

Chapter 9 - Minimum Schedule for Independent Assurance Testing

Legend	
Section	Standard Specification Section.
Item	The Contract Item number where the the first four digits contain the parent Standard Specification Section number.
Item Description	Generally the overall subject of the Standard Specification Section and the Contract Item.
Item Unit	Generally the pay unit of the Contract Item.
Material Code	Code used in AASHTOWare to identify component materials used in Contract Items.
Material Description	Definition of the Material Code.
Material Unit	Unit of Material that defines a quantity.
Acceptance Method	Required documentation, sampling, inspection or test. See Acceptance Method table below.

Document Type	Daily Work Report (DWR)	A record is created in the acceptance action tab on a DWR. Project Staff is responsible for recording and processing DWR materials.
	Sample Record	MESU is responsible for processing Sample Record materials in AASHTOWare
Frequency (minimum)	Quantity	1 per quantity indicates that all the quantity of each type (size/shape/composition) of material from a single Source of Supply (defined in Section 1.06.01) must be represented on a single or multiple Sample Records. Sample Record(s) total represented quantity must match total quantity installed.
	Project	1 per project indicates 1 DWR acceptance record is required per Source of Supply (defined in Section 1.06.01). The entire quantity of material for the Project needs be accounted for on a single or multiple DWR acceptance records when a Materials Certificate and/or Certified Test Report is required for that material.
Sample Size	Size of required physical sample.	
Notes	Additional requirements per material. See Notes table below	

Acceptance Method	
FLABT	Field and Laboratory Testing
FLDT	Test performed in the field
INSMCT*	Project Visual, MESU Fabrication Shop inspection, MCCTR
LABT	Laboratory Test (Physical Sample Required)
LMCT*	Laboratory Test, Materials Certificate and Certified Test Report
MC*	Materials Certificate
MCCTR*	Materials Certificate and Certified Test Report
NEPCOAT	North East Protective Coating Committee QPL
PC-1	Self Certification from producer supplied per shipment
QPL/MC*	Qualified Product List and/or Materials Certificate
VISUAL	Project Inspector must visually inspect upon delivery/installation. Visual inspection by MESU staff denotes witnessing fabrication of material where it is being fabricated. Documentation of visual inspection by project staff is in accordance with District/Office of Construction policies.

*Materials Certificates and Certified Test Reports must comply with Standard Specification Section 1.06.07. Note: Materials Certificates for items composed of, or containing, steel or cast iron must also indicate where the steel and cast iron was produced and fabricated.

Notes	
1	Chemical test is required
2	Contractor in-place density testing at a sufficient frequency determined by Project
3	No. 3 Stone only
4	Project staff must register paving operations 24 hours prior to paving using PaveTrack. 1 random physical sample per 500 ton sub-lot (M.04.03-2c). Vendor in Place (VIP) DAS contracts: Sample Record submitted at completion of termini. All other projects: Sample Record submitted monthly when quantity is greater than zero and to cover quantity determined by 4.06.04-1.
5	Total Anticipated Final Quantity >=1,000 gallons: For each construction season, 1 random physical sample needed for every 10,000 gallons. Submit Sample Record w/ attached Bill of Lading, Materials Certificate, & Certified Test Report Total Anticipated Final Quantity <1,000 gallons: No physical sample required, submit Sample Record w/ attached Bill of Lading, Materials Certificate & Certified Test Report
6	Item is Labor only if reusing materials within Project limits. If new materials are needed, follow the material requirements for the corresponding item.
7	Notify MESU (DOT.Steel@ct.gov or DOT.Precastconcrete@ct.gov) prior to fabrication to schedule plant inspection. Submit Sample Record after items are inspected and cast dates for precast items are verified by project staff upon delivery. Record precast structure cast dates in "remarks" section of Sample Record.
8	PC1 for item will cover frames and grates if incorporated into precast items. Material Certification applies when material is not integral with a precast item.
9	Materials Certificate must indicate conformance for entire assembly including, but not limited to, base, shaft, bracket arm, galvanized coating and deflection testing (if required).
10	Check specifications for strength requirements and if cubes or prisms are needed. Mortar must meet C1714 or C387; Grout must meet C1107.
11	Include all hardware. For sign posts, if using a breakaway sign base submit the QPL and/or Materials Certificate with the Sign Post Sample Record.
12	Source testing of material is the responsibility of the Contractor and testing documentation may be requested by the Project
13	Materials Certificate must indicate conformance for precast unit. Certified Test Report must indicate conformance for steel pieces.
14	Plastic single-use molds (preferably 6"x12") to be pre-cut with two opposing vertical slits, keeping the base intact. Prior to sampling, mold shall be reassembled using strong adhesive tape on the slits. After sampling, place a labeled, tight-fitting cap on mold. Store sample in accordance with ASTM C31.
15	The 'Federal Aid Eligibility' letter issued to the Manufacturer, documenting that the device complies with the requirements of the NCHRP Report 350 (TL-3) or the AASHTO MASH (TL-3) shall be kept in project files.
16	Rapid set concrete mixes do not qualify for PCC assurances

**MINIMUM SCHEDULE FOR INDEPENDENT ASSURANCE TESTING
STANDARD ITEMS**

Material Code	Material Description	Material Unit	Section	Item Description	Item Unit	Document Type	Acceptance Method	Frequency (Min. 1 per) [See Legend]	Contact	Notes
08030-IPD	Aggregate-In Place Density	c.y.	2.02	EARTH EXCAVATION	c.y.	Sample Record	FLDT	50,000	DOT.DENSITYASSURANCE@CT.GOV	
				ROCK EXCAVATION	c.y.					
				CHANNEL EXCAVATION-EARTH	c.y.					
				CHANNEL EXCAVATION-ROCK	c.y.					
			2.07	BORROW	c.y.					
			2.09	FORMATION OF SUBGRADE	s.y.					
			2.12	SUBBASE	c.y.					
			2.14	COMPACTED GRANULAR FILL	c.y.					
			2.16	PERVIOUS STRUCTURE BACKFILL	c.y.					
3.04	PROCESSED AGGREGATE BASE	c.y.								
08030-AT	Aggregate - Assurance Sampling	c.y.	2.07	BORROW	c.y.	Sample Record	FLDT	30,000	DISTRICT 1 DISTRICT 2 DISTRICT 3 DISTRICT 4	
			2.09	FORMATION OF SUBGRADE	s.y.					
			2.12	SUBBASE	c.y.					
			2.14	COMPACTED GRANULAR FILL	c.y.					
			2.16	PERVIOUS STRUCTURE BACKFILL	c.y.					
			3.04	PROCESSED AGGREGATE BASE	c.y.					
			3.05	PROCESSED AGGREGATE	ton or c.y.					
03015-AT	PCC Assurance Testing	c.y.	6.01	FOOTING CONCRETE	c.y.	Sample Record	FLDT	2,500	DISTRICT 1 DISTRICT 2 DISTRICT 3 DISTRICT 4	16
				ABUTMENT AND WALL CONCRETE	c.y.					16
				SURFACE REPAIR CONCRETE	c.f.					16
				BRIDGE DECK CONCRETE	c.y.					16
				PARAPET CONCRETE	l.f.					16
				APPROACH SLAB CONCRETE	c.y.					16
				BARRIER WALL CONCRETE	c.y.					16
				STRUCTURAL REPAIR CONCRETE	c.y.					16
				BRIDGE DECK CONCRETE (SIP FORMS)	c.y.					16
				BRIDGE SIDEWALK CONCRETE	c.y.					16
				ABUTMENT AND WALL CONCRETE (MASS)	c.y.					16
				CONCRETE ENCASEMENT	c.y.					16
				COLUMN AND CAP CONCRETE	c.y.					16
			9.21	CONCRETE SIDEWALK RAMP	s.f.					16
				CONCRETE DRIVEWAY	s.f.					16