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Ordinance No. 24616

**AN ORDINANCE AMENDING TITLE 11, TULSA REVISED ORDINANCES, ENTITLED “PUBLIC WORKS DEPARTMENT” BY AMENDING CHAPTER 10, ENTITLED “STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION” BY AMENDING SECTION 1000 AND SECTION 1001; PROVIDING FOR SEVERABILITY; REPEALING ALL ORDINANCES OR PARTS OF ORDINANCES IN CONFLICT HERewith AND ESTABLISHING AN EFFECTIVE DATE.**

**BE IT ORDAINED BY THE CITY OF TULSA:**

*Section 1. Amendment of Title 11, Chapter 10. That Title 11, Chapter 10, Tulsa Revised Ordinances, entitled “Standard Specifications for Highway Construction” be and the same is hereby amended and shall recite in its entirety as follows:*

**“CHAPTER 10. STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION**

Section 1000. Adoption of State Standard Specifications.

Section 1001. Additions, Revisions, Deletions and Exceptions.

**SECTION 1000. ADOPTION OF STATE STANDARD SPECIFICATIONS.**

That certain document, a bound copy and electronic copy of which has been filed in the Office of the City Clerk of the City of Tulsa, being marked and designated as Standard Specifications for Highway Construction, 2019 Edition, as published by the Oklahoma Department of Transportation, is hereby adopted as the standard specifications for public improvement projects for the City of Tulsa with the additions, revisions, deletions and exceptions as set forth in SECTION 1001 of this chapter.

**SECTION 1001. ADDITIONS, REVISIONS, DELETIONS AND EXCEPTIONS.**

**1001.A. The following definitions, listed as numbered in the 2019 Edition of the Standard Specifications for Highway Construction, are hereby revised and amended for all sections of this chapter as follows:**

**101.03. Abbreviations and Acronyms.** In Table 101:1, add the following abbreviations and expressions:

- ADA - American with Disabilities Act, excluding Chapter 500
- ADA – Adjusted Daily Average, when used in Chapter 500
- ADAAG - American with Disability Act Accessibility Guidelines
- COT - City of Tulsa

- PROWAG – Public Rights-of-Way Accessibility Guidelines

**101.05. Definitions.** Add the following subsections:

- “**101.05.CY. City of Tulsa (COT).** The City of Tulsa, Oklahoma, a municipal corporation acting by and through its duly authorized officers and agents.”
- “**101.05.CZ. Non-Collusive Bidding Certificate.** Replace all references to ‘Non-Collusive Bidding Certificate’ with ‘Non-Collusion Affidavit’.”
- “**101.05.DA. Qualified Products List (QPL).** All references to ‘ODOT Traffic Engineering Division Qualified Products List (QPL)’ or ‘QPL’ shall mean ‘the City of Tulsa, Traffic Engineering Division Approved Products List’.”
- “**101.05.DB. State Construction Engineer.** The City Engineer of the City of Tulsa or authorized designee.”

**101.05.A. Acceptance Date.** Delete section.

**101.05.V. Commission.** Replace definition with “The City of Tulsa, Oklahoma, a municipal corporation acting by and through its duly authorized officers and agents.”

**101.05.Y. Contract.** Replace definition with “The written agreement between the City of Tulsa and the Contractor setting forth obligations of the parties thereunder, including, but not limited to, the performance of the work, the furnishing of labor and materials, and the basis of payment.

The Contract includes the Notice to Bidders, Proposal, Contract Form, all Contract Bonds, Specifications, Special Specifications, Special Provisions, all Plans, Work Orders and Change Orders that are required to complete the construction of the work in an acceptable manner, including authorized extensions.”

**101.05.AG. Department.** Replace definition with “The City of Tulsa, Oklahoma, a municipal corporation acting by and through its duly authorized officers and agents.”

**101.05.AI. Director.** Replace definition with “The Director of the Engineering Services Department or the Director of any successor department which has the responsibility for general engineering services for the City of Tulsa.”

**101.05.AL. Engineer.** Replace definition with “The City Engineer of the City of Tulsa or authorized designee.”

**101.05.AO. FAST Guide.** Replace definition and all references to “FAST Guide” with “City of Tulsa Acceptance Sampling/Testing Standard Specifications.”

**101.05. AT. Holiday.** Replace definition with “Days declared to be holidays for regular Civil Service employees of the City of Tulsa.”

**101.05.AV. Inspector.** Replace definition with “The City of Tulsa’s authorized representative assigned to inspect the work.”

**101.05.BF. Materials Division.** Replace definition with “The Director of the Engineering Services Department or the Director of any successor department which has the responsibility for general engineering services for the City of Tulsa.”

**101.05.BG. Materials Engineer.** Replace definition with “The City Engineer of the City of Tulsa or authorized designee.”

**101.05.CC. Right-of-Way.** Replace definition with “Right-of-Way or ROW shall mean the surface, the airspace above ground, and the area below the surface of any public street, highway, parkway, lane, path, alley, sidewalk, boulevard, drive, bridge, tunnel, stormwater drainage system, easement, park, or similar property in which the City of Tulsa now or hereafter holds a property interest and/or a maintenance responsibility which, consistent with the purposes for which it was granted or dedicated, may be used to install, operate and maintain facilities.”

**101.05.CD.(16). Sidewalk/Bicycle Path.** Add the following sentence to the existing definition: “Refer to the Revised Ordinances of the City of Tulsa, Title 37 – Tulsa Traffic Code, Chapter 1 and Chapter 10 for definition of bicycle.”

**101.05.CH. State.** Replace definition with “The City of Tulsa, Oklahoma, a municipal corporation acting by and through its duly authorized officers and agents.”

**101.05.CS. Traffic Engineering Division.** Replace definition with “The City of Tulsa Traffic Engineering Division or any successor division which has the responsibility for traffic engineering services for the City of Tulsa.”

**1001.B. City of Tulsa exceptions and amendments to the following provisions, listed as numbered in the 2019 Edition of the Standard Specifications for Highway Construction, are hereby revised, amended and described as follows:**

**102.01. Pre-Qualification.** Delete text of section, and replace with “The City of Tulsa requires General / Prime Contractors to be Prequalified according to Title 11, Chapter 11 of the Revised Ordinances of the City of Tulsa.”

**102.04. Refusal of Proposals.** At the end of the bulleted list, add the following bulleted list item: “The bidder has failed to comply with Small Business Enterprise requirements of a previous City of Tulsa contract.”

**102.06. Examination of Plans, Specifications, Special Provisions, and the Work Site.** Replace the fourth paragraph with “The City of Tulsa may have boring logs and subsurface reports used in determining design criteria. Bidders may request to inspect these documents, relevant to the currently advertised project, by contacting the Contract Administrator at the following address during normal business hours:

City of Tulsa  
Engineering Services Department

2317 S Jackson Ave  
Tulsa, OK 74107”

**102.08. Nonresponsive Proposals.** At the end of the bulleted list, add the following bulleted statement: “The bidder does not properly comply with Small Business Enterprise requirements in accordance with the Proposal Forms.”

**102.10. Delivery of Proposal.** Delete text of section, and replace with the following:

“Each bid Proposal shall be completed electronically on the electronic media provided, then printed, signed and submitted along with the electronic media and the complete bound copy of the contract documents or as instructed in the Notice to Bidders. In the event of a discrepancy between the pricing on the electronic media and the hard copy of a Proposal, the hard copy pricing will govern. If an electronic media is not provided, and the bid Proposal is manual, the bid Proposal shall be submitted in ink. The written words shall govern over the figures. Erroneous entries shall be lined out, initialed by the bidder, and the correct entry inserted. The unit price bid must cover all expense for furnishing the labor, materials, tools, equipment, and apparatus of every description to construct, erect, and furnish all work required by and in conformance with the Plans and Specifications.

Each bid shall be enclosed in a sealed envelope addressed to

City Clerk’s Office  
The City of Tulsa  
One Technology Center  
175 E. 2<sup>nd</sup> Street, Suite 260  
Tulsa, Oklahoma 74103

or as otherwise instructed in the Notice to Bidders, and identified on the outside with the words:

‘PROJECT NO. \_\_\_\_\_,  
Pre-qualification Certificate Number \_\_\_\_\_.’

All addenda to the contract documents shall accompany the bid when submitted.

Any bid received more than ninety-six (96) hours excluding Saturdays, Sundays and holidays before the time set for the opening of bids, or any bid received after the time set for opening of bids, shall be considered “non-responsive” and shall be returned unopened to the bidder.”

**102.13. Public Opening of Proposals.** Delete text of section, and replace with “Proposals shall be publicly opened and read on the date and at the hour and place set forth in the advertisement and Notice to Bidders in the manner established by the City of Tulsa.”

**102.16. Non-Collusive Bidding Certification.**

- Replace the Non-Collusion Bidding Certification form with the following City of Tulsa Non-Collusion Affidavit form:



**103.08. Approval of Contract.** Delete text of section, and replace with “The Contract shall not be binding upon the City of Tulsa until it has been executed and approved in the manner set forth in the Tulsa City Charter.”

**104.01. Purpose of Contract.** After the first two (2) sentences, delete the rest of the section.

**104.07. Maintenance of Traffic.** Revise the first sentence to recite "Keep all roads, sidewalks, and bicycle paths open to all traffic as shown on the plans."

**105.17. Project Completion and Acceptance.** At the beginning of the section add, “This section does not apply to Infrastructure Development Projects (IPDs). For IDPs, refer to Title 35 of the Revised Ordinances of the City of Tulsa.”

**105.17.B. Project Completion.** In the first sentence of the last paragraph, replace “The Resident Engineer will” with “The Resident Engineer may”.

**105.17.C. Final Acceptance.** Delete text of section, and replace with “ Final Acceptance is the date on which the Request for Action (RFA) for final payment has been signed by the Mayor of the City of Tulsa.”

**106.01.A. Material Acceptance.** At the end of this section, add the following paragraph: “For conflicts among ODOT Standard Specifications, ODOT Standard Materials Test Methods, and City of Tulsa Acceptance Sampling/Testing Standard Specifications, the City of Tulsa Acceptance Sampling/Testing Standard Specifications shall take precedence.”

**106.01.B. Buy America.** Delete Section.

**106.04.D. Distribution of Certifications.** Delete text of section, and replace with “The Contractor shall submit certifications to the Engineer with another copy mailed to:

Field Engineering  
City of Tulsa  
Engineering Services Department  
2317 S Jackson Ave  
Tulsa, OK 74107”

**106.05. Plant Inspection.** In this section, replace all references to “Oklahoma City” with “Tulsa.”

**106.11. Guarantees and Warranties.** In the first paragraph replace “six months” with “twelve months” and “six-month” with “twelve-month”.

**107.01. Laws, Rules, and Regulations to be Observed.** At the end of this section add the following:

“The contractor shall certify that it and all of its Subcontractors to be used in the performance of the Contract are in compliance with 25 O.S. Sec. 1313 and participate in the Status Verification System. The Status Verification System is defined in 25 O.S. Sec. 1312 and

includes but is not limited to the free Employee Verification Program (E-Verify) available at [www.dhs.gov/E-Verify](http://www.dhs.gov/E-Verify).

The Contractor shall take the necessary actions to ensure its facilities are in compliance with the requirements of the Americans With Disabilities Act (ADA). It is understood that the Contractor's internal ADA program is not a program or activity of the City of Tulsa. The Contractor agrees that its program or activity will comply with the requirements of the ADA. Any costs of such compliance will be the responsibility of the Contractor. Under no circumstances will Contractor conduct any activity which is not in compliance with the ADA."

**107.06. Barriers, Barricades, and Warning Signs.** Before the first paragraph, add "In this section, the term "traffic" includes vehicular, pedestrian and bicycle traffic."

**107.14. No Waiver of Legal Rights.** Delete section.

**107.19. Regulated Floodways.** At the end of the section, add "The Contractor shall also follow the requirements of Title 11A of the Revised Ordinances of the City of Tulsa."

**107.20. Stormwater Management.** After the first sentence, add "The Contractor shall also follow the requirements of Title 11A of the Revised Ordinances of the City of Tulsa."

**108.01. Subletting of Contract.** Delete the last sentence of the first paragraph.

**108.02. Notice to Proceed and Preconstruction Conference.** Delete the first sentence in the second paragraph, and replace with "After the Contractor and Resident Engineer hold a preconstruction conference, the Contractor shall receive a Notice to Proceed before the start of construction."

**108.07.B.(1) Extensions for Adverse Weather.** After the first sentence in the second paragraph, add "Extensions of Contract Time will not be granted if conditions exist such that the Contractor could work at least 4 hours."

**108.07.B.(3). Winter Time Suspension.** Delete section.

**108.08. Incentive/Disincentive for Early/Late Completion.** Delete section.

**108.09. Failure to Complete on Time.**

- In the first sentence, delete "in accordance with Table 108:1, 'Schedule of Liquidated Damages.'"
- Delete Table 108:1.

**109.04.B.(3). Equipment.**

- In first paragraph, delete the last two sentences, and replace with the following:

"The Department will determine the maximum allowable rate as listed in the most current edition of the *Heavy Construction Costs with RSMMeans data*, published by The Gordian

Group. The Department will calculate the hourly rental rate in accordance with the following equation:

$$H = [(M \times R) / 176] + O$$

Where

H = Hourly rental rate,  
M = Monthly rental rate,  
R = City cost index / 100, and  
O = Hourly operating cost.

- In the second paragraph, delete the last two sentences.

**109.04.B.(4)(f). Employee Fringe Benefits.** Delete text of section, and replace with “The City of Tulsa will not pay for the additional costs of employee fringe benefits incurred by the Contractor for labor during the period the disputed work was in progress.”

**109.06. Progress Payments.** Revise the first sentence of the second paragraph to recite “The Resident Engineer will make monthly progressive estimates.”

**109.08. Final Payment.** Delete last paragraph, and replace with “If the Contractor does not sign and return the Final Estimate within 90 days of receipt, the Engineer may start action to administratively close the project.”

**109.10.A. Recoverable Costs.** Delete section.

**201.04.A. Clearing.** Delete the fourth sentence of the first paragraph, and replace with “Remove branches that overhang the roadway to at least 20 ft [6 m] above the road surface and at least 35 ft [11 m] above the road surface at traffic signals.”

**201.06. Basis of Payment.** In this section, delete all references to “Lump Sum”, and replace with “Square Yard [Square Meter]”.

**202.04. Construction Methods.** In the second paragraph delete, “If the contract requires ground disturbance greater than one acre total.”

**202.04.D.(2). Mandatory Sources Designated on the Plans.** Delete sentence, and replace with “If the Plans show the source of selective subgrade topping, excavate the material at the specified source, haul to the specified location, and place.”

**202.05.A. Unclassified Excavation.** Delete the second sentence of the first paragraph.

**209.04. Construction Methods.** At the end of the second paragraph, add the following: “Clean inlet and outlet channels within the right-of-way.”



**220.04.C. Contractor Responsibilities for SWPPP.** In the first sentence of the second paragraph, replace “recommended” with “required”.

**220.04.H.(3). Earthwork Operations.** Delete first paragraph, and replace with “Protect excavation or embankment slopes as construction progresses with placement of temporary (e.g. seeding, mulching, soil retention blankets, or other approved soil stability), or permanent (e.g. seeding, sprigging, or sodding) erosion control measures. Obtain approval from the Resident Engineer in the preconstruction schedule for any increase or decrease in the amount of the area exposed by construction operations. No exposed area shall remain unprotected without being stabilized. Install temporary or permanent erosion or sediment control measures on excavation or embankment slopes as work progresses in vertical increments of not more than 10 ft [3 m] unless otherwise directed by the Resident Engineer.”

**220.05. Method of Measurement.** In the bulleted list, delete the sixth bulleted item.

**221.01. Description.** In the last sentence, replace “OOPDES” with “OPDES”.

**221.02. D. Temporary Sediment Filter.** Revise the first sentence to recite “Provide fiber log for Type I-A and I-B sediment filter in accordance with Subsection 221.02.H, ‘Temporary Fiber Log.’ Provide material for Type I-C sediment filter in accordance with Subsection 221.02.C, ‘Temporary Silt Fence.’”

**228.02. Materials.** For the first item listed in the table, delete “Nylon”.

**230.01. Description.** Delete “Bermuda”.

**230.02. Materials.** Delete all references to “Bermuda” from this section.

**231.04.C.(1). Planting Seasons and Weather Restrictions.** In the first sentence of the second paragraph, replace “suspend” with “Suspend”.

**317.04.A. Mix Design and Proportioning.** In the bulleted list, insert “•” before “Compressive strength at 7 days”.

**317.04.F. Acceptance.**

- Delete the first paragraph.
- At the end of the second paragraph add “Failure to reach strength between 600 psi [4,150 kPa] and 2,000 psi [13,800 kPa] will result in rejection of the work.”

**317.06. Basis of Payment.** Delete the third and fourth paragraphs and Table 317:1. Replace with the following: “ODOT Acceptance and Strength Pay Factors shall not be used. Failure to meet criteria in Subsection 317.04.F will result in rejection of the work.”

**401.04.A.(1). Surface Elevation and Smoothness.** Delete paragraph, and replace with “Refer to the City of Tulsa Standard Specifications for Pavement and Bridge Deck Smoothness.”

**403.04.A.(2). Seasonal Limitations.** Delete paragraph and Table 403:1, and replace with “The Department will evaluate claims for extension of Contract Time in accordance with Subsection 108.07, when temperature and weather limitations in Table 403:2 are not met.”

**405.04.G. Spreading and Finishing.** In the last paragraph, replace “ODOT Bridge Division” with “Department”.

**406.04.F. Weather and Seasonal Limitations.** Delete the second paragraph.

**410.04.E. Aggregate Application Rate.** Delete the third and fourth sentences, and replace with “The Contractor shall overlay the deficient area at no additional cost to the Department.”

**410.05. Method of Measurement.** Delete text of section, and replace with “The Resident Engineer will measure completed Micro Surfacing by the square yard [square meter].”

**410.06. Basis of Payment.** Delete all Pay Items and Pay Units in the table and replace with the following Pay Item and Pay Unit: “MICRO SURFACING, Square Yard [Square Meter]”.

**411.03.C. Pavers.** After the first paragraph add the following paragraph and Table 411.03.C:1. “Pavers shall be capable of placing a minimum paving width in one (1) lift as shown in Table 411.03.C:1. Longitudinal joints in the surface layer shall correspond with the locations indicated in Table 411.03.C:1.”

| Table 411.03.C:1<br>Minimum Paving Widths |                               |                                 |
|---|-------------------------------|---------------------------------|
| Roadway Classification                    | Minimum Paving Width          | Location of Longitudinal Joints |
| Arterials                                 | one (1) full lane width       | At edges of traffic lanes       |
| Non-Arterials                             | one-half (½) road width       | At centerline of road           |
| Trails and bike lanes                     | full width of trail/bike lane | At edges of trail/bike lane     |

**411.03.F. Material Transfer Vehicle.**

- In the fourth paragraph, replace “Bridge Division” with “Department”.
- In the seventh paragraph, replace “500 ton [450 metric ton]” with “100 ton [90 metric ton]”.

**411.04. Construction Methods.** At the beginning of this section, add the following:

“Prior to paving operations, submit a paving plan indicating the sequence of paving passes, pass widths, pass thicknesses, and requested temporary street closures.

The contractor shall not drive empty or loaded trucks or equipment across newly paved areas for the construction period.”

**411.04.D. Control Strip Requirements.**

- Delete the first paragraph.
- In the second paragraph, replace “500 ton [450 metric ton]” with “100 ton [90 metric ton]”.
- Delete the last paragraph, and replace with “If the initial asphalt control strip produces failing results, make adjustments to production and placement procedures, and repeat the

test process for a second control strip. If required, create additional asphalt control strips on the shoulder until an acceptable mixture is produced.”

**411.04.I. Spreading and Finishing.**

- After the second sentence in the fourth paragraph, add “Once paving begins the Contractor should have sufficient trucks available to deliver asphalt materials in a continuous operation.”
- After the fourth paragraph, add the following paragraph: “A leveling or “wedge” course may be required to establish the required cross-slope for the finished overlay. Adequate transitions to side streets and driveways must be provided. Paving shall extend to the returns of all side streets. Special consideration should be given to prevent ponding at side street intersections.”

**411.04.J.(1). General.**

- Delete the second paragraph, and replace with the following:

“Ensure longitudinal joints in the surface layer correspond with locations indicated in Table 411.03.C:1.

Transverse joints shall be kept to a minimum. At a minimum, each lane shall be continuously laid without cold joints either from intersection to intersection or a length of 500 ft.”
- Delete the last sentence in the last paragraph.

**411.04.K.(2). Acceptance.** Delete the second sentence in the third paragraph.

**411.04.K.(2).(a). Layers At Least 1½ in [38 mm] Thick.**

- In the second paragraph, delete the first sentence, and replace with “Asphalt density tests for each lot will be performed at random sample locations.”
- Delete Table 411:2 and the last paragraph in the section, and replace with the following:

“ODOT Pay Adjustments for Lot Density shall not be used. Failure of any sample within the lot to reach density within 92.0 to 97.0 percent of the Maximum Theoretical Density will result in rejection of the entire lot. The Contractor shall remove and replace unacceptable lots at no additional cost to the Department.”

**411.04.K.(2).(b). Layers Less Than 1½ in [40mm] Thick.** In the second paragraph, replace “500 yd<sup>2</sup> [500 m<sup>2</sup>]” with “400 yd<sup>2</sup> [330 m<sup>2</sup>]”.

**411.04.N.(2).(a). Basis of Acceptance and Payment.**

- In the first paragraph,
  - In the first sentence, delete “and payment”;
  - After the first sentence, add the following: “The Resident Engineer may also consider other characteristics, including but not limited to, pavement smoothness.”

- In the second paragraph, delete the second through the last sentence.
- Delete the fifth through the last paragraph, and replace with “ODOT pay factors for density, asphalt cement content, and air voids shall not be used. Failure to reach density of 92.0 to 97.0 percent of the Maximum Theoretical Density, asphalt cement content of +/- 0.40 of job mix formula, air voids greater than 1.5 deviation from target, or specified thickness of asphalt will result in rejection of the entire lot. The Contractor shall remove and replace unacceptable lots at no additional cost to the Department.

**411.04.N.(2).(b). Resident Engineer’s Acceptance Procedures.** Delete the second paragraph, the bulleted list, and Table 411:4; replace with “The Resident Engineer may perform varying amounts of sampling and testing per lot in accordance with the City of Tulsa Acceptance Sampling/Testing Standard Specifications.”

**411.06.B.(2). Asphalt Binder Price Adjustment (ABPA).** Delete the last paragraph, and replace with “ODOT will establish the Monthly Asphalt Binder Price Index each month and post the information to the ODOT website at <http://www.okladot.state.ok.us/contractadmin/pdfs/binder-index.pdf>.”

**414.02. Materials.**

- Delete “Fly Ash” from Table.
- At the end of the section, add the following:  
“Fly Ash is not allowed in any concrete mixture unless otherwise specified in the Plans or Special Provisions.”

**414.03.B. Placing and Finishing Equipment.** After the first sentence, add the following: “If paving is not performed by a slip form paver, a hand vibrator shall be required.”

**414.04.R. Acceptance of Pavement.** Delete text of section, and replace with the following: “ODOT pay factors shall not be used. Failure to reach the gradation specified, air content of 4.5% to 7.5%, or target strength of the mix design will result in rejection of the entire lot. Failure to provide pavement thickness equal to or greater than what is specified will result in rejection of the entire lot.”

**414.04.R.(a). Engineer’s Acceptance Procedures.** Delete text of section and Table 414:2. Replace with “Refer to City of Tulsa Acceptance Sampling/Testing Standard Specifications.”

**414.06. Basis of Payment.** Delete the last sentence in this section.

**509.06. Basis of Payment.**

- Delete the second through the fifth paragraph and Table 509:7. Replace with the following: “ODOT pay factors for strength and air content shall not be used. Failure to reach the specified strength or the target air content within a deviation of 1.5% will result in rejection of the work. Check any outlying concrete cylinder breaks and air entrainment tests in accordance with ASTM E 178 Table 1, Upper 10% Significance Level.”

- In the sixth paragraph, revise the first sentence to recite “If the concrete is rejected by the Engineer, the Contractor may elect to core the represented concrete at no additional cost to the Department.”

**515.04.C. Sampling and Testing of Bridge Decks and Approaches.** Delete the first paragraph and bulleted list. Replace with “Refer to City of Tulsa Acceptance Sampling/Testing Standard Specifications for lot size.”

**515.04.D.(2). Bridge Decks and Approach Slab Surfaces.**

- In the first paragraph, delete the third sentence.
- Delete sections (a), (b) and (c).
- Add the following:
 

“The percentage of absorption (using test results from OHD L39 shall be less than or equal to 1.0. The depth of penetration (using test results from OHD L 40) shall be greater than or equal to 0.15 inches. If absorption and penetration requirements are not met, reapply penetrating water repellent at no additional cost to the Department until requirements are met.”

**516.02.C. Casings.**

- In the first sentence of the third paragraph, add the word “licensed” after “Registered Professional Engineer”.
- In the fourth paragraph, delete the second sentence, and replace with “Use permanent interior casings in accordance with ASTM A760 and AASHTO M36.”

**516.04.C.(7). Concrete Acceptance.** Delete the second and third sentence. Replace with the following: “ODOT pay factors for concrete strength shall not be used. Failure to reach the specified strength will result in rejection of the work.”

**610.04.F. Tactile Warning Device.** Delete text of section, and replace with the following:

“Install tactile warning devices in accordance with the manufacturer’s specifications and the City of Tulsa Standard Drawings. Tactile Warning Devices shall consist of Cast-In-Place Tactile Panels in accordance with 733.1, “Tactile Warning Device Material”.

Tactile panels shall be cast into the wet concrete. Surface applied products shall not be allowed. The panels shall extend the full width of the ramp or landing area and shall extend a minimum of two (2) feet in the direction of pedestrian travel. Panels shall be placed perpendicular to the direction of travel unless specifically noted otherwise or approved by the Engineer prior to installation.

All construction shall meet current ADAAG and PROWAG Guidelines.”

**611.01. Description.** In the first sentence, delete “, brick masonry,”.

**611.02.A. General.**

- Delete “Clay Brick” and “Concrete Brick” from the table of materials.

- In the second paragraph, delete “brick masonry or”.

**611.04.B. Clay Brick or Concrete Brick.** Delete section.

**615. Sanitary Sewer Pipe Conduits.** Delete section.

**616. Water Pipe and Fittings.** Delete section.

**623. Guardrail and End Treatments.** Revise the section title to recite “Guardrail, End Treatments, and Impact Attenuators”.

**623.01. Description.**

- In bulleted list, add the item, “Guardrail Impact Attenuators”.
- In the last sentence of the last paragraph, after “Ensure the GETs”, add “and Guardrail Impact Attenuators”.

**623.04. Construction Methods.** Add the following subsection:

**“623.04 H. Guardrail Impact Attenuators**

Ensure experienced workers fabricate and install guardrail impact attenuators as shown on the Plans.

Construct guardrail impact attenuators with certified, crash tested hardware. Ensure NCHRP 350 TL-3 certification for substituted hardware and that the product appears on the Traffic Engineering Division’s Qualified Product List (QPL). Obtain the Resident Engineer’s approval of substitutions before installation.”

**623.06. Basis of Payment.** Add Pay Item “(J) Guardrail Impact Attenuator” with a Pay Unit of “Each”.

**624.01. Description.** In the bulleted list, add the bulleted item, “Fence, Other (Like Kind)”.

**624.02. Materials.** In the table, add the Material, “Fence, Other (Like Kind)” with Section or Subsection of “732.10”.

**624.06. Basis of Payment.** Add Pay Item, “(H) Fence, Other (Like Kind)” with a Pay Unit of “Linear Foot [Meter]”.

**642.06. Basis of Payment.** In the table, for both Pay Items, delete the Pay Unit of “Lump Sum”, and replace with “Each”.

**701.01.B. Cement Substitution.** Delete text of section, Table 701:2, and Table 701:3. Replace with “Cement substitutions shall not be used in concrete mixtures.”

**701.19.A. General. Controlled Low-Strength Material (CLSM).** In the first sentence, delete “fly ash,”.

**701.19.B. Mix Design.** In the table, delete the Material, “Fly Ash”.

**702.01.A. General.** In the second paragraph

- Delete the first sentence, and
- In the last sentence, delete “PCC from one source (power plant) and”.

**702.01.B. Requirements for Portland Cement Concrete Use.** Delete section.

**702.02. Slag Cement.** Delete section.

**702.03. Cement Kiln Dust.** Delete section.

**702.04. Silica Fume.** Delete section.

**708.04. Composition of Mixtures.** In Table 708:6, under “Other Mixture Requirements”, add a row as follows:

|   | <b>S2</b> | <b>S3</b> | <b>S4</b> | <b>S5 / RIL</b> | <b>S6</b> |
|---|-----------|-----------|-----------|-----------------|-----------|
| Asphalt Cement<br>(for Non-Arterial<br>pavements only)<br>% of mix mass |           | ≥ 5.0     | ≥ 6.0     | ≥ 6.0 / NA      |           |

**711.06.D.(1). Acrylic Emulsion Polymer.** In the second sentence, after “44 percent by”, delete “weight [mass]”, and replace with “total weight of the acrylic emulsion polymer.”

**719.04.A. Description.** In the second sentence, after “Type III” add “, Type IV, or Type IX”.

**719.05.C. Material and Application.** In the first sentence, delete “baking screen enamel or”.

**719.05.E. Tests.** In the first sentence revise “Ensure screening enamel, stencil pastes, and process inks” to recite “Ensure stencil pastes and process inks”.

**726.02. Flexible Conduits.** In Table 726:3, under Nonmetallic conduits—culverts, for Corrugated Polypropylene Pipe, delete the requirement for “AASHTO M330”, and replace with “COT 215”.

**732. Materials for Guardrail, Guide Posts, Bridge Rail, Miscellaneous Railing, and Fences.** Add the following subsection:

**“732.10 Fence, Other (Like Kind)**

Provide fence, other (like kind), in accordance with contract documents.”

**733. Miscellaneous Materials.** Add the following subsection:

**“733.1 Tactile Warning Device Material**

Provide cast-in-place tactile panels to be embedded into wet concrete. Surface applied products are not allowed. The panels shall meet the size and spacing requirements shown in the plans or the City of Tulsa Standard Drawings.

The tactile panels shall be composed of cast iron or vitrified polymer composite material. The color of the tactile panels shall comply with ADAAG and PROWAG color contrast requirements. Vitrified polymer composite panels shall be yellow and conform to Federal Color No. 33538. The color shall be homogeneous throughout the product. Any variations in color shall be approved by the Engineer prior to installation.

Tactile panels shall meet current ADAAG and PROWAG Guidelines.”

**735.01. Sodding and Sprigging Materials.** Within subsections A, B and C, delete the word “Bermuda”.

**735.01.B.(1). Solid Slab Sod.** At the end of the first paragraph add “Nylon mesh shall not be allowed in solid slab sod.”

**740.01. Materials.**

- Delete the first three paragraphs.
- In fourth paragraph, delete “aluminum sheet material”. Replace with “louvered aluminum backplates”.
- At the end of the fifth paragraph, add “Retroreflective sheeting shall be 2 inches wide and attached to the front perimeter of the backplate. Retroreflective sheeting shall be fluorescent yellow.”

**740.02. Finish.** After “Ensure the backplate is” add “flat”.

**801.01. Description.** Delete the second paragraph. Replace with the following:

“The contractor shall obtain the necessary permits for electrical inspection on all signal and lighting work. Electrical inspections shall include all electrical equipment, enclosures, devices, cables, conductors and raceways as defined by the NEC. High or low voltage shall be installed, maintained, connected or removed by a State of Oklahoma licensed Electrical contractor. All work shall meet the requirements of the NEC. The City of Tulsa shall reserve the right to define workmanlike manner. Proof of license shall be carried on person at all times and be available to City of Tulsa personnel upon request per Title 158- Construction Industries Board Chapter -40 Subchapter 11-2(a)(9). The Contractor shall contact City of Tulsa Traffic Operations to obtain the address needed to obtain the permit.”

**801.04.A. General.** Replace all references to “60-cycle” with “60 hertz”.

**802. Electrical Conduit.** Delete section.

**803. Pull Boxes and Ground Boxes.** Delete section.

**804. Concrete Footings.** Delete section.



**805. Removal of Traffic Items.** Delete section.

**806. Poles and Mast Arms.** Delete section.

**807.02. Materials.** In the second sentence of the second paragraph, replace “plastic” with “hardened, tamper-proof”.

**807.06. Basis of Payment.** In the last paragraph, replace “plastic” with “hardened, tamper-proof”.

**809. Luminaires.** Delete section.

**810. Power Supplies.** Delete section.

**811. Electrical Conductors Highway Lighting.** Delete section.

**813.02. Materials.** In the first two sentences of the first paragraph, after “(2) hardcopies” add “and one (1) electronic (pdf) copy”.

**813.02.A. Structural Design.**

- In the second sentence of the first paragraph, delete “corrosion-resistant (stainless or galvanized steel, or aluminum)”. Replace with “galvanized steel”.
- In the eighth paragraph, after “Provide the following luminaire ring suspensions as required by the Contract:”, add “(Only top latching systems are allowed.)”.

**813.04. Construction Methods.** In the first paragraph, delete the third sentence and replace with “Submit to the Resident Engineer one (1) electronic (pdf) copy and at least five (5) hardcopies per project or one (1) copy per device.”

**825. Traffic Signal Controller Assembly.** Delete section.

**827. Solid-State Flashing Controller.** Delete section.

**828. Vehicle Loop Detector and Loop Detector Wire.** Delete section.

**830. Pedestrian Push Button.** Delete section.

**831. Traffic Signal Heads.** Delete section.

**832. Optically Programmed Adjustable Traffic Signal Heads.** Delete section.

**833. Traffic Signal Backplates.** Delete section.

**834. Electrical Conductors for Traffic Signals.** Delete section.

**850. Signs.** Delete section.

**851. Galvanized Steel Sign Posts.** Delete section.

**855.04.B. Application of Markings.** At the end of the first paragraph, add “Remove temporary markings and reflective tabs prior to installing permanent markings.”

**856. Traffic Stripe (Multi-Polymer).** Delete section.

**858.04. Construction Methods.** At the end of the second sentence of the first paragraph, delete “maker”, and replace with “marker”.

**880.02.B.(5). Warning Lights.** In the first sentence, delete “6F-70F”, and replace with “6F.83”.

**880.05.B. Lump Sum Pay Item.** At the beginning of the second paragraph, revise “If additional and compensation” to recite “If additional compensation”.


*Section 2. REPEAL OF CONFLICTING ORDINANCES. That all other ordinances or parts of ordinances in conflict herewith be and the same are now expressly repealed.*

*Section 3. SEVERABILITY. If any section, subsection, paragraph, subparagraph, sentence, clause or phrase of this ordinance shall be declared invalid for any reason whatsoever, such decision shall not affect the remaining portions of this ordinance, which shall remain in full force and effect, and to this end the provisions of this ordinance are hereby declared to be severable.*

*Section 4. EFFECTIVE DATE. This ordinance shall be effective on July 1, 2021.*

**JUN 02 2021**

ADOPTED by the Council: \_\_\_\_\_  
Date

  
Chair of the Council

OFFICE OF THE MAYOR

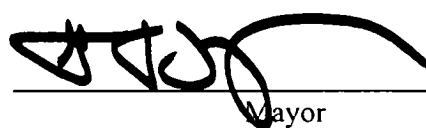
Received by the Mayor: \_\_\_\_\_ at \_\_\_\_\_  
Date Time

G.T. Bynum, Mayor

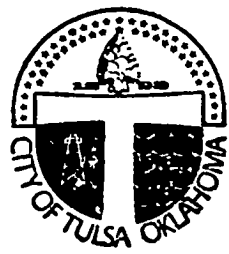
By: \_\_\_\_\_  
Secretary

APPROVED by the Mayor of the City of Tulsa, Oklahoma: JUN 09 2021  
Date

at \_\_\_\_\_  
Time


  
\_\_\_\_\_  
Mayor

ATTEST:



  
\_\_\_\_\_  
City Clerk

APPROVED:

  
\_\_\_\_\_  
City Attorney  
OK-JMS