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 sublot 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.

INSERT TAB

SECTION 4(D)
Field Tested Materials Guide

FIELD TESTED MATERIALS ACCEPTANCE GUIDE

(Revised November 2023)

Same Frequency for all Tests (Minimums)

MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD ODOT	TEST METHOD WAQTC	TEST METHOD AASHTO	FORM 734-	QUALITY ASSURANCE: Contractor Quality Control	QUALITY ASSURANCE: Independent Assurance/Verification: Project Manager	QUALITY ASSURANCE: Independent Assurance/Verification: Region Quality Assurance	QUALITY ASSURANCE: Independent Assurance/Verification: Materials Laboratory
SECTION 00330 - EARTHWORK									
Establishing Maximum Density (for Compaction)	*Density Curve*			*T 99*	*3468*	*1/Soil type*		*1/Project*	
	Specific Gravity of Coarse Aggregates			*T 85*	*3468*				
	Family of Curves			*R 75*	*3468FC*				
Compaction	*Deflection Testing*	*TM 158*			*1793S*	*1 test per 3 ft. in depth*		*1 test per 10 QC Tests per Table 00330-1*	
	Nuclear Density Soils/Aggregates			*T 310*	*1793S*	*See Table 00330-1 Below*			
	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 yd²	1 test per 3000 yd²
Embankments	1 test per 500 yd³	1 test per 3000 yd³
Excavations and Finished Subgrade	1 test per 1000 yd²	1 test per 3000 yd²

Stone Embankment Material (See Sec. 330.16(a))	*Gradation*						*Visual See Section 00330.16(b)*		
Compaction	*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.								
Topsoil (See Section 01040.14)	*Particle Size Analysis*			*T 88*	*4000*	*See Section 4C 1/Source & 1/Type of Soil*	*Submit to Lab*		
	Organic Content								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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		
							Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00331 - SUBGRADE STABILIZATION									
Aggregate backfill	*Material must meet the requirements of Section 00331.10*						*Visual*		
Water	*Material must meet the requirements of Section 00340*								
Compaction	*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*		
Compaction	*Material must meet the requirements of Section 00332*						*Visual*		
SECTION 00333 - AGGREGATE DITCH LINING									
Aggregate	*Sampling Aggregates*			*R 90*		*1/Project*			
	Reducing Aggregates			*R 76*		*or*			
	Sieve Analysis			*T 27/T 11*	*1792*	*1/Source*			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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		
							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*	
Compaction	*Deflection Testing*	*TM 158*			*1793S*				
	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	Under 3500 yd²	Over 3500 yd²
Finished Subgrade	1 test per 1000 yd²	1 test per 3000 yd²

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00360 - Drainage Blankets									
						A sublot equals 1000 Tons			
Granular Drainage Blanket	*Sampling Aggregates*			*R 90*		*1/sublot minimum 1/Source per Project*			
	Reducing Aggregates			*R 76*					
	Sieve Analysis			*T 27/T 11*	*1792*				
Sand Drainage Blanket	*Sampling Aggregates*			*R 90*					
	Reducing Aggregates			*R 76*					
	Sieve Analysis			*T 27/T 11*	*1792*				
Establishing Maximum Density	*Density Curve*			*T 99*	*3468*	*1/Source and Type*		*1/Project*	
	Specific Gravity of Coarse Aggregates			*T 85*	*3468*				
Compaction	*Deflection Testing*	*TM 158*			*1793S*	*1 test per 3 ft. in depth*			
	Deflection Testing	*TM 158*			*1793S*	*See Table 00360-1 Below*		*1 Test per 10 QC Tests per Table 00360-1*	
	Nuclear Density Soils/Aggregates			*T 310*					
	Coarse Particle Correction			*T 99*	*1793S*				

TABLE 00360-1 Frequency of Quality Control Testing

Individual Areas	Under 3500 yd²	Over 3500 yd²
Existing Ground Surface	1 test per 1000 yd²	1 test per 3000 yd²
Finished Surfaces	1 test per 1000 yd²	1 test per 3000 yd²

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: 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* *(1) T 85*	*4000* *1825*	*See Section 4(A)*	*Submit To Lab*		*See Section 4(A)*
Filter Blanket									
Gradation *See 00390.13*							*Visual*		
Grouted Riprap									
Sand	*Sampling Aggregates* *Reducing Aggregates* *Sieve Analysis*			*R 90* *R 76* *T 27/T 11*	*1792*	*1/Project*			
	Soundness *Lightweight Pieces*			*T 104* *T 113*	*4000*	*See Section 4(A)*	*Submit to Lab*		*See Section 4(A)*
Portland Cement	*Material must meet the requirements of Section 02010*								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00396 - SHOTCRETE SLOPE STABILIZATION									
Aggregate Production and Mixture						*A Sublot equals 1000 Tons*			
[1] *QAE may waive after 5 sublots/shifts*	*Sampling Aggregates*			*R 90*		*1/Sublot*		*1 per 10 Sublots*	
	Reducing Aggregates			*R 76*					
	[2][3] *Sieve Analysis*			*T 27/T 11*					
	[3] *Fineness Modulus*			*T 27/T 11*	*1792*				
[2] *Coarse Aggregate (See Section 02690.20)*	[1][2] *Wood Particles*	*TM 225*							
	[3] *Sand Equivalent*			*T 176*					
[3] *Fine Aggregate (See Section 02690.30)*	*Soundness*			*T 104*	*4000*	*See Section 4A*	*Submit to Central Lab*		*See Section 4(A)*
	Abrasion			*T 96*					
	Degradation	*TM 208*							
	Lightweight Pieces			*T 113*					
	Organics			*T 21*					
	[2] *Dry Rodded Unit Weight*			*T 19*	*1825* *1825C*	*Start of Production and when changes in aggregate occurs*			
	[2] *Specific Gravity of Coarse Aggregate*			*T 85*	*1825*				
	[3] *Specific Gravity of Fine Aggregate*			*T 84*					
Portland Cement	*Material must meet the requirements of Section 02010*								
Admixtures	*Material must meet the requirements of Section 02040*								
Mixing Water	*Material must meet the requirements of Section 02020*								
Production Testing (See Section 00396.16)	[S] *Test Panel*					*Two Test Panels per Mix Design & Two Panels per days Production See Section 00396.16(a)2*			
[S] 3 Cores minimum per Panel									
Compression Test Cores	*Strength*			*T 22*	*4000C*	*1/Set Cores per Test panel*	*Submit to Central Lab*		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: 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	*Material must meet the requirements of Section 00330.13*						*Visual*		
Selected granular backfill	*Material must meet the requirements of Section 00330.14*						*Visual*		
Selected stone backfill	*Material must meet the requirements of Section 00330.15*						*Visual*		
Other approved material	*Material must meet the requirements of Section 00405.11*						*Visual*		
Establishing Maximum Density	*Density Curve*			*T 99*	*3468*	*1/Soil Type or Aggregate Gradation*			
	Specific Gravity of Coarse Aggregates			*T 85*	*3468*				
	Family of Curves			*R 75*	*3468FC*				
Compaction	*Nuclear Density Soils/Aggregates*			*T 310*	*1793S*	*1 Test per 300 ft. of Trench*			
	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.								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: 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*	*1792*	*1/Source or Aggregate Gradation*			
Commercial 3/4" - 0 Aggregate							*Visual*		
No. 10 - 0 Sand drainage blanket material (See Section 00360.10)	*Sampling Aggregates* *Reducing Aggregates* *Sieve Analysis*			*R 90* *R 76* *T 27/T 11*	*1792*	*1/Source or Aggregate Gradation*			
Reasonably well graded sand, maximum 3/8" to dust							*Visual*		
Commercial available 3/8"-0 or No.10 - 0 sand							*Visual*		
Continuous cradle of Commercial Grade Concrete	*Material must meet the requirements of Section 00440*						*Visual*		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)									
Pipe Zone Material Flexible Pipe	*Use the Listed Material requirements under Bedding*								
Rigid Pipe: Aggregate Base 1" - 0 or 3/4" - 0 Aggregate (See Section 02630.10)	*Sampling Aggregates* *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							*Visual*		
Establishing Maximum Density (Flexible and Rigid Pipe) (1) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	*Density Curve* *Specific Gravity of Coarse Aggregates* *Coarse Particle Correction*			(1) *T 99* *T 85* (1) *T 99*	*3468* *3468*	*1/Source or Aggregate Gradation*			
Compaction	*Nuclear Density Soils/Aggregates*			*T 310*	*1793B*	*1 Test per 300 ft. of Trench and every 1.5 ft. of Fill*			
	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 2023)						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: Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL (CONTINUED)									
Trench Backfill									
Class A Backfill - Native or common Material	*Material must meet the requirements of Section 00330.43*								
Class B Backfill - 1"-0 or 3/4"-0 Granular Material	*Material must meet the requirements of Section 00641*								
Class C Backfill - Clean sand with 100% minus 1/4" material							*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)	*Material must meet the requirements of Section 00442*								
Establishing Maximum Density (1) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	*Density Curve* *Specific Gravity of Coarse Aggregates* *Family of Curves*			(1) *T 99* *T 85* *R 75*	*3468* *3468* *3468FC*	*1/Soil Type or Aggregate Gradation*			
Compaction (C) Density testing is based on cumulative lineal feet of pipe placement.	*Nuclear Density Soils/Aggregates* *Coarse Particle Correction*			*T 310* *T 99*	*1793S* *or* *1793B*	(C) *1 test per 300 ft. of Trench and every 1.5 ft. of Fill*			
	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 2023)						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: Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00430 - SUBSURFACE DRAINS									
Granular Drain Backfill Material						A Sublot equals 1000 Tons			
	Sampling Aggregates			*R 90*		1/Sublot (Minimum 1/ Project)			
	Reducing Aggregates			*R 76*					
	Sieve Analysis			*T 27*	*1792*				
	Abrasion			*T 96*					
	Degradation	*TM 208*			*4000*	See Section 4A	Submit To Lab		See Section 4A
Special Filter Material									
See Section 00430.46(a)	*Compaction*	See section 405 for compaction requirements							
SECTION 00440 - COMMERCIAL GRADE CONCRETE									
Mixture						*A Sublot Equals 20 yd^3*			
	Sampling Concrete		*TM 2*						
	Air Content of Concrete			*T 152*					
	Density (Unit Weight) of Concrete			*T 121*	*3573WS or 4000 C*	*1 per Sublot, maximum of 1 per day*			
	Yield			*T121*					
	Slump of Concrete			*T 119*					
	Concrete Temperature			*T 309*					
	Fabrication of Concrete Cylinders/Beams			*R 100*	*4000C*				
	Compressive Strength of Concrete (S)			*T 22*					
(S) *ASTV based on a minimum of 3 Cylinders*									
Cement Chemical Admixtures Supplementary Cementitious Materials	Materials listed on batch ticket must match approved design								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Region Quality Assurance	Materials Laboratory
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								
SECTION 00450 - STRUCTURAL PLATE SHAPED STRUCTURES									
Commercial Grade Concrete in appurtenances	*Material must meet the requirements of Section 00440*								
Trench Work									
Excavation and Backfill	*Operations must meet the requirements of Section 00510*								
Trenches in Unstable Areas									
Granular Structural Backfill	*Material must meet the requirements of Section 00510*								
Establishing Maximum Density (1) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	*Density Curve* *Specific Gravity of Coarse Aggregates Coarse Particle Correction*	*TM 223*		(1) *T 99* *T 85*	*3468 B*	*1/Aggregate Gradation and Source*			
Compaction	*Nuclear Density of Soils/Aggregates*			*T 310*	*1793 B*	*1 Test per 100 ft. and 1 ft. of fill*			
Structure Backfill (Section 00450.46)	*Material and Operation must meet the requirements of Section 00510.48(d)*								

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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		
							Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00459 - CAST IN PLACE CONCRETE									
Concrete	*Material must meet the requirements of Section 00540, with acceptance in accordance with Section 00540.17*								
Backfill Material	*Material must meet the requirements of Section 00405.14 and be incorporated into the project in accordance with Section 00405.46*								
SECTION 00460 - PAVED CULVERT END SLOPES									
Commercial Grade Concrete	*Material must meet the requirements of Section 00440*								
SECTION 00470 - MANHOLES, CATCH BASINS AND INLETS									
Commercial Grade Concrete	*Material must meet the requirements of Section 00440*								
Base Drain Backfill	*Material must meet the requirements of Section 00470.17*								
Excavation, Backfill and Foundation Stabilization	*Material must meet the requirements of Section 00405*								
SECTION 00480 - DRAINAGE CURBS									
Commercial Grade Concrete	*Material must meet the requirements of Section 00440*								
Dense Graded ACP Mixture	*Material must meet the requirements of Section 00740*								

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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: Project Manager	Region Quality Assurance	Materials Laboratory
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	*Density Curve*			(1) *T 99*					
(1) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	*Specific Gravity of Coarse Aggregates Coarse Particle Correction*	*TM 223*		*T 85*	*3468 B*	*1/Aggregate Gradation and Source*			
Compaction	*Nuclear Density of Soils/Aggregates*			*T 310*	*1793B*	*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*								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE

(Revised November2023)

Same Frequency for all Tests (Minimums)

MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD ODOT	TEST METHOD WAQTC	TEST METHOD AASHTO	FORM 734-	QUALITY ASSURANCE: Contractor Quality Control	QUALITY ASSURANCE: Independent Assurance/Verification: Project Manager	QUALITY ASSURANCE: Independent Assurance/Verification: Region Quality Assurance	QUALITY ASSURANCE: Independent Assurance/Verification: Materials Laboratory
SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL									
Soils, Soil/Aggregate Mixtures and Graded Aggregates						A Sublot equals 1,000 Tons			
Granular Structure Backfill (See Section 02630.10)	*Sampling Aggregates*			*R 90*		*1/Sublot (Minimum 1/Project)*			
	Reducing Aggregates			*R 76*					
	(1) Sieve Analysis			*T 27*					
(1) Perform a minimum of 3 tests QL's required	*Fracture (Method 1)*			*T 335*	*1792*				
	Sand Equivalent			*T 176*					
Product Compliance	*Abrasion*			*T 96*					
	Degradation	*TM 208*			*4000*	*See Section 4C 1/Source*	*Submit to Lab*		*Minimum 1/Project or 1/Source*
	Plasticity Index			*T 90*					
	Sieve Analysis			*T 11*					
Establishing Maximum Density	*Density Curve*			*(2) T 99*	*3468*	*1/Soil type or Aggregate Gradation*			
(2) Method "A" & ODOT TM 223 for Dense Graded Base Aggregate	*Specific Gravity of Coarse Aggregates*			*T 85*					
	Coarse Particle Correction			*T 99*	*3468*				
Compaction	*Nuclear Density Soils/Aggregates*			*T 310*	*1793B*	*1/100 yd³ minimum 1/project*			

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 November2023)						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: Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL (CONTINUED)									
Soils, Soil/Aggregate Mixtures and Graded Aggregates						A Sublot equals 1,000 Tons			
Granular Wall Backfill (See Section 02630.11)	*Sampling Aggregates*			*R 90*		*1/Sublot (Minimum 1/Project)*			
	Reducing Aggregates			*R 76*					
[1] *Perform a minimum of 3 tests QL's required*	[1] *Sieve Analysis*			*T 27*	*1792*				
	Fracture (Method 2)			*T 335*					
Product Compliance	*Abrasion Degradation*	*TM 208*		*T 96*	*4000*	*See Section 4C 1/Source*	*Submit to Lab*		*Minimum 1/Project or 1/Source*
[2] Compaction	[2] *Deflection Testing*	*TM 158*			*1793B*	*1/Sublot (Minimum 1/Project)*			
Note: Compaction must meet the requirements of section 00330.43c									
	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 November2023)						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: Project Manager	Independent Assurance/Verification: Region Quality Assurance	Independent Assurance/Verification: Materials Laboratory
SECTION 00512 - DRILLED SHAFTS									
Aggregate Production						A Sublot equals 1,000 Tons			
(1) QAE may waive after 5 sublots/shifts	*Sampling Aggregates*			*R 90*		*1/Sublot*		*1 per 10 Sublots*	
	Reducing Aggregates			*R 76*					
	(2)(3)(4) Sieve Analysis			*T 27/T 11*	*1792*				
	(4) Fineness Modulus			*T 27/T 11*					
(2) Perform a minimum of 3 tests, QL's required	*(1)(3) Wood Particles*	*TM 225*							
	(4) Sand Equivalent			*T 176*	*1792*				
(3) Coarse Aggregate (See Section 02690.20)	*Soundness*			*T 104*	*4000*	*See Section 4A*	*Submit to Lab*		*See Section 4(A)*
	Abrasion			*T 96*					
	Degradation	*TM 208*							
	Lightweight Pieces			*T 113*					
(4) Fine Aggregate (See Section 02690.30)	*Organics*			*T 21*	*4000*				
	(3) Dry Rodded Unit Weight			*T 19*	*1825 1825C*	*Start of production and when changes in aggregate occurs*			
	(3) Specific Gravity of Coarse Aggregate			*T 85*	*1825*				
	(4) Specific Gravity of Fine Aggregate			*T 84*					

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November2023)						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: Project Manager	Independent Assurance/Verification: Region Quality Assurance	Independent Assurance/Verification: Materials Laboratory
SECTION 00512 - DRILLED SHAFTS (CONTINUED)									
Portland Cement Concrete					*A Sublot equals 100 yd³*				
	Sampling Concrete		*TM 2*			*1 per Sublot, minimum 1 per mix design & shaft*		*1 per 5 Sublots, minimum 1 per mix design*	
	Slump of Concrete			*T 119*	*3573WS or 4000C*				
	Concrete Temperature			*T 309*					
	Density (Unit Weight) of Concrete			*T 121*					
	Yield			*T121*					
	Water/Cement Ratio			*T 121*					
	Fabrication of Concrete Cylinders/Beams			*R 100*	*4000C*				
	Compressive Strength of Concrete (S)			*T 22*					
(S) ASTV based on a minimum of 3 Cylinders									
Aggregates Cement Chemical Admixtures Supplementary Cementitious Materials	*Materials listed on batch ticket must match approved design*								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE			
		ODOT	ASTM	AASHTO		Contractor Quality Control	Independent Assurance/Verification: Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00535 - POST-INSTALLED ANCHOR SYSTEMS									
Resin Bonded Anchor System						A Sublot equals 50 Anchors			
Anchor Bolts, reinforcing steel and resin (Polyester, vinyl ester or epoxy)	*Materials must meet the requirements of Section 00535.10(a)*								
Anchor Installation									
Demonstration Testing (See Section 00535.45(a))	*Strength of Anchors in Concrete Elements*		*E 488*		*5189*	*One demonstration Test includes 3 anchors (Resin shall be from same lot)*	*Visual*		
Production Testing (See Section 00535.45(b))	*Strength of Anchors in Concrete Elements*		*E 488*		*5189*	*(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 2023)						Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE			
		ODOT	ASTM	AASHTO		Contractor Quality Control	Independent Assurance/Verification: Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00535 - POST-INSTALLED ANCHOR SYSTEMS (continued)									
Mechanical Anchor System						A Sublot equals 50 Anchors			
Mechanical 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*		
Production Testing (See Section 00535.45(b))	*Strength of Anchors in Concrete Elements*		*E 488*		*5292*	*(A) 1 Anchor/Sublot or portion thereof (Minimum 1/Shift)*	*Visual per Sublot*		
	(A) Anchor testing is required per critical element identified in the Special Provisions or Plan Drawings.								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Independent Assurance/Verification: Region Quality Assurance	Independent Assurance/Verification: Materials Laboratory
SECTION 00540 - STRUCTURAL CONCRETE									
Aggregate Production						A Sublot equals 1,000 Tons			
(1) QAE may waive after 5 sublots/shifts	*Sampling Aggregates*			*R 90*		*1/Sublot*		*1 per 10 Sublots*	
	Reducing Aggregates			*R 76*					
	(2)(3)(4) Sieve Analysis			*T 27/T 11*	*1792*				
	(4) Fineness Modulus			*T 27/T 11*					
(2) Perform a minimum of 3 tests, QL's required	*(1)(3) Wood Particles*	*TM 225*							
	(4) Sand Equivalent			*T 176*	*1792*				
(3) Coarse Aggregate (See Section 02690.20)	*Soundness*			*T 104*	*4000*	*See Section 4A*	*Submit To Lab*		*See Section 4A*
	Abrasion			*T 96*					
(4) Fine Aggregate (See Section 02690.30)	*Degradation*	*TM 208*							
	Lightweight Pieces			*T 113*					
	Organics			*T 21*	*4000*				
	(3) Dry Rodded Unit Weight			*T 19*	*1825* *1825C*	*Start of production and when changes in aggregate occurs*			
	(3) Specific Gravity of Coarse Aggregate			*T 85*	*1825*				
	(4) Specific Gravity of Fine Aggregate			*T 84*					

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Independent Assurance/Verification: Region Quality Assurance	Independent Assurance/Verification: Materials Laboratory
SECTION 00540 - STRUCTURAL CONCRETE (CONTINUED)									
Portland Cement Concrete					A Sublot equals 100 yd³				
(1) *AASHTO T 196 required for lightweight concrete*	*Sampling Concrete*		*TM 2*						
	(1) *Air Content of Concrete*			*T 152*	*3573WS or 4000C*	*1 per Sublot per Mix Design, minimum 1 per day*		*1 per 5 Sublots, minimum 1 per mix design*	
	Slump of Concrete			*T 119*					
	Concrete Temperature			*T 309*					
	Density (Unit Weight) of Concrete			*T 121*					
	Yield			*T 121*					
	Water/Cement Ratio			*T 121*					
	Fabrication of Concrete Cylinders/Beams			*R 100*	*4000C*				
	Compressive Strength of Concrete (S)			*T 22*					
(S) ASTV based on a minimum of 3 Cylinders									
Aggregates Cement Chemical Admixtures Supplementary Cementitious Materials Synthetic Fiber Reinforcing	*Materials listed on batch ticket must match approved design*								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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		
							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 (Revised November 2023)						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: Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00557 - PREMIXED POLYMER CONCRETE OVERLAYS									
Resin Primer	*Material must meet the requirements of section 00557.10*								
Polyester Resin Binder Including (Initiator, Accelerators & Inhibitors)	*Material must meet the requirements of section 00557.12 (a-c)*								
Aggregate Production									
Product Compliance	*Specific Gravity of Coarse Aggregate*			*T 85*	*4000*	*1/Project and Source*	*Submit to Lab*		*See Section 00557.12(d)*
(Submitt 2- 50 lb. samples of blended aggregate (00557.02)during the trial overlay)	*Specific Gravity of Fine Aggregate*			*T 84*					
	Sieve Analysis			*T 27/11*					
	Moisture Content of Aggregate & Soil			*T 255/265*					
	Fracture (Method 1)			*T 335*					
	Moisture Content of Aggregate & Soils			*T 255/265*	*1792*	*During the Trial Overlay Strip*			
	Sieve Analysis			*T 27/11*					
(1) See Section 00557.12(d)	*(1) Moisture Content of Aggregate & Soils*			*T 255/265*		*During Production*			
Surface Texture Sand (see section 00557.12(e))	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*	*Submit to Lab*		See section 00557.44(e)
(B) Batch is defined "Per Mixer or Portion placed".									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Independent Assurance/Verification: Region Quality Assurance	Independent Assurance/Verification: Materials Laboratory
SECTION 00559 - STRUCTURAL CONCRETE OVERLAYS									
Aggregate Production						*A Sublot equals 500 Tons. A minimum one per shift, whichever results in the greatest sampling frequency. (For preproduced aggregates, 1 shift shall mean 500 Tons.)*			
(1) QAE may waive after 5 sublots/shifts	*Sampling Aggregates*			*R 90*					
	Reducing Aggregates			*R 76*					
	(2)(3)(4) Sieve Analysis			*T 27/T 11*	*1792*	*1/Sublot*		*1 per 10 Sublots*	
(2) Perform a minimum of 3 tests, QL's required	*(4) Fineness Modulus*			*T 27/T 11*					
	(4) Sand Equivalent			*T 176*	*1792*				
(3) Coarse Aggregate (See Section 02690.20)	*(1)(3) Wood Particles*	*TM 225*			*1792*	*1/5 Sublots*			
(4) Fine Aggregate (See Section 02690.30)	*Abrasion*			*T 96*	*4000*	*See Section 4(A)*	*Submit to Central Lab*		*See Section 4(A)*
	Degradation	*TM 208*							
	Soundness			*T 104*					
	Lightweight Pieces			*T 113*					
	Organics			*T 21*	*4000*				
	(3) Dry Rodded Unit Weight			*T 19*	*1825* *1825C*	*Start of production and when changes in aggregate occurs*			
	(3) Specific Gravity of Coarse Aggregate			*T 85*	*1825*				
	(4) Specific Gravity of Fine Aggregate			*T 84*					

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Independent Assurance/Verification: Region Quality Assurance	Independent Assurance/Verification: Materials Laboratory
SECTION 00559 - STRUCTURAL CONCRETE OVERLAYS (CONTINUED)									
Portland Cement Concrete						A sublot equals 20 yd^3			
[1] *AASHTO T 196 required for lightweight concrete*	*Sampling Concrete*		*TM 2*						
	[1] *Air Content of Concrete*			*T 152*	*3573WS or 4000 C*	*1 per Sublot per mix design, minimum 1 per day*		*1 per 5 Sublots, minimum 1 per mix design*	
	Slump of Concrete			*T 119*					
	Concrete Temperature			*T 309*					
	Density (Unit Weight) of Concrete			*T 121*					
[S] ASTV based on a Minimum of 3 Cylinders	*Yield*			*T 121*					
	Water/Cement Ratio			*T 121*					
	Fabrication of Concrete Cylinders/Beams			*R 100*	*4000C*				
	Compressive Strength of Concrete [S]			*T 22*					
Aggregates Cement Chemical Admixtures Supplementary Cementitious Materials Synthetic Fiber Reinforcing	*Materials listed on batch ticket must match approved design*								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00590 - POLYMER MEMBRANE									
Broadcast Aggregate	*Moisture Content of Aggregates & Soils*			*T 255/265*	*1792*	*Test at time of packaging and shipment. See Section 00590.10-c*			
	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 2023)						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: Project Manager	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		T96	4000	See Section 4A	Submit to Lab		See Section 4A
					A Sublot equals 1,000 Tons Minimum 1/Project				
	Sampling Aggregates			R 90		1/Sublot			
	Reducing Aggregates			R 76					
	Sieve Analysis Un-washed			T 27	1792				
	Sand Equivalent			T 176					
	Fracture (Method 1)			T 335	1792	1/5 Sublots			
					Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project				
(3) Modular Block Core and Backfill (Product Compliance)	Soundness			T 104	4000	See Section 4C & 02690	Submit To Lab		See Section 4C
	Abrasion Degradation	TM 208		T 96					
	Lightweight Pieces			T 113	4000				
(3) (See Section 2690.20(a) thru 2690.20(d) & 2690.20(f)									
					A Sublot equals 1,000 Tons				
(3) Modular Block Core and Drainage Backfill	Sampling Aggregates			R 90		1/Sublot			
	Reducing Aggregates			R 76					
(1) QAE may waive after 5 sublots/shifts	(2) Sieve Analysis			T 27/T 11	1792				
	(1) Wood Particles	TM 225							
	Fracture (Method 2)			T 335					
(2) Perform a minimum of 3 tests, QL's required	Elongated Pieces	TM 229			1792				
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
	Sieve Analysis Un-washed			T27	4000	1/Sublot			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00596A - MECHANICALLY STABILIZED EARTH RETAINING WALLS									
Aggregate Production					Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project				
Gabion Basket Fill *(Product Compliance)* *(See Section 00390.11(b))*	*Degradation*	*TM 208*		*T 104*	*4000*	*See Section 4C*	*Submit to*		*See Section 4C*
	Soundness Specific Gravity of Coarse Aggregates			*(1) T 85*	*1825*		*Lab*		
(1) Apparent Specific Gravity and Absorption									
	Gradation						*Visual*		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE

(Revised November 2023)

MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD ODOT	TEST METHOD WAQTC	TEST METHOD AASHTO	FORM 734-	Same Frequency for all Tests (Minimums) QUALITY ASSURANCE: Contractor Quality Control	Independent Assurance/Verification: Project Manager	Independent Assurance/Verification: Region Quality Assurance	Independent Assurance/Verification: Materials Laboratory
SECTION 00596A - MSE RETAINING WALLS									
Aggregate Production					Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project				
MSE Granular Wall Backfill *(Product Compliance)* *(Also reference 02630.10)*	*Abrasion*			*T96*	*4000*	*See Section 4C*	*Submit to Central Lab*		*See Section 4C*
	Degradation	*TM 208*							
	Sieve Analysis			*T 11*					
	Plasticity Index			*T 90*					
	pH of Soil			*T 289*					
	Soil Resistivity			*T 288*					
	Organic Content			*T 267*	*4000*				
					A Sublot Equals 2,000 Tons				
MSE Granular Wall Backfill	*Sampling Aggregates*			*R 90*		*1/Sublot*			
	Reducing Aggregates			*R 76*					
(1) Perform a minimum of 3 tests, QL's required	*(1) Sieve Analysis Un-Washed*			*T 27*	*1792*				
	Sand Equivalent			*T 176*					
	Fracture (Method 1)			*T 335*	*1792*	*1/5 Sublots*			
Placement									
Establishing Maximum Density	*Density Curve*			*(2) T 99*	*3468*	*1/Aggregate Gradation/Per Source*			
(2) Method A	*Specific Gravity of Coarse Aggregates*			*T 85*					
	Agg. Base Coarse Particle Correction	*TM 223*			*3468*				
Compaction	*Nuclear Density of Soils/Aggregates*			*T 310*	*1793B*	*1/ 100 yd3 (Minimum 1/day)*			
	Deflection Testing	*TM 158*			*1793B*	*1 per layer*	*(3) Visual*		
(3) See Section 00596A.47(c-5)	***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 2023)						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: Project Manager	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*
					A Sublot equals 1,000 Tons Minimum 1/Project				
	Sampling Aggregates			*R 90*					
	Reducing Aggregates			*R 76*					
	Sieve Analysis			*T 27*	*1792*	*1/Sublot*			
	Un-Washed Sand Equivalent			*T 176*					
	Fracture (Method 1)			*T 335*	*1792*	*1/5 Sublots*			
					Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project				
(3) Modular Block Core and Backfill (Product Compliance)	*Soundness*			*T 104*	*4000*	*See Section 4C & 02690*	*Submit To Lab*		*See Section 4C*
	Abrasion Degradation	*TM 208*		*T 96*					
	Lightweight Pieces			*T 113*	*4000*				
(3) (See Section 2690.20(a) thru 2690.20(d) & 2690.20(f)					A Sublot equals 1,000 Tons				
(3) Modular Block Core and Drainage Backfill	*Sampling Aggregates*			*R 90*		*1/Sublot*			
	Reducing Aggregates			*R 76*					
	(2) Sieve Analysis			*T 27/T 11*	*1792*				
(1) QAE may waive after 5 sublots/shifts	*(1) Wood Particles*	*TM 225*							
	Fracture (Method 2)			*T 335*					
	Elongated Pieces	*TM 229*			*1792*				
(2) Perform a minimum of 3 tests, QL's required									
Pipe Drain Backfill (Product Compliance) (See Section 00430.11)	*Abrasion Degradation*	*TM 208*		*T 96*	*4000*	*See Section 4C*	*Submit To Lab*		*See Section 4C*
	Sieve Analysis Un-Washed			*T27*	*4000*	*1/Sublot*			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00596B - PREFABRICATED MODULAR RETAINING WALLS									
Aggregate Production					Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project				
Gabion Basket Fill (Product Compliance) (See Section 00390.11(b))	*Degradation*	*TM 208*		*T 104*	*4000*	*See Section 4C*	*Submit to Lab*		*See Section 4C*
	Soundness			*(1) T 85*	*1825*				
	Specific Gravity of Coarse Aggregates								
(1) Apparent Specific Gravity and Absorption									
	Gradation						*Visual*		

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00596B - PREFABRICATED MODULAR RETAINING WALLS									
Aggregate Production					Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project				
Retaining Wall Granular Backfill (Product Compliance) (Also reference 02630.10)	*Abrasion*			*T96*	*4000*	*See Section 4C*	*Submit to Central Lab*		*See Section 4C*
	Degradation	*TM 208*							
	Sieve Analysis			*T 11*					
	Plasticity Index			*T 90*	*4000*				
					A Sublot Equals 2,000 Tons				
Retaining Wall Granular Backfill	*Sampling Aggregates*			*R 90*					
	Reducing Aggregates			*R 76*					
(1) Perform a minimum of 3 tests, QL's required	*(1) Sieve Analysis*			*T 27*	*1792*	*1/Sublot*			
	Un-Washed								
	Sand Equivalent			*T 176*					
	Fracture (Method 1)			*T 335*	*1792*	*1/5 Sublots*			
Placement									
Establishing Maximum Density *(2) Method A*	*Density Curve*			*(2) T 99*	*3468*	*1/Aggregate Gradation/Per Source*			
	Specific Gravity of Coarse Aggregates			*T 85*					
	Agg. Base Coarse Particle Correction	*TM 223*			*3468*				
Compaction	*Nuclear Density of Soils/Aggregates*			*T 310*	*1793B*	*1/ 100 yd3 (Minimum 1/day)*			
	Deflection Testing	*TM 158*			*1793B*	*1 per layer*	*(3) Visual*		
(3) See Section 00596B.47(b-6)	***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 2023)						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: 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			*T27*	*4000*	*1/Sublot*			
	Un-Washed								
Retaining Wall Granular Backfill					Testing Frequency for Product Compliance per Source 1/5,000 Tons Minimum 1/Project				
Retaining Wall Granular Backfill (Product Compliance) (Also reference 02630.10)	*Abrasion*	*TM 208*		*T96*	*4000*	*See Section 4C*	*Submit to Central Lab*		*See Section 4C*
	Degradation								
	Sieve Analysis			*T 11*					
	Plasticity Index			*T 90*	*4000*				
					A Sublot Equals 2,000 Tons				
Retaining Wall Granular Backfill	*Sampling Aggregates*			*R 90*		*1/Sublot*			
	Reducing Aggregates			*R 76*					
(1) Perform a minimum of 3 tests QL's required	*(1) Sieve Analysis*			*T 27*	*1792*				
	Un-Washed								
	Fracture (Method 1)			*T 335*	*1792*	*1/5 Sublots*			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00596C - CAST-IN-PLACE CONCRETE RETAINING WALLS									
Placement									
Retaining Wall Granular Backfill									
Establishing Maximum Density	*Density Curve*			(1) *T 99*	*3468*	*1/Aggregate Gradation/Per Source*			
(1) *Method A*	*Specific Gravity of Coarse Aggregates*			*T 85*					
	Agg. Base Coarse Particle Correction	*TM 223*			*3468*				
Compaction	*Nuclear Density of Soils/Aggregates*			*T 310*	*1793B*	*1/ 100 yd3 (Minimum 1/day)*			
(2) See Section 00596C.42(f)	*Deflection Testing*	*TM 158*			*1793B*	*1 per layer*	(2) Visual		
	Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or if other conditions indicate a non-specification product, the Contractor must re-demonstrate that specification requirements are being achieved.								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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		
							Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00635 - GRID-ROLLED AGGREGATE SUBBASE									
Aggregate Subbase						*A Sublot equals 1000 Tons*			
Grading	*Abrasion*			*T 96*	*4000*	*1/Source*	*Submit To Central Lab*		*See Section 4(A)*
(See 00635.10)									
	Sampling Aggregates			*R 90*		*1/Sublot*			
	Reducing Aggregates			*R 76*					
	Sieve Analysis			*T 27*	*1792*				
	Un-Washed								
	Sand Equivalent			*T 176*					

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Region Quality Assurance	Materials Laboratory
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* *Sieve Analysis* *Un-Washed* *Sand Equivalent*			*R 90* *R 76* *T 27* *T 176*	*1792*	*1/Project or 1/Source*	*Visual*		
Aggregate Base and Shoulders	*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)* *(1) Perform at least 3 tests* *(2) May be waived by QAE*					*A Sublot equals 2000 Tons*				
	Sampling Aggregates *Reducing Aggregates* *(1) Sieve Analysis* *Un-Washed* *(2) Sand Equivalent*			*R 90* *R 76* *T 27* *T 176*	*1792*	*1/Sublot*		*1 per 10 Sublots*	
	Fracture (Method 1)			*T 335*	*1792*	*1/5 Sublots*			
Placement Aggregate Base *Plant Mix Applications Only* *Aggregate (Mixture)*					*A Sublot equals 2000 Tons*				
	Sampling Aggregates *Reducing Aggregates* *Moisture Content of Aggregates & Soils*			*R 90* *R 76* *T 255/265*	*1792*	*1/Sublot or minimum 1/Day*		*1 per 10 Sublots*	
Establishing Maximum Density & Optimum Moisture (Mix Design) *(3) Method A*	*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*	
Compaction **(D) (Individual tests must meet Specification)**					*A Compaction Sublot Equals 400 Tons*				
	Deflection Testing *Nuclear Density of Soils/Aggregates*	*TM 158*		*T 310*	*1793B*	*(D) 1 per Sublot*		*(D) 1 (5 Tests) per 50 Sublots (Minimum 5 tests)*	

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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		
							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 2023)						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: Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00680 - STOCKPILED AGGREGATES									
Aggregate Base and Shoulders (See Section 00641)	*Abrasion*			*T 96*	*4000*	*See Section 4A*	*Submit to Lab*		*See Section 4A*
	Degradation	*TM 208*							
					A Sublot equals 2,000 Tons				
	Sampling Aggregates			*R 90*	*1792*	*1/Sublot*		*1 per 10 Sublots*	
[1] Perform at least 3 tests, QL's required	*Reducing Aggregates*			*R 76*					
	[1] Sieve Analysis Un-Washed			*T 27*					
	[2] Sand Equivalent			*T 176*	*1792*				
[2] *May be waived by QAE*									
	Fracture (Method 1)			*T 335*	*1792*	*1/5 Sublots*			
Aggregate (Sanding Aggregate)									
					A Sublot equals 1000 Tons				
	Sampling Aggregates			*R 90*		*1/Sublot*		*1 per 10 Sublots*	
	Reducing Aggregates			*R 76*					
	Sieve Analysis Un-Washed			*T 27*	*1792*				
[1] *May be waived by QAE*	*[1] Cleanness Value*	*TM 227*							
	Abrasion			*T 96*	*4000*	*See Section 4A*	*Submit to Lab*		*See Section 4A*
	Degradation	*TM 208*							
	Lightweight Pieces			*T 113*	*4000*				
	Fracture (Method 1)			*T 335*	*1792*	*1/5 Sublots*		*1 per 10 Sublots*	
	Elongated Pieces	*TM 229*							
	Wood Particles	*TM 225*			*1792*				

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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		
							Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00680 - STOCKPILED AGGREGATES (CONTINUED)									
Emulsified AC Aggregate Aggregate Production					*A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency*				
(See Sections 00705, 00706, 00710, 00711, 00712 and 00715)	*Abrasion*			*T 96*	*4000*	*See Section 4A*	*Submit to Lab*		*See Section 4A*
	Degradation	*TM 208*							
(1) QAE may waive after 5 sublots/shifts	*Soundness*			*T 104*					
	Lightweight Pieces			*T 113*					
	Dry Rodded Unit Weight			*T 19*	*4000*				
	Sampling Aggregates			*R 90*		*1/Sublot*		*1 per 10 Sublots*	
	Reducing Aggregates			*R 76*					
(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	*(5) Fracture (Method 1)*			*T 335*	*1792*				
	(1) Wood Particles	*TM 225*							
	(1)(4) Elongated Piece	*TM 229*							
	(2) Sieve Analysis			*T27/T 11*					
	(3) Cleanness Value	*TM 227*			*1792*				
(3) May be waived by QAE									
	Dry Rodded Unit Weight			*T 19*	*1825* *1825C*	*Start of production and when changes in aggregate occurs*			
(4) Not required for Dry Key Material									
(5) 1/5 Sublots & Start of Production									
Aggregate (Other)	*Use sampling and testing frequencies required for proposed end product use*								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Independent Assurance/Verification: Region Quality Assurance	Independent Assurance/Verification: Materials Laboratory
SECTION 00705 - EMULSIFIED ASPHALT PRIME COAT and EMULSIFIED ASPHALT FOG COAT									
Aggregate Production						*A sublot equals 1000 Tons. A minimum 1 per shift*			
Aggregate Cover Material	*Sampling Aggregates* *Reducing Aggregates* *Sieve Analysis* *Un-Washed*			*R 90* *R 76* *T 27*	*1792*	*1/Sublot*		*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						*A sublot equals 500 Tons. A minimum 1 per shift whichever results in the greatest sampling frequency*			
(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*			
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	*Material must meet the requirements of Section 00706.13*								
Mixture	*Material must meet the requirements of Section 00706.16*								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00710 - SINGLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT									
Aggregate Production						*A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency*			
	Abrasion			*T 96*	*4000*	*See Section 4A*	*Submit to Central Lab*		*See Section 4A*
	Degradation	*TM 208*							
	Soundness			*T 104*					
	Lightweight Pieces			*T 113*					
	Dry Rodded Unit Weight			*T 19*	*4000*				
(1) QAE may waive after 5 sublots/shifts	*Sampling Aggregates*			*R 90*		*1/Sublot*		*1 per 10 Sublots*	
	Reducing Aggregates			*R 76*					
(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	*(5) Fracture (Method 1)*			*T 335*	*1792*				
	(1) Wood Particles	*TM 225*							
	(1)(4) Elongated Piece	*TM 229*							
	(2) Sieve Analysis			*T27/T 11*					
	(3) Cleanness Value	*TM 227*			*1792*				
(3) May be waived by QAE	*Dry Rodded Unit Weight*			*T 19*	*1825 1825C*	*Start of production and when changes in aggregate occurs*			
(4) Not required for Dry Key Material									
(5) 1/5 Sublots & Start of Production									
Asphalt Cement (Emulsion)	*Sampling Asphalt Materials*			*R 66*	*4000*	*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 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 2023)						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		
							Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00711 - PRE-COATED AGGREGATE ASPHALT SURFACE TREATMENT									
Aggregate Production						*A sublot equals 500 Tons. A minimum 1 per shift whichever results in the greatest sampling frequency*			
	Abrasion			*T 96*	*4000*	*See Section 4A*	*Submit to Central Lab*		*See Section 4A*
	Degradation	*TM 208*							
	Soundness			*T 104*					
	Lightweight Pieces			*T 113*					
	Dry Rodded Unit Weight			*T 19*	*4000*				
(1) QAE may waive after 5 sublots/shifts	*Sampling Aggregates*			*R 90*		*1/Sublot*		*1 per 10 Sublots*	
	Reducing Aggregates			*R 76*					
(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	*(5) Fracture (Method 1)*			*T 335*	*1792*				
	(1) Wood Particles	*TM 225*							
	(1)(4) Elongated Piece	*TM 229*							
	(2) Sieve Analysis			*T27/T 11*					
	(3) Cleanness Value	*TM 227*			*1792*				
(3) May be waived by QAE	*Dry Rodded Unit Weight*			*T 19*	*1825 1825C*	*Start of production and when changes in aggregate occurs*			
(4) Not required for Dry Key Material									
(5) 1/5 Sublots & Start of Production									
Asphalt Cement	*Sampling Asphalt Materials*			*R 66*	*4000*	*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 2023)						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: Project Manager	Region Quality Assurance	Materials Laboratory
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*			
					2043 & 2401	*Daily Production*			
(1) ACP Plant Calibration Required at start of production and if meters fail to meet specification									
	Cold Feed Moisture			T 255/265	*2277*	*1/Sublot or Min. 1/Day*			
Plant Discharge Moisture	*ACP Moisture Content*			*T 329*	*2277*	*1/Sublot*			
Asphalt Cement	*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 2023)						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: Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00712 - DRY KEY EMULSIFIED ASPHALT SURFACE TREATMENT									
Aggregate Production						*A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency*			
	Abrasion			*T 96*	*4000*	*See Section 4A*	*Submit to Central Lab*		*See Section 4A*
	Degradation	*TM 208*							
	Soundness			*T 104*					
	Lightweight Pieces			*T 113*					
	Dry Rodded Unit Weight			*T 19*	*4000*				
(1) QAE may waive after 5 sublots/shifts	*Sampling Aggregates*			*R 90*		*1/Sublot*		*1 per 10 Sublots*	
	Reducing Aggregates			*R 76*					
(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	*(5) Fracture (Method 1)*			*T 335*	*1792*				
	(1) Wood Particles	*TM 225*							
	(1)(4) Elongated Piece	*TM 229*							
	(2) Sieve Analysis			*T 27/T 11*					
	(3) Cleanness Value	*TM 227*			*1792*				
(3) May be waived by QAE	*Dry Rodded Unit Weight*			*T 19*	*1825 1825C*	*Start of production and when changes in aggregate occurs*			
(4) Not required for Dry Key Material									
(5) 1/5 Sublots & Start of Production									
Asphalt Cement (Emulsion)	*Sampling Asphalt Materials*			*R 66*	*4000*	*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 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 2023)						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		
							Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00715 - MULTIPLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT									
Aggregate Production						*A sublot equals 500 Tons. A minimum 1 per shift, whichever results in the greatest sampling frequency*			
	Abrasion			*T 96*	*4000*	*See Section 4A*	*Submit to Central Lab*		*See Section 4A*
	Degradation	*TM 208*							
	Soundness			*T 104*					
	Lightweight Pieces			*T 113*					
	Dry Rodded Unit Weight			*T 19*	*4000*				
(1) QAE may waive after 5 sublots/shifts	*Sampling Aggregates*			*R 90*		*1/Sublot*		*1 per 10 Sublots*	
	Reducing Aggregates			*R 76*					
(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	*(5) Fracture (Method 1)*			*T 335*	*1792*				
	(1) Wood Particles	*TM 225*							
	(1)(4) Elongated Piece	*TM 229*							
	(2) Sieve Analysis			*T 27/T 11*					
	(3) Cleanness Value	*TM 227*			*1792*				
(3) May be waived by QAE	*Dry Rodded Unit Weight*			*T 19*	*1825 1825C*	*Start of production and when changes in aggregate occurs*			
(4) Not required for Dry Key Material									
(5) 1/5 Sublots & Start of Production									
Asphalt Cement (Emulsion)	*Sampling Asphalt Materials*			*R 66*	*4000*	*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 00715.10 and 715.15, Aggregate Production.
2. Furnish records of testing for the entire stockpile according to Section 00715.10 and 715.15 Aggregate Production except change the sampling frequency to the following:

a. One Per 5 sublots means "One Set of Tests Per 2500 Tons".
b. One Per sublot means "One Set of Tests Per 500 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.
c. Provide one stockpile sample for each set of tests required above.

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Independent Assurance/Verification: Region Quality Assurance	Independent Assurance/Verification: 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* / *4000*	*See Section 4C 1/50 Tons (Submit All)*	*Submit to Central Lab*		*1/5 QC Samples (Random)*
Water	*Compliance*					*See Sec.00340.10*			
					A Sublot equals 1000 Tons				
Aggregate Production Choke Aggregate (See 00705)	*Sampling Aggregates* / *Reducing Aggregates* / *Sieve Analysis Un-Washed*			*R 90* / *R 76* / *T 27*	*1792*	*1/Sublot*		*Minimum 1/Project*	
SECTION 00725 - HOT IN-PLACE RECYCLED (HIR) ASPHALT CONCRETE PAVEMENT									
	The type of recycling agent will be listed in the Special Provisions								
Recycling Agent (See 00745.11)	*Sampling Asphalt Materials*			*R 66*	*4000*	*See Section 4C*	*Submit to Lab*		*1/5 QC Samples (Random)*
Recycling Agent	*Sampling Asphalt Materials*			*R 66*	*4000*	*1/50 Tons*	*Submit to Lab*		
Asphalt Concrete Mixture	*New Asphalt Concrete mixture will meet the requirements of Section 00744*								
SECTION 00730 - ASPHALT TACK COAT									
Tack	*Sampling Asphalt Materials*			*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 2023)						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		
							Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT									
Aggregate production									
	Abrasion			*T 96*	*4000*	*See Section 4A*	*Submit to Lab*		*See Section 4A*
	Degradation	*TM 208*							
	Soundness			*T 104*					
	Lightweight Pieces			*T 113*	*4000*				
					A Sublot equals 1000 Tons. A minimum one per shift, whichever results in the greatest sampling frequency. (For preproduced aggregates, 1 shift shall mean 1000 Tons				
(1) Perform at least 3 tests, QL's required									
	Sampling Aggregates			*R 90*		*1/Sublot*		*1 per 10 Sublots*	
	Reducing Aggregates			*R 76*					
	(1) Sieve Analysis			*T 27/T 11*	*1792*				
(2) May be waived by QAE	*(2) Cleanness Value*	*TM 227*							
	Fracture (Method 1 & 2)			*T 335*					
(3) QAE may waive after 5 sublots/shifts	*(3) Elongated Pieces*	*TM 229*							
	(3) Wood Particles	*TM 225*			*1792*				
Choke Aggregate	*Sieve Analysis*			*T 27*	*1792*	*1/Sublot*		*1/Project*	
	Un-Washed								

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Independent Assurance/Verification: Region Quality Assurance	Independent Assurance/Verification: Materials Laboratory
SECTION 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT (CONTINUED)									
Mixture Acceptance						*A Sublot equals 1000 Tons of Mixture*			
	Sampling Aggregates *Reducing Aggregates* *Sieve Analysis* *Moisture Content of Aggregate & Soil Meter*			*R 90* *R 76* *T 27/T 11* *T 255/265*	*2277*	*1/Sublot*		*1 per 10 Sublots*	
% Emulsified Asphalt		*TM 321*							
% Emulsified Asphalt ***(1) 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* *(1) TM 322*			*2401 & 2043*	*Daily Production*			
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 2023)						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: Project Manager	Independent Assurance/Verification: Region Quality Assurance	Independent Assurance/Verification: Materials Laboratory
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC)									
Aggregate Production									
	Soundness			*T 104*	*4000*	*See Section 4A*	*Submit to Lab*		*See Section 4A*
	Abrasion			*T 96*					
	Degradation	*TM 208*							
	Lightweight Pieces			*T 113*					
	Plasticity Index			*T 90*	*4000*				
(1) QAE may waive after 5 sublots/shifts						*A Sublot equals 1000 Tons. A minimum one per shift whichever results in the greatest sampling frequency*			
(2) Not required for ATPB Mix	*Sampling Aggregates*			*R 90*		*1/Sublot*			
(3) Coarse Agg (+ No. 4)	*Reducing Aggregates*			*R 76*					
	(3)(4) Sieve Analysis			*T 27/T 11*	*1792*				
(4) Fine Agg (- No. 4)	*(1)(4) Sand Equivalent*			*T 176*					
	(1)(2)(3) Elongated Piece	*TM 229*							
	(3)(4) Fracture (Method 2)			*T 335*	*1792*	*1/5 Sublots*			
	(1)(2)(3) Wood Particles	*TM 225*							

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 2023)						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: Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)									
Mixture Acceptance - PAC with RAP									
Gradation				*A Sublot equals 1000 Tons*					
Ignition method	*(1) Calibrate Incinerator*	*TM 323*			*2327IC*	*1/JMF & Each Calendar Year.*			
Ignition method	*Sampling (ACP)* *Reducing (ACP)*			*R 97* *R 47*		*1/Sublot or Min. 1/Day*			
(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				*A Sublot equals 1000 Tons*					
Ignition Method		*TM 323*			*2327IC*	*1/JMF & Each Calendar Year.*			
Ignition Method	*Sampling (ACP)* *Reducing (ACP)*			*R 97* *R 47*		*1/Sublot or Min. 1/day*			
	Asphalt Content			*T 308*	*2277*				
Meter Method	*Readings backed by Tank Measure & Production Records Daily*	*TM 321* *(2) TM 322*			*2277*	*1/Sublot or Min. 1/day*			
(2) ACP Plant Calibration Required at start of production and if meters fail to meet specification					*2043 & 2401*	*Daily Production*			
Meter Method is required for PAC even when acceptance is by Ignition Method									

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00743 - POROUS ASPHALT CONCRETE (PAC) (CONTINUED)									
Mixture Acceptance - PAC without RAP									
Gradation				*A Sublot equals 1000 Tons*					
Cold Feed Method	*Sampling Aggregates* *Reducing Aggregates*			*R 90* *R 76*		*1/Sublot or Min. 1/Day*			
	Sieve Analysis			*T 27/T 11*	*2277*				
Ignition method	*(1) Calibrate Incinerator*	*TM 323*			*2327IC*	*1/JMF & Each Calendar Year.*			
Ignition method	*Sampling (ACP)* *Reducing (ACP)*			*R 97* *R 47*		*1/Sublot or Min. 1/Day*			
(1) Not required if Asphalt Content Accepted by Meter									
(Residual aggregate from AASHTO T 308)	*Sieve Analysis of Extracted Aggregate*			*T 30*	*2277*	*1/Sublot or Min. 1/day*			
(1) Submit Samples a minimum of 2 Days Prior to ACP Production									
Asphalt Content				*A Sublot equals 1000 Tons*					
Ignition Method	*(1) Calibrate Incinerator*	*TM 323*			*2327IC*	*1/JMF & Each Calendar Year.*			
Ignition Method	*Sampling (ACP)*			*R 97*		*1/Sublot or Min. 1/day*			
(2) ACP Plant Calibration Required at start of production and if meters fail to meet specification	*Reducing (ACP)*			*R 47*					
	Asphalt Content			*T 308*	*2277*				
Meter Method	*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 and 2401*	*Daily Production*			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Region Quality Assurance	Materials Laboratory
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*			
Plant Discharge Moisture	*ACP Moisture Content*			*T 329*	*2277*	*1/Sublot or Min. 1/Day*			
(1) RAP Percentage	*(1) RAP Moisture*			*T 329*	*2277*	*1/Sublot or Min. 1/Day*			
(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*	*Submit to Lab*		*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 2023)						Same Frequency for all Tests (Minimums)			
MATERIAL AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	QUALITY ASSURANCE			
						Contractor Quality Control	Independent Assurance/Verification		
		ODOT	WAQTC	AASHTO			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				*A Sublot equals 1000 Tons*					
Ignition method	*(1) Calibrate Incinerator*	*TM 323*			*2327IC*	*1/JMF & Each Calendar Year.*			
Ignition method	*Sampling (ACP)* *Reducing (ACP)*			*R 97* *R 47*		*1/Sublot or Min. 1/Day*			
(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				*A Sublot equals 1000 Tons*					
Ignition Method	*(1) Calibrate Incinerator*	*TM 323*			*2327IC*	*1/JMF & Each Calendar Year.*			
Ignition Method	*Sampling (ACP)* *Reducing (ACP)*			*R 97* *R 47*		*1/Sublot or Min. 1/day*			
	Asphalt Content			*T 308*	*2277*				
Mix Design Verification Testing				*A Sublot equals 1000 Tons*					
Plant Discharge Moisture	*ACP Moisture Content*			*T 329*	*2277*	*1/Sublot*			
Maximum Density Test G_{mm}	*Max. Specific Gravity MAMD*	*TM 305*		*T 209*	*2050*	1st Sublot Daily or Min. 1/Day			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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		
							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 2023)						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: Project Manager	Independent Assurance/Verification: Region Quality Assurance	Independent Assurance/Verification: Materials Laboratory
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE									
Aggregate Production	*Soundness*			*T 104*	*4000*	*See Section 4A*	*Submit to Lab*		*See Section 4A*
	Abrasion			*T 96*					
	Degradation	*TM 208*							
(1) QAE may waive after 5 sublots/shifts	*Lightweight Pieces*			*T 113*					
	Plasticity Index			*T 90*	*4000*				
(2) Perform a minimum of 3 tests QL's required						*A Sublot equals 1000 Tons. A minimum one per shift whichever results in the greatest sampling frequency*			
	Sampling Aggregates			*R 90*		*1/Sublot*		*1 per 10 Sublots*	
	Reducing Aggregates			*R 76*					
(3) Coarse Agg (+ No. 4)	*(2)(3)(4) Sieve Analysis*			*T 27/T 11*	*1792*				
(4) Fine Agg (- No. 4)	*(1)(4) Sand Equivalent*			*T 176*					
	(1)(3) Elongated Piece	*TM 229*				*1/5 Sublots*			
Note: Sample Aggregate before Lime Treatment	*(3)(4) Fracture (Method 2)*			*T 335*	*1792*				
	(1)(3) Wood Particles	*TM 225*							
RAS Production *(Reclaimed Asphalt Shingles)*	*Sieve Analysis Un-Washed*			*T 27*	*4000*	*1 / 500 Tons*	Submit to Lab		
	Deleterious Materials	*TM 335*							
	Sampling Aggregates			*R 90*		*1 / 50 Tons*			
	Reducing Aggregates			*R 76*					
	Sieve Analysis Un-Washed			*T 27*	*1792*				
	Deleterious Materials	*TM 335*							

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 00745.10 Aggregate Production.
2. Furnish records of testing for the entire stockpile according to Section 00745.10 Aggregate Production except change the sampling frequency to the following:

a. One Per 5 sublots means "One Set of Tests Per 5000 Tons".
b. One Per sublot means "One Set of Tests Per 1000 Tons" with a minimum of 3 sets of Sieve Analysis tests per project.
c. Provide one stockpile sample for each set of tests required above.

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Independent Assurance/Verification: Region Quality Assurance	Independent Assurance/Verification: Materials Laboratory
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)									
Mixture Acceptance - ACP " With and Without RAP"					*A Sublot equals 1000 Tons*				
Gradation									
Ignition method	*(1) Calibrate Incinerator*	*TM 323*			*2327IC*	*1/JMF & Each Calendar Year.*		*1/JMF & Each Calendar Year.*	
Ignition method	*Sampling (ACP)*			*R 97*		*1/Sublot*		*1 per 10 Sublots*	
(Residual aggregate from AASHTO T 308)	*Reducing (ACP)* *Sieve Analysis of Extracted Aggregate*			*R 47* *T 30*	*2277*				
(1) Submit Samples a minimum of 2 Days Prior to ACP Production									
Asphalt Content					*A Sublot equals 1000 Tons*				
Ignition Method	*(1) Calibrate Incinerator*	*TM 323*			*2327IC*	*1/JMF & Each Calendar Year.*		*1/JMF & Each Calendar Year.*	
Ignition Method	*Sampling (ACP)* *Reducing (ACP)*			*R 97* *R 47*		*1/Sublot or Min. 1/day*		*1 per 10 Sublots*	
	Asphalt Content			*T 308*	*2277*				
(2) RAP and RAS Percentage	*Meter Method*	*TM 321*			*2277*	*1/Sublot or Minimum 1/Day*		*1 per 10 Sublots*	
(2) If Applicable		*(3) TM 322*							
(3) ACP Plant Calibration Required at start of production and if meters fail to meet specification	*(2) RAP and RAS Moisture*			*T 329*					
	Cold Feed Moisture			*T255/T265*	*2277*				
Meter Method is required for ACP even when acceptance is by Ignition Method	*Readings backed by Tank Measure & Production Records Daily*	*TM 321* *(3) TM 322*			*2401 ACP*	*Daily Production*			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Independent Assurance/Verification: Region Quality Assurance	Independent Assurance/Verification: Materials Laboratory
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)									
Mixture Acceptance - ACP "With and Without RAP"				*A Sublot equals 1000 Tons*					
Mix Design Verification Testing									
Fabrication	*Gyratory Specimen*	*TM 326*			*2050GV*	*1/Sublot & according to Section 00745.16 (b)-1-c*		*1 per 10 Sublots*	
Maximum Density Test	*Max. Specific Gravity of ACP*			*T 209*	*2050 *5068*				
Determination of G_{mb}	*Bulk Specific Gravity of Compacted ACP*			*T 166*	*2560 *5069*				
Stripping Susceptibility *Cat-II complete & submit as required, See Section 745.16(b)*	*Tensile Strength Ratio*			*T 283*	*2050tsr*	*1/JMF See Section 00745.16 (b)-1-e*			
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*			*T 209*	*2050*	*1st Sublot Daily or Min. 1/Day*			
	MAMD	*TM 305*							
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 *(D) See T 355 Yellowsheet for Density Test Locations*	*Sampling Asphalt Materials*			*R 66*	*4000*	*1/Sublot See Section 4C*	*Submit to Lab*	*1 per 10 Sublots*	*1/5 QC Samples (Random)*

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Independent Assurance/Verification: Region Quality Assurance	Independent Assurance/Verification: Materials Laboratory
SECTION 00745 - ASPHALT CONCRETE PAVEMENT - STATISTICAL ACCEPTANCE (CONTINUED)									
Mixture Acceptance - ACP "With and Without RAP"					*A Sublot equals 1000 Tons*				
Mix Design Verification Testing									
Lime	*Material must meet the requirements of Section 2090*								
Latex	*See Special Provisions for Latex Requirements*								
Lime or Latex Treatment of Aggregate (Stockpile or Mixture Production)	*(1) % Hydrated Lime*	*TM 321 (2) TM 322*			*2277 2277*	*1/Sublot*		*1 per 10 Sublots*	
(2) ACP Plant Calibration Required at start of production and if meters fail to meet specification	*Readings backed by Tank Measure & Production Records Daily*				*2401 ACP*	*Daily Production*			
(1) If Applicable									
(1) See JMF for Details									
Smoothness									
Certification of Profiler Equipment		*TM 769*				*See Special Provisions*			
Determining International Roughness Index (IRI)		*TM 772*							

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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: Project Manager	Independent Assurance/Verification: Region Quality Assurance	Independent Assurance/Verification: Materials Laboratory
SECTION 00754 - PLAIN CONCRETE PAVEMENT REPAIR **SECTION 00755 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT** **SECTION 00756 - PLAIN CONCRETE PAVEMENT** **SECTION 00758 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT REPAIR**									
Aggregate Production						*A Sublot equals 1000 Tons*			
(1) QAE may waive after 5 sublots/shifts	*Sampling Aggregates*			*R 90*		*1/Sublot*		*1 per 10 Sublots*	
	Reducing Aggregates			*R 76*					
	(2)(3)(4) Sieve Analysis			*T 27/T 11*	*1792*				
	(4) Fineness Modulus								
(2) Perform a minimum of 3 tests, QL's required	*(4) Sand Equivalent*			*T 176*	*1792*				
	(1)(3) Wood Particles	*TM 225*			*1792*	*1/5 Sublots*			
(3) Coarse Aggregate (See Section 02690.20)	*(3) Fracture (Method 2)*			*T 335*					
	(1)(3) Elongated Pieces	*TM 229*			*1792*				
(4) Fine Aggregate (See Section 02690.30)	*Abrasion*			*T 96*	*4000*	*See Section 4A & 02690*	*Submit to Central Lab*		*See Section 4A*
	Degradation	*TM 208*							
	Soundness			*T 104*					
	Lightweight Pieces			*T 113*					
	Organics			*T 21*	*4000*				
	(3) Dry Rodded Unit Weight			*T 19*	*1825* *1825C*	*Start of production and when changes in aggregate occurs*			
	(3) Specific Gravity of Coarse Aggregate			*T 85*	*1825*				
	(4) Specific Gravity of Fine Aggregate			*T 84*					

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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		
							Project Manager	Region Quality Assurance	Materials Laboratory
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 350 yd³ of slip formed pavement or 100 yd³ of non-slip formed PCC*				
(S) ASTV based on a minimum of 3 Cylinders	*Sampling Concrete* *Air Content of Concrete* *Slump of Concrete* *Density (Unit Weight) of Concrete* *Yield* *Water/Cement Ratio* *Concrete Temperature*		*TM 2* .	*T 152* *T 119* *T 121* *T 121* *T 121* *T 309*	*3573WS or 4000C*	*1 per Sublot per mix Design, minimum 1 per day*		*1 per 10 Sublots, minimum 1 per mix design*	
	Fabrication of Concrete Cylinders/Beams *Compressive Strength of Concrete (S)*			*R 100* *T 22*	*4000C*				
Cement Chemical Admixtures Supplementary Cementitious Materials	*Materials listed on batch ticket must match approved design*								
Smoothness									
Certification of Profiler Equipment		*TM 769*				*See Special Provisions*			
Determining International Roughness Index (IRI)		*TM 772*							
Thickness of Pavement	*Sticking Measure*	*TM 775*				*See Specs*			

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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		
							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 2023)						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		
							Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00921 - MAJOR SIGN SUPPORT DRILLED SHAFTS									
Aggregate Production									
						A Sublot equals 1,000 Tons			
	Sampling Aggregates			*R 90*					
	Reducing Aggregates			*R 76*					
(1) QAE may waive after 5 sublots/shifts	*(2)(3)(4) Sieve Analysis*			*T 27/T 11*	*1792*	*1/Sublot*		*1 per 10 Sublots*	
	(4) Fineness Modulus			*T 27/T 11*					
(2) Perform a minimum of 3 tests, QL's required	*(1)(3) Wood Particles*	*TM 225*							
	(4) Sand Equivalent			*T 176*	*1792*				
(3) Coarse Aggregate (See Section 02690.20)	*Soundness*			*T 104*	*4000*	*See Section 4(A)*	*Submit to Lab*		*See Section 4(A)*
	Abrasion			*T 96*					
	Degradation	*TM 208*							
(4) Fine Aggregate (See Section 02690.30)	*Lightweight Pieces*			*T 113*					
	Organics			*T 21*	*4000*				
	(3) Dry Rodded Unit Weight			*T 19*	*1825* *1825C*	*Start of production and when changes in aggregate occurs*			
	(3) Specific Gravity of Coarse Aggregate			*T 85*	*1825*				
	(4) Specific Gravity of Fine Aggregate			*T 84*					

FIELD TESTED MATERIALS ACCEPTANCE GUIDE (Revised November 2023)						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		
							Project Manager	Region Quality Assurance	Materials Laboratory
SECTION 00921 - MAJOR SIGN SUPPORT DRILLED SHAFTS									
Portland Cement Concrete									
						A Sublot equals 100 yd³			
[S] ASTV based on a minimum of 3 Cylinders	*Sampling Concrete*		*TM 2*			*1 per Sublot, minimum 1 per mix design & shaft*		*1 per 5 Sublots, minimum 1 per mix design*	
	Slump of Concrete			*T 119*	*3573WS or 4000C*				
	Concrete Temperature			*T 309*					
	Density (Unit Weight) of Concrete			*T 121*					
	Yield			*T 121*					
	Water/Cement Ratio			*T 121*					
	Fabrication of Concrete Cylinders/Beams			*R 100*	*4000C*				
	Compressive Strength of Concrete [S]			*T 22*					
Aggregates Cement Chemical Admixtures Supplementary Cementitious Materials	*Materials listed on batch ticket must match approved design*								