Documentation – CDOT Maintenance and Local Agency-24

1. **SCOPE**

This chapter intends to provide the CDOT Maintenance personnel or Colorado Local Agency personnel guidance from the beginning of the project to the closure of the portion of the materials of the project files. The materials documentation on a project needs to be accurate, complete, and processed within the officially established time frame after the issuance of the project's Final Acceptance Letter per Section 105.21 (b). The Department has stipulated that the Letter of Final Materials Certification (CDOT Form 473) will be signed by the indicated representatives within 30 calendar days to ensure that the quality of the project is maintained and to avoid legal and contractual conflicts.

2. GENERAL REQUIREMENTS FOR CDOT MAINTENANCE PROJECTS

The procedures referenced are to be followed as indicated for CDOT Maintenance (MTCE) projects. The materials documentation procedure begins at the Materials and Geotechnical Branch in the Documentation Unit with the creation of the *Materials Documentation Record*, CDOT Form 250, and the Region Materials Laboratory with the creation of the *Project Independent Assurance Sampling & Testing Schedule*, CDOT Form 379. Final Materials Documentation is to be prepared and reviewed as provided in this chapter. Details on Documentation procedures for individual items are contained in the applicable Sections of this Manual and they cover most situations encountered, but exceptions may require special attention.

3. GENERAL REQUIREMENTS FOR LOCAL AGENCY (LA) PROJECTS

The procedures referenced are to be followed as indicated for Local Agency projects within the state of Colorado. The materials documentation procedure begins at the Materials and Geotechnical Branch in the Documentation Unit with the creation of the *Materials Documentation Record*, CDOT Form 250, and the Region Materials Laboratory with the creation of the *Project Independent Assurance Sampling & Testing Schedule*, CDOT

Form 379LA. Final Materials Documentation is to be prepared and reviewed as provided in this chapter. Details on Documentation procedures for individual items are contained in the applicable Sections of this Manual and they cover most situations encountered, but exceptions may require special attention.

4. **CDOT MAINTENANCE PROJECTS**

When a CDOT Maintenance project goes through the CDOT contract process Maintenance will follow the Colorado Department of Transportation Federal-Aid Highway Program Stewardship Agreement, the current CDOT Standard Specifications for Road and Bridge Construction, the current applicable CDOT Field Materials Manual, and the CDOT Maintenance Projects, Guideline Manual.

These are typical CDOT Maintenance project types:

Roadway & Pavement:

Pavement Patching and Repair (Concrete and Asphalt), Pavement Treatment or Overlay (Less than 1.5 inches), Pavement Crack Sealing (Concrete and Asphalt), Chip/Fog Sealing Operations, Rotomilling Operations, Mud Jacking Operations.

Traffic:

Pavement Marking Operations, Signing Maintenance and Repair, Traffic Signal Maintenance and Repair, Overhead Lighting Maintenance and Repair, VMS Maintenance and Repair

Bridge and Structure:

Structure Maintenance and Repair

Hydraulic and Drainage:

Culvert Maintenance, Repair, and Replacement

Other:

Guard Rail Repair and Replacement, Pedestrian and Bike Path Repair, Remote Deicing System Maintenance and Repair, Weather Monitoring System Maintenance and Repair

If you are unsure whether your project is eligible to become a Maintenance Contract Project, contact the State Maintenance Engineer.

CDOT Maintenance Engineer

https://sites.google.com/state.co.us/maintenanceengineering/team

- 4.1 Under existing statutes and regulations, CDOT is responsible for ensuring that all Maintenance projects are carried out following Federal requirements. CDOT is responsible for determining that Maintenance has adequate project delivery systems for projects and sufficient accounting controls to properly manage State Funds and is ultimately accountable for ensuring that requirements are met for all Maintenance projects.
- 4.2 Designate that the Documentation Unit of the CDOT Materials & Geotechnical Branch is responsible for the development of the CDOT Form 250, *Materials Documentation Record*. The checklist will also designate who is the responsible individual for updating Form 250 as work progresses, and who is the responsible individual required to sign the "Reviewed and Approved By" upon completion of the project.
- 4.2.1 The CDOT project representative, whether the Maintenance Superintendent or Project Manager, may request a small quantity exemption Form 250 from the CDOT Materials & Geotechnical Branch if a project has only Small Quantities as defined by the OA Frequency Guide Schedule of the applicable Field Materials Manual (FMM).
- 4.2.1.1 The Maintenance Project Manager will need to complete the appropriate sections of the CDOT Form 250 (e.g., "Added Materials Items", "Price Reduction", "Sampling & Testing Deviations", etc.).

- 4.3 Designate that the applicable CDOT Region Materials Engineer's (RME) staff is responsible for the development of the CDOT Form 379 *Project Independent Assurance Sampling & Testing Schedule.* The CDOT RME will sign the "Initial Approved By". The checklist will designate who is the responsible individual for completing CDOT Form 379 throughout the project, and who is the responsible individual required to sign the "Final Approved By" upon project completion. It will also stipulate who will apply for the subsequent "Project Review By" from the CDOT Maintenance Superintendent.
- 4.3.1 The Maintenance Project Manager shall develop the CDOT Form 473-M, *Final Materials Certification for a CDOT Maintenance Project,* and CDOT Form 474 *Final Materials Certification Explanation of Exceptions* for a CDOT Maintenance Project as per the instructions within this chapter. The applicable CDOT Maintenance Superintendent will sign the second "<u>Approved by</u>" signature block with his title and date.
- 4.2.1.3 Construction administration, inspection, materials testing, and documentation for Maintenance projects shall follow the applicable Field Materials Manual and the current Local Agency Manual for general assistance.
- 4.1.2.4 CDOT Maintenance should utilize Section 6 of this chapter of the Field Materials Manual as much as is applicable in the organization and completion of their project materials documentation.
- 4.1.2.5 CDOT Maintenance should utilize Section 9 of this chapter for the Distribution of their Finals Materials Documentation.

5. LOCAL AGENCY (LA) PROJECTS

When projects are funded with Federal and Local Agency funds, an Inter-Governmental Agreement (IGA) is required between CDOT and the Local Agency to define project scope, project responsibilities, detailed funding amounts, encumbered project funds, and payment obligations. The State of Colorado administers, oversees, or monitors the Federal-Aid Local Agency (LA) Transportation Projects.

- 5.1 Federal Oversight Stipulations:
- 5.1.1 Per 49 CFR 18.37, States shall follow state law and procedures when awarding and administering sub-grants of financial assistance to local governments. States shall: Ensure that sub-grantees are aware of requirements imposed upon them by Federal statute and regulation.
- 5.1.2 Under existing statutes and regulations, State DOTs are responsible for ensuring that all Federal-aid projects are carried out following Federal requirements (referenced within *Legal and Regulatory Provisions Related to Oversight of Sub-recipients of Federal-aid Funds*). This responsibility was specifically clarified in 23 U.S.C. 106, as amended by Section 1904(a) of the Safe, Accountable, Flexible, and Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU, Public Law 109-59). This amendment to Section 106 specifically charges the States with the responsibility for determining those sub-recipients of Federal funds (including LPAs) have adequate project delivery systems for projects and sufficient accounting controls to properly manage federal funds. As the recipient of Federal-aid funds for the State, the State DOT <u>may not</u> delegate this responsibility and the State DOT is ultimately accountable for ensuring that Federal requirements are met for all Local Public Agency (LPA) administered Federal-aid projects.

- 5.2 Local Agency Contract Administration Checklist will:
- 5.2.1 Designate that the Documentation Unit of the CDOT Materials & Geotechnical Branch is responsible for the development of the CDOT Form 250, *Materials Documentation Record*. The checklist will also designate who is the responsible individual for updating Form 250 as work progresses, and who is the responsible individual required to sign the "Reviewed and Approved By" upon completion of the project. Refer to Section 11. CDOT Form 250 Completion Instructions (Materials Documentation Record) If a consultant tester is utilized on the project a professional engineer with the consulting company must sign and place their PE Stamp on the last page of the Form 250.
- 5.2.1.1 The CDOT project representative, whether the Local Agency Coordinator or Project Manager, may request a small quantity exemption Form 250 from the CDOT Materials & Geotechnical Branch if a project has only Small Quantities as defined by the OA Frequency Guide Schedule of the applicable Field Materials Manual.
- 5.2.1.2 The Local Agency's Project Engineer or the designated person who is responsible for updating the Form 250. Or if a consultant firm is utilized, will need to complete the appropriate sections of the CDOT Form 250 ("Added Materials Items", "Price Reduction", "Sampling & Testing Deviations", etc.).
- 5.2.1.3 A small quantity exemption CDOT Form 250 can only be requested by a CDOT representative.
- 5.2.2 Designate that the applicable CDOT Region Materials Engineer's (RME) or designee staff is responsible for Generating the Initial CDOT Form 379LA *Project Independent Assurance Sampling & Testing*

Schedule. The CDOT RME or designee will sign the "Initial Approved By". The checklist will designate who is the responsible Independent Assurance Tester for completing CDOT Form 379 to the completion of the project. and will designate who is the responsible individual required to sign the "Final Approved By" during the review of the project documents at the project completion. It should also stipulate who is responsible for any subsequent "Project Review By" signature responsibilities from the Local Agency.

On National Highway System (NHS) projects the Independent Assurance Sampling and Testing shall be accomplished by CDOT personnel, or its designated agent employed by an AASHTO Accredited Laboratory. On Non-NHS projects, the Local Agency may use their established and documented procedures to independently verify the adequacy of testing equipment and personnel if their program is approved by the FHWA.

5.2.3 The State Transportation Agency, CDOT, is responsible for the construction of Federal-aid projects. This ultimate authority cannot be delegated. The local public agency (LPA), referred to as the Local Agency by CDOT, must provide a full-time employee to be in "responsible charge" of the project. This individual shall be a public employee (an FTE) but does not need to be an engineer. The key regulatory provision is 23 CFR 635.105 and defines through seven bullets the duties and functions that are expected to be performed.

The Local Agency designated responsible person in charge shall develop the CDOT Form 473LA, *Final Materials Certification for a Local Agency Project*, and CDOT Form 474 *Final Materials Certification - Explanation of Exceptions* per the instructions within this chapter and sign in the Signature Block and date. The applicable CDOT Resident Engineer will sign the second "<u>Approved by</u>" signature block with his title and date. (See examples of the CDOT Forms 473LA, 474 in this chapter).

5.3 Construction administration, inspection, materials testing, and documentation for LA projects shall follow the applicable Field Materials Manual and the current Local Agency Manual as designated on the first page of the Form 250.

NOTE: LOCAL AGENCIES ARE TO USE AN AASHTO ACCREDITED LAB for the test procedures required.

- 5.3.1 The Local Agency should utilize Section 6 of this chapter as much as is applicable in the organization and completion of their project materials documentation.
- 5.3.2 The Local Agency should utilize Section 9 of this chapter for the Distribution of their Finals Materials Documentation.

6. CDOT MAINTENANCE PROJECTS & LOCAL AGENCY PROJECTS – RESPONSIBILITIES & PROCEDURES

6.1 **Before Construction:**

- 1. Review the Project Plans and check the Project Special Provisions for any modified testing procedures.
- 2. Review the Generated DOT Form 250. Verify that the Serial Numbers on the CDOT Form 250 match the project documents. This will enable the Project Engineer to be aware of the types and frequencies of tests that the project Owner Acceptance (OA) tester will be performing.
- 3. Review the developed CDOT Form 379 This will enable the Project Engineer to be aware of the frequency of the independent assurance (IA) tests that will be performed.
- 4. Set up the Electronic Project Material Books. Ensure that the format is as described in the Organizational Guide for Project Material Books in Section 16.
- 5. Review the Special Notice to Contractors. Make note of the applicable acceptance level for the materials being incorporated into the project.
- 6. Ensure items and testing frequencies included in other work are accounted for in CDOT Form 250, the CDOT Form 379 or for Pre-inspection. (For example, Structural Backfill has been included with the MSE wall.)
- 7. Develop a list of Pre-inspected Items.
- 8. Collect a submitted list of proposed materials suppliers on CDOT Form 1425, from the Contractor. Ensure that all steel and iron products permanently incorporated in the work are domestically produced following Section 4 of the current Field Materials Manual, Special Notice to Contractors Chapter.
- Evaluate the Contractor's materials suppliers list on CDOT Form 1425 against the requirements of the current Field Materials Manual, CP 11 Chapter, the Qualified Manufacturers List (QML), and the Approved Products List (APL) on the web.
 www.codot.gov/business/apl
- 10. Identify sources of undesignated materials on CDOT Form 1425.
- 11. Set up Random Sampling Schedules as per the current Field Materials Manual, CP 75 chapter.
- 12. Assure Concrete Mix Design Approval, Follow the Inter-Government Agreement (IGA) https://www.codot.gov/business/apl/concrete-mix-designs (if required).
- 13. Assure Asphalt Job Mix Formula Approval, follow the Inter-Government Agreement (IGA)
- 14. Attend Pre-Con, Pre-pave, Pre-pour, and PC/OA meetings.
- 15. Schedule and participate in pre-testing meetings. Use CP 16, Pre-Testing Meeting Agenda (CDOT Form 1322), if applicable.
- 16. CDOT Forms shall be the most recent revisions as posted on the CDOT Forms Catalog and located on the web: <u>https://www.codot.gov/library/forms</u>

6.2 During Construction

 Ensure the Project Manager and Inspectors have communicated with the Owner Acceptance (OA) tester: activities, production, materials or product deliveries, Contract Modification Orders (CMO), altered quantities, and additional items not considered on CDOT Form 250. Verify all Serial Numbers on CDOT Forms match the project documents.

Note 1: The Project Manager needs to communicate the field-adjusted quantities from the CMOs and Minor Contract Revisions (MCRs) to the Region Materials Engineer (RME) and the Independent Assurance (IA) Tester.

- 2. The Local Agency designee shall complete daily the sampling and testing documentation (e.g., worksheets & reports).
- File daily all submittals for materials acceptance documents such as Certified Test Reports (CTRs), Certificates of Compliance (COCs), Approved Products List (APL) – Qualified Manufacturers Lists (QML) Verification. These stamped COC/CTR documents are to accompany the delivered material to the project.
- 4. File all completed documents, in electronic format or Project Materials Books outlined in the current CDOT FMM Chapter Electronic Signatures, Section 16, required for Finals Acceptance.
- 5. CDOT Maintenance submits required samples to the Region Materials Laboratory following the current Field Materials Manual, OA Frequency Guide Schedule chapter.
- 5a. Local Agencies submit required samples to an AASHTO Accredited Materials Testing Laboratory as required per the Current Field Materials Manual, OA Frequency Guide Schedule chapter.
- 6. The CDOT Central and Region Laboratories will only test samples for the CDOT Maintenance Projects. Contact your Region Materials Laboratory for approved testing locations.
- 7. Inform the CDOT Region Materials Laboratory IA Tester of any upcoming IA sampling and testing per Form 379 in a timely manner. (Only applies to NHS projects for off system. IAT can be performed by an assigned AASHTO accredited Laboratory.)
- 8. Ensure all required information (Form #s and quantities) are added to Form 250 as testing progresses at the time this information becomes available. For assistance contact bryan.tchouban@state.co.us

The following bullet points are end of project Items.

- Documentation for Added Materials Items
- Documentation for Deleted Materials Items
- Summary of Laboratory Check Test Deviations
- Summary of Sampling and Testing Deviations
- Summary of Project Price Reduction Documentation
- 9. Perform Price Adjustment Calculations before Estimates following Sections 105.03 to 105.07 of the current CDOT Standard Specifications.
- 10. Monitor monthly quantities from Progress Report.
- 11. Make sure Price Adjustments are on the Progress Estimate
- 12. Keep a Daily updated list of Exceptions and add them to CDOT Form 474 page 2.
- 13. Document all explanations for each Exception and keep them in the project file as they occur. This will facilitate the completion of CDOT Form 474, Explanation of Exception, at the end of the project.

14. Project Engineer, Project Tester, and Staff shall participate in weekly materials testing meetings as necessary utilizing CP 16, Weekly Meeting Agenda (CDOT Form 1323).

6.3 After Construction

Note 2: The project personnel shall review 100% of the Items and materials documents at this time. To indicate that the review is being performed an actual black checkmark $\overline{\langle \cdot \rangle}$ in pencil or <u>electronic shall</u> be placed on all the applicable documents being reviewed.

- Sort and arrange all documents within the Project Materials Books sequentially by Item Number and then by date (most recent first behind the applicable tab) for ease of review. (The first tabbed section will be the documents as referenced in the Table of Documentation Distribution with all the documents in the order shown. This will not only aid in the closure process but also facilitate the required review and audit process).
- 2. Use the Finals Materials Documentation Checklist, (Project Closure) CDOT Form 1199 Page 1, to document that the subsequent steps have been followed. A <u>blue</u> checkmark *(J)* is to be placed within all verification boxes or click on the applicable box if it is being completed on the computer.
- 3. Compare final quantities from the last Progress Estimate to final quantities shown on Form 250. Write the Progress Estimate Number (date) used on Page 2 of CDOT Form 1199.
- 4. Verify that the Serial Numbers on CDOT Form 250 match the project documents.
- 5. Document on CDOT Form 250 the total number of tests taken by the OA Tester.
- 6. Verify any shortages of required tests as indicated on CDOT Form 250 are added to the CDOT Form 474, Explanation of Exceptions.
- 7. Independent Assurance (IA) Tests:
- 7.1 Verify the Serial Numbers on CDOT Form 379 match the project documents and all tests agree with field acceptance tests, and if applicable, shortages and exceptions are explained.
- 7.2 Ensure the correct number of tests on the CDOT Form 379.
- 7.3 Ensure IA Witness tests if performed at all did not exceed 20% of actual testing for each test element.
- 7.4 Ensure Independent Assurance (IA) / Owner Acceptance (OA) / Check Test differences are explained.
- 7.5 Ensure CDOT Form 379 has a <u>Final Approved By</u> signature of the RME and then has been returned to the Project Engineer.
- 7.6 Ensure CDOT Form 379 has a <u>Project Reviewed By</u> signature of the Project Engineer.
- 8. Make sure all pre-Inspected items have Form 193, when applicable. Contact CDOT Staff Bridge for the CDOT Form 193. Verify On-System or Off System
- 9. Make sure a Line Item exists for each Price Adjustment. A separate Line Item is required.
- Make sure there is a brief explanation for material accepted at full price, Percent of reduction in contract price (P) less than 3, is noted on the CDOT Form 626 when submitted.
 Note 3: Reference to P is addressed in Standard Specifications, Section 105.03.
- 12. The Project Engineer or the Finals Materials Documentation Coordinator (if so, designated by the Local Agency) is responsible for initially developing the *Final Materials Certification*, CDOT Form 473. This includes the Explanation of Exceptions CDOT Form 474, which must be included and should have been maintained throughout the project following "*During Construction #14*".
- 13. Before the submission of the last Progress Estimate, the Project Engineer shall have all the documentary evidence needed to show that the contractor has complied with the requirements of the Contract Plans and Specifications for all materials used following the CDOT Field Materials Manual Owner Acceptance Procedures for Construction and Materials Sampling and Testing chapter.

14. Ensure all required documents from the Contractor have been received: on CDOT Form 157 (e.g., Buy America Certificate, CTRs, COCs, Approved Products List APL, QML Verifications) so that upon Final Acceptance the Finals Materials Documentation review and audit process can be completed within 30 calendar days.

Buy America Requirements

- 15. Ensure the required stamps are applied to the CTRs and COCs and they are completed with the applicable information for that material submittal on the CDOT Form 157. (Form 157s' and or required testing forms have been completed for each item implemented into the Project).
- 16. CDOT Maintenance: 100% of the Project Material Books are to be immediately forwarded to the Region Final Materials Documentation Coordinator.

16.1 Local Agencies: 100% of the Project Material Books are to be immediately forwarded to the CDOT Region Local Agency Coordinator.

7. INDEPENDENT REVIEW REQUIREMENT

The State Maintenance Engineer or the Local Agency Coordinator will prepare CDOT Form 1199 Page 2, Finals Materials Documentation Checklist, (for Review or Audit), and list the four major items listed on CDOT Form 250. The Items of work that involve the four largest amounts of money as indicated by the original contract shall be considered Major Items. (e.g., Major Item #1 will be the most expensive and Major Item #4 will be the fourth most expensive). Using CDOT Form 1199 page 2, the CDOT Maintenance Engineer, Local Agency Coordinator or designee will randomly select one of the listed Major Items for the reviewer or Auditor to check completely. The actual review process utilizing Form 1199 page 2, for the Review or Audit is similar to that used for the Project Closure; however, there are some modifications because the Project Manager or designee is performing a 100% check.

Note 4: To verify the steps performed by a Reviewer/Auditor, it is required that an actual checkmark $\overline{(\mathscr{A})}$ in <u>blue ink</u> be placed on all the applicable documents being reviewed.

- 1. Compare final quantities from the latest Progress Estimate to the Form 250 final quantities. Verify the number of the Progress Estimate used on Page 1 of the CDOT Form 1199. If a more recent Progress Estimate has been issued it should be used and noted. Document any discrepancies discovered between the "more recent" Progress Estimate and the project closure copy.
- 2. Verify the Line-Item Numbers, Field Sheet Numbers, CDOT Form 82, and Field Serial Numbers on CDOT Form 250 match the project documents.
- 3. Verify on CDOT Form 250 the total number of tests taken by the Owner Acceptance (OA) Tester.
- 4. Verify that any shortages of required tests as indicated on CDOT Form 250 are added to the CDOT Form 474 Explanation of Exceptions.

5. Independent Assurance (IA) Tests:

- 5.1 Verify the Field Sheet / Serial Numbers on CDOT Form 379 match the project documents and all tests agree with field acceptance tests, and if applicable, shortages and exceptions are explained.
- 5.2 Ensure the correct number of tests on CDOT Form 379.
- 5.3 Ensure IA Witness tests did not exceed 20% of the actual testing for each test element.
- 5.4 Ensure Independent Assurance (IA) / Owner Acceptance (OA) / Check Test differences are explained.
- 5.5 Ensure Form 379 has a "<u>Final Approved by</u>" signature of the RME and a "<u>Final Reviewed by</u>" signature of the Project Engineer and it has been attached to CDOT Form 473LA.
- 6. Make sure all pre-Inspected items have a Form 193, when applicable. On System Off System

7. Price Adjustment

- 7.1 Make sure a Line Item exists for each Price Adjustment. A separate Line Item is preferred, if a lump sum method is used, submit a detailed explanation.
- 8. Make sure there is a brief explanation for material accepted at full price, Percent of reduction in contract price (P) less than 3, is noted on the field form(s) when submitted.

Note 5: Reference to P is addressed in CDOT Standard Specifications, Section 105.03.

- 9. Check all Price Reduction Calculations, P greater than or equal to 3.
- 10. Check explanation for all material repaired or replaced, P greater than 25.
- 11. Check all the input values for accuracy on Process Control/Owner Acceptance projects with incentive / disincentive specifications.
- 12. Ensure verification of receipt for the final Process Control/Owner Acceptance data being sent to the Region Materials Engineer and the Staff Materials Pavement Design Program (PC/OA Manager) is on file. Send acknowledgment e-mails as required. If it is not included in the file, then send a copy of the PC/OA data to guarantee that it has been received. On CDOT Form 1199 include the date sent to the PC/OA Manager.
- 13. Verify the completion of CP 16, Evaluation of Materials Testing (CDOT Form 1324) for all consultants. (If applicable, Certifications of Tester and Accreditations for the Testing Lab.)
- 14. Verify the Final Materials Certification, CDOT Form 473LA, has an <u>Approved By</u> signature of the Project Engineer, Resident Engineer, or Local Agency person in responsible charge. The Explanation of Exceptions, CDOT Form 474, is required to be included even if there is nothing documented on it.

Review the instructions for CDOT Form 474 to ensure that the Explanation of Exceptions meets the requirements for completeness.

15. As part of the final Progress Estimate, the Project Engineer has included all the documentary evidence needed to show that the contractor has complied with the requirements of the Contract Plans and Specifications for all materials used following the current CDOT Field Materials Manual as indicated on page 1 of the CDOT Form 250.

Owner Acceptance Procedures for Construction and Materials Sampling and Testing chapter. The CDOT Form 325, Final Estimate Data, is to be included in this process. If there is a delay obtaining CDOT Form 325 then it will be included as soon as it is developed and signed.

On page 2 of the CDOT Form 1199, unresolved differences are identified in the complete check of the first randomly selected Major Item a second randomly selected Major Item will be checked completely. If unresolved differences are found in the second Major Item checked, If then the remaining Major Items will be checked completely. If the existence of discrepancies or continued unresolved differences remains, a meeting will need to be scheduled between the "Reviewers", the project's Local Agency or person in responsible charge, and the Project Engineer.

The completion of CDOT Form 473LA is required within 30 calendar days after the final acceptance to achieve a timely closure of the project. The Final Materials Certification is to have an "<u>Approved By</u>" signature of the Resident Engineer, Resident Engineer, or Local Agency person in responsible charge, Beneath the signature of the Project Engineer, Resident Engineer, or Local Agency person in responsible charge. The Explanation of Exceptions CDOT Form 474, if a consultant firm is designated to test the Local Agency project once the consultant tester completes the Explanation of Exceptions and the Consultant Engineer has signed and stamped the CDOT Form 474 the signed and stamped CDOT Form 474 shall not be edited. If a change or addition is needed a new CDOT Form 474 will be completed with the missing documents or additions of the Explanation of Exceptions and signed by the Local Agency person in responsible charge and shall be attached to the original CDOT 474. The Resident Engineer shall be notified and aware of the changes The CDOT Form 473LA, Final Materials Certification, is a requirement for the closure of each construction project whether it be CDOT Maintenance or Local Agency person of responsible charge.

8. CDOT MAINTENANCE & LOCAL AGENCY FINAL MATERIALS DOCUMENTATION AUDIT

The Quality Assurance Procedures Chapter Subsection 11.12 details an audit program in which the CDOT Central Laboratory and the FHWA evaluate the Final Materials Documentation of CDOT Maintenance Projects and Local Agency Projects throughout Colorado.

These audits occur on a biennial basis. The Final Reports are distributed to the FHWA, the CDOT Chief Engineer, and all applicable parties as stipulated in the Quality Assurance Procedures Chapter.

NOTE 6 : All Local Agency Project That, Is Under CDOT Audit review, shall submit to the CDOT Audit Team, a complete PC (Process Control) notebook in digital format or Complete hard copy, 3ring binder PC notebook that contains, all Project Finals documentation.

Table of Documentation Distribution - 1LA Project Finals Materials Documentation Packet

Document Order		Distribution				
	#1	#2	#3	#4	#5	
Form 473LA	Х	Х	Х	Х	Х	
Form 474, Explanation of Exceptions supporting	Х	Х	Х	Х	Х	
documents (e.g., letters, CMOs, MCRs) Form 250 (all pages)	x	x	x	x	x	
Form 379, with supporting test results from IA/OA	X	X	X	X	X	
Form 1199, Page 2, With 100% checked highest tested item with documentation.	X	X		Х	Х	
Form 1199, Page 1	Х	Х	Х	Х	Х	
Random Sample Schedule	Х	Х	Х	Х	Х	
Letter of acceptance, Final Estimate or Last Progress Estimate Form 211 Price Reduction Calculations PC Data Buy America Monthly for FHWA funded /not State funded unless required per Project Specials	X	X	X	X	x	
CDOT Form 1324 for each testing consultant along with certifications.	X	X	x	x	X	

Distribution:

#1 CDOT Resident Engineer	Original
#2 LA Project Engineer / Project Manager	Сору
#3 CDOT Region Materials Engineer	
#4 CDOT Local Agency Coordinator	Copy
#5 Documentation Unit, Staff Materials & Geotechnical Branch	

Table of Documentation Distribution - 2 CDOT Maintenance Project Finals Materials Documentation Packet

Document Order	Distribution					
	#1	#2	#3	#4	#5	#6
Form 473-M	Х	Х	Х	Х	Х	Х
Form 474, Explanation of Exceptions supporting	Х	Х	Х	Х	Х	Х
documents (letters, CMOs, MCRs, etc)						
Form 325, Page 1 & 2	Х	Х		Х		Х
Final Estimate or last Progress Estimate	Х	Х		Х		Х
Form 250 (all pages)	Х	Х	Х	Х		Х
Form 379	Х	Х	Х	Х	Х	Х
Form 1199, Page 2	Х	Х	Х	Х	Х	Х
Form 1199, Page 1	Х	Х	Х	Х		Х
Price Reduction Calculation	Х	Х		Х		
PC Data- (If needed)	Х	Х		Х		
QA Data- (If needed)		Х	Х	Х		
Buy America Certificate	Х	Х		Х		Х
Removed RSAR						

<u>Distribution</u>:

#1	Maintenance Superintendent	Original
#2	State Maintenance Engineer	Сору
#3	Region Materials Engineer	Сору.
#4	Region Finals Engineer	Сору
#5	Documentation Unit, Staff Materials & Geotechnical Branch	Сору
#6	Records Management / Records Center	Сору.

10. CDOT FORM 211 – Completion Instruction [Materials Documentation Request]

The Final Materials Documentation Project Closeout and the Final Materials Documentation Review or Audit activities will discover that occasionally required documents will be missing. Individuals performing the closeout, review, or audit should use this form or comparable e-mails to allow for a paper trail in the effort to obtain the missing documents. The original project personnel may have misplaced or lost a field materials worksheet or report. The Contractor may have not forwarded the required COCs or CTRs. Because time is critical, always indicate a due date and follow through immediately if that date has passed. If e-mail queries are being used, write on the "Subject:" <u>CDOT Materials Documentation Request or CDOT Form 211</u>. Staple the resolution Form 211s or e-mails to the CDOT Form 1199s. Final Material review of the Form 211 before final Request of Reimbursement will be paid.

Note 5: The CDOT Forms 250, 379, 473LA/473M,474, and both 1199s that have been referenced are integral to the Materials Documentation process, both at the project level and at the review and audit level. Therefore, the subsequent explanation of each of the form's requirements is addressed at this point.

11. CDOT FORM 250 – Completion Instructions [Materials Documentation Record]

The Local Agency or person in responsible charge is responsible for the initial review of Form 250 and contacting the Staff Materials & Geotechnical Branch if there is a problem with the form. Ensuring the proper completion of the CDOT Form 250 and then applying the signature to <u>Reviewed</u> and <u>Approved by</u> is the Project Engineer's responsibility. If a consultant tester is utilized on the project a professional engineer with the consulting company must sign and place his PE stamp on the last page of CDOT Form 250. The Explanation of Expectance will be included on CDOT Form 474.

Completion of CDOT Form 250 will include the following as substantiating documentation:

- 1. Entering Final Materials Quantities.
- 2. Inclusion of Quantities added by Contract Modification Order(s) on CDOT Form 90.
- 3. Breakout and inclusion of Quantities not listed separately in the Bid Schedule (e.g., quantities included in Lump Sum Items).
- 4. Verification that minimum testing frequencies have been accomplished.
- 5. Explanation of <u>Exceptions</u> for Material Specification Deviations.
- 6. Documentation of <u>Exceptions</u>, for comparison differences between Quality Assurance (OA) Test results and Independent Assurance (IA) Test results.
- Documentation of <u>Exceptions</u> for Price Reductions when P is greater than or equal to 3. Specification deviations that have a price reduction factor (P) of less than 3 require that the exception be noted on the submittal sheet referenced in the Field Materials Manual – OA Schedule. A copy of the calculations is to be attached.
- 8. Documentation of <u>Exceptions</u> for remedial action when P is greater than 25.
- 9. Documentation of <u>Exceptions</u> for an insufficient number of tests.

Note 6: If the Guidelines for Test Frequency Reduction are utilized then reference it specifically, do not just state "waived by the Project Manager".

- 10. Documentation of <u>Exceptions</u> for a lack of tests for Items included in Lump Sum Payments. PE shall obtain the Region Materials Engineer exemption.
- 11. Documentation of <u>Exceptions</u> for a lack of tests for Items included in extra work.

Distribution:

Note 7: Submit the entire completed copy, not just the first and last page.

12. CDOT FORM 379 –Completion Instructions [Project Independent Assurance Sampling Schedule]

The Project Manager is responsible for ensuring that the Region Materials Engineer's IA Staff are kept informed throughout the project. The OA Procedure Chapter, Subsection 7.5.1.2, and throughout Subsection 7.9.4 describes the exact responsibilities that the Project Engineer has concerning CDOT Form 379.

The Local Agency will assign an individual to generate the CDOT Form 379, *Project Independent Assurance Sampling & Testing Schedule*. The Local Agency or person in responsible charge, will perform the initial approval to provide independence between development and review before distribution to the Project Engineer. The RME or his designee will send a copy of the 379 to the appropriate Project Engineer, even if a copy has been sent to the project (OA) tester. When all Form 379 IA sampling and testing on the project is completed, the RME will certify it through his Final Approval and then forward the signed Form 379 to the Project Engineer or if applicable the LA designee.

Upon receipt from the Region Materials Engineer, the Project Engineer or the Local Agency designee will review and except for the files 379 with his Project Reviewed By signature.

Completion of the CDOT Form 379 will include:

- 1. The actual number of tests completed.
- 2. An Explanation of <u>Exceptions</u> for comparison differences between Quality Assurance (OA) Test results and Independent Assurance (IA) Test results, as defined in Section 7.9 of the QA Procedures chapter.
- 3. An Explanation of <u>Exceptions</u> for an insufficient number of tests.
- 4. The Field Sheet / Serial Numbers from the CDOT Forms correlated to the applicable CDOT Form Number and the test dates.
- 5. The completion of the statement "All equipment was independent except as noted: ..."

13. CDOT FORM 473-M, 474 and 473-LA, 474 Completion Instructions [Final Materials Certification]

13.1 CDOT Form 473-M and 474 Completion Instructions for CDOT Maintenance Projects

The Project Manager is responsible for ensuring that the Final Materials Certification, CDOT Form 473 is developed. This includes the Explanation of Exceptions Form 474 which should have been maintained throughout the project. The Region's Finals Materials Documentation Coordinator may be designated by the RTD to initially prepare CDOT Form 473. The Project Manager applies the first <u>Approved By</u> signature to the form because it is their project, and they would be aware of all issues associated with his project. The Maintenance Superintendent for the project applies their signature under <u>Approved by</u> on CDOT Form 473 because of their ultimate responsibility and authority. They may edit the Explanation of Exceptions CDOT Form 474 as necessary, after the completion of the Final Materials Documentation Review. However, the edits should be documented if they are anything other than editorial.

Explanation of Exceptions CDOT Form 474: [Examples only, not all-inclusive.]

- Missing documents such as CTRs, COCs, Buy America, etc.
- Section 11 (Form 250) and Section 12 (Form 379) have specific <u>Exceptions</u> that should be placed in this document.
- The last five sections of CDOT Form 250 [Documentation for Added Materials Items, Documentation for Deleted Materials Items, Summary of Laboratory Check Test Deviations, Summary of Sampling and Testing Deviations, and Summary of Project Price Reduction Documentation] may be attached to fully document what transpired on the project.

Completion of the CDOT Form 473 will include:

- 1. The creation of Explanation of Exceptions CDOT Form 474 is a compilation of recorded and documented explanations from throughout the project and those recorded on CDOT Form 250 (refer to the examples above).
- 2. All issues that were referenced on CDOT Form 1199 Page 1 and Page 2 were reviewed.
- 3. All CDOT forms and documents are assembled in the required order stipulated in Table Documentation-1. These are to be physically attached with pages stapled together as much as is possible or with binder clips if necessary.
- 13.2. CDOT Form 473-LA and 474 Completion Instructions for Local Agency Projects:
 - The Local Agency's individual in "responsible charge" shall be responsible for ensuring the Final Materials Certification, CDOT Form 473LA, is developed. This includes the Explanation of Exceptions, CDOT Form 474, which should have been maintained throughout the project. This individual applies the first "Approved By" signature to the CDOT Form 473-LA as stated in Subsection 5.2.3 of this chapter. The Resident Engineer applies the second "Approved by" signature block on the CDOT Form 473-LA because this ultimate authority cannot be delegated. The Resident Engineer or their CDOT designee may edit the Explanation of Exceptions as necessary, after the completion of the Final Materials Documentation Review.

Explanation of Exceptions: [Examples only, not all-inclusive.]

- Missing documents such as CTRs, COCs, and Buy America (if applicable).
- Section 11 (CDOT Form 250) and Section 12 (CDOT Form 379) have specific <u>Exceptions</u> that should be placed in this document.
- The last five sections of CDOT Form 250 [Documentation for Added Materials Items, Documentation for Deleted Materials Items, Summary of Laboratory Check Test Deviations, Summary of Sampling and Testing Deviations, and Summary of Project Price Reduction Documentation] may be attached to fully document what transpired on the project.

Completion of the CDOT Form 473-LA will include:

- 1. The creation of Explanation of Exceptions is a compilation of recorded and documented explanations from throughout the project and those recorded on CDOT Form 250.
- 2. All issues that were referenced on the CDOT Form 1199 Page 1 and/or Page 2 were reviewed.
- 3. All CDOT forms and documents are assembled in the required order stipulated under the Documentation tab, Section 9, Table of Documentation Distribution-1 of the Field Materials Manual. These are to be physically attached with pages stapled or attached together to complete the document.

CDOT Form 474 (Adobe Acrobat DC version)

- 1. The Project Tester or the Project Engineer (rarely) initiates the Form.
- The Consultant Testing Firm or Local Agency, Project Tester fills out project information including the Contract ID, Region, Acceptance Date, Project Number, Project Location, Contractor, and Project Final Documentation Completion Date. The Project Final Documentation Completion date shall be the same date that appears on the final copy of the Owner Acceptance Sampling & Testing Checklist. (See an example of the checklist in this Section).
- 3. The Consultant Testing Firm or Local Agency Project Tester selects the type of project and testing requirements for the project by checking the box for either Owner Acceptance, Independent Assurance, Innovative Contract, Local Agency, CDOT Maintenance.
- 4. The Project Tester fills in the consulting company's name and if/whether sampling and testing are performed by a consultant.
- 5. The Project Tester checks the boxes for asphalt and/or concrete quality level. They also electronically sign the boxes to verify the concrete and asphalt data has been reviewed and checked. These boxes, reviewed by and checked by, are signed by different individuals.
- 6. Whoever reviews the project data (usually the Project Tester, Head Tester, Project Engineer, or a combination) fills out the bulk of the form which shall contain a <u>detailed list</u> with explanations of all exceptions or changes to a project, incentives, and disincentives, failing tests, missing documents, etc.
- 7. The Project Tester or Project Engineer electronically signs the document, locking all their input from future alterations.

CDOT Form 473 LA

Form 473, Page 2 has been replaced with CDOT Form 474. Older versions of CDOT Form 473 shall not be used, even if specified in the Field Materials Manual required for the project. Project personnel should replace any older versions of CDOT Form 473 (pages 1 and 2) with the newest versions of CDOT Forms 473 and 474 and document the change in the project.

CDOT Form 474

CDOT's directive to go paperless was the primary direction for creating CDOT Form 474, which is essentially the old and cumbersome CDOT Form 473, Page 2. CDOT Form 474, CDOT Final Materials Certification/Explanation of Exceptions was created for supplemental project documentation. Some of the items that must be included on CDOT Form 474 include shortages of tests, missing COC/CTR's, price reductions, and CAR quality level reports. As the title suggests this form also requires signatures that were previously on CDOT Form 473, Page 2.

Signature Blocks

Both CDOT Forms 473 and 474 have a signature lock feature built into them. Each signature will lock the entire section that the signature block is responsible for completing. Thus, each signer must verify their section is correct before signing as once a signature is applied no changes can be made to that section. A more detailed list of instructions for filling and signing these two forms is as follows.

CDOT Form 473LA

There are six required Items for CDOT Form 473, the following illustrates the proper order in a step-

by-step process for correctly filling out this form.

CDOT Form 474

This is essentially the old CDOT Form 473 Page 2, but with a couple of upgrades. Like the new CDOT Form 473, electronic signatures will lock in the various areas the signee is responsible for. The following illustrates the proper step-by-step process for correctly filling out this form.

Step 1: The Project Tester or (in rare cases) the Project Engineer fill out the following:

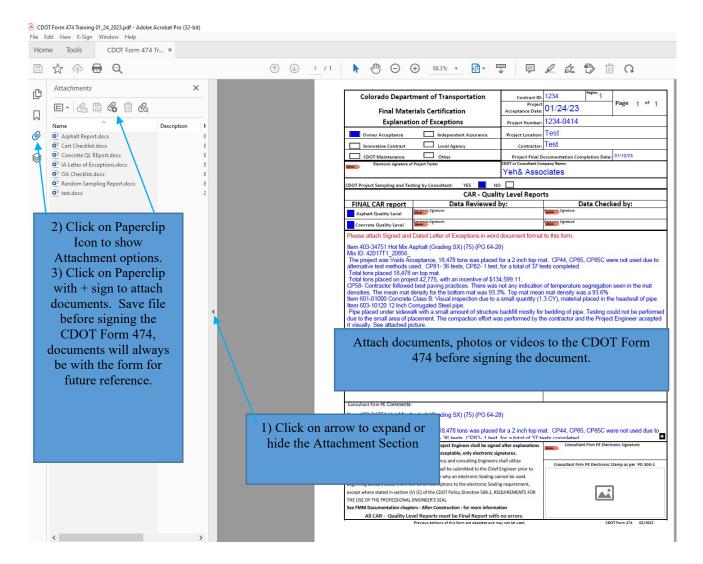
- Item A1: Contract ID, Region, Acceptance Date, Project Number, Project Location, Contractor, and Project Final Documentation Completion Date.
- Item A2: Select the type of project and testing requirements for the project by check the box for either owner acceptance, independent assurance, innovative contract, Local Agency, CDOT Maintenance, or "Other".
- If "Other" is selected, then a description must be typed in this box.
- Item A3: Type CDOT or the consulting company's name in the box adjacent to the signature.
- Item A4: Select 'Yes' or 'No' if the CDOT Project sampling and testing are performed by a consultant.
- Item A5: The Project Tester or Project Engineer checks the box(s) for asphalt and/or concrete quality level. They also electronically sign the boxes to verify the concrete and asphalt data has been reviewed and checked. These boxes, reviewed by and checked by, are signed by different individuals.
- Item A6: Whoever reviews the project data fills this section. Usually, it is the Project Tester, Head Tester, Project Engineer, or a combination depending on who has reviewed the project data. This box should contain a <u>detailed list</u> with explanations of all exceptions or changes to a project, incentives, and disincentives, failing tests, missing documents, etc.
- Item A7: The Project Tester or Project Engineer electronically signs the document, locking all their input (outlined in red) from future alterations.
- **Step 2**: Item B: Signed by the Consultant Firm's PE, if a consultant tester was used. If no consultant tester was used, then this block will remain blank.
- **Step 3**: Item B1: This block is for comments made by the Consultant Firm's PE if a consultant tester was used. If no consultant tester was used, then this block will remain blank.
- **Step 4**: Consultant Firm P.E. Electronic Stamp as per PD 508.1. Instructions: The signature of the Project Tester or Project Engineershall be signed after explanations are complete. <u>Wet Signatures are not acceptable</u>, only electronic signatures will be accepted.

On or before January 2020, all CDOT, Local Agency, and consulting Engineers shall utilize electronic Sealing. Requests for exemptions shall be submitted to the Chief Engineer before mechanical Seals being utilized with the reason why an electronic Sealing cannot be used. After January 2021, there will be no exemptions to the electronic Sealing requirement, except, where stated in section (V) (C) of the CDOT Policy Directive 508.1, REQUIREMENTS FOR THE USE OF THE PROFESSIONAL ENGINEER'S SEAL

See FMM Documentation chapters - After Construction - for more information. All CAR - Quality Level Reports must be Final Report with no errors.

Colorado Depart	tment of Transportation	Contract ID	1234 Region: 1	
	ment of fransportation	Contract ID: Project		Page 1 of 1
Final Mate	erials Certification	Acceptance Date:	01/24/23	
Explanati	ion of Exceptions	Project Number:	1234-0414	
Owner Acceptance	Independent Assurance	Project Location:	Test	
Innovative Contract	Local Agency	Contractor:	Test	32
CDOT Maintenance	Other	Project Final D	ocumentation Completion Da	te: 01/10/23
Electronic signature o	Electronic signature of Project Tester		npany Name:	
		Yeh& Asso	clates	
CDOT Project Sampling and Tes				
		ty Level Repor		de dias
FINAL CAR report	Data Reviewed	by:	Data Che	cked by:
Asphalt Quality Level	Electronic Signature:		Elactronic Signature:	
Concrete Quality Level	and a			
-	Dated Letter of Exceptions in word		to this form.	
Item 403-34751 Hot Mix 7 Mix ID: 42017T1 20856	Asphalt (Grading SX) (75) (PG 64-20	8)		
	cceptance, 18,478 tons was placed	for a 2 inch ton m	at CP44 CP85 CP85C	were not used due to
alternative test methods u	ised. CP81- 36 tests, CP82- 1 test,	for a total of 37 te	ests completed.	were not used due to
Total tons placed 18,478				
	ect 42,775, with an incentive of \$13	4.599.11.		
CP58- Contractor follower	d best paving practices. There was	not any indication	of temperature segregati	on seen in the mat
densities. The mean mat	density for the bottom mat was 93.3	3%. Top mat mean	mat density was a 93.69	6
Item 601-01000 Concrete	Class B: Visual inspection due to a	a small quantity (1.	3 CY), material placed in	the headwall of pipe.
Item 603-10120 12 Inch 0	corrugated Steel pipe.			
Pipe placed under sidewa	alk with a small amount of structure	backfill mostly for	bedding of pipe. Testing	could not be performed
	lacement. The compaction effort wa	as performed by th	e contractor and the Proj	ect Engineer accepted
it visually. See attached p				
Item 608 00010 Concrete			Constant and the second	
Visual Inspection does to	small quantities, 37 SY, material pl	laced in curb ramp) for the sidewalk.	+
Project Engineer Comments	and the second			
Itom 403-34751 Hot Mix 4				
110111403-3473111011VIA	Asphalt (Grading SX) (75) (PG 64-2	8)		
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INSTRUCTIONS FOR ATTACHING DOCUMENTS TO THE CDOT FORM 474



14. CDOT FORM 1199, Page 1 – Completion Instructions [Final Materials Documentation Checklist, (Project Closure)]

The CDOT Form 1199 Page 1 is a checklist to be used by the Project Manager. The Project Manager should utilize this form in the process of completing CDOT Form 473LA as both a guide and a means of documenting that specific issues were addressed, and the required supplemental documentation was included in the finals packet.

It is understood that a subsequent Progress Estimate may be created after the Project Engineer has started to close out the project; therefore, the latest Progress Estimate number is to be recorded. Thoroughly compare the latest Progress Estimate with CDOT Form 250 to ensure that the quantities of the materials are correct. Verify the form numbers and their respective serial numbers match the project documents. Verify the required tests match the tests reported (those performed). This process is repeated utilizing CDOT Form 379.

Ensure all the supplemental documents referenced in the lower half of Form 1199 are completed and available for inclusion in the final packet.

The Finals Materials Documentation Checklist for Project Closure is to be signed and dated by the Project Engineer or his designee.

15. CDOT FORM 1199, Page 2 – Completion Instructions [Final Materials Documentation Checklist, (Review or Audit)]

The CDOT Form 1199 Page 2 is a checklist to be used in the Region Final Materials Documentation Audit. The Resident Engineer's reviewer or the Finals Materials Documentation Coordinator should utilize this form in the process of reviewing and auditing the submitted project files from the Project Engineer.

As stated in the Region Finals Materials Documentation Audit instructions this activity is not meant to repeat the 100% project files check performed by the Project Engineer. Reviewing more than one Major Item is to be reserved for responding to discrepancies and problems discovered in the review process.

Utilize the directions from Page 1 concerning comparing the Final Estimate with CDOT Form 250. Verify the testing concerning CDOT Form 379. Ensure all of the supplemental documents referenced in the lower half of Form 1199 were completed and included in the final packet.

The Final Materials Documentation Checklist for the Review or Audit is to be signed and dated by the Reviewer or the Finals Materials Documentation Coordinator.

16. ORGANIZATIONAL GUIDE FOR PROJECT MATERIAL BOOKS

SCOPE

The Field Materials Manual includes the "OA Frequency Guide Schedule for Minimum Sampling, Testing, and Inspection". This is the essential document to use when determining which CDOT forms to use as worksheets, which CDOT forms to collect as test reports, and what materials acceptance documents are required.

Utilize this Organizational Guide for Project Materials Books in both initially establishing the binders and maintaining them throughout the project. It is not inclusive of every material Item, but it references the primary Items that you will encounter. It is critical to follow the Item Numbering in sequential order to aid in locating project paperwork. Check Project Specials and Project Standard Revisions for additional paperwork that may be required.

The Materials Books need to be marked on both the cover and spine to indicate which item numbers are included within the book. <u>No exceptions</u>! Each bullet represents a subsection within the item and therefore needs to be properly divided. Sheet dividers or tabs properly identified will help to delineate the paperwork for ease in locating forms used as worksheets and test reports. Place the most recent or newest documents behind the applicable tab.

<u>Core Project Documents:</u> The required filing order in the first book is established to mirror the Project Finals Materials Documentation Packet. Applicable for either CDOT Maintenance or Local Agency projects.

- CDOT Form 473LA/473M and 474.
- Progress Estimate (from the first through to the Final Estimate).
- CDOT Form 250 in its entirety, even though a copy may be divided with the respective Item pages within each tab.
- CDOT Form 379.
- CDOT Form 1199, Page 2 & Page 1.
- Random Sample Schedule(s). *
- Price Reduction Calculation (copies).
- PC Data. **
- OA Data. **
- Buy America Certificate(s).
- CDOT Form 1324, Evaluation of Materials Testing (per CP 16).
- Field Lab & Personnel Qualification Checklist, Certification for Tester and Lab Accreditation, Any Incentive or Disincentive for smoothness or quality acceptance with supporting documentation. (Per CP 10).

* Random Sample Schedules need to be marked for the item number and the testing element.

** Random Sample Schedule copies and Process Control/Owner Acceptance Data copies should be filed with the applicable item.

203 Embankment

- CDOT Form 564 (Soil Classification) / CDOT Form 24 (Curves) / Computer Moisture / Density with Rock Correction printouts with Curve numbers on it.
- Each Curve will have all the above stapled/attached. Make an extra copy of the computer Moisture/Density curve to go with the gauge book.
- CDOT Form 564 (Soil Classifications) is for your completed roadway Soil Survey data. (1 per 1000 ft. or change of soils.) Get these tests completed as fast as you can so they can be submitted for an R-value in case there is a <u>stability</u> problem.
- CDOT Form 157 is for samples sent to AASHTO accredited laboratory for an R-value to complete the Soil Survey. Attach the test results from the Lab, to the corresponding CDOT Form 157 serial number.

Note: For faster R-value results, attach a copy of your Form 564 (soil classification) that you completed for that sample.

- CDOT Form 212 (Densities) with the field test worksheets (in chronological order by date and test number) stapled and attached to this. Make sure the classifications match what is on the computer Moisture/Density curve. <u>The Project Engineer must sign this form when it</u> <u>is completed</u>. Do not wait until the end of the project to complete this form. This form can be filled in and submitted weekly, bi-weekly, monthly, or however your Project Engineer may want this information to be submitted for signature. Communication between you and the Project Engineer is very important.
- CDOT Form 219 (Roadbed Soil Survey). Fill out this form from the test results you receive from CDOT Form 157 samples submitted. When this is completed, sign it and have it signed by the Project Engineer, then submit this to Region Lab, as soon as possible, for final approval. You will get a signed copy back, when it is approved, for your Files.
- Sulfate testing for preliminary roadway soil survey data (1 per 1000 ft. or change of soils.) will use the preliminary soil survey CDOT Form 555. Soils sampled for sulfate testing will be identified for each soil layer and boring on this form. Additional information will be submitted on CDOT Form 157 identifying the test bore number, number, and type (soil or water) of tests being submitted. The completed soil survey will include the sulfate percentage for each sample submitted.
- Sulfate testing for imported embankment (1 per 2000 yd³ or change in soils) will use the Laboratory Report on Item 203 (Embankment or Borrow) CDOT Form 323.
- Corrosion tests for pipe material type selection will be submitted on CDOT Form 157 and CDOT Form 555 identifying the test bore or location number, number, and type (soil or water) of tests being submitted.

206 Structural Backfill

Class 1

- CDOT Form 157 Sample submitted to an AASHTO Accredited Laboratory for a gradation compliance check and a moisture/density curve. Attach the Lab test results to the corresponding 157 serial number.
- (Gradations) CDOT Form 6 that have the field gradation test worksheets (CDOT Form 565) stapled/attached are represented on this form in chronological order by test number and date.
- (Density) CDOT Form 6 that have the field density worksheets (CDOT Form 427) stapled/attached are represented on this form in chronological order by test number and date.

Class 2

- Classification (CDOT Form 564) / Curve (CDOT Form 24) / Computer printout of Moisture / Density Curve with rock correction. All this needs to be attached with a Curve number on it (if there are several curves). Make an extra copy of the computer printout to go to the gauge book.
- CDOT Form 212 (Densities). Same as per Item 203.

Flow fill

• You only need the Form 157 filled out for each Flow-Fill Mix Design used. Submit this mix design to the project records. Keep batch tickets.

Filter Material or Bed Course

• You only need the CDOT Form 6. Attach field test sheets (CDOT Form 565) to this form and have them signed by the project engineer.

<u>Form 194</u>

• Structural Backfill Density Report is a summary to be filled out at the end of the project when you have the correct number of cross pipes, side drainpipes, minor structure, and major structure with their quantities broken out by the type of backfill. You will get this data from your Project Engineer, as well as the Project Plans and As-Builds.

<u>Item 207</u>

- You will need to have a section for the test results and CDOT Form 157 that was filed to delineate if it was a Contractor's Source, and this documentation should be accompanied by the Certified Test Reports (CTRs) the Contractor should submit with samples of the material. Check and document that the one the lab used was the one approved for use.
- If the material used was generated on the project, document it on CDOT Form 157 and have the Project Engineer sign CDOT Form 157.

<u>Item 208</u>

• You should file a CDOT Form 157 for each of the items that you are documenting. Silt fence, Erosion Bales, and the Miscellaneous Items that were used. Make sure the materials have the proper documentation, and if applicable are on the Approved Products List (APL). It is helpful to print the applicable CDOT Form 595 with the information on the product found on the APL and file it behind CDOT Form 157 for that item.

<u>Item 209</u>

- You should document if the Landscaping water used was potable, or if a CTR was submitted and approved for use.
- If Magnesium Chloride is used for a Dust Palliative, document on CDOT Form 157 and file the Certificate of Compliance (COC) behind it.
- If an Asphaltic material was used for a Dust Palliative, follow Item 403/411 requirements, and document.
- Embankment Moisture Control should be documented per specification.

<u>ltem 212</u>

• You should have separated areas for the seed, sod, and fertilizer. File the COCs behind CDOT Form 157 documenting the quantities approved and that each meets CDOT Standards. Make sure you have copies of the Seed tickets filed behind CDOT Form 157 and COC. Fertilizer should meet requirements of Standard Specification Subsection 212.02.

<u>ltem 213</u>

- There should be separate sections for Wood Cellulose, Mulch Tackifier, and Straw or Hay used.
- Wood Cellulose Fiber should be accompanied by a COC.
- The Mulch Tackifier should be accompanied by a COC.
- Straw and Hay should be accompanied by a COC stating material is "Weed Free." then file behind CDOT Form 157 documenting that it was acceptable.

<u>ltem 214</u>

- You need separate sections for Plants, Humus, and Fertilizer.
- Plants are accepted by COCs, document on CDOT Form 157, and file COC behind CDOT Form 157.
- Humus is approved by Staff Landscape Architect. Document on CDOT Form 157 and file any paperwork given by Staff Landscape Architect behind your CDOT Form 157.
- Fertilizer should be accepted by COC. File with CDOT Form 157 stating material meets requirements.

<u>ltem 215</u>

- Plants are accepted by the Right-Of-Way Engineer, document on CDOT Form 157 his acceptance.
- Fertilizer should be accepted by COC. File with #157 stating material meets requirements.

<u>Item 216</u>

• Soil Retention Blanket should be located on the APL, document, and file APL document. It should be weighed, measured, and documented that the material is acceptable.

<u>ltem 217</u>

• This material is accepted by Staff Landscape Architect, document on CDOT Form 157 their acceptance and any paperwork from Staff Landscape Architect should follow your CDOT Form 157.

Item 304

- CDOT Form 157's are for the samples sent to an AASHTO Accredited Laboratory for R-value, Moisture / Density curve, gradation verification, LA Abrasion, etc. Follow "Guide Schedule for Minimum Materials Sampling, Testing, and Inspection." Attach the test results with the appropriate CDOT Form 157 serial number that you receive back from the Lab.
- CDOT Form 6 (Gradations / Atterberg Limits) with the attached field test worksheets attached to this form. The Project Engineer needs to sign this form.
- CDOT Form 6 (Densities) with the attached field test worksheets attached to this form. The Project Engineer needs to sign this form.

The above section applies to all types of aggregate base courses (Class A, B, or C). If you have several different (Class A, B, or C) you need the three (3) sections for each Class.

<u>Item 306</u>

• Follow Item 203 requirements for documentation for this item, follow the schedule of Item 306 for the frequency of tests needed.

Item 307 Hydrated Lime

- CDOT Form 157 for each shipment (one per source, 1 per 100-ton, 2nd 100 ton, etc.).
- Keep shipment invoices listing "Date, BOL/COC number, tons shipped, and accumulative total". This will help you know when to ship the samples you took per truck represents 100 tons or a fraction thereof for testing. For every 4 samples (1 per truck at 25 tons per truck) you need to ship all of this to the Lab.

<u>Item 307</u>

There should be separate sections for the following:

- Lime Treated Sub-Grade
 - 1. Density reports on CDOT Form 212.
 - 2. CDOT Form 157 documenting the Moisture Density Curves, (copy of curves should be kept in Nuclear Gauge book for field use).
 - 3. The section should be kept for "depth" of lime treatment measurements.
 - 4. Check the schedule for lime samples to be submitted to HQ for testing, file results behind CDOT Form 157.
- Quick Lime CTRs and CDOT Form 157 documenting percent purity, source, and supplier.
- Mineral Fillers
 - 1. Document gradations on CDOT Form 6.
 - 2. Submit samples to an AASHTO Accredited Lab for testing every 500 tons, file results behind CDOT Form 157.
 - 3. Document the Source, Supplier, and any other required information on CDOT Form 157 or other documents required by provisions.

Item 308 Review (Project Special)

- Portland Cement Treated Base (Project Special, May be sampled and tested on a project-byproject basis)
 - 1. Densities should be recorded on CDOT Form 6.
 - 2. Gradations should be recorded on CDOT Form 6.
 - 3. Atterberg Limits should be recorded on proper forms and worksheets and filed.
 - 4. Moisture and Density Curves should be filed behind Form 157 for each blend of soil and Cement.
- Portland Cement and Fly Ash
 - 1. The product must be on the APL. Print the information and file behind Form 157 that the product is acceptable.
 - 2. Then file behind the CDOT Form 157 if the Engineer requested Bill of Lading and CTRs from the supplier. Then file results behind CDOT Form 157.

<u>Item 310</u>

• Document as per the Project Contract.

Item 403 HMA

- Form 43 (In this tab, file Form 157 and supporting documents of mix design from the private lab, CDOT Form 429, and AASHTO Accredited Lab CP 52 results).
- Asphalt Content Gauge (Include stat and drift test, & CDOT Form 772). Not needed if Ignition Oven used on Quality Assurance tests.
- Correction Factors Asphalt Content Gauge or Ignition Oven Correction factor. Moisture Density correction factor Form 469 or equivalent and supporting documentation.
- Check Tests Include QA and QC results, and report passing/failing.
- Random Schedules.
- Verification Test Results.
- Quality Assurance Result.
 - 1. QPM Report
 - 2. Asphalt Content or Voids include Form 1304's, 106's,
 - 3. Gradation
 - 4. Mat Density
 - 5. Joint Density
- Micro-Deval.
- Hydrated Lime.
- Rut Testing.

Repeat the same bookkeeping organization for the top mat of HMA. These need to be separated, especially if it is with a different asphalt binder.

405 Hot-In-Place Recycle

- Document in-place densities on Form #69 or computer-generated report, and a specific gravity test result for each density on Form #69.
- Asphalt Rejuvenating Agent, follow Item 411 requirements.

406 Cold Bituminous Pavement (recycle)

- In-place densities should be reported on CDOT Form 69.
- Gradations should be reported on CDOT Form 6.
- Free moisture should be documented on applicable forms, suggest using CDOT Form 6.
- Hveem Stability and Lottmans should be documented, and results filed behind CDOT Form 157.
- Asphalt Rejuvenating Agent and Asphalt Emulsion should follow Item 411 for documentation.

408 Joint and Crack Sealant

- Hot Poured (HMA only) Document on Form 157 that material is on APL, file APL review sheet behind Form 157. (ENSURE BATCH NUMBERS MATCH).
- Silicone (PCCP only) Document on Form 157 that material is on APL, file APL review sheet behind Form 157.

409 Cover Coat Material

- Submit samples per Field Materials Manual to an AASHTO Accredited Lab, and file results behind CDOT Form 157 used to submit samples.
- Report Gradations on Form 6.
- Report Fractured Faces on Form 6.

411 and test results Asphalt Binders and Emulsions

- Keep a Bill of Lading / COCs daily total of all material shipped with a running accumulative total.
- CDOT Forms 411. (Separate CDOT Form 411 by type of binder if you have several on the project.) Even if you do not ship a sample (i.e., like emulsion, and it is pre-approved), you still need to put the quantity on the correct form number for that item.

412 Portland Cement Concrete Pavement

- Follow the frequency outlined in the Project Documents and the Field Materials Manual. Review Item 601 for areas of commonality. Have separate sections as listed below.
- CDOT Form 1373, Concrete Mix Design Report.
- Air Contents, temperatures, yields, slumps, and water-cement ratios should be recorded on CDOT Form 156. This should be signed by Project Engineer as soon as reasonable to keep up to date with test results.
- Compressive and Flexural Strengths results should be filed behind CDOT Form 82 that samples were turned in for testing.

Note: Flexural strengths conducted by the Contractor should be filed behind CDOT Form 157 or other applicable Forms.

- Sand Equivalent test results should be filed behind CDOT Form 157.
- Pull Test for Tie bars (if applicable) should be filed behind CDOT Form 157.
- Tining and Saw Cut Depth test results should be filed behind CDOT Form 157.
- Pull Tests for Joint Sealants should be reported on CDOT Form 389.
- Portland Cement, follow Item 308 requirements.
- Joint Sealant, follow Item 408 requirements.
- Contraction Joint Plastic Strip: Field inspects and document on CDOT Form 157 that product is acceptable.
- Reinforcing Steel, Dowels, Tie Bar (follow Item 602).
- Provide the MIT Report.
- Smoothness.
- Other Items not listed; document as necessary on the CDOT Form 157.

420 Geosynthetics

- Geosynthetics, which includes Geomembranes, are accepted by COC. File copies behind a CDOT Form 157 stating material are acceptable and note that batch numbers match.
- Geotextiles are located on the New York State Approved Products List. Cross-reference this list and document behind a CDOT Form 157 stating material is acceptable and note that batch numbers match.
- Geogrids are accepted on a project-by-project basis. Geogrids that are used in conjunction with MSE walls need to be reviewed by Staff Bridge Design & Management Branch for acceptability. Geogrids that are used in conjunction with embankment and roadway need to be reviewed by the Soils & Geotech Program of the Staff Materials & Geotechnical Branch for acceptability. Document behind a CDOT Form 157 stating material is acceptable and note that batch numbers match.
- When Performance Graded Binders or Asphalt Cement is used, follow item 411 of the schedule requirements.

501 Steel Sheet Piling

- Sheet Piling is accepted by COC and Mill Tests Reports. File copies of each behind a Form 157 stating that the materials meet the specifications, and list the heat numbers, reference the mill test reports that are attached, and that the material is acceptable for use.
- Reinforced Sheet Metal Piling Tips should be on a separate CDOT Form 157, with the same information as above.

502 Piling

- Sheet Piling is accepted by COC and Mill Tests Reports. File copies of each behind a Form 157 stating the materials meet the specifications, and list the heat numbers, reference the mill test reports that are attached, and that the material is acceptable for use.
- Reinforced Sheet Metal Piling Tips should be approved by the Soils & Geotech Program of the Materials and Geotechnical Branch at CDOT, document this acceptance on CDOT Form 157.
- Piling, Buy America

503 Drilled Caissons

- Concrete should be documented the same as Item 601 of the Schedule.
- Reinforcing materials should be documented the same as Item 602 of the Schedule.

504 Soil Nail Wall

- Steel Cribbing should be accepted by CTR and Mill Tests. Document on CDOT Form 157 that material is acceptable and file all appropriate test results behind CDOT Form 157.
- Concrete Cribbing should be documented the same as Item 601 of the Schedule.
- Timber Cribbing should be documented the like Item 508 of the Schedule.

504 Mechanically Stabilized Earth Wall

- Have the following sections delineate the acceptance of the wall.
- Foundation Soils should be submitted to an AASHTO Accredited Laboratory for Direct Shear, Friction Angles, and possibly Moisture/Density Curves. File test results behind each CDOT Form 157 for each type of material that is encountered.

THIS SHOULD BE DONE RIGHT AWAY, AND BEFORE THE WALL IS BEING BUILT.

- Other Test's results should be recorded like Item 203, if applicable.
- Structure Backfill should be documented similar to Item 206.
- Reinforcing Elements are accepted by COCs, file behind CDOT Form 157.
- Facing Elements are accepted by COCs, file behind CDOT Form 157.
- Treated Timbers should be documented per Item 508 of the Schedule.
- All other miscellaneous items should be documented as applicable.

506 Rip Rap

- Test and record the specific gravity of the material, document on CDOT Form 157 that material was tested, and indicate general sizes and other applicable information.
- Bed Course Materials follow Item 206 instructions.
- Gabions and Slope Mattress are COC accepted. Document on CDOT Form 157 that the material is acceptable.
- Concrete and Reinforced Concrete, follow the Item 601 and 602 instructions.

507 through 518

• Follow the applicable directions for each item for documentation.

601 Structural Concrete

- CDOT Form 1188 (Mix Design Review Sheet), the approved mix designs should be filed behind the copy of Form 1188.
- CDOT Form 1373, Concrete Mix Design Report. Attach changes and approvals.
- CDOT Form 82 with the 28 days (or 56 days if applicable) compressive or flexural strength test results recorded on the CDOT Form 192 attached.
- CDOT Form 156 Signed by Project Engineer.
- Form 157 for curing compounds, water, and other incidental items.
- Price Reductions and explanations of deviations.
- Copy of the Structural Concrete Pre-Pour conference agenda. Do this for each class of concrete (i.e., Class B, D, etc.)

602 Reinforcing Steel

- Reinforcing Steel is accepted by CTR and Mill Tests Reports. Document and file in the project files, stating that the materials meet the specifications, and list heat numbers, reference the mill test reports that are attached, and that the material is acceptable for use.
- Reinforcing Steel, Buy America.

607 Fences

- Follow applicable directions for each sub-category as it is listed in the Field Materials Manual.
- For Masonry Sound Barrier Walls, call HQ or the designer for copies of the Universal Building Code sections covering the requirements for testing and sampling masonry walls. File test reports behind applicable forms relating to each test. (i.e., Prisms, grout, and mortar).

641 Shotcrete

- CDOT Form 1188 (Mix Design Review Sheet), the approved mix designs should be filed behind the copy of Form 1188.
- CDOT Form 1373, Concrete Mix Design Report.
- CDOT Form 82 with the 28-day compressive test results recorded on the CDOT Form 192 attached.
- CDOT Form 156 Signed by Project Engineer.
- CDOT Form 157 for curing compound, water, and other incidental items.
- CDOT Form 276 report of concrete placed.
- Price Reductions and explanations of deviations.
- Copy of the Contractor's Quality Control Plan.
- Document if pre-bagged.

Note 1: File the remaining Items by Item Number. Use the Field Materials Manual to determine what paperwork is appropriate for that item. Any items not listed above should have an adequate explanation in the Field Materials Manual.

Note 2: The "Special Notice to Contractors" describes in detail what is needed on both the COC and CTR. Look at this Notice to determine if a COC or CTR is the applicable acceptance method.

ATTENTION

All the referenced CDOT Materials Forms have been revised. All these forms state: *Previous editions are obsolete and may not be used*. The use of Materials Forms older than what is indicated is not authorized!

The examples of forms and some completed forms are in the chapter Materials Forms – Instructions & Examples of the FMM.

Note: The Local Agency Project Documentation Example:

https://www.codot.gov/business/designsupport/materials-and-geotechnical/manuals

CDOT Form 211

roject No. Project Code (SA#) COLORADO DEPARTMENT OF TRANSPORTATION STE C480-008 19219 MATERIALS DOCUMENTATION Date Region REQUEST 11/28/2017 5 Project Location Pinon Causeway to Aspen Village Drive Address: 0 John Doe Kryptonite LLC. 800 Airport Road Denver Colorado 80216

Upon reviewing the above project for Materials Certification purposes, during the Finals Materials Documentation Checking Procedure, the following items were found to have shortages in materials documentation. Please review these shortages and reply by: 12/13/2017

Please return the original CDOT Form 211, for tracking purposes, with the missing documentation by:

12/29/2017

Item	Description	Materials documentation needed	Date received
208-00007	Erosion Log (8 Inch)	Kryptonite to have City Environmental provide a COC as per CDOT Specification 106.12 (E-Mailed 1-11)	01/25/2018
208-00007	Erosion Log (gravel bag)	Kryptonite to have City Environmental provide a COC as per CDOT Specification 106.12 (E-Mailed 1-11)	01/05/2018
208-00007	Erosion Log (gravel bag)	Ryptonite to have City Environmental provide a CTR report as per CDOT Specification 105.13 (E-Mailed 1+11).	01/26/2018
613-40012	Concrete Class (BZ)	kryptonite to provide the APL/QML Selection Letter for Class BZ Concrete (Summary for Cement, Pozzolan, and Admixtures).	01/10/2018
Signature:		Title	Date
Project Engi	neer Digitally signed by 6 Date: 2022.04.01 1		01/31/2018
)istribution:		CDOT Form 211	04/202

CDOT Form 250, Page-1

Colorado Department of Transportation CDOT Form #250, 7/22	MATERIALS DOCUMENTATION RECORD	Project Code: Project Number:	23974 MTF C100-047 High Plains Trail/ Cherry Creek Trail
Version 1.3.3	Estimated Field Requirements for Minimum Materials Sampling, Testing, and	Location:	Connector Segment 1
	Inspection and Record of Field and Central Laboratory Documentation of	Region:	1
	Materials.	Date:	04/26/2022
		Contractor:	

PROJECT TO BE TESTED AND DOCUMENTED PER THE 2022 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 subcontractorsupon 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.

Page 1 of 35

CDOT Form 250, Page 2

Colorado Department of Transportation CDOT Form #250, 7/22 Version 1.3.3

Estimated Field Requirements for Minimum Materials Sampling, Testing, and Inspection and Record of Field and Central Laboratory Documentation of Materials. High Plains Trail/ Cherry Creek Trail Connector Segment 1 Date: 04/26/2022

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.

Version 1.3.3

7-01-2023

Documentation for CDOT MTCE & LA

CDOT Form 250 Page 3

Colorado Department of Transportation CDOT Form #250, 7/22 MATERIALS DOCUMENTATION RECORD

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

Project Code:	23974
Project Number:	MTF C100-047
	High Plains Trail/ Cherry Creek Trail
Location:	Connector Segment 1
Region:	1
Date:	04/26/2022
Contractor:	

Section 203 Embankment Material PROJECT TYPE OF PLAN TESTS ACCEPTANCE FINAL CENTRAL LABORATORY DESCRIPTION TESTS QUANTITY REQUIRED TEST REPORTED QUANTITY TEST FREQUENCY FORM # & FS# or S/N Embankment Material Construction Shear 47,644 Tests cubic yard cubic vard TESTABLE In-Place Density CDOT Form #212 cubic yard required cubic yard reported Moist-Den Curve 1 per soil type CDOT Form #24 (Date) 2 Soil Survey CDOT Form #219 Date Submitted: (Classification) 1per 2000 cubic yards Minimum 1 per source Embankment Imported Water-Soluble Sulfate Borrow Pit CDOT Form #323 >>> >>> cubic yards required imported 6 reported Imported Embankment: Each source, document compliance with 106.02 (b)

Page 3 of 35

7-01-2023

Documentation for CDOT MTCE & LA

CDOT Form 250 Page 4

Colorado Department of Transportation CDOT Form #250, 7/22 Version 1.3.3	MATERIALS DOCUMENTATION RECORD Estimated Field Requirements for Minimum Materials Sampling, Testing, and Inspection and Record of Field and Central Laboratory Documentation of Materials.	Project Code: Project Number: Location: Region: Date: Contractor:	23974 MTF C100-047 High Plains Trail/ Cherry Creek Trail Connector Segment 1 1 04/26/2022
	Constant 200 Eliter Motorial		

			Section 206	Filter Material					
TYPE OF PLAN TESTS FINAL CENTRAL LABORATORY									
DESCRIPTION	TESTS	QUANTITY	REQUIRED	QUANTITY	TEST FREQUENCY	FORM # & FS# or S/N			
					1 per source, per project				
Filter Material Class MECHANICAL	Gradation								
REINFORCEMENT OF SOIL	CDOT Form #6	2,717 cubic yard	28 required	cubic yard	required				
			reported						

Page 4 of 35

7-01-2023

Documentation for CDOT MTCE & LA

CDOT Form 250 Page 5

Colorado Department of Transportation CDOT Form #250, 7/22

Version 1.3.3

MATERIALS DOCUMENTATION RECORD

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

Project Code:	
Project Number:	
Location:	
Region:	
Date:	
Contractor:	

23974 MTF C100-047 High Plains Trail/ Cherry Creek Trail Connector Segment 1 1 04/26/2022

Section 304 Aggregate Base Course								
	TYPE OF	PLAN	TESTS	PROJECT ACCEPTANCE	FINAL	CENT	RAL LABORATORY	
DESCRIPTION	TESTS	QUANTITY	REQUIRED	TEST REPORTED	QUANTITY	FREQUENCY	FORM # & FS# or S/N	
Aggregate Base Course Class STABILIZED CRUSHER	Gradation and Atterberg Limits	45	1			1 per source per project		
FINES (4 INCH)	CDOT Form #6	ton	required reported	_	ton	required		
	In-Place Density CDOT Form #6		1 required reported					
	Moist-Den Curve CDOT Form #24 (Date)		1 per source					
	LA Abrasion (Class 4, 5, 6, & 7) CDOT Form #157		>>>	>>>		1 per source	CDOT Form #38 (Date)	
	R-Value: Min. Required		Reported					
	Designated Source? (Y/N)	<u></u>	Location					

Page 17 of 35

CDOT Form 379

	EPARTMENT OF TRANSPORT	ATION	Project	Code	Project N	0.	Page	System Basis
PROJECT INDEPENDENT				21117 STU M320-099			1 of 1	Y IN V
SURAN	ICE SAMPLING		Project Engineer R			Resident Engine	eer	
CHEDUL	E			John	Doe		Ja	ine Doe
			Project	Location	Martin Luthe	r King Blud	Extension Local Ag	No.
Item #	Identification &	amples	CDOT	Field	Date	Field	Indep. Assur.	
Quantity	Test Performed	Req.		Form #	Sheet #	M/D/		
304	Gradation	1	1.000 Mar. 10	565	100	04/28/202	22	JM
ABC Class 6	% Compaction	1		427	101	04/28/202	2	JM
5.786 CY								
306	% Compaction	2		427	101	04/28/202	2	SB
	le compaction	-				C HEOREON		
Record Loniong								-
59,892 SY								
			1					
412	Air Content	1	-	82	102	04/28/202	22	JM
PCCP	Slump	1		-	102	04/28/202		JM
		-	-	7				
35,292 SY	Strength	1			102	04/28/202	22	JM
			1					
					2.			
609	Air Content	1		82	102	04/28/202	22	SB
C&G	Slump	1			102	04/21/202	22	SB
22,570 LF		1			102	04/21/202	22	
					102	P		
						h		
						1		
roject Matils	Lab Inspected By: John Doe IA E	III T20		-)ate: 04/06/2022			
Developed By				-	Date:	In acco	rdance with Ite	m 620.03 and CP 1
verenoped by	John Doe IA E	PST III			04/05/2022			
The above sch	edule is an estimate of CDOT in		ssurance s	amples requir	ed on this pro	ject. The nur	nber of samples record	mmended is also the num
	test for the specific item in the	-	chedule for i	Independent /	Assurance Ev	aluation unle	ss otherwise noted.	
	t was independent except as r							
All Equi	pment was indep	endent	-					
nitial Review I	2012 - 10 10 10 10 10 10 10 10 10 10 10 10 10		ne: V07/2022	Appro	wed By:	-		Date:
ane Doe CDC Istribution:	of Engineer	04	_	endent assure		e Doe CDOT	this project has been	04/07/2022 substantially
RE	PO	ST:					in reasonably close a	
Region Mat	and the second se	Form #473		-			aceptions to this state	
Resident Er		Form #473		previously co r are explaine			ited when the test res	ults were
			-				and start.	
Project Tes	nul Put	•	FINA PLENT	ew by, (riegio	n Materials E	ngineer)		

04/2022

CDOT Form 1199, Page 1 of 2

roject no.	Contract ID		Acceptance Date
BR 0404-050	C18180		03/29/2022
roject Location JS 40 Over Sand Creek			Regic 4
ontractor	Project Engineer	Resident Enginee	2
All Contractors, Inc.	John Doe	Jane Doe	
Project Basis System Ba	asis 🗸 Progress Estimate n	umber: 03/09/20	22 (latest issue
n order for materials documentation to	be complete, the following items	need to be checked 100)%:
Final Quantities between Progress	Estimate and CDOT Form 250 aç	gree. (If different, it is note	əd)
Field Sheet/Serial number(s) on C	DOT Form 250 match project doo	cuments, of the item(s) c	hecked.
Tests required and tests reported	on the Form 250 agree. (If differ	ent, it is noted.)	
es no			
	I Sheet/Serial number(s) on CDC ptance tests, and if applicable, sh		
Ensure the correct number of	of tests on the CDOT Form 379.		
IA Witness tests did not exce	eed 20% of actual testing, for eacl	h test element.	
	e (QA)/Check Test differences are	0.00	
Region Materials Engineer a	ect Engineer and the Form 379 h and Project Review by signature c	of the Project Engineer.	
	rials records are required to be process, if applicable for this p		the finals
	sheets, etc. if used as the prima	2	the Explanation of
Progress Estimate (latest iss	(heu		
Random Sample Schedule			
	(with supporting documentation)		
QC/QA Data for Item: 403			
	teel products, All individual certifica		mmarv report included.
Evaluation of Materials Testi	20 V		, 1
view notes:			
Il documents required were incl DOT Form 473. Explanation of inals Materials Documentation (Exceptions was used as rec		
his is to certify that the review of the n	natorials documentation indicator	the documentation is as	mplata and accurate
ms is to certify that the review of the h me (Printed)	Name (signed)	Title:	Date:
im Doe		EPS	T III 03/09/20
tribution: Prev √ Resident Engineer, (included with Project Fir	vious editions are obsolete and may not be u	used. Page 1 of 2 Finals Engineer	CDOT Form #1199 03

CDOT Form #1199, Page 2 of 2

			T OF TRANSPORTATIO			ST, (REVI	EWor	AUDIT)	
Project N FBR 04		50		Contr C18	act ID <mark>180</mark>		Acceptan 03/17/2		
Residen	cy F	inals Review	Region Finals Aud	lit	Progress Estima	ate number:			
Major Iten	n 1.)		403		Major Item 2.)		206		
Major Iter	m 3.)		412		Major Item 4.)		203		
1.) 2.)	3.)	4.) In order for ı	materials documentation	to be co	mplete, the follow	/ing items need	to be check	ked:	
✓	✓	Final Quant	ities between Progress E	stimate	and CDOT Form :	250 agree. (If di	fferent, it is i	noted)	
✓	V	Field Sheet	/Serial number(s) on CD	OT Form	1 250 match proje	ct documents, o	of the item(s	s) checked.	
✓	 Image: A second s	Tests requi	red and tests reported or	n the Fo	rm 250 agree. (If	different, it is n	oted.)		
yes no		est(s) agree wit Ensure the corre A Witness tests ndependent (IA)	volved, Field Sheet/Seria n field acceptance tests, ct number of tests on the did not exceed 20% of a /Acceptance (QA)/Check	and if a e CDOT ctual tes < Test dit	pplicable, shortag Form 379. ting, for each tes ferences are exp	ges and except t element. lained.	ions are ex	plained.	ı
		Region Materia	d by the Project Enginee Is Engineer and Project F wing materials records nentation process, if a	Review b s are re	y signature of the quired to be att a	e Project Engine	er.		
			MCRs, field sheets, etc.				ithin the Ex	planation of	
		CDOT Form 325	, Final Estimate Data. (If r	not yet d	eveloped, indicat	e this in Review	Notes.)		
	F	Progress Estima	te. Note if a more recent	version v	vas used since th	e Project Closu	re.		
	<u> </u>	Random Sample	Schedule						
	_ F	Price reduction of	alculations.(with support	ting doc	umentation)	\frown			
	_	QC/QA Data for	, ,		icable Items)				
	-		ificate, for steel products, /			+ each month	y summary	report include	ed.
	E	valuation of Ma	terials Testing, Form 132	24 (per (CP 16).				
	egic		t discovered no prob me, and the order a					n which fina	als
This is	to c	ertify that the rev	view of the materials docu	umentati	on indicates the c	documentation i	s complete	and accurate	
Name (Pr			Name (sig	10.00		Title:	e complete	Date:	
Jon D	oe					EIT	5	03/17/20	022
			Previous editions are	obsolete ar	nd may not be used	Page 2	of 2 CDOT F	orm 1199 03	3/2022

CDOT Form 473LA

COLORADO DEPARTMENT OF TRANSPORTATION	Project No. STE C480-008	CDOT Region 3
FINAL MATERIALS	Contract ID 19219	Acceptance date 04/19/2022
CERTIFICATION	Project Location Pinon Causeway to Village Dr.	
FOR A LOCAL AGENCY PROJECT	Contractor Kryptonite Construction	

This is to Certify that:

The results of the tests on the acceptance samples indicate that the material incorporated in the construction work, and the construction operations controlled by sampling and testing, were in conformity with the approved plans and specifications; and such results compare favorably with the results of the Independent Assurance sampling and testing.

All results from the Independent Assurance sampling and testing are within tolerance limits of the results of sampling and testing that are used in the acceptance program.

Exceptions to the plans and specifications are explained on Explanation of Exceptions, #474. A CDOT Form #474 is always required to be attached to the #473.

The referenced documents below are attached with applicable signatures to this form in the order indicated.

Yes	No No	Explanation of Exceptions, Form #474, (as many pages as required.)
Ves	No No	Explanation of Exceptions, Supplemental Documents.

Yes No Materials Documentation Record, Form #250.

- Yes No Finals Materials Documentation Checklist, (Project Closure) Form #1199, page 1.

Yes No Finals Materials Documentation Checklist, (Review or Audit) Form #1199, page 2.

Approved by: Person in Respon	nsible Charge, Local Agency	Title:
Clark Kent	Digitally signed by Clark Kent Date: 2022.05.13 15:27:15 -06'00'	Project Engineer, Kryptonite Construction
Approved by: The Designated	CDOT Engineer	Title:
Project Engine	Or Digitally signed by Project Engineer Date: 2022.05.13 15:27:33 -05'00'	CDOT Project Engineer

Distribution:

- CDOT Resident Engineer 0: XC:
 - 1 LA Project Engineer / Project Manager 1
 - **CDOT Region Materials Engineer**
 - CDOT Local Agency Coordinator
 cdot_pavement.design@state.co.us

CDOT Form #473-LA Previous editions are obsolete and may not be used.

4/19

CDOT 473M

COLORADO DEPARTMENT OF TRANSPORTATION	Project No. M12345-01	CDOT Region 2	
FINAL MATERIALS	Contract ID 12345	Acceptance date 05/13/2022	
CERTIFICATION FOR A CDOT MAINTENANCE	Project Location I-25 South		
PROJECT	Contractor Kryptonite Construction		

This is to Certify that:

The results of the tests on the acceptance samples indicate that the material incorporated in the construction work, and the construction operations controlled by sampling and testing, were in conformity with the approved plans and specifications; and such results compare favorably with the results of the Independent Assurance sampling and testing.

All results from the Independent Assurance sampling and testing are within tolerance limits of the results of sampling and testing that are used in the acceptance program.

Exceptions to the plans and specifications are explained on Explanation of Exceptions, #474. A CDOT Form #474 is always required to be attached to the #473.

The referenced documents below are attached with applicable signatures to this form in the order indicated.

- Yes No Explanation of Exceptions, Form #474, (as many pages as required.)
- Yes No Explanation of Exceptions, Supplemental Documents.
- Yes No Materials Documentation Record, Form #250.
- Yes No Project Independent Assurance Sampling & Testing Schedule, Form #379.
- Yes No Finals Materials Documentation Checklist, (Project Closure) Form #1199, page 1.
- Yes No Finals Materials Documentation Checklist, (Review or Audit) Form #1199, page 2.
- Yes No Evaluation of Materials Testing, Form #1324. Attach only if Consultant Testing.

Approved by: Project Manag	er	Title:
Clark Kent (printed name and signature	Digitally signed by Clark Kent Date: 2022/05.15 15:16:08-08100*	Project Manager, Krytonite Construction
Approved by: Maintenance \$	Superintendent	Title:
Maintenance Superinte (printed name and signature	Den 2022.00.12 12.10.24 40.00	CDOT Maintenance Superintendent

Distribution:

o: Maintenance Superintendent xc: CDOT Maintenance Engineer

- CDOT Maintenance Engineer
- Region Materials Engineer
 Regions Final Engineer
- cdot_pavement.design@state.co.us
- Z Bentley Client Connection (PM Web Connection)

Previous editions are obsolete and may not be used.

CDOT Form #473-M

4/19

CDOT Form 474 with Letter of Exceptions Page 1

- 0.0			de la constante				
Colorado Departn	nent of Transportation	Contract ID:	19219 Magion: 3	Page 1 -f			
Final Mater	ials Certification	Project Acceptance Date:	04/40/2022	Page 1 of 4			
Explanatio	n of Exceptions	Project Number:	r: STE C480-008				
Owner Acceptance	Independent Assurance	Project Location:	Dinon Courseway to Village Dr.				
Innovative Contract	✓ Local Agency	Contractor:	Kryptonite Construction				
CDOT Maintenance	Other	Project Final D	ocumentation Completion Date:	04/40/2022			
Electronic signature of P	roject Tester		CDOT Consultant Company Name:				
John Doe	Digitally signed by John Doe Date: 2022.04.27 13:33:35 -06'00'	2225351154654					
CDOT Project Sampling and Testi		0					
	CAR - Quality	Level Reports					
FINAL CAR report	Data Reviewed	by:	Data Check	ked by:			
Asphalt Quality Level	Sectional Signature:		Electronic Signature:				
Concrete Quality Level	Sectronic Signature:		Electronic Signature:				
concrete quanty cever							
CP25- Not performed due t Based on the quantity of 2, fraction of the 113 CY. Base completed to cover the 113 Project Engineer Comments	based on T180D performed which to a small quantity and no change 113 CY (2 -T89 and T90's) shou ad on the results of test #1 -T89	a in material obsen thave been comp No Value) and the	ved. Neted. The second test woul T90 (Non-Plastic), the 2nd	ld have covered the test was not			
			Project Engineer Signature	tally signed by Pholect Engineer			
Consultant Firm Professional Er			Project Engineer 8	e: 2022.04.27 13:26:57 -06'00'			
On or before January 2020, all CDC electronic Sealing. Requests for es mechanical Seals being utilized wit	Tester or Project Engineer shall be signe ment is not acceptable, only electronic si DT, local agency and consulting Engineers comptions shall be submitted to the Chie th the reason why an electronic Sealing ci be on exemptions to the electronic Sealing	ignatures. shall utilize f Engineer prior to annot be used.	Consultant Firm Professional Engin				
On or before January 2020, all CDC electronic Sealing. Requests for ex mechanical Seals being utilized with Beginning January 2021, there will except where stated in section (V)	ment is not acceptable, only electronic si DT, local agency and consulting Engineers comptions shall be submitted to the Chief th the reason why an electronic Sealing c be on exemptions to the electronic Sealing (C) of the CDOT Policy Directive 508.1, R	ignatures. I shall utilize f Engineer prior to annot be used. ing requirement,					
On or before January 2020, all CDC electronic Sealing. Requests for ex mechanical Seals being utilized with Beginning January 2021, there will except where stated in section (V) THE USE OF THE PROFESSIONAL EP	ment is not acceptable, only electronic si DT, local agency and consulting Engineers comptions shall be submitted to the Chief th the reason why an electronic Sealing c be on exemptions to the electronic Sealing (C) of the CDOT Policy Directive 508.1, R NGINEER'S SEAL	ignatures. I shall utilize If Engineer prior to annot be used. Ing requirement, EQUIREMENTS FOR					
On or before January 2020, all CDC electronic Sealing. Requests for ex- mechanical Seals being utilized with Beginning January 2021, there will except where stated in section (V) THE USE OF THE PROFESSIONAL EF See FMM Documentation chapter	ment is not acceptable, only electronic si DT, local agency and consulting Engineers comptions shall be submitted to the Chief th the reason why an electronic Sealing c be on exemptions to the electronic Sealing (C) of the CDOT Policy Directive 508.1, R	ignatures. I shall utilize If Engineer prior to annot be used. Ing requirement, EQUIREMENTS FOR ation					

CDOT 474 with Letter of Exceptions page 2

04/19/2 STE C480-0 Pinon Caus Kryptonite C ocumentation Cor DOT Consultant Comp DOT Consultant Comp DOT Consultant Comp	008 seway to ` Construction mpletion Date	on 04/12/2022
Pinon Caus Kryptonite C ocumentation Cor DOT Consultant Comp DOT Consultant Comp Bectronic Signature:	Seway to Construction mpletion Date pany Name:	on 04/12/2022
Kryptonite C ocumentation Cor DOT Consultant Comp DOT Consultant Comp Biochronic Signature:	Construction mpletion Date pany Name:	on 04/12/2022
Coursentation Con DOT Consultant Comp DOT Consultant Comp DOT Consultant Comp DOT Consultant Comp DOT Consultant Comp DOT Consultant Comp	mpletion Date pany Name:	. 04/12/2022
DOT Consultant Comp DOT Consultant Comp Electronic Signature:	pany Name:	
Electronic Signature:		ked by:
Electronic Signature:	Data Chec	ked by:
Electronic Signature:	Data Chec	ked by:
Electronic Signature:	Data Chec	ked by:
Miles and		n Marana Ang
Electronic Signature:		
Project En	ngineer Dig	itally signed by Project Engin te: 2022.04.27 13:31:54 -06'0
Consultant Firm Pro	ofessional Engin	neer Electronic Signature
Consultant Firm Pro	ofessional Engin	ieer Electronic Signature
TERMAN .		
TERMAN .		neer Electronic Signature
TERMAN .		
	Project Specials sp t taken, the SMM i td. 2- The CP-44 t f placement. A tol) representing 500	Contractors utilizing the same mi ere not performed on phase 2 but Project Specials specified the level t taken, the SMM sample (SMITH- d. 2- The CP-44 test was comple if placement. A total of 9,219 tons) representing 500 tons, 3 process) representing 500 tons, 3 process Project Engineer Signature Project Engineer Dig

CDOT 474 with Letter of Exceptions Page 3

Colorado Depart	tment of Transportation	Contract ID:	19219	Region	3		
Final Mate	Project Acceptance Date:	04/19/2022			Page 3 of 2		
Explanati	Project Number: STE C480-008						
Owner Acceptance	Project Location:	Pinon Cau	seway	to V	/illage D	r.	
Innovative Contract	✓ Local Agency	Contractor:	Kryptonite (Constru	ictio	n	
CDOT Maintenance	Other		ocumentation Co			04/12	/2022
Electronic signature o John Doe	f Project Tester Digitally signed by John Doe Date: 2022.04.27 13:36:32 -06'00'	If Applicable enter the C	DOT Consultant Com	pany Name:	3		
DOT Project Sampling and Te		0					
and the second second	CAR - Quality	y Level Reports	6	STO AL	n e	50.804 mm	
FINAL CAR report	Data Reviewed	by:		Data Ch	neck	ed by:	
Asphalt Quality Level	Electronic Signature:		Electronic Signature:				
Concrete Quality Level	Electronic Signature:		Electronic Signature:				
CP58- Contractor followed The mean mat density for t tem 601-01000 Concrete C tem 603-10120 12 Inch Co Pipe placed under sidewal	k with a small amount of structure ba	t any indication of te mean mat density w nall quantity (1.3 C) ockfill-mostly for bed	vas a 93.6% Y), material plac Iding of pipe. Te	ed in the	head	dwall of pip	e. med du
CP58- Contractor followed The mean mat density for t tem 601-01000 Concrete C tem 603-10120 12 Inch Co Pipe placed under sidewal to the small area of placem See attached picture. Project Engineer Comments	best paving practices. There was not he bottom mat was 93,3%. For mat r Class B: Visual inspection due to a sr prugated Steel pipe.	t any indication of te mean mat density w nall quantity (1.3 C) ind kill mo stly for bed immed by the contract	vas a 93.6% Y), material plac Iding of pipe. Te ctor and the Pro	esting cou oject Engi	head	dwall of pip It be perfon accepted if	e. med du t visuall
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CP58- Contractor followed The mean mat density for t tem 601-01000 Concrete C tem 603-10120 12 Inch Co Pipe placed under sidewal to the small area of placem See attached picture. Project Engineer Comments I have reviewed the Letter Consultant Firm Professional Instructions: Signature of Proje are complete. Hand signed doc On or before January 2020, all C electronic Sealing. Requests for	best paving practices. There was not he bottom mat was 93.3%. For mat r Class B: Visual inspection due to a st prugated Steel pipe. k with a small amount of structure ba- ent. The compaction effort was perfor r of Exceptions and found everythin Engineer Comments:	t any indication of te mean mat density w nall quantity (1.3 C) ockfill mostly for bed imeer by the contract of the contract ing in order.	vas a 93.6% Y), material plac Iding of pipe. Te ctor and the Pro	sting cou oject Engi gnature nginee	r Digh Engine	dwall of pip t be perfor accepted if ally signed by Pr : 2022.04.27 13	e. med du t visually oject Engin 36:52-060
CP58- Contractor followed The mean mat density for t tem 601-01000 Concrete C tem 603-10120 12 Inch Co Pipe placed under sidewal to the small area of placem See attached picture. Project Engineer Comments I have reviewed the Letter Consultant Firm Professional Instructions: Signature of Proje are complete. Hand signed doc On or before January 2020, all C electronic Sealing. Requests for mechanical Seals being utilized v Seginning January 2021, there w	best paving practices. There was not he bottom mat was 93.3%. For mat r Class B: Visual inspection due to a st prugated Steel pipe. k with a small amount of structure ba- ent. The compaction effort was period or of Exceptions and found everythin ent. The compaction effort was period or of Exceptions and found everythin Engineer Comments:	t any indication of te mean mat density w nall quantity (1.3 C) tokfill mostly for bed imeer by the contract ing in order.	vas a 93.6% Y), material plac Iding of pipe. Te ctor and the Pro Project Engineer Si Project Er	sting cou oject Engi gnature nginee	r Digh Engine	dwall of pip t be perfor accepted if ally signed by Pr : 2022.04.27 13	e. med du t visually oject Engin 36:52-060
Consultant Firm Professional Consultant Signature of Proje Consultant Signate Signate Signate Signate Signate Signate Signate Signate	best paving practices. There was not he bottom mat was 93.3%. For mat r Class B: Visual inspection due to a st prugated Steel pipe. k with a small amount of structure ba- ent. The compaction effort was period or of Exceptions and found everythin ent. The compaction effort was period or of Exceptions and found everythin Engineer Comments:	t any indication of te mean mat density w nall quantity (1.3 C) tokfill mostly for bed imeer by the contract ing in order.	vas a 93.6% Y), material plac Iding of pipe. Te ctor and the Pro Project Engineer Si Project Er	sting cou oject Engi gnature nginee	r Digh Engine	dwall of pip t be perfor accepted if ally signed by Pr : 2022.04.27 13	e. med du t visually oject Engin 36:52-060

CDOT 474 with Letter of Exceptions page 4

Colorado Department of Transportation Final Materials Certification		Contract ID:	19219	Region: 3	Dago	1	
		Project Acceptance Date:	04/19/	2022	Page	4 of	4
Explanation of Except	Project Number:	r: STE C480-008					
Owner Acceptance Indep	Owner Acceptance Independent Assurance Project Location: Pinon Causeway			seway to \	Village	Dr.	
Innovative Contract	Agency	Contractor:	or: Kryptonite Construction				
CDOT Maintenance Othe	r	Project Final D	ocumentation Co	mpletion Date:	04/	12/202	22
John Doe Digitally sign John Doe	ned by John Doe 04.27 13:39:47 -06'00'	If Applicable enter the C	CDOT Consultant Com	pany Name:			
CDOT Project Sampling and Testing by Consulta	nt: YES N	0					
the filterative second	CAR - Quali	ty Level Report	ts	0.000	CO. TO MA		
	Data Reviewed	by:		Data Check	ed by:	ŝ.	
Asphalt Quality Level			Electronic Signature:				
Concrete Quality Level			Electronic Signature:				
Item 601-01000 & 608-00010- Concrete Co The small quantity used on both of these it Item 627-00008 and 627-30405 Pavement Two records were completed on each item	tems, material visual Marking Materials	1	Project Engineer				
Project Engineer Comments I have reviewed the Letter of Exceptions	and found everythin	ng in order.	Project Engineer Sig Project Er		tally signed b	w Project En 7 13:40:07 -0	igineer 36'00'
Consultant Firm Professional Engineer Comme	ents:	28					
Instructions: Signature of Project Tester or Project Engineer shall be signed after explanations							
are complete. Hand signed document is not accept	otable, only electronic si	gnatures.					
On or before January 2020, all CDOT, local agency and consulting Engineers shall utilize electronic Sealing. Requests for exemptions shall be submitted to the Chief Engineer prior to mechanical Seals being utilized with the reason why an electronic Sealing cannot be used. Beginning January 2021, there will be on exemptions to the electronic Sealing requirement, except where stated in section (V) (C) of the CDOT Policy Directive 508.1, REQUIREMENTS FOR THE USE OF THE PROFESSIONAL ENGINEER'S SEAL See FIMM Documentation chapters - After Construction - for more information						nic Stamp	1
All CAR - Quality Level Reports mus							
	this form are obsolete and n		1	00	OT Form 474	02/2022	2

CDOT Form 157

				FS# = (C	Contract ID-Seq.#)
COLORADO DEPARTMENT			Region 1	1995	57 _ 6191
FIELD REPORT FOR SAMPLE IDENTIFICATION			Contract ID	Date Subm	
OR MATERIALS DO	19957		05/11/2021		
Taka basa da chi ata bata bata			Project No.	Sector sector	-2010-11-1
			10000	NHPP-287	3-172
			Project Location		the first second second
			Federal E	Blvd 6th to Howa	ard Re-Construction
Material Type			Field Lab phone	Cel	Phone
Pavement Markings			Theid Lab phone	Cel	i indie
Material Code (LIMS)	Item	Class	Grading		- 12 C
and the second static strategy and	627		A Contractor	Special P	rovisions yes
Previously used on Project No.:	58) - 9-12-4-6	Previous CDOT Form 1	57 F/S No.(s):		CDOT Form #633 (sack)
					CDOT Form #634 (can)
 Sample Identification: Quantity & I 	Jnit of material subr	nitted, describe tests required	precise location sar	mple remove from (Stationing), etc.
 Materials Documentation: Field in 	spected (describe a	ppearance, weight/dimension	s, model/serial numb	per), COC &/or CTF	t provided etc.
All material has been ins	pected and a	approved by the pro	ect engineer	per use on F	ederal Blvd.
Submitted on 03/08/2019			-		
Please see Attached per	estimate #0	23.			
Total submitted 3100 ga					
Total submitted 5100 ga	IIUII5.				
		1/1			
			<u> </u>		
	255	Central Lab use on		10000	
Sample ID (#1)	San	nple ID (#2)		ample ID (#3)	
N/A		N/A			N/A
Sample ID (#4)	San	nple ID (#5)	3	ample ID (#6)	
N/A		N/A			N/A
APL/QML Acceptance: APL Ref. No.	Product nam				Date checked:
4057-16	100000000000000000000000000000000000000			-	03/08/2019
APL/QML Acceptance: APL Ref. No.	Ennis Fli Product nam				Date checked:
APLIQME Acceptance: APL Ref. No.	Product nam	ne.			Date checked.
					Date needed
Preliminary	Construction	Maintenance	Emergency	4	Date needed
				75	
Contractor		Supplier			
AMES		N/A			
Sampled from		Pit name or	owner		
(Pit, roadway, windrow, stock, etc.) N/A		N/A			
Quantity represented	j Pi	revious quantity		Total quantity to o	date
3100 Gallons		0			100 Gallons
	specified quantity t			-	Date
			0	aultant lab	114.0
Yes V No	Central la	Ib Region lab	E-mai	nsultant lab	
Sampled or inspected by (print name)		a second s	C-ma		
K Walker	S desired as	Technician			
Supervisor (Pro/Res/Matis, Engr/Maint, Sup	t.) (print name)	Title		lency	
James Geist		Professional Engineer	for Denver		
James Geist Distribution: Chemical Lab: cdot_chemi	ab@state.co.us	Professional Engineer Physical Properties: cdot_php			CDOT Form157 04/2022

Previous editions are obsolete and may not be used.

CDOT Form 1324

COLORADO DEPARTMENT OF TRANSPORTATION	Region:	Residency:				
CP 16, EVALUATION OF	Contract ID:	1 Region 1 Local Agency Contract ID: Date				
MATERIALSTESTING	05/11/2022					
The contractor, consultant and head tester should be interviewed prior	The contractor consultant and head taster should be been level and a					
to completing this form. There should be a final meeting with the consultant to review strengths and weaknesses.	to completing this form. There should be a final meeting with the					
	Fed	eral Blvd 6th to Howard Re-Cons	truction			
Name of Consultant Company:		Name of Consultant Tester:				
Kryptonite Construction		John Doe				
PROJECT TESTER						
Evaluation Factors: Rat	ings: (5) very g	cod, (4) good, (3) average, (2) below ave	rage, (1) poor			
1. Knowledge of test procedures			4			
2. Following test procedures			4			
Knowledge of project specifications			5			
Following project specifications			3			
5. Test result distribution			5			
6. Following protocol for failing tests			5			
7. Following instructions / directions of CDOT manageme	ent staff		4			
8. Paperwork / documentation (during construction)			3			
9. Final paperwork / documentation (after construction)			4			
10. Time management			5			
11. Scheduling I.A. testing			4			
12. Attendance at weekly / required meetings						
13. Housekeeping / field lab organization						
14. Test equipment maintenance			4			
15. Proficient in SiteManager LIMS software program (co	OT FWW SMALL	MS Section 9.0)	5			
Subtotal: 65.0	\sim	Tester Final Rating	4.3			
CONSULTANT MANAGEMENT SUPPORT	-					
Evaluation Factors:	Rati	NGS: (5) above standard, (3) standard, (1) below standard			
1. Quality			5			
2. Timeliness			5			
3. Price / Budget		-	3			
4. Business Relations / Customer Service			5			
5. Deliverables / Requirements			5			
Subtotal: 23.0	3	Consultant Firm Final Rating	4.6			
Note: Description of the factors can be	found in CP	16. Subsection 3.8.3				
Reier Corments on wheread walkatteriadore:	Journal III OF	of careful of the				
The Consulting Firm has met all of the Local Age	ncy require	ments.				
Refer Project Engineer Digitally signed to Design 2022/05/24	y Project Engineer 10:25:08-06:00	^{Dem} 05	/11/2022			
AME Consents on referenced evaluation factors: The final review was completed and Concur with the Project Engineer found the	Consulting Firm	has met all of the Local Agency requirements	s in a timely manner.			
Reviewer Rull (Region Materials Engineer Enginee	igion interestaile. 25:30 - amort	Center Z Date: 05	5/12/2022			

Copy distribution: Project Engineer (Original), Consultant, Region Materials Engineer, Central Laboratory (Documentation Unit) Previous editions of this form are obsolete and may not be used. CDOT Form #1324 63/2022