aggregate (See Section 02690.20)	(1)(3) Elongated Piece (1)(3) Wood Particles	TM 229 TM 225			1792	1/5 Sublots & Start of Production					
(4) Fine Aggregate (See Section 02690.30)	Abrasion Degradation Soundness Lightweight Pieces Organics	TM 208		T 96 T 104 T 113 T 21	4000 4000	See Section 4(A)	Submit to Central Lab				See Section 4(A)
	(3) Dry Rodded Unit Weight			T 19	1825 1825C	Start of production and when changes in aggregate occurs					
	(3) Specific Gravity of Coarse Aggregate (4) Specific Gravity of Fine Aggregate			T 85 T 84	1825						
Portland Cement Modifiers Admixtures	Materials must meet the requirements of Section 02001.10										
Mixing Water	Material must meet the requirements of Section 02020										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2021)			Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE					
		ODOT	WAQTC	AASHTO			Project Manager	Region Quality Assurance	Materials Laboratory			
SECTION 00559 - STRUCTURAL CONCRETE OVERLAYS (CONTINUED)												
Portland Cement Concrete	Sampling Concrete Air Content of Concrete Slump of Concrete Concrete Temperature Density (Unit Weight) of Concrete Yield Water/Cement Ratio	TM 2	T 152 T 119 T 309 T 121 T 121 T 121		3573W S or 4000 C	A subplot equals 1 set of tests per 50 yd3						
						1 / Sublot or Minimum 1 per Shift						
						(M) (S) 1 Set Cylinders per 50yd ³ Minimum 1 set/shift						
						1 per 10 Sublots						
						1 Set per 500 yd ³						
(M) Per Mix Design & Source	Fabrication of Concrete Cylinders/Beams Compressive Strength of Concrete	R 100 T 22		4000C								
(S) 1 Set Represents a minimum of 3 Cylinders					1792	Test at time of packaging and shipment. See Section 00590.10-C						
SECTION 00590 - POLYMER MEMBRANE												
Broadcast Aggregate	Moisture Content of Aggregates & Soils		T 255/265		1792							
Broadcast Aggregate	Moisture Content of Aggregates & Soils		T 255/265		1792	Field Test at time of Mixing Polymer Resin. See Section 00590.10-C						

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 ASSURANCE									
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Independent Assurance/Verification	Region Quality Assurance	Materials Laboratory					
SECTION 00596A - MECHANICALLY STABILIZED EARTH RETAINING WALLS														
Aggregate Production														
Gravel Leveling Pads Backfill (See Section 02630.10)	Abrasion Degradation	TM 208		T 96	4000	See Section 4A	Submit to Lab	See Section 4A	See Section 4A					
					A Sublot equals 1,000 Tons Minimum 1/Project									
										1/Sublot	Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project	See Section 4C & 02690	Submit To Lab	See Section 4C
					1792									
					1792									
⁽³⁾ Modular Block Core and Backfill (Product Compliance)	Soundness Abrasion Degradation Lightweight Pieces	TM 208		T 104 T 96 T 113	4000	See Section 4C & 02690	Submit To Lab	See Section 4C						
					4000									
					A Sublot equals 1,000 Tons									
⁽³⁾ Modular Block Core and Drainage Backfill ⁽¹⁾ QAE may waive after 5 sublots/shifts	Sampling Aggregates Reducing Aggregates ⁽²⁾ Sieve Analysis ⁽¹⁾ Wood Particles Fracture (Method 2) Elongated Pieces	TM 225 TM 229		R 90 R 76 T 27/T 11 T 335	1792	1/Sublot								
					1792									
					A Sublot equals 1,000 Tons									
					A Sublot equals 1,000 Tons									
⁽²⁾ Perform a minimum of 3 tests, QL's required Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	Abrasion Degradation Sieve Analysis Un-washed	TM 208		T 96 T 27	4000	See Section 4C	Submit To Lab	See Section 4C						
					4000									
					A Sublot equals 1,000 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 ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00596A - MECHANICALLY STABILIZED EARTH RETAINING WALLS											
Aggregate Production											
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	See Section 4C	Submit to Lab			Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project	See Section 4C
(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-	QUALITY ASSURANCE			Materials Laboratory	
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Independent Assurance/Verification	Region Quality Assurance		Project Manager
SECTION 00596A - MSE RETAINING WALLS										
Aggregate Production										
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		T96 T 11 T 90 T 289 T 288 T 267	4000	Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project				See Section 4C
					4000	See Section 4C	Submit to Central Lab			
A Sublot Equals 2,000 Tons										
MSE Granular Wall Backfill	Sampling Aggregates Reducing Aggregates			R 90 R 76 T 27 T 176	1792	1/Sublot				
(1) Perform a minimum of 3 tests, QL's required	(1) Sieve Analysis Un-Washed Sand Equivalent			T 335	1792	1/5 Sublots				
Placement Establishing Maximum Density	Fracture (Method 1)			(1) T 99	3468	1/Aggregate Gradation/Per Source				
(1) Method A	Density Curve			T 85	3468					
	Specific Gravity of Coarse Aggregates			T 310	1793B	1/ 100 yd3 (Minimum 1/day)				
Compaction	Agg. Base Coarse Particle Correction	TM 223			1793B	1 per layer	Visual See section 00596A.47(c-5)			
	Nuclear Density of Soils/Aggregates									
	Deflection Testing	TM 158								
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 ASSURANCE															
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Independent Assurance/Verification	Region Quality Assurance	Materials Laboratory												
SECTION 00596B - PREFABRICATED MODULAR RETAINING WALLS																					
Aggregate Production Gravel Leveling Pads Backfill (See Section 02630.10)	Abrasion Degradation	TM 208		T96	4000	See Section 4A	Submit to Lab	See Section 4A	See Section 4A	See Section 4A											
											A Sublot equals 1,000 Tons Minimum 1/Project										
											Sampling Aggregates Reducing Aggregates Sieve Analysis Un-Washed Sand Equivalent	R 90 R 76 T 27 T 176	1792	1/Sublot	1792	1/5 Sublots	Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project	See Section 4C & 02690	Submit To Lab	See Section 4C	
																					Fracture (Method 1)
Soundness Abrasion Degradation Lightweight Pieces	TM 208	T 104 T 96 T 113	4000	See Section 4C & 02690	Submit To Lab	See Section 4C															
							A Sublot equals 1,000 Tons														
⁽³⁾ Modular Block Core and Backfill (Product Compliance)	Sampling Aggregates Reducing Aggregates ⁽²⁾ Sieve Analysis ⁽¹⁾ Wood Particles Fracture (Method 2) Elongated Pieces	TM 225 TM 229	R 90 R 76 T 27/T 11 T 335	1792 1792	1/Sublot	See Section 4C & 02690	Submit To Lab	See Section 4C	See Section 4C												
										Abrasion Degradation	TM 208	T 96	4000	See Section 4C	Submit To Lab	See Section 4C					
⁽²⁾ Perform a minimum of 3 tests, QL's required Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	Sieve Analysis Un-Washed	T 27	4000	1/Sublot	See Section 4C & 02690	Submit To Lab	See Section 4C														

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 ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00596B - PREFABRICATED MODULAR RETAINING WALLS											
Aggregate Production											
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	See Section 4C	Submit to Lab	See Section 4C	Testing Frequency for Product Compliance per Source	
										1/5,000 Tons Minimum 1/Project	
(1) Apparent Specific Gravity and Absorption	Gradation							Visual			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)		Same Frequency for all Tests (Minimums)		
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-734-	QUALITY ASSURANCE			
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager	Region Quality Assurance
SECTION 00596B - PREFABRICATED MODULAR RETAINING WALLS								
Aggregate Production								
Retaining Wall Granular Backfill (Product Compliance) (Also reference 02630.10)	Abrasion Degradation Sieve Analysis Plasticity Index	TM 208		T 96 T 11 T 90	4000	See Section 4C	Submit to Central Lab	Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project
					4000			
A Sublot Equals 2,000 Tons								
Retaining Wall Granular Backfill (¹) Perform a minimum of 3 tests, QL's required	Sampling Aggregates Reducing Aggregates (¹) Sieve Analysis Un-Washed Sand Equivalent Fracture (Method 1)			R 90	1792	1/Sublot		
				R 76				
				T 27				
				T 176				
Placement Establishing Maximum Density (¹) Method A	Density Curve Specific Gravity of Coarse Aggregates Agg. Base Coarse Particle Correction	TM 223		(¹) T 99	3468	1/Aggregate Gradation/Per Source		
				T 85				
				T 310				
Compaction	Nuclear Density of Soils/Aggregates Deflection Testing	TM 158		1793B	1793B	1/ 100 yd3 (Minimum 1/day)		Visual See section 00596B.47(b-6)
					1793B			
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 ASSURANCE				
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00596C - CAST-IN-PLACE CONCRETE RETAINING WALLS										
Aggregate Production										
Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	Abrasion Degradation	TM 208		T 96	4000	See Section 4C	Submit To Lab			See Section 4C
	Sampling Aggregates			R 90						
	Reducing Aggregates			R 76						
	Sieve Analysis Un-Washed			T27	4000	1/Sublot				
Retaining Wall Granular Backfill										
Retaining Wall Granular Backfill (Product Compliance) (Also reference 02630.10)	Abrasion Degradation Sieve Analysis Plasticity Index	TM 208		T 96 T 11 T 90	4000	See Section 4C	Submit to Central Lab			See Section 4C
					4000					
Retaining Wall Granular Backfill (¹) Perform a minimum of 3 tests, QL's required										
	Sampling Aggregates Reducing Aggregates (¹) Sieve Analysis Un-Washed Fracture (Method 1)			R 90 R 76 T 27 T 335		1/Sublot				
						1/5 Sublots				
A Sublot Equals 2,000 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-	Contractor Quality Control	QUALITY ASSURANCE			
		ODOT	WAQTC			AASHTO	Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00596C - CAST-IN-PLACE CONCRETE RETAINING WALLS									
Placement									
Retaining Wall Granular Backfill	Density Curve			(1) T 99	3468				
Establishing Maximum Density	Specific Gravity of Coarse Aggregates			T 85	3468	1/Aggregate Gradation/Per Source			
(1) Method A	Agg. Base Coarse Particle Correction	TM 223							
Compaction	Nuclear Density of Soils/Aggregates			T 310	1793B	1/ 100 yd3 (Minimum 1/day)			
	Deflection Testing	TM 158			1793B	1 per layer	Visual See section 00596C.42(f)		
<p>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.</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 ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00635 - GRID-ROLLED AGGREGATE SUBBASE											
Aggregate Subbase Grading (See 00635.10)	Abrasion Sampling Aggregates Reducing Aggregates Sieve Analysis Un-Washed Sand Equivalent			T 96	4000	A Sublot equals 1000 Tons		Submit To	See Section 4(A)		
						1/Source	Central Lab				
						1/Sublot & Start of Production					
					1792						
				T 176							

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 ASSURANCE			Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory
		ODOT	WAQTC	AASHTO								
SECTION 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS												
Aggregate Production Aggregate Subbase Grading (See 00641.10(b))	Abrasion			T 96	4000	See Sec. 4A	Submit To Central Lab				See Section 4(A)	
	Sampling Aggregates Reducing Aggregates			R 90 R 76 T 27		1/Project or 1/Source	Visual					
	Sieve Analysis Un-Washed Sand Equivalent			T 176	1792							
	Abrasion Degradation	TM 208		T96	4000	See Section 4A	Submit to Lab				See Section 4A	
	Grading Aggregate Base (See 02630) Aggregate Shoulder (See 02640) Open Graded Aggregate Base (See 02630.11)			R 90 R 76 T 27 T 176		1/Sublot & Start of Production				1 per 10 Sublots		
(¹) Perform at least 3 tests (²) May be waived by QAE	Fracture (Method 1)		T 335	1792	1/5 Sublots & Start of Production							
Placement												
Aggregate Base Plant Mix Applications Only Aggregate (Mixture)	Sampling Aggregates Reducing Aggregates Moisture Content of Aggregates & Soils			R 90 R 76 T 255/265		1/Sublot or minimum 1/Day				1 per 10 Sublots		
	Density Curve Agg. Base Coarse Particle Correction Specific Gravity of Coarse Aggregates	TM 223		(³) T 99 T 85	3468 B 3468 B	Each Size per Source				1/Project		
	Deflection Testing Nuclear Density of Soils/Aggregates	TM 158		T310	1793B 1793B	1 per Sublot (^D) 5 Tests Per Sublot				(^D) 1 (5 Tests) per 10 Sublots		
	(^D) (Individual tests must meet Specification)											

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2021)				Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE						
		ODOT	WAQTC	AASHTO			Independent Assurance/Verification	Project Manager	Region Quality Assurance	Materials Laboratory			
SECTION 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS (Continued)													
Placement													
Aggregate Subbase													
Compaction	Deflection Testing	TM 158			1793 B	1 per Layer	Visual						

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)				Same Frequency for all Tests (Minimums)							
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-734-	QUALITY ASSURANCE									
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Independent Assurance/Verification	Region Quality Assurance	Materials Laboratory						
SECTION 00680 - STOCKPILED AGGREGATES															
Aggregate Base and Shoulders (See Section 00641)															
(1) Perform at least 3 tests, QL's required	Abrasion Degradation	TM 208		T 96	4000	See Section 4A	Submit to Lab				See Section 4A				
					A Subplot equals 2,000 Tons										
					1792	1/Sublot & Start of Production									
					1792										1 per 10 Sublots
(2) May be waived by QAE	Fracture (Method 1)			T 335	1792	1/5 Sublots & Start of Production									
Aggregate (Sanding Aggregate)															
(1) May be waived by QAE	Sampling Aggregates Reducing Aggregates Sieve Analysis Un-Washed (1) Cleaness Value	TM 227		R 90 R 76 T 27	1792	1/Sublot & Start of Production					1 per 10 Sublots				
					A Subplot equals 1000 Tons										
					4000	See Section 4A	Submit to Lab								See Section 4A
					4000										
(1) May be waived by QAE	Abrasion Degradation Lightweight Pieces	TM 208		T 96 T 113	1792	1/5 Sublots & Start of Production					1 per 10 Sublots				
					1792										

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 ASSURANCE											
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory							
SECTION 00680 - STOCKPILED AGGREGATES (CONTINUED)																
Emulsified AC Aggregate Aggregate Production (See Sections 00705, 00706, 00710, 00711, 00712 and 00715) (1) QAE may waive after 5 sublots/shifts (2) Perform at least 3 tests (QL's required), QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated (3) May be waived by QAE (4) Not required for Dry Key Material (5) 1/5 Sublots & Start of Production	Abrasion Degradation Soundness Lightweight Pieces Dry Rodded Unit Weight Sampling Aggregates Reducing Aggregates (5) Fracture (Method 1) (1) Wood Particles (1)(4) Elongated Piece (2) Sieve Analysis (3) Cleanness Value Dry Rodded Unit Weight	TM 208	T 96 T 104 T 113 T 19 R 90 R 76 T 335 T27/T 11 T 19	4000 4000 1792 1792	See Section 4A 1/Sublot & Start of Production	Submit to Lab	1 per 10 Sublots	See Section 4A	A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency							
									Use sampling and testing frequencies required for proposed end product use							
									Aggregate (Other)				Use sampling and testing frequencies required for proposed end product use			

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 ASSURANCE				
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00705 - EMULSIFIED ASPHALT PRIME COAT and EMULSIFIED ASPHALT FOG COAT										
Aggregate Production										
Aggregate Cover Material	Sampling Aggregates Reducing Aggregates Sieve Analysis Un-Washed	R 90 R 76 T 27			1792	1/Sublot & Start of Production		1 per 10 Sublots		
Asphalt Prime and Fog Coat Asphalt Cement (Emulsion)	Sampling Asphalt Materials	R 66			4000	See Section 4C 1/50 Tons (Submit All)	Submit to Central Lab			1/5 QC Samples (Random)
SECTION 00706 - EMULSIFIED ASPHALT SLURRY SEAL SURFACING										
Aggregate Production										
⁽¹⁾ Perform at least 3 tests, QL's required	Sampling Aggregates Reducing Aggregates ⁽¹⁾ Sieve Analysis	R 90 R 76 T 27/T 11			1792	1/Sublot & Start of Production				
Emulsified Asphalt Cement Emulsified Asphalt Polymer Modified Emulsion	Sampling Asphalt Materials	R 66			4000	See Section 4C 1/50 Tons (Submit All)	Submit to Central Lab			1/5 QC Samples (Random)
Additives										
Mineral Filler										
Mixture										
		Material must meet the requirements of Section 00706.13								
		Material must meet the requirements of Section 00706.16								

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 ASSURANCE				
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Independent Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00710 - SINGLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT										
Aggregate Production										
<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 & Start of Production</p> <p>Asphalt Cement (Emulsion)</p>	Abrasion	TM 208	T 96	4000	See Section 4A	Submit to Central Lab	1 per 10 Sublots	See Section 4A	A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency	1/5 QC Samples (Random)
	Degradation									
	Soundness									
	Lightweight Pieces									
	Dry Rodded Unit Weight									
	Sampling Aggregates									
	Reducing Aggregates									
	(5) Fracture (Method 1)									
	(1) Wood Particles	TM 225			1792	1/5 Sublot & Start of Production				
	(1)(4) Elongated Piece	TM 229								
(2) Sieve Analysis	TM 227		T 27/T 11	1792						
(3) Cleanness Value										
Dry Rodded Unit Weight										
					Start of production and when changes in aggregate occurs					
					1/50 Tons Submit All	Submit to Lab				
Preproduced Aggregate										
Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:										
1. Continuing production records meeting the above requirements of Section 00710.10 and 710.15, Aggregate Production.										
2. Furnish records of testing for the entire stockpile according to Section 00710.10 and 710.15 Aggregate Production except change the sampling frequency to the following:										
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 ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00711 - PRE-COATED AGGREGATE ASPHALT SURFACE TREATMENT											
Aggregate Production											
(1) QAE may waive after 5 sublots/shifts (2) Perform at least 3 tests (QL's required), QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated (3) May be waived by QAE (4) Not required for Dry Key Material (5) 1/5 Sublots & Start of Production Asphalt Cement	Abrasion	TM 208	T 96	4000	See Section 4A	Submit to Central Lab	1 per 10 Sublots	See Section 4A	<i>A sublot equals 500 Tons. A minimum 1 per shift whichever results in the greatest sampling frequency</i>		
	Degradation		T 104	4000							
	Soundness		T 113								
	Lightweight Pieces		T 19								
	Dry Rodded Unit Weight		R 90								
			R 76								
	Sampling Aggregates		T 335	1792	1/Sublot & Start of Production						
	Reducing Aggregates		T 27/T 11	1792							
	(5) Fracture (Method 1)				Start of production and when changes in aggregate occurs						
	(1) Wood Particles	TM 225	T 19	1825							
(1)(4) Elongated Piece	TM 229		1825C								
(2) Sieve Analysis	TM 227										
(3) Cleanness Value											
Dry Rodded Unit Weight					1/50 Tons Submit All	Submit to Lab		1/5 QC Samples (Random)			
Preproduced Aggregate											
Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following: 1. Continuing production records meeting the above requirements of Section 00711.10 and 711.15, Aggregate Production. 2. Furnish records of testing for the entire stockpile according to Section 00711.10 and 711.15 Aggregate Production except change the sampling frequency to the following: a. One Per 5 sublots means "One Set of Tests Per 2500 Tons". b. One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project. c. Provide one stockpile sample for each set of tests required above.											

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					(Revised November 2021)					Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	QUALITY ASSURANCE			Independent Assurance/Verification	Materials Laboratory			
		ODOT	WAQTC	AASHTO			Project Manager	Region Quality Assurance						
SECTION 00711 - PRE-COATED AGGREGATE ASPHALT SURFACE TREATMENT (CONTINUED)														
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 (1) TM 322			2277	1/Sublot or Min. 1/Day								
(1) ACP Plant Calibration Required at start of production and if meters fail to meet specification					2043 & 2401	Daily Production								
Plant Discharge Moisture	Cold Feed Moisture		T 255/265		2277	1/Sublot or Min. 1/Day								
Asphalt Cement	ACP Moisture Content		T 329		2277	1/Sublot								
	Sampling Asphalt Materials		R 66		4000	1/50 Tons Submit All		Submit to Lab					1/5 QC Samples (Random)	

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 ASSURANCE						
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory			
SECTION 00712 - DRY KEY EMULSIFIED ASPHALT SURFACE TREATMENT											A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency	
Aggregate Production	Abrasion Degradation Soundness Lightweight Pieces Dry Rodded Unit Weight	TM 208			T 96	4000	See Section 4A	Submit to Central Lab	1 per 10 Sublots		See Section 4A	
					T 104 T 113 T 19	4000						
	Sampling Aggregates Reducing Aggregates ⁽⁵⁾ Fracture (Method 1) ⁽¹⁾ Wood Particles ⁽¹⁾⁽⁴⁾ Elongated Piece ⁽²⁾ Sieve Analysis ⁽³⁾ Cleanness Value	TM 225 TM 229 TM 227				R 90 R 76 T 335	1792	1/5 Sublot & Start of Production				
						T 27/T 11	1792					
						T 19	1825 1825C					
	Dry Rodded Unit Weight					R 66	4000	1/50 Tons Submit All	Submit to Lab		1/5 QC Samples (Random)	
	Asphalt Cement (Emulsion)	Sampling Asphalt Materials										
	Preproduced Aggregate											
	Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:											
	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 ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00715 - MULTIPLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT											
Aggregate Production											
Aggregate Production (1) QAE may waive after 5 sublots/shifts (2) Perform at least 3 tests (QL's required), QAE may waive wet sieve after 5 sublots/shifts if a correlation to dry sieve can be demonstrated (3) May be waived by QAE (4) Not required for Dry Key Material (5) 1/5 Sublots & Start of Production	Abrasion	TM 208		T 96	4000	See Section 4A	Submit to Central Lab				See Section 4A
	Degradation			T 104							
	Soundness			T 113							
	Lightweight Pieces			T 19	4000						
	Dry Rodded Unit Weight			R 90							
	Sampling Aggregates			R 76							
	Reducing Aggregates			T 335							
	(5) Fracture (Method 1)										
	(1) Wood Particles	TM 225				1792	1/5 Sublot & Start of Production				1 per 10 Sublots
	(1)(4) Elongated Piece	TM 229									
(2) Sieve Analysis			T 27/T 11		1792						
(3) Cleanness Value	TM 227										
Dry Rodded Unit Weight			T 19		1825 1825C	Start of production and when changes in aggregate occurs					
Sampling Asphalt Materials			R 66		4000	1/50 Tons Submit All	Submit to Lab				1/5 QC Samples (Random)
Asphalt Cement (Emulsion)											
Preproduced Aggregate											
Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:											
1. Continuing production records meeting the above requirements of Section 00715.10 and 715.15, Aggregate Production. 2. Furnish records of testing for the entire stockpile according to Section 00715.10 and 715.15 Aggregate Production except change the sampling frequency to the following: <ol style="list-style-type: none"> One Per 5 sublots means "One Set of Tests Per 2500 Tons". One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project. Provide one stockpile sample for each set of tests required above. 											

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				(Revised November 2021)		Same Frequency for all Tests (Minimums)				
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE				
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00720 - COLD IN-PLACE RECYCLED ASPHALT CONCRETE PAVEMENT (CIR)										
SECTION 00721 - COLD RECYCLED EMULSIFIED ASPHALT CONCRETE PAVEMENT (CRP)										
Asphalt Cement (Emulsified Recycling Agent)	Sampling Asphalt Materials			R 66	4000	See Section 4C 1/50 Tons (Submit All)	Submit to Central Lab			1/5 QC Samples (Random)
Water	Compliance				4000	See Sec.00340.10				
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	1/Sublot & Start of Production		Minimum 1/Project		
SECTION 00725 - HOT IN-PLACE RECYCLED (HIR) ASPHALT CONCRETE PAVEMENT										
<i>The type of recycling agent will be listed in the Special Provisions</i>										
Recycling Agent (See 00745.11)	Sampling Asphalt Materials			R 66	4000	See Section 4C	Submit to Lab			1/5 QC Samples (Random)
				R 66	4000	1/50 Tons	Submit to Lab			
Recycling Agent	Sampling Asphalt Materials									
Asphalt Concrete Mixture										
SECTION 00730 - ASPHALT TACK COAT										
Tack	Sampling Asphalt Materials					New Asphalt Concrete mixture will meet the requirements of Section 00744				
				R 66	4000	See Section 4C 1/50 Tons	Submit to Lab			1/50 Tons or All QC Samples

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 ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT											
Aggregate production	Abrasion Degradation Soundness Lightweight Pieces	TM 208		T 96 T 104 T 113	4000 4000	See Section 4A	Submit to Lab				See Section 4A
⁽¹⁾ Perform at least 3 tests, QL's required ⁽²⁾ May be waived by QAE ⁽³⁾ QAE may waive after 5 sublots/shifts											
Choke Aggregate	Sampling Aggregates Reducing Aggregates ⁽¹⁾ Sieve Analysis ⁽²⁾ Cleanness Value Fracture (Method 1 & 2) ⁽³⁾ Elongated Pieces ⁽³⁾ Wood Particles Sieve Analysis Un-Washed			R 90 R 76 T 27/T 11 T 335							
					1792	1/Sublot & Start of Production				1 per 10 Sublots	
					1792						
				T 27	1792	1/Sublot				1/Project	
A Sublot equals 1000 Tons. A minimum one per shift, whichever results in the greatest sampling frequency. (For preproduced aggregates, 1 shift shall mean 1000 Tons)											

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 ASSURANCE			Materials Laboratory				
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance					
SECTION 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT (CONTINUED)													
Mixture Acceptance										A Sublot equals 1000 Tons of Mixture			
% Emulsified Asphalt	Sampling Aggregates Reducing Aggregates Sieve Analysis Moisture Content of Aggregate & Soil Meter	TM 321			R 90 R 76 T 27/T 11 T 255/265	2277	1/Sublot		1 per 10 Sublots				
% Emulsified Asphalt	Meter Backed by Tank Measure Daily	TM 321 (¹) TM 322				2401 & 2043	Daily Production						
⁽¹⁾ ACP Plant Calibration Required at start of production and if meters fail to meet specification													
Emulsified Asphalt Cement	Sampling Asphalt Materials				R 66	4000	See Section 4C 1/Sublot (Submit All)	Submit to Lab	1 per 10 Sublots	1/5 QC Samples (Random)			
SECTION 00740 - COMMERCIAL ASPHALT CONCRETE PAVEMENT (CACP)													
See Specifications when Testing is Required by Agency													

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 ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC)											
Aggregate Production	Soundness Abrasion Degradation Lightweight Pieces Plasticity Index	TM 208		T 104 T 96 T 113 T 90	4000 4000	See Section 4A	Submit to Lab				See Section 4A
(1) QAE may waive after 5 sublots/shifts											
(2) Not required for ATPB Mix	Sampling Aggregates			R 90							
(3) Coarse Agg (+ No. 4)	Reducing Aggregates			R 76							
(4) Fine Agg (- No. 4)	(3)(4) Sieve Analysis (1)(4) Sand Equivalent			T 27/T 11 T 176	1792						
	(1)(2)(3) Elongated Pieces (3)(4) Fracture (Method 2) (1)(2)(3) Wood Particles	TM 229 TM 225		T 335	1792						
Preproduced Aggregate											
Compliance of aggregates produced and stockpiled before the award date or notice to proceed of this contract will be determined by the following:											
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 ASSURANCE					
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)										
Mixture Acceptance - PAC with RAP										
Gradation										
Ignition method	(¹) Calibrate Incinerator	TM 323			2327IC	A Sublot equals 1000 Tons				
Ignition method	Sampling (ACP) Reducing (ACP)			R 97 R 47		1/JMF & Each Calendar Year.				
(Residual aggregate from AASHTO T 308)	Sieve Analysis of Extracted Aggregate			T 30		1/Sublot or Min. 1/Day				
(¹) Submit Samples a minimum of 2 Days Prior to ACP Production					2277	1/Sublot or Min. 1/day				
Asphalt Content										
Ignition Method		TM 323			2327IC	A Sublot equals 1000 Tons				
Ignition Method	Sampling (ACP) Reducing (ACP)			R 97 R 47		1/JMF & Each Calendar Year.				
Meter Method	Asphalt Content			T 308		1/Sublot or Min. 1/day				
(²) 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 (²) TM 322			2277	1/Sublot or Min. 1/day				
Meter Method is required for PAC even when acceptance is by Ignition Method					2043 & 2401	Daily Production				

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 ASSURANCE					
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)										
Mixture Acceptance - PAC without RAP										
Gradation										
Cold Feed Method	Sampling Aggregates Reducing Aggregates Sieve Analysis				R 90 R 76 T 27/T 11					
Ignition method	(¹) Calibrate Incinerator	TM 323			2327IC					
Ignition method	Sampling (ACP) Reducing (ACP)				R 97 R 47					
(¹) Not required if Asphalt Content Accepted by Meter										
(Residual aggregate from AASHTO T 308)	Sieve Analysis of Extracted Aggregate				T 30					
(¹) Submit Samples a minimum of 2 Days Prior to ACP Production										
Asphalt Content										
Ignition Method	(¹) Calibrate Incinerator	TM 323								
Ignition Method	Sampling (ACP) Reducing (ACP)				R 97 R 47					
(²) ACP Plant Calibration Required at start of production and if meters fail to meet specification	Asphalt Content				T 308					
Meter Method	Readings backed by Tank Measure & Production Records Daily	TM 321 (²) TM 322								
<u>Meter Method is required for PAC even when acceptance is by Ignition Method</u>										

FIELD TESTED MATERIALS ACCEPTANCE GUIDE				Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD		FORM 734-	QUALITY ASSURANCE		
		ODOT	WAQTC		AASHTO	Contractor Quality Control	Project Manager
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)							
Mixture Acceptance - PAC with and without RAP							
Mix Design Verification Testing							
					A Sublot equals 1000 Tons		
	Cold Feed Moisture			T255/T265	2277	1/Sublot or Min. 1/Day	
	ACP Moisture Content			T 329	2277	1/Sublot or Min. 1/Day	
Plant Discharge Moisture				T 329	2277	1/Sublot or Min. 1/Day	
(1) RAP Percentage	(1) RAP Moisture						
(1) If applicable	Readings backed by Tank Measure & Production Records Daily		TM321 (2) TM 322		2401 & 2043	Daily Production	
Asphalt Cement	Sampling Asphalt Materials			R 66	4000	1/Sublot - See section 4C	1/5 QC Samples (Random)
(2) ACP Plant Calibration Required at start of production and if meters fail to meet specification							

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 ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00744 - ASPHALT CONCRETE PAVEMENT											
Aggregate Production											
See Specifications when Aggregate Testing is Required by the Agency											
Mixture Acceptance											
Gradation											
Ignition method	(¹) Calibrate Incinerator	TM 323			2327/C	A Sublot equals 1000 Tons					
Ignition method	Sampling (ACP) Reducing (ACP)			R 97 R 47		1/JMF & Each Calendar Year.					
(Residual aggregate from AASHTO T 308)	Sieve Analysis of Extracted Aggregate			T 30	2277	1/Sublot or Min. 1/Day					
⁽¹⁾ Submit Samples a minimum of 2 Days Prior to ACP Production											
Asphalt Content											
Ignition Method	(¹) Calibrate Incinerator	TM 323			2327/C	A Sublot equals 1000 Tons					
Ignition Method	Sampling (ACP) Reducing (ACP)			R 97 R 47		1/JMF & Each Calendar Year.					
	Asphalt Content			T 308	2277	1/Sublot or Min. 1/day					
Mix Design Verification Testing											
Plant Discharge Moisture	ACP Moisture Content			T 329	2277	1/Sublot					
Maximum Density Test G _{mm}	Max. Specific Gravity MAMD			T 209	2050	1st Sublot Daily or Min. 1/Day					

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 ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00744 - ASPHALT CONCRETE PAVEMENT (CONTINUED)											
Compaction (D) See T 355 YellowSheet for Density Test Locations	Nuclear Density of ACP			T 355	1793A						
							(D) Average 10 tests per Sublot or Min. 10/Day, See Section 00744.49				

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 ASSURANCE								
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Independent Assurance/Verification	Region Quality Assurance	Materials Laboratory					
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE														
Aggregate Production	Soundness				4000									
	Abrasion					T 104								
	Degradation	TM 208				T 96								See Section 4A
	Lightweight Pieces					T 113								
	Plasticity Index					T 90								
	⁽²⁾ Perform a minimum of 3 tests QL's required													
	⁽³⁾ Coarse Agg (+ No. 4)													
	⁽⁴⁾ Fine Agg (- No. 4)													
	Note: Sample Aggregate before Lime Treatment													
RAS Production (Reclaimed Asphalt Shingles)	Sieve Analysis Un-Washed													
	Deleterious Materials	TM 335												
	Sampling Aggregates													
	Reducing Aggregates													
	Sieve Analysis Un-Washed													
	Deleterious Materials	TM 335												
	Sampling Aggregates													
	Reducing Aggregates													
	Sieve Analysis Un-Washed													
	Deleterious Materials	TM 335												
	Sampling Aggregates													
	Reducing Aggregates													
	Sieve Analysis Un-Washed													
	Deleterious Materials	TM 335												
	Sampling Aggregates													
	Reducing Aggregates													
	Sieve Analysis Un-Washed													
	Deleterious Materials	TM 335												
	Sampling Aggregates													
	Reducing Aggregates													
	Sieve Analysis Un-Washed													
	Deleterious Materials	TM 335												
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	Deleterious Materials	TM 335												
	Sampling Aggregates													
	Reducing Aggregates													
	Sieve Analysis Un-Washed													
	Deleterious Materials	TM 335												
	Sampling Aggregates													
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	Sieve Analysis Un-Washed													
	Deleterious Materials	TM 335												
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	Sieve Analysis Un-Washed													
	Deleterious Materials	TM 335												
	Sampling Aggregates													
	Reducing Aggregates													
	Sieve Analysis Un-Washed													
	Deleterious Materials	TM 335												

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					Same Frequency for all Tests (Minimums)					
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE				
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)										
Mixture Acceptance - ACP " With and Without RAP"										
Gradation	Ignition method	TM 323	(1) Calibrate Incinerator	R 97 R 47 T 30	2327IC	1/JMF & Each Calendar Year.	1/JMF & Each Calendar Year.	1 per 10 Sublots		
	Ignition method (Residual aggregate from AASHTO T 308)		Sampling (ACP) Reducing (ACP) Sieve Analysis of Extracted Aggregate		2277	1/Sublot				
	(1) Submit Samples a minimum of 2 Days Prior to ACP Production									
Asphalt Content										
Ignition Method	(1) Calibrate Incinerator	TM 323	Sampling (ACP) Reducing (ACP)	R 97 R 47	2327IC	1/JMF & Each Calendar Year.	1/JMF & Each Calendar Year.	1 per 10 Sublots		
	Asphalt Content			T 308	2277	1/Sublot or Min. 1/day				
	Meter Method	TM 321			2277	1/Sublot or Minimum 1/Day				
	(2) RAP and RAS Percentage	(3) TM 322		T 329						
	(2) If Applicable			T255/T265	2277					
	(3) ACP Plant Calibration Required at start of production and if meters fail to meet specification									
	Meter Method is required for ACP even when acceptance is by Ignition Method	TM 321 (3) TM 322	Readings backed by Tank Measure & Production Records Daily		2401 ACP	Daily Production				

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 ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)											
Mixture Acceptance - ACP "With and Without RAP"											
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	1 per 10 Sublots					
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						
*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						
Maximum Density Test G _{mm}	Max. Specific Gravity of ACP MAMD	TM 305	T 209	2050	1st Sublot Daily or Min. 1/Day						
Performing Control Strip	Control Strip	TM 306		2084 *5069	Develop Rolling Pattern See						
Compaction	Nuclear Density of ACP		T 355	1793A	^(D) Average 5 tests per Sublot or Min. 1/Day. See Section 00745.49 (b)-2	^(D) 1 per 10 Sublots					
Asphalt Cement	Sampling Asphalt Materials		R 66	4000	1/Sublot See Section 4C	1 per 10 Sublots	Submit to Lab				1/5 QC Samples (Random)
^(D) See T 355 Yellow Sheet for Density Test Locations											

FIELD TESTED MATERIALS ACCEPTANCE GUIDE					Same Frequency for all Tests (Minimums)					
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	Contractor Quality Control	Project Manager	QUALITY ASSURANCE		Materials Laboratory
		ODOT	WAQTC	AASHTO				Region Quality Assurance	Independent Assurance/Verification	
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 ³ of non-slip formed PCC				
Portland Cement Modifiers Admixtures		Materials must meet the requirements of Section 02001.10								
Curing Compounds		Material must meet the requirements of Section 02050								
Mixing Water		Material must meet the requirements of Section 02020								
(S) 1 Set Represents a minimum of 3 Cylinders	Sampling Concrete	TM 2	T 152 T 119 T 121	3573W S or 4000C	1/ sublot or Minimum 1 per Day				1 per 10 Sublots	
	Air Content of Concrete									
	Slump of Concrete									
(M) Per Mix Design & Source	Density (Unit Weight) of Concrete									
	Yield									
	Concrete Temperature		T 121							
	Water/Cement Ratio		T 309 T 121							
	Fabrication of Concrete Cylinders/Beams		R 100		(M) (S) 1 Set of Cylinders per Sublot or Minimum 1 set per Day				1 per 10 Sublots	
Smoothness Certification of Profiler Equipment	Compressive Strength of Concrete		T 22	4000C						
		TM 769								
		TM 772								
Determining International Roughness Index (IRI)										See Special Provisions
Thickness of Pavement		TM 775								See Specs

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 ASSURANCE				
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory	
SECTION 00850 - COMMON PROVISIONS FOR PAVEMENT MARKINGS										
Placement Evaluation "Retroreflectivity"										
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				

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 ASSURANCE					
		ODOT	WAQTC	AASHTO		Contractor Quality Control	Project Manager	Region Quality Assurance	Materials Laboratory		
SECTION 00921 - MAJOR SIGN SUPPORT DRILLED SHAFTS											
Aggregate Production											
(1) QAE may waive after 5 sublots/shifts (2) Perform a minimum of 3 tests, QL's required (3) Coarse Aggregate (See Section 02690.20) (4) Fine Aggregate (See Section 02690.30)	Sampling Aggregates										
	Reducing Aggregates										
	(2)/(3)(4) Sieve Analysis	R 90			1792						
	(4) Fineness Modulus	R 76									
	(1)(3) Wood Particles	T 27/T 11									
	(4) Sand Equivalent	T 27/T 11			1792						
	Soundness	T 176									
	Abrasion	T 104			4000						
	Degradation	T 96									
	Lightweight Pieces Organics	T 113			4000						
	T 21										
	(3) Dry Rodded Unit Weight	T 19			1825						
	(3) Specific Gravity of Coarse Aggregate	T 85			1825C						
	(4) Specific Gravity of Fine Aggregate	T 84			1825						
Materials must meet the requirements of Section 02001.10											
Slurry material must meet the requirements of Section 00921.14 & 00921.43(g)											
Material must meet the requirements of Section 02080											
Material must meet the requirements of Section 02020											
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-	Contractor Quality Control	QUALITY ASSURANCE			
		ODOT	WAQTC			AASHTO	Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00921 - MAJOR SIGN SUPPORT DRILLED SHAFTS									
Portland Cement Concrete									
	Sampling Concrete Slump of Concrete		TM 2	T 119		QA Testing			
	Concrete Temperature			T 309					
	Density (Unit Weight) of Concrete			T 121					
	Yield			T 121	(M) (S) 1 per Shaft and Test at minimum frequencies according to table 00512-1. Review specs.	Projects under 100 yd ³ all classes 1/Project representing all classes of PCC			
	Water/Cement Ratio			T 121					
	Fabrication of Concrete			R 100		Projects over 100 yd ³ all classes 1/500 yd ³ per class minimum 1/class			
	Cylinders/Beams			T 22					
	Compressive Strength of Concrete								
<p>(S) 1 Set Represents a minimum of 3 Cylinders</p> <p>(M) Per Mix Design & Source</p>									
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 ³ on a single day					1 Set each day				
Quantity Over 100 yd³									
100 to 600 yd ³ on a single day					1 Set per each 100 yd ³ or portion thereof				
over 600 yd ³ on a single day					1 Set per each 200 yd ³ or portion thereof after reaching 600 yd ³				