

MATERIALS DOCUMENTATION RECORD

Estimated Field Requirements for Minimum Materials Sampling, Testing, and Inspection and Record of Field and Central Laboratory Documentation of Materials.

Contract ID: 19302
Project Number: STE-C040-037
Project Location: El Paso County Gleneagle Dr.
Region: 2
Date Developed: 12/3/2015
Contractor: Even Preisser, Inc

PROJECT TO BE TESTED AND DOCUMENTED PER THE 2016 CDOT FIELD MATERIALS MANUAL

Comply with the Buy America requirements in Section 4 of the Special Notice to Contractors in the Field Materials Manual.

Forward to the Staff Bridge Fabrication Inspectors Unit the list of materials suppliers and subcontractors upon receipt from the contractor.

Attach additional sheets to this form if more space is needed for documentation.

All samples are to be selected using a stratified random sampling schedule. See Colorado Procedure 75 for details on stratified random sampling. Generate and print all random sampling schedules needed before the work begins. Use the random schedule program contained in the Asphalt03 or Voids03 computer programs to generate schedules. Contact the Pavement Design Program at the Materials and Geotechnical Branch if you have questions, 303 398-6563.

Tests designated for the Central Lab can be performed in the Field Lab or the Region Lab if adequate facilities and equipment are available.

All CDOT Forms referenced on the Form #250 are to be the most current versions. Verify the revision dates with those listed in the Appendix to the Field Materials Manual and with those listed on the CDOT Form Catalog at www.dot.state.co.us/FormsMgmt/, and then use the most recent.

The CDOT Form #250 is to be used in conjunction with the QA Frequency Guide Schedule of the CDOT Field Materials Manual and all referenced Sections or Subsections of the Standard Specifications for Road and Bridge Construction.

Please reference page 40 and 41 of the QA Schedule of the CDOT Field Materials Manual for guidance on small quantities.

LOCAL AGENCY PROJECTS

All documentation issues should be directed to your CDOT Local Agency Coordinator.

All Local Agency Projects shall use the CDOT Form #250 as developed by the Documentation Unit of CDOT's Materials and Geotechnical Branch.

All Local Agency Projects shall use the CDOT Form #379 as developed by the applicable CDOT Region Materials Engineer.

All Local Agency Projects shall use the CDOT Field Materials Manual referenced on the Form #250 for specific guidance on documentation of project files.

The Field Materials Manual is available for viewing at the CDOT External Web Address: <http://www.dot.state.co.us/DesignSupport/> (see Manuals) The QA Procedures Chapter, the Documentation Chapter, and the Special Notice to Contractors Chapter provide guidance and justification.

The Item Number, Description, Type of Tests, Plan Quantity, Test Required and Central Laboratory (CL) Test Frequency in this Materials Documentation Record, Colorado Department of Transportation Form #250, shall not be altered in any form or by any means.

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203	Embankment Material		PLAN 321 cubic yard			340 cubic yard		Construction Shear Tests
		In-Place Density CDOT Form #212	TESTABLE cubic yard	required		cubic yard		
		Moist-Den Curve CDOT Form #24 (Date)	1 per soil type	reported	05/15/2016 100 EPC			
	Soil Survey (Classification)						1 per 2000 cubic yards Minimum 1 per source.	
	Embankment Imported Borrow Pit	Water-Scalable Sulfate CDOT Form #323	cubic yards imported	>>>	>>>			required reported
Imported Embankment: Each source, document compliance with 106.02 (b)								

ITEM NUMBER	DESCRIPTION	PLAN QUANTITY	FINAL QUANTITY
207	Topsoil	128 cubic yard	128 cubic yard
Certified Test Report Required			
Imported Topsoil: Each source, document compliance with 106.02 (b)			

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ITEM NUMBER	DESCRIPTION	PLAN QUANTITY	FINAL QUANTITY	
208	Erosion Control			Field Inspect
	Erosion Log:	105	0	CDOT Form #157 FS#
	Sediment Trap and/or Basin			CDOT Form #157 FS#
	Erosion Bales:			COC and CDOT Form #157 FS# COC must state "Weed Free"
	Silt Fence:	600	623	CDOT Form #157 FS#
	Check Dam			CDOT Form #157 FS#
	Storm Drain Inlet Protect:			CDOT Form #157 FS#
	Storm Drain Inlet Protect:			CDOT Form #157 FS#
	Outlet Protection			CDOT Form #157 FS#
	Gravel Bag:	16	0	CDOT Form #157 FS#

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ITEM
NUMBER DESCRIPTION

212 Seeding & Sodding
Seed: COC and CDOT Form #157 FS# 17-162
Soil Conditioner: COC and CDOT Form #157 FS# _____
Sod: COC and CDOT Form #157 FS# _____
Contractor shall submit to the Project Engineer a sample of sod 6 1/2 ft x 2 ft for comparison standard.
Fertilizer: COC and CDOT Form #157 FS# _____

ITEM
NUMBER DESCRIPTION

216 Soil Retention
Blanket
Field inspect and CDOT Form #157 FS# 1084 SY

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304	Aggregate Base Course Class 6	Gradation and Atterberg Limits CDOT Form #6	38 ton	1 required 1 reported	05-09-2016	4075 ton	1 per source per project required	GRADATION: ABC Form # 01 ATTEBERG: ABC Form # 03
		In-Place Density CDOT Form #6		1 required 1 reported	ATTEBERG - 0007-2016			I-P DENSITY: ABC Form # 02 M-O CURVE: ABC Form # 03
		Moist-Den Curve CDOT Form #24 (Date)		1 per source	05-03-2016			
		LA Abrasion (Class 4, 5, 6, & 7) CDOT Form #157		>>>	>>>			
		R-Value: Min. Required		Reported				
		Designated Source? (Y/N)		Location				
								CDOT Form #38 (Date) X

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					TEST REPORTED	TEST FREQUENCY	FORM # & FS# or S/N	REQUIRED
403	Hot Mix Asphalt Grading Patching		6 ton	0 ton			each 10k or fraction therof 0	
	Asphalt Content **, Theoretical Max SpG*** CDOT Form #58	Tests Required	0	Tests Taken				
	In-Place Density CDOT Form #69 **		0					
	Gradation **, Aggregate Percent Moisture CDOT Form #6		0					
	Fractured Faces, Voids Fine Aggregate CDOT Form #58		0					
	Longitudinal Joint Density 1 : 5000 lin ft of joint Per Lift CDOT Form #1290 **							
	Hydrated Lime, min 1% Gradation		Plan Quantity 0 ton	Final Quantity 0 ton	CTR for Chemical and CDOT Form #157 FS#		0	CDOT Form #38

Check testing per CP 13 completed, Date: _____
 CTS and CDOT Form #469 completed, Date: _____
 Submit a copy of the complete QC/QA report when reviewed and finalized to: HQ Pavement Design Program, Date submitted: _____
 ** QC/QA Computer Test Reports are acceptable documentation.
 *** 1 per 1000 ton, min 1 per day

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						TEST FREQUENCY REQUIRED	FORM # & FS# or S/N
403	Hot Mix Asphalt QC/QA Grading S 75 PG 58-28		36 ton	4.4 ton		each 10k or fraction thereof 0	
	Less than 5000 ton	Asphalt Content **, Theoretical Max SpG*** CDOT Form #58	1 Tests Required	1 Tests Taken			AC 17 HMA MAX HMA Form # 01
		In-Place Density CDOT Form #69 **	5	5	05-10-2016		1-P OESB-NY HMA Form # 02
		Gradation **, Aggregate Percent Moisture CDOT Form #6	1	1	05-10-2016		General HMA Form # 01
		Fractured Faces/ Voids Fine Aggregate CDOT Form #58	1	0/1			NFA HMA Form # 01
		Longitudinal Joint Density 1 : 5000 lin ft of joint Per Lift CDOT Form #1290 **					
		Hydrated Lime, min 1% Gradation	1 ton				CDOT Form #38

Check testing per CP 13 completed, Date: _____
 CTS and CDOT Form #469 completed, Date: _____
 Submit a copy of the complete QC/QA report when reviewed and finalized to: HQ Pavement Design Program, Date submitted: _____
 ** QC/QA Computer Test Reports are acceptable documentation.
 *** 1 per 1000 ton, min 1 per day.

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ITEM NUMBER	DESCRIPTION	TYPE	SIZE	PLAN QUANTITY (Lin Ft or each)	FINAL QUANTITY (Lin Ft or each)	COC and CDOT Form #157 FS#
603	Culverts	RCP	18"	14	14	✓
		RCES	18"	1 ea	1	✓
		Plastic Pipe	18"	106	114	✓
		Plastic End Section	18"	2 ea	2	✓

See Item 603 in Schedule for acceptance procedure for each type.
 Total reported quantity must meet or exceed final project quantities.
 Backfill Material: Follow instructions in Item 206 of Schedule.
 Gaskets and pipe joint-sealing compounds: COC and CDOT Form #157 FS# _____

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ITEM NUMBER	DESCRIPTION	PAY ITEM	TYPE	SIZE	PLAN QUANTITY	FINAL QUANTITY
604	Manholes & Inlets	Inlet	Type RL 10	10'	1 ea	1

COC and-GDOT
 Form #157-FS#

See Item 604 in Schedule for acceptance procedure.
 Backfill Material: Follow instructions in Item 206 of Schedule.

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ITEM NUMBER	DESCRIPTION	PROJECT ACCEPTANCE TEST REPORTED		CENTRAL LABORATORY TEST FREQUENCY		FORM # & FS# or SIN
		Type	Plan Quantity	Final Quantity	FS# or S/N	
608	Concrete Sidewalk: Curb Ramp	Concrete Sidewalk	930	910		
		Curb Ramp	47	37		
	Total:		977	943		
		sq. yard	sq. yard	sq. yard		
	Compressive Strength, Slump, & Air Content	TESTS	TESTS	TESTS		
	CDOT Form #82 #1375	1 required	1 reported	1 reported		
Truncated Domes: Pre-approved and CDOT Form #157 FS# X Final Quantity						
609	Curb & Gutter:	C & G Type 2	180	177		
		C & g Type 2 II-B	1,600	1,521		
		Gutter Type 2 3'	33	35		
		Gutter Type 2 6'	32	32		
	Total:		1,845	1,827		
		lin ft	lin ft	lin ft		
	Compressive Strength, Slump, & Air Content	TESTS	TESTS	TESTS		
	CDOT Form #82 #1375	1 required	1 reported	1 reported		
Mix Design approval is required before concrete placement begins. CDOT Concrete Mix Design No. _____ INCIDENTAL ITEMS. See Item 601 in the Schedule for details. Water: CDOT Form #157 FS# _____ Miscellaneous: _____ CDOT Form #157 FS# _____						
* Curb Ty 6 M, if Bituminous see Schedule for testing requirements: asphalt content and gradation _____ REPORT TESTS RESULTS ON CDOT Form #156 UPON COMPLETION OF EACH CLASS OF CONCRETE.						

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ITEM NUMBER	DESCRIPTION	PAY ITEM	PLAN QUANTITY	FINAL QUANTITY	COC or CTR required CDOT Form #157 FS#	If inspected CDOT Form #193 Report #
614	Traffic Control Devices					
	Sign Panels (Class I)		sq ft	sq ft		
	Sign Panels (Class II)		30 sq ft	sq ft		
	Sign Panels (Class III)		sq ft	sq ft		
	Timber Sign Posts (All Sizes)		2 lin ft	lin ft		
	Steel Sign Posts (U-2 Type)		lin ft	lin ft		
	Steel Sign Posts		lin ft	lin ft		
	Steel Sign Posts (All S)		lin ft	lin ft		
	Steel Sign Posts (All W)		lin ft	lin ft		
	Steel Sign Support		each	each		
	Concrete Footing		each	each		
	Overpass Mid Sign Bracket		each	each		
	Sign Bridge Structure		each	each		
	Variable Message Sign		each	each		
	Monotube Overhead Sign Cant.		each	each		
	Pedestal Pole		each	each		
	Traffic Signal-Light Pole S		each	each		
	Traffic Signal Pole S		each	each		
	Traffic Signal Pedestal Pole S		each	each		
	Impact Attenuator (Quadguard)		each	each		
	Impact Attenuator		each	each		
	Traffic Signal Span Wire Pole		each	each		
	Traffic Signal-Light Span Wire Pole		each	each		
	Steel Sign Supp 2.5 in R (Post)		lin ft	lin ft		
	Steel Sign Supp 2.5 in R (Slipbase)		each	each		
	Cantilever Structure					

ANCHOR BOLTS: CTR and CDOT Form #157 FS#

See Item 614 in the Schedule for acceptance procedure on each type.

CONCRETE: Test according to Item 601 of Schedule.

REINFORCING STEEL: Report under Item 602 of CDOT Form #250.

NOTE: The following items are to be field inspected and documented in the project records; no report needed:
 Lighting Fixtures, Flashing Yellow Beacons, Traffic Control Systems, Messenger Cables, Electrical Conduit,
 Pull Boxes, Direct Buried Cable, Vehicle Detector Wire Loop, Grounding & Bonding, Miscellaneous Hardware.

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ITEM NUMBER	DESCRIPTION	PAY ITEM	PLAN QUANTITY	FINAL QUANTITY
627	Pavement Marking			
	Pavement Marking Paint			CDOT Form #157 FS#
	Glass Beads (CTR required)		gal	gal
	Thermoplastic Pavement Marking		lbs	lb
		98	sq ft	94 sq ft
	Glass Beads (CTR required)		lbs	lb
	Epoxy Pavement Marking		gal	gal
	Glass Beads (CTR required)		lbs	lb
	Pavement Marking Paint (Low VOC)		gal	gal
	Glass Beads (CTR required)		lbs	lb
	Preformed Thermoplastic Pvmnt Mkg		sq ft	sq ft
	Preform Plastic Pvmnt Mkg (Ty I)		sq ft	sq ft
	Preform Plastic Pvmnt Mkg (Ty II)		sq ft	sq ft

See item 627 in Schedule for Certification procedure for each item.
 Document that material is on the pre-approved list and tabulate final quantities on CDOT Form #157.

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DOCUMENTATION FOR ADDED MATERIALS ITEMS:

Attach additional sheets to this form if more space is needed for documentation.

ITEM NUMBER	DESCRIPTION	TYPE OF TESTS	PLAN QUANTITY	TESTS REQUIRED	FINAL QUANTITY	TESTS REPORTED	PROJECT ACCEPTANCE TEST REPORTED	# OF CHECK TESTS REQUIRED AND SUBMITTED
							CDOT Form #s, FS#s	CDOT Form #s, FS#s

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DELETED MATERIALS ITEMS, DOCUMENTATION FOR:
Attach additional sheets to this form if more space is needed for documentation.

CMO/MCR NUMBER	DATE	ITEM NUMBER	DESCRIPTION	TYPE OF TESTS	EXPLANATION
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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SUMMARY OF PROJECT PRICE REDUCTION DOCUMENTATION
 Fully document and explain all price reductions on CDOT Form #473 Explanation of Exceptions (page 2)

ITEM NUMBER	DESCRIPTION	PRICE REDUCTION AMOUNT	CALCULATIONS #266 / #105 DATES	CMO / MCR NUMBERS	LINE ITEM NO. ON FINAL ESTIMATE

SUMMARY OF SAMPLING AND TESTING DEVIATIONS
 Deviations from sampling and testing requirements must be fully documented on the CDOT Form #473 Explanation of Exceptions (page 2).

ITEM NUMBER	TEST ELEMENT OR ACCEPTANCE	EXPLANATION

SUMMARY OF LABORATORY CHECK TEST DEVIATIONS
 Fully document and explain all laboratory check test deviations on CDOT Form #473 Explanation of Exceptions (page 2)

ITEM NUMBER	DESCRIPTION	MEMO DATE	CDOT Form #157 FS#

Document Significant Independent Assurance differences as per 11.4 of the QA Procedures in the Field Materials Manual.

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Isolated relatively small quantities of concrete, reinforcing steel, wire mesh, bolts etc. which are paid for incidentally shall be field inspected to determine conformance with specifications and Document in Project Records. If any questions arise concerning the proper documentation of materials during construction, contact the Documentation Unit of the Central Laboratory in Denver @ 303-398-6563.

FIELD DOCUMENTATION ENTERED BY:	DATE:	PROJECT ENGINEER / Title:	DATE
<i>Lee Johnson</i>	<i>8/15/16</i>	<i>Kenneth Dickman, P.E.</i>	<i>8.21.16</i>

Distribution: (includes the entire and completed CDOT Form #250)
Resident Engineer
Region Materials Engineer
Region Finals Engineer
Documentation Unit (Materials and Geotechnical Branch)
FHWA (Oversight Projects only)

End

Ref # IT14R582-12WB496