

AGENDA

CITY OF TAYLOR, TEXAS
REGULAR CITY COUNCIL MEETING
CITY HALL, COUNCIL CHAMBERS, 400 PORTER STREET

DECEMBER 10, 2020, 6:00 P.M.

In order to assist in maintaining the health of Council Members, staff and the public, this meeting will be conducted by *video conference*.

You may view this meeting as it's happening through the City's website at
<http://www.ci.taylor.tx.us/660/Taylor-Videos>

For citizen comments, please contact the City Clerk's office at Dianna.barker@taylor.tx.gov prior to 5:30p.m. Thursday, December 10th.

The agenda packet is available at <http://www.ci.taylor.tx.us/calendar>

CALL TO ORDER AND DECLARE A QUORUM

CITIZENS COMMUNICATION

(The City Council welcomes public comments on items not listed on the agenda. However, the Council cannot respond until the item is posted on a future meeting agenda. Public comments are limited to 3 minutes.)

BOARDS & COMMISSION PRESENTATION

1. Animal Control Appeals Board and Shelter Advisory Committee update.

CONSENT AGENDA

(The Consent Agenda includes non-controversial and routine items that the Council may act on with one single vote. Any Council member may pull any item from the Consent Agenda to discuss and act upon individually on the Regular Agenda.)

2. Approve minutes from the November 12, 2020 regular City Council meeting and November 16, 2020 Special Called Council meeting. (Dianna Barker)
3. Consider reappointment of Joan Maxfield as the Taylor representative on the Williamson County and Cities Health District Board. (Dianna Barker)
4. Concur with Preliminary Financials for October 2020. (Jeff Wood)
5. Consider Ordinance 2020-21 amending the FY2019-2020 budget. (Jeff Wood)

PUBLIC HEARINGS / ORDINANCES

6. Introduce Ordinance 2021-01 amending the Sign Ordinance. (Tom Yantis)
7. Introduce Ordinance 2021-02 Amending the Subdivision Ordinance for Updates to Pavement Design Criteria and associated elements of the Engineering Manual. (Jim Gray)

REGULAR AGENDA; REVIEW/DISCUSS AND CONSIDER ACTION

8. Receive Legislative update from Texas Municipal League about the upcoming 87th Legislative Session. (Monty Wynn/Jesse Ancira, Jr.)
9. Consider Authorizing Award of the Construction Contract for the Mustang Creek Wastewater Treatment Plant Improvements Project to Archer Western Construction, LLC. (Jim Gray/Troy St. Tours)
10. Update and possible direction to staff regarding the maintenance of landscaping in public rights-of-way. (Tom Yantis)

The City Council may take action on any executive session item listed on this agenda after they reconvene into regular session.

Executive Session I. The Taylor City Council will conduct a closed executive meeting under Section 551.071 of the Texas Government Code in order to meet with its City Attorney on a matter in which the duty of the Attorney to the governmental body under the Texas Disciplinary Rules of Professional Conduct of the State Bar of Texas authorize and allow such a closed meeting and which Rules conflict with the Texas Open Meetings Act.

a. 4th Street Litigation

ADJOURN

The Council may vote and/or act upon each of the items listed in this Agenda. The Council reserves the right to retire into executive session concerning any of the items listed on this Agenda, whenever it is considered necessary and legally justified under the Open Meetings Act including: Section 551.071 (Consult with attorney); Section 551.072 (Real Property); Section 551.073 (Gifts and Donations); Section 551.074 (Personnel Matters); Section 551.076 (Security Devices); and Section 551.087 (Economic Development). I certify that the notice of meeting was posted in the Taylor City Hall Lobby before 6:00 pm on December 7, 2020 and remained posted for at least 72 hours continuously before the scheduled time of said meeting. I further certify that the following news media was notified of this meeting: Taylor Press.

Posted By: Dianna Barker Date 12-7-2020
Dianna Barker, City Clerk



City Council Meeting December 10, 2020 Transmittal Letter

STRATEGIC PILLAR

- ☐ Streets/Infrastructure
- ☒ Quality of Life
- ☐ Economic Vitality

Agenda Item #: 1
Agenda Title: Animal Control Appeals Board and Shelter Advisory Committee update.

Council Action to be taken: Receive update

Department Submitted: Police/Animal Control

Staff Contact: Joseph Branson, Commander-Support Services
Melanie Rathke, Board Member

1. PURPOSE/DESCRIPTION

Annual Board presentation from Animal Control Appeals Board and Shelter Advisory Committee.

2. STAFF ANALYSIS / BACKGROUND / PRIOR COUNCIL ACTIONS

Ms. Rathke has served on the Animal Control Appeals Board and Shelter Advisory Committee since 2016 and has served as its chairperson since 2018.

3. PROS and CONS

N/A

4. RECOMMENDATION

Receive Presentation

5. FUNDING SOURCE

N/A

6. TIMELINE

N/A

7. OTHER OPTIONS (In order of preference)
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N/A

8. ATTACHMENTS

- 1a. [PowerPoint](#)- Animal Control Appeals Board and Shelter Advisory Committee Presentation.

Animal Control Appeals Board and Shelter Advisory Committee



Our Mission

We are a nine member group that serves as an appeals board as well as a Shelter Advisory group to assist the Animal Control Officer in compliance with the Health and Safety Code. The board hears any appeals of citations written by Animal Control Officers. No appeals have been presented in 2020. The board meets at least three times a year or more if needed.



2020

The Board's main focus in 2020 was the continued improvement of the animal shelter. Animal Control staff received positive remarks while earning another favorable inspection report during its annual facility inspection, and professional development training was acquired by both Animal Control Officers.



Professional Development Training

- ACO Supervisor Sandy Perio-Advanced ACO (24 hours) in September
- ACO Susan Davis-Animal Cruelty Investigations 101 (16 hours) in October



2020

- The Public Works Department worked with HDR to prepare the grounds for the Animal Shelter improvements.
 1. Rented equipment and built a new laydown yard at the Fire Field.
 2. Moved the stockpile materials that had previously been stored at the Animal Shelter Facility to the Fire Field.
 3. Removed the pumphouse adjacent to the oil tower.



2020

4. Moved forty-yard storage container to the Fire Field.

5. All Public works storage was removed from the old barn. The barn was then demolished by a private bidder who purchased the material.



2020

- 5/2020-Purchased, installed 2 “window mounted” air conditioner units in the cat room-\$560.00
- 6/2020-Repairs to ramp at portable building- \$100.00
- 8/2020-Purchased new double-sided stainless-steel sink for cat room- \$1,126.00



2020

- 8/2020-Purchased (4) four new cat kennels for cat room- \$3,500.00
- 8/2020-Concrete repairs to outdoor kennels-\$1,250.00



PENDING IMPROVEMENTS

- 1. More play yards - one being 32 x 20 fenced covered slab for dogs **(\$6,000.00)**
- 2. Repair existing fence and gates **(\$100.00)**
- 3. Security camera system upgrade **(\$2,000.00)**
- 4. Improved Lighting **(\$2,000.00)**
- 5. Paint the oil tower **(\$3,000.00)**



2020

QUESTIONS OR COMMENTS?





City Council Meeting December 10, 2020 Transmittal Letter

STRATEGIC PILLAR

- ☐ Streets/Infrastructure
- ☒ Quality of Life
- ☐ Economic Vitality

Agenda Item #: 2

Agenda Title: Approve minutes from the November 12, 2020 regular Council meeting and November 16, 2020 special called Council meeting.

Council Action to be taken: Approve by consent or approve with corrections if needed

Department Submitted: City Clerk

Staff Contact: Dianna Barker

1. PURPOSE/DESCRIPTION

Pursuant to the Open Meetings Law, Chapter 551, Local Government Code and in accordance with the authority contained in Section 551.021 and the City Charter, the Minutes of each City Council meeting must be recorded, compiled and approved by the City Council in subsequent meetings. The purpose of this item is to conform to these legal requirements.

2. STAFF ANALYSIS / BACKGROUND / PRIOR COUNCIL ACTIONS

N/A

3. PROS and CONS

<u>PROS</u>	<u>CONS</u>
•	•

4. RECOMMENDATION

Approve as submitted or amend with changes noted.

5. FUNDING SOURCE

N/A

6. TIMELINE

N/A

7. OTHER OPTIONS (In order of preference)
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N/A

8. ATTACHMENTS

2a. [November 12, 2020 minutes](#)

2b. [November 16, 2020 minutes](#)

City of Taylor
Regular City Council Meeting
Taylor City Hall, Council Chambers, 400 Porter Street
November 12, 2020 at 6:00 p.m. via Video Conference

In order to assist in maintaining the health of Council Members, staff and the public during COVID-19 pandemic, this meeting was held by video conference.

Council or staff present in City Hall: No one.

Council Members attending via video: Mayor Brandt Rydell
Mayor Pro-Tem Dwayne Ariola
Council Member Mitch Drummond
Council Member Gerald Anderson

Absent: Council Member Robert Garcia

Others attending: Mark Schroeder, Assistant City Attorney
Brian LaBorde, City Manager
Jeff Jenkins, Deputy City Manager
Dianna Barker, City Clerk

Mayor Brandt Rydell took a roll call, declared a quorum and called the meeting to order at 6:00 p.m.

CITIZENS COMMUNICATION

None.

CONSENT AGENDA

1. **Approve minutes from the October 22, 2020 regular City Council meeting and the October 22, 2020 special called meeting.**
2. **Concur with Preliminary Financials for September 2020.**
3. **Approve Interlocal Agreement between the City of Taylor Police Department and Williamson County for Computer-Aided Dispatch (CAD) Application.**

*Motion was made by Mayor Pro-Tem Ariola to approve the consent agenda items as presented.
Motion was seconded by Councilmember Anderson. Motion carried 4 to 0 via roll call vote.*

PUBLIC HEARINGS / ORDINANCES

4. **Introduce Ordinance 2020-21 amending the FY2019-2020 budget.**
Jeff Wood, Finance Director – gave a presentation on the budget amendment to have the budget reflect the actual financial activity that has occurred during FY2019-20.

The City Attorney read the caption of the Ordinance.

ORDINANCE NO. 2020-21

**AN ORDINANCE OF THE CITY OF TAYLOR, TEXAS AMENDING
ORDINANCE NO. 2020-12 ADOPTED ON AUGUST 13, 2020, MAKING
APPROPRIATIONS FOR THE SUPPORT OF THE CITY FOR FISCAL YEAR
BEGINNING OCTOBER 1, 2019 AND ENDING SEPTEMBER 30, 2020; BY
AMENDING THE AMOUNT OF APPROPRIATIONS FOR THE GENERAL
FUND AND OTHER CITY FUNDS THAT PROVIDE FOR THE PAYMENT OF**

OPERATING EXPENSES AND CAPITAL OUTLAY AND BY CHANGING THE AMOUNT APPROPRIATED FOR VARIOUS DEPARTMENTS OF THE CITY.

First reading, no action taken.

REGULAR AGENDA; REVIEW/DISCUSS AND CONSIDER ACTION

5. **Receive the Taylor Chamber of Commerce FY2019 financial review and the FY 2020/2021 Hotel Occupancy Tax budget.**

Tia Stone, Chamber President - This item satisfies a requirement in the Publicity and Tourism Agreement between the City and the Chamber. Ms. Stone gave a presentation on the FY20/21 Chamber budget. The audit presented was preliminary. The Chamber will forward the final audit report as soon as it is completed.

Motion was made by Mayor Pro-Tem Ariola to receive the Chamber of Commerce FY2019 financial review and the FY2020/2021 budget as presented. Motion was seconded by Councilmember Drummond. Motion carried 4 to 0 via roll call vote.

6. **Receive an update from TxDot regarding Capital Improvement Projects.**

Bobby Ramthun, TxDOT representative – gave a presentation providing an update on the capital improvement projects in the Taylor area.

Motion was made by Mayor Pro-Tem Ariola to receive the TxDOT CIP update as presented. Motion was seconded by Councilmember Anderson. Motion carried 4 to 0 via roll call vote.

7. **Consider recommendations from the Main Street Advisory Board and city staff on proposed amendments to the sign ordinance.**

Tom Yantis, Development Services Director – presented recommendations from the Main Street Advisory Board regarding proposed amendments to the sign ordinance related to sign regulations in the Downtown Sign District and additional recommendations from staff regarding political signs on City property. These recommendations are a result of a number of complaints to Code Enforcement about signs in the downtown area that were either unpermitted or were in violation of the City's sign ordinance.

Motion was made by Councilmember Drummond to approve the recommendations from the Main Street Advisory Board as presented and amend the sign ordinance to provide specific details regarding political signs on City property as presented. Motion was seconded by Mayor Pro-Tem Ariola. Motion carried 4 to 0 via roll call vote.

8. **Consider Ordinance 2020-18 amending Sections 4.3 Measurements and Special Circumstances and 9.2 Non-conforming Status of the City of Taylor Zoning Ordinance regarding carports.**

Tom Yantis, Development Services Director – This ordinance is a recommendation from the Planning and Zoning Commission regarding a text amendment to the Zoning Ordinance related to non-conforming carports. Due to the existence of several non-conforming carports, a majority of the P&Z Commission recommend that the Council consider amending the Zoning Ordinance to allow the owners of existing, non-conforming carports to register with the City, pay for and receive a safety inspection of the carport and consider other criteria such as architectural compatibility. The Commission does not recommend allowing any additional carports to be constructed without meeting the requirements of the Zoning Ordinance and building codes.

Council decided to waive the inspection fee for property owners if they register by the deadline, 1st of June 2021.

Motion was made by Mayor Pro-Tem Ariola to adopt Ordinance 2020-18 as presented. Motion was seconded by Councilmember Anderson. Motion carried 4 to 0 via roll call vote.

9. Consider Ordinance 2020-19 approving a Specific Use Permit for a liquor store at 619 North Main Street, Lot 3, Block 33, Town of Taylor, consisting of approximately 10,980 square feet, more particularly described by Williamson Central Appraisal District Parcel R015105.

Tom Yantis, Development Services Director - As COVID-19 has had a negative impact on business, the owner of King's Mini Mart would like to sell liquor so that he may attract a broader customer base. The Planning and Zoning Commission recommended approval of the request.

Motion was made by Mayor Pro-Tem Ariola to adopt Ordinance 2020-19 as presented. Motion was seconded by Councilmember Anderson. Motion carried 3 to 1 via roll call vote with Councilmember Drummond opposing.

10. Consider awarding bid to construct restroom facility at Robinson Park.

Jeff Jenkins, Deputy City Manager – Six bids were received for this project.

Philip Wanke, Place Designers – gave a presentation on the Robinson Park restroom facility as part of the Valero projects.

Place Designers recommends awarding the contract to Breck General Contracting in the amount of \$188,910.

Motion was made by Councilmember Anderson to award the bid to construct restroom facilities at Robinson Park to Breck General Contracting with a total base bid of \$188,910.00. Motion was seconded by Mayor Pro-Tem Ariola. Motion carried 4 to 0 via roll call vote.

Mayor Rydell read the Executive Session items. City Council adjourned into executive session at 7:22p.m.

Executive Session I. The Taylor City Council will conduct a closed executive meeting under Section 551.072 of the Texas Government Code, to conduct deliberations regarding the purchase, exchange, lease, or value of real property.

- a. Justice Center
- b. 1st/Royal easement acquisitions

Executive Session II. The Taylor City Council will conduct a closed executive meeting under Section 551.071 of the Texas Government Code in order to meet with its City Attorney on a matter in which the duty of the Attorney to the governmental body under the Texas Disciplinary Rules of Professional Conduct of the State Bar of Texas authorize and allow such a closed meeting and which Rules conflict with the Texas Open Meetings Act.

- a. 4th Street Litigation
- b. Wastewater CCN

City Council reconvened into regular session at 8:09p.m.

11. Take any action regarding Executive Session I and II.

Motion was made by Mayor Pro-Tem Ariola to allow the City Manager to enter into an agreement, subject to review by the city attorney, authorizing the law firm of Sheets & Crossfield to perform condemnation legal services on behalf of the City of Taylor. Motion was seconded by Councilmember Drummond. Motion carried 4 to 0 via roll call vote.

ADJOURN

With no further business Mayor Rydell declared the meeting adjourned at 8:10p.m.

ATTEST:

Brandt Rydell, Mayor

Dianna Barker, City Clerk

City of Taylor
Special City Council Meeting
Taylor City Hall, Council Chambers, 400 Porter Street
November 16, 2020 at 6:00 p.m. via Video Conference

In order to assist in maintaining the health of Council Members, staff and the public during COVID-19 pandemic, this meeting was held by video conference.

Council or staff present in City Hall: No one.

Council Members attending via video: Mayor Brandt Rydell
Mayor Pro-Tem Dwayne Ariola
Council Member Mitch Drummond
Council Member Robert Garcia
Council Member Gerald Anderson

Others attending: Mark Schroeder, Assistant City Attorney
Brian LaBorde, City Manager
Jeff Jenkins, Deputy City Manager
Dianna Barker, City Clerk

Mayor Brandt Rydell took a roll call, declared a quorum and called the meeting to order at 6:00 p.m.

REGULAR AGENDA; REVIEW/DISCUSS AND CONSIDER ACTION

1. Consider Resolution R20-27 canvassing the results from November 3, 2020 At-Large Council Member seat election.

Dianna Barker, City Clerk – presented the resolution and the election result numbers from Williamson County from the November 3rd election showing incumbent Dwayne Ariola was elected to the At-Large Council Member seat with 53% of the votes.

Motion was made by Councilmember Anderson to approve Resolution R20-27 and accept the results of the November 3rd election electing Dwayne Ariola to the At-Large Council seat as presented. Motion seconded by Councilmember Drummond. Motion carried unanimously via roll call vote.

2. Consider Resolution R20-28 canvassing the results from November 3, 2020 Charter amendment election.

Dianna Barker, City Clerk – presented the resolution and the election result numbers from Williamson County from the November 3rd election showing that each Charter amendment passed.

Motion was made by Mayor Pro-Tem Ariola to approve Resolution R20-28 and accept the results of the November 3rd election adopting all three Charter amendments as presented. Motion seconded by Councilmember Garcia. Motion carried unanimously via roll call vote.

3. Administer oath of office to At-Large Council Member.

Judge Randall Pick - administered the Oath of Office to Dwayne Ariola.

4. Elect a Mayor.

Mark Schroeder, Assistant City Attorney - asked for nominations from the Council for the Mayor position.

Gerald Anderson nominated Brandt Rydell. There were no other nominations.

Mark Schroeder conducted a roll call vote. Nomination to appoint Brandt Rydell as Mayor passed unanimously.

5. Elect a Mayor Pro Tem.

Brandt Rydell, Mayor - asked for nominations from the Council for the Mayor Pro-Tem position. Mitch Drummond nominated Gerald Anderson. There were no other nominations.

Nomination to appoint Gerald Anderson as Mayor Pro-Tem passed unanimously via roll call vote.

6. Consider Approving the Purchase of the Police Department's and Fire Department's Public Safety Radios from Motorola.

Henry Fluck, Police Chief - requested purchasing radios to complete the End of Life Radio Replacement through Williamson County Emergency Services to be reimbursed by Williamson County through CARES Act Funding.

Motion was made by Councilmember Ariola to approve the purchase of 16 portable handheld radios and 7 mobile radios for the Police Department, and 5 portable radios and 2 mobile radios for the Fire Department. Motion was seconded by Mayor Pro-Tem Anderson. Motion carried unanimously via a roll call vote.

ADJOURN

With no further business Mayor Rydell declared the meeting adjourned at 6:16p.m.

Brandt Rydell, Mayor

ATTEST:

Dianna Barker, City Clerk



City Council Meeting December 10, 2020 Transmittal Letter

STRATEGIC PILLAR

- ☐ Streets/Infrastructure
- ☒ Quality of Life
- ☐ Economic Vitality

Agenda Item #: 3
Agenda Title: Consider reappointment of Joan Maxfield as the Taylor representative on the Williamson County and Cities Health District Board

Council Action to be taken: Appoint Taylor representative

Department Submitted: City Clerk

Staff Contact: Dianna Barker, City Clerk

1. PURPOSE/DESCRIPTION

The purpose of this agenda item is to appoint or reappoint a representative of Taylor to the Williamson County Health District Board.

2. STAFF ANALYSIS / BACKGROUND / PRIOR COUNCIL ACTIONS

The Williamson County Board of Health is the administrative authority for the Williamson County & Cities Health District. The five governmental entities that form the Health District appoint citizen representatives to the Williamson County Board of Health. Each city appoints one member and the Commissioners' Court appoints two members to serve 3-year staggered terms.

City Council appointed Joan Maxfield to the Williamson County-Cities Health District Board in April 2019 to fill the unexpired term of Carol Bachmayer.

Ms. Maxfield has stated that she would like to continue to serve as the Taylor representative on the Williamson County Board of Health. She is a Registered Nurse and has a Master's in Public Health.

Mrs. Maxfield is the only applicant on file for this position.

3. PROS and CONS

<u>PROS</u>	<u>CONS</u>
Experienced in the health industry.	N/A

4. RECOMMENDATION

Staff recommends reappointing Joan Maxfield to the Williamson County Board of Health as the City of Taylor representative for a 3-year term expiring December 2023.

5. FUNDING SOURCE

N/A

6. TIMELINE

Appointment needs to be made before January 1, 2021.

7. OTHER OPTIONS (In order of preference)
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N/A

8. ATTACHMENTS

3a. [Roster](#)

Williams County Health District				
Willing to be Re-appointed?	TERM	MEMBER	APPOINTED	EXPIRES
Yes	3	Joan Maxfield 50 CR 455 Coupland, Tx. (H) 512/924-6608 Maxnurse3013@yahoo.com	4-2019 (filled unexpired term of Carol Bachmayer); Dec 2019	12-2020

Members: 7 (1 from Taylor)

Duties: To serve as the Taylor representative on the Wilco Health District Board.

Appointed by: City Council

Meets: Every 2 months

Liaison: Dianna Barker



City Council Meeting December 10, 2020 Transmittal Letter

STRATEGIC PILLAR

- ☐ Streets/Infrastructure
- ☐ Quality of Life
- ☒ Economic Vitality

Agenda Item #: 4
Agenda Title: Concur with Preliminary Financials for October 2020

Council Action to be taken: Approve by Consent

Department Submitted: Finance Department

Staff Contact: Jeffrey Wood, Director of Finance

1. PURPOSE/DESCRIPTION

Article 12, Section 12.3 of the City of Taylor's Charter states in part that the City Manager shall prepare and submit to the City Council a written monthly financial report that is in a form satisfactory with the City Council. This report is intended to satisfy the Charter requirement.

2. STAFF ANALYSIS/BACKGROUND / PRIOR COUNCIL ACTIONS

Council has approved previous monthly financial reports by consent.

The following provides a brief overview on the preliminary status and/or activity of the major funds or groups of funds as of October 31, 2020:

General Fund:

The General Fund is used to account for all financial transactions not properly includable in other funds. The principal sources of revenues include local property taxes, sales and franchise taxes, licenses and permits, fines and forfeitures, and charges for services. Expenditures include general government, public safety, public works, culture and recreation, and community development.

- Revenues in the General Fund are up by \$72,276 or 13.7% over last year's fiscal year-to-date. The majority of revenue collected in October was received through property tax and sales tax. Revenues collected is reported at 4% of the budget.
- Property tax collections amount to \$211,804 through October. The amount collected represents approximately 2.8% of budgeted property tax revenues. The timing of individual tax payments can vary year-over-year so comparisons to previous years should keep such fluctuations in mind.

- The City's portion of the sales tax collections were \$294,845 through October, up by \$2,692 or 0.9% when compared to this same time last year. Sales tax collections have started to trend down and the payment in October was the lowest payment received since April. The payment received in October represents sales that occurred in August. October revenues ended up in-line with the previous year and were slightly higher than budgeted.
- Expenditures in the General Fund are down by \$436,214 or 31.5% compared to last year's expenses fiscal year-to-date. Expenditures of 6.3% of budget are at an acceptable level year-to-date when compared to budgeted amounts.
- It should be noted when reviewing the level of revenues over expenditures that the vast majority of budgeted revenues are received in the first half of the year, while expenditures are dispersed more evenly throughout the year. It is common to show a significant budget surplus at mid-year that will regularly decrease over the last six months.

Special Revenue Funds:

The City accounts for resources restricted to, or designated for, specific purposes in special revenue funds.

- The TIF Fund receives the annual transfer in from the City and the County for the captured taxes collected in the district around April of each year. The only other activity reported for revenue is earned interest income of \$1,110. The expenditures for this fiscal year are related to the gateway signage project, downtown improvements, debt service payments, fire suppression grants and a transfer to the Main Street Fund for façade grants.
- Hotel Occupancy Tax collections from the six lodging providers are recorded monthly, but the 380 Agreement payment is distributed quarterly. The timing of the 380 Agreement payment can skew the monthly report and may result in the fund being reflected in a more positive position than is actually the case. Hotel Occupancy Tax collections are reported at \$10,726 fiscal year-to-date, of which all was collected in October. October's collection was \$7,945 less than October 2019, and year-to-date HOT collections are \$7,945 (-42.6%) less than FY2020. The new hotel's market share accounts for approximately two-thirds of HOT collections. Although the new hotel has had a positive effect on total HOT collections since it opened, the recent data shows that its expanding market share is having a more negative impact on net HOT collections. HOT collections have also been impacted by COVID-19.

Expenditures consist of \$2,477 as a pass through to the Chamber, but will also include expenditures for our marketing partnership, 380 Agreement, and a transfer to the Main Street Fund to be used for advertising.

- Main Street revenues reported during the year are from sales and other fund-raising activities. Expenditures are for rental assistance, advertising, city sponsored events and façade grants.

- Municipal Court Special Revenues total \$934, which is 5.5% of budget. Expenditures from this fund are for security work and technology at the Municipal Court.
- Library Donation Fund reflects revenues generated from interest income of \$28 and \$20 in donations. Year-to-date there has been \$3,000 spent on books from this fund.
- Transportation User Fee (TUF) Fund – User fees collected in October are reported at \$67,552. Expenditures are associated with engineering cost, the cost of the work done for street maintenance and debt service payment transfers. Expenditures may also reflect the use of debt proceeds that were received and recorded in previous fiscal years.
- Municipal Drainage Utility System (MDUS) Fund – Drainage fees collected in October are reported at \$41,333. Expenditures are related to the administrative fee transfer to the General Fund, engineering expenses, and debt service payment transfers. Expenditures may also reflect the use of debt proceeds that were received and recorded in previous fiscal years.

Enterprise Funds:

The City maintains several Enterprise funds, which are used to account for operations that are more reflective of business-type activities. All activities associated with providing such services are accounted for in these funds. Enterprise funds are primarily funded by user charges and fees.

Sanitation Fund

- Revenues from franchise fees and user charges for services in October are reported at \$152,576. The City contracts its solid waste collection service and expenditures represent the payment to the City's solid waste provider. October's cost for solid waste collection services is \$139,688.

Utility Fund

- Revenues through October totaled \$831,239, which includes \$819,226 in charges for service. User charges are up \$564,963 compared to the same period last year. Expenditures fiscal year-to-date total \$389,149 compared to \$432,668 a year ago. Year-to-year comparisons in the Utility Fund reflect differences in billing and usage, and such differences can be caused by several factors that can vary throughout the year. This should be kept in mind when comparing individual time periods.
- The Utility Fund is operating at an acceptable level when compared to budgeted amounts for this period of the fiscal year.

Airport Fund

- Revenues consist of airport hangar rental, sale of fuel and interest income. Hangar rental is reported at \$18,567 and revenues from fuel sales are \$12,747. Total revenues for the current fiscal year are down by \$9,316, or 22.9% compared to the previous year. The revenues from the sale of fuel have been impacted by COVID-19.
- The Airport Fund expenditures are in line with budgeted amounts with expenditures exceeding revenues by \$9,362.

Cemetery Fund

- Revenues are reported at \$7,211 and are 4% of budgeted amounts. Revenues are dependent on the number of lots sold and graves dug, and both of these sources can be variable.
- Expenditures total \$14,480, which represents 6.8% of budgeted amounts.
- Expenditures exceed revenues by \$7,268.

Other Funds:

- Roadway Impact Fund – There was \$1,590 in revenues collected in October. Budgeted expenditures in this fund are related to the Comprehensive Plan update.
- Utility Impact Fund – There were \$12,000 in revenues collected in October. Expenditures are budgeted for the Comprehensive Plan update.

Internal Service Funds:

Internal Service Funds are an accounting device used to accumulate and allocate costs internally among the City's various functions. The City uses internal service funds to account for the maintenance and purchase of equipment.

- The Fleet Operating Fund charges rental fees and replacement fees to the various City departments and these fees are used to off-set the expenditures for repairs and maintenance to the City's vehicles. This same concept is applied to the Fleet Replacement Fund for the purpose of purchasing vehicles.
- Expenditures in the Fleet Operating Fund are operating as anticipated.
- The Fleet Replacement Fund reflects expenditures that includes capital lease payments for purchases are made either monthly, quarterly or annually throughout the year. Expenditures also reflect cash purchases for equipment and vehicles made on behalf of the other funds.

3. PROS and CONS

<u>PROS</u>	<u>CONS</u>
• Monthly financial reports provide Council with a snapshot of each fund along with a summary of the financial activity that occurred during the month. • Updated financial information can assist Council with their decision-making process.	

4. RECOMMENDATION

Concur with the preliminary monthly financial report by consent

5. FUNDING SOURCE

N/A

6. TIMELINE

Immediate consideration

7. OTHER OPTIONS (In order of preference)

N/A

8. ATTACHMENTS

4a. [Monthly Financial Report for October 2020:](#)

- **Attachment A:** Preliminary summaries of the total amounts of revenues and expenditures year-to-date.
- **Attachment B:** Preliminary financial summaries for the governmental and proprietary funds. This shows annual budgeted amounts and the year-to-date figures for each fund by the major revenues and expenditures categories.
- **Attachment C:** Checks issued during the month.
- **Attachment D:** Balance sheets for each of the governmental and proprietary funds.
- **Attachment E:** Sales Tax Tracking Report.
- **Attachment F:** Current Monthly Investment Report Issued by Patterson & Associates.



**Monthly Finance Report as of :
October 2020**

City of Taylor
400 Porter Street
Taylor, TX 76574

Attachment A

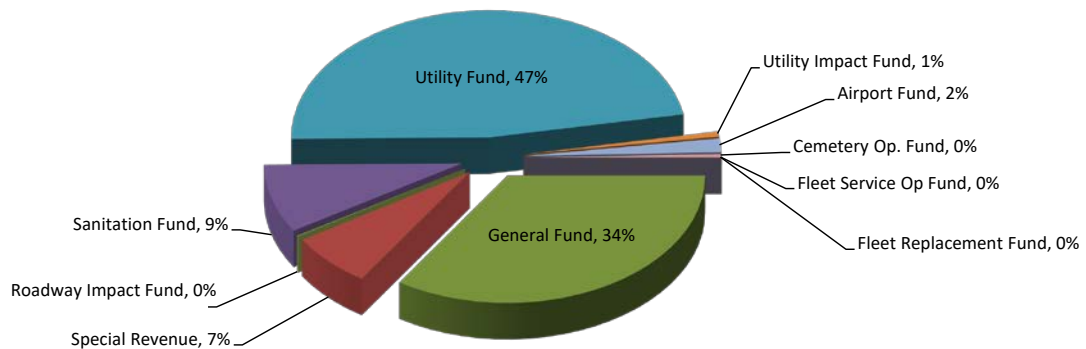
Financial Summary

Summary Revenue/Expenditures
Preliminary Year-to-Date as of October 31, 2020

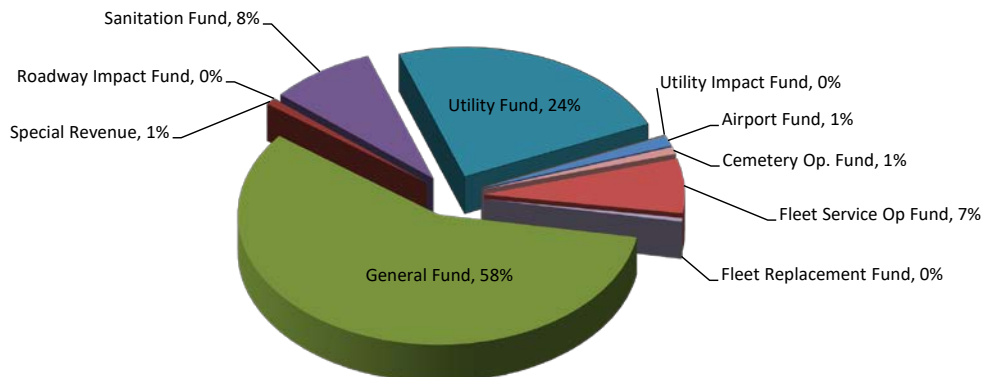
	Revenue			Expenditures			
	Annual Budget	Actual Y-T-D	% of Budget	Annual Budget	Actual Y-T-D	% of Budget	Surplus/Deficit
General Fund	\$ 15,106,982	\$ 600,893	4%	\$ 15,106,113	\$ 948,678	6%	\$ (347,785)
Special Revenue Funds							
- Tax Increment Fund (TIF)	\$ 337,500	\$ 93	0%	\$ 411,132	\$ 4,324	1%	(4,231)
- Hotel/Motel Tax*	\$ 205,000	\$ 10,726	5%	\$ 205,000	\$ 2,477	1%	8,250
- Main St. Revenue	\$ 107,100	\$ 70	0%	\$ 97,650	\$ 180	0%	(110)
- Municipal Court Sec/Tech	\$ 17,000	\$ 934	5%	\$ 10,212	\$ 2,016	20%	(1,082)
- Library Grants/Donations	\$ 5,300	\$ 48	1%	\$ 5,000	\$ 3,000	60%	(2,952)
- Transportation Fund (TUF)	\$ 793,000	\$ 67,878	9%	\$ 761,719	\$ 1,500	0%	66,378
- MDUS	\$ 501,000	\$ 41,333	8%	\$ 490,400	\$ -	0%	41,333
Special Rev Funds Total	\$ 1,965,900	\$ 121,082	6%	\$ 1,981,113	\$ 13,497	1%	107,585
Enterprise Funds							
- Sanitation Fund	\$ 1,843,000	\$ 152,576	8%	\$ 1,821,700	\$ 139,688	8%	12,888
- Utility Fund	\$ 10,245,500	\$ 831,239	8%	\$ 10,000,242	\$ 389,149	4%	442,089
- Airport Fund	\$ 426,700	\$ 31,423	7%	\$ 426,342	\$ 22,061	5%	9,362
- Cemetery Op. Fund	\$ 179,000	\$ 7,211	4%	\$ 211,853	\$ 14,480	7%	(7,268)
Roadway Impact Fund	\$ 35,000	\$ 1,590	5%	30,000	-	0%	1,590
Utility Impact Fund	\$ 250,000	\$ 12,000	5%	125,000	-	0%	12,000
Fleet Service Operating Fund	\$ 701,808	\$ 572	0%	\$ 691,877	\$ 111,561	16%	(110,989)
Fleet Replacement Fund	\$ 416,355	\$ 40	0%	\$ 408,355	7,229	2%	(7,189)
Total	\$ 32,464,245	\$ 1,758,626	5%	\$ 32,054,714	\$ 1,646,343	5%	\$ 112,283

*Net of 380 Agreement

Total Revenue Summary (\$1,758,626)



Total Expenditure Summary (\$1,646,343)



Attachment B

Financial Statements by Fund

General Fund

Tax Increment Financing Fund

Hotel Occupancy Tax Fund

Main Street Fund

Municipal Court Special Fee Fund

Library Grant/Donations Fund

Roadway Impact Fee Fund

Transportation User Fee Fund

Municipal Drainage Utility System Fund

Sanitation Fund

Public Utilities Fund

Utility Impact Fund

Airport Fund

Cemetery Operating Fund

Fleet Services Operating Fund

Fleet Replacement Fund

FINANCIAL STATEMENT

AS OF: OCTOBER 31ST, 2020

100-GENERAL FUND

FINANCIAL SUMMARY

ACCT #	ACCOUNT NAME	ANNUAL BUDGET	CURRENT PERIOD	Y-T-D ACTUAL	% OF BUDGET	Y-T-D ENCUMB.	BUDGET BALANCE
<u>REVENUE SUMMARY</u>							
310-TAXES		11,612,000.00	523,917.41	523,917.41	4.51	0.00	11,088,082.59
320-PERMITS AND LICENSES		494,800.00	39,162.73	39,162.73	7.91	0.00	455,637.27
330-INTERGOVERNMENTAL REV		196,600.00	0.00	0.00	0.00	0.00	196,600.00
340-CHARGES FOR SERVICES		272,400.00	20,417.01	20,417.01	7.50	0.00	251,982.99
410-FINES AND FORFEITURES		266,500.00	9,179.66	9,179.66	3.44	0.00	257,320.34
420-ASSESSMENTS		13,000.00	693.56	693.56	5.34	0.00	12,306.44
430-USE OF MONEY AND PROP		231,000.00	5,596.33	5,596.33	2.42	0.00	225,403.67
440-DONATIONS FROM PRIVAT		12,500.00	314.30	314.30	2.51	0.00	12,185.70
450-INTERFUND OPERATING T		2,008,182.00	1,612.10	1,612.10	0.08	0.00	2,006,569.90
460-PROCEEDS GEN FIXED AS		0.00	0.00	0.00	0.00	0.00	0.00
470-PROCEEDS GEN LONG TER		<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
*** TOTAL REVENUES ***		15,106,982.00	600,893.10	600,893.10	3.98	0.00	14,506,088.90
		=====	=====	=====	=====	=====	=====
<u>EXPENDITURE SUMMARY</u>							
500-CITY COUNCIL		195,588.00	8,947.70	8,947.70	4.65	150.50	186,489.80
501-CITY MANAGEMENT		668,015.00	37,622.01	37,622.01	5.63	0.00	630,392.99
503-PUBLIC INFORMATION		196,018.00	8,952.49	8,952.49	4.57	0.00	187,065.51
504-HUMAN RESOURCES		236,632.00	15,692.70	15,692.70	6.63	0.00	220,939.30
512-FINANCIAL SERVICES		603,991.00	29,853.62	29,853.62	4.94	0.00	574,137.38
516-MUNICIPAL COURT		404,147.00	17,557.20	17,557.20	4.34	0.00	386,589.80
522-DEVELOPMENT SERVICES		1,037,671.00	60,541.27	60,541.27	7.40	16,275.60	960,854.13
524-MAIN STREET PROGRAM		112,655.00	5,576.81	5,576.81	4.95	0.00	107,078.19
527-MOODY MUSEUM		9,895.00	239.44	239.44	2.42	0.00	9,655.56
532-PUBLIC LIBRARY		476,966.00	34,548.02	34,548.02	9.15	9,089.57	433,328.41
542-FIRE SUPPRESSION/EMER		2,647,342.00	196,572.63	196,572.63	11.53	108,768.00	2,342,001.37
552-POLICE FIELD SERVICES		4,005,311.00	233,650.38	233,650.38	5.99	6,413.88	3,765,246.74
558-ANIMAL CONTROL SECTIO		224,561.00	11,452.45	11,452.45	5.10	0.00	213,108.55
563-STREET & GROUND MAIN		1,705,624.00	116,087.45	116,087.45	6.98	2,880.00	1,586,656.55
565-PARKS & RECREATION		1,041,308.00	61,988.24	61,988.24	6.99	10,836.86	968,482.90
566-INTERNAL SVCS/BLDG		497,746.00	30,572.67	30,572.67	6.14	0.00	467,173.33
573-ENGINEERING & INSPECT		150,000.00	36.92	36.92	0.02	0.00	149,963.08
575-INTERNAL SVC/IT DEPT		263,243.00	17,443.50	17,443.50	6.63	0.00	245,799.50
592-NON-DEPARTMENTAL		<u>629,400.00</u>	<u>61,342.90</u>	<u>61,342.90</u>	<u>14.71</u>	<u>31,245.00</u>	<u>536,812.10</u>
*** TOTAL EXPENDITURES ***		15,106,113.00	948,678.40	948,678.40	7.51	185,659.41	13,971,775.19
		=====	=====	=====	=====	=====	=====
*** TOTAL PROFIT / (LOSS) ***		869.00	(347,785.30)	(347,785.30)	386.04-	(185,659.41)	534,313.71
		=====	=====	=====	=====	=====	=====

AS OF: OCTOBER 31ST, 2020

FINANCIAL SUMMARY

ACCT #	ACCOUNT NAME	ANNUAL BUDGET	CURRENT PERIOD	Y-T-D	% OF BUDGET	Y-T-D ENCUMB.	BUDGET BALANCE
<u>REVENUE SUMMARY</u>							
310-TAXES		205,000.00	10,726.31	10,726.31	5.23	0.00	194,273.69
420-ASSESSMENTS		0.00	0.00	0.00	0.00	0.00	0.00
430-USE OF MONEY AND PROP		<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
*** TOTAL REVENUES ***		205,000.00	10,726.31	10,726.31	5.23	0.00	194,273.69
		=====	=====	=====	=====	=====	=====
<u>EXPENDITURE SUMMARY</u>							
612-HOTEL/MOTEL TAX		<u>205,000.00</u>	<u>2,476.63</u>	<u>2,476.63</u>	<u>1.21</u>	<u>0.00</u>	<u>202,523.37</u>
*** TOTAL EXPENDITURES ***		205,000.00	2,476.63	2,476.63	1.21	0.00	202,523.37
		=====	=====	=====	=====	=====	=====
*** TOTAL PROFIT / (LOSS) ***		0.00	8,249.68	8,249.68	0.00	0.00	(8,249.68)
		-----	-----	-----	-----	-----	-----

AS OF: OCTOBER 31ST, 2020

FINANCIAL SUMMARY

ACCT #	ACCOUNT NAME	ANNUAL BUDGET	CURRENT PERIOD	Y-T-D ACTUAL	% OF BUDGET	Y-T-D ENCUMB.	BUDGET BALANCE
<u>REVENUE SUMMARY</u>							
420-ASSESSMENTS		<u>35,000.00</u>	<u>1,590.00</u>	<u>1,590.00</u>	<u>4.54</u>	<u>0.00</u>	<u>33,410.00</u>
***	TOTAL REVENUES ***	35,000.00	1,590.00	1,590.00	4.54	0.00	33,410.00
		=====	=====	=====	=====	=====	=====
<u>EXPENDITURE SUMMARY</u>							
631-ROADWAY IMPACT FEE		<u>30,000.00</u>	<u>0.00</u>	<u>0.00</u>	<u>100.00</u>	<u>30,000.00</u>	<u>0.00</u>
***	TOTAL EXPENDITURES ***	30,000.00	0.00	0.00	100.00	30,000.00	0.00
		=====	=====	=====	=====	=====	=====
***	TOTAL PROFIT / (LOSS) ***	5,000.00	1,590.00	1,590.00	568.20-	(30,000.00)	33,410.00
		=====	=====	=====	=====	=====	=====

AS OF: OCTOBER 31ST, 2020

FINANCIAL SUMMARY

ACCT #	ACCOUNT NAME	ANNUAL BUDGET	CURRENT PERIOD	Y-T-D ACTUAL	% OF BUDGET	Y-T-D ENCUMB.	BUDGET BALANCE
<u>REVENUE SUMMARY</u>							
320-PERMITS AND LICENSES		1,000.00	0.00	0.00	0.00	0.00	1,000.00
330-INTERGOVERNMENTAL REV		0.00	0.00	0.00	0.00	0.00	0.00
340-CHARGES FOR SERVICES		10,019,500.00	819,226.37	819,226.37	8.18	0.00	9,200,273.63
420-ASSESSMENTS		65,000.00	2,475.00	2,475.00	3.81	0.00	62,525.00
430-USE OF MONEY AND PROP		158,500.00	9,176.53	9,176.53	5.79	0.00	149,323.47
450-INTERFUND OPERATING T		0.00	0.00	0.00	0.00	0.00	0.00
460-PROCEEDS GEN FIXED AS		1,500.00	360.95	360.95	24.06	0.00	1,139.05
470-PROCEEDS GEN LONG TER		<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
*** TOTAL REVENUES ***		10,245,500.00	831,238.85	831,238.85	8.11	0.00	9,414,261.15
		=====	=====	=====	=====	=====	=====
<u>EXPENDITURE SUMMARY</u>							
701-UTILITIES ADMINISTRAT		447,735.00	26,660.72	26,660.72	5.95	0.00	421,074.28
706-WASTEWATER TREATMENT		666,735.00	59,372.91	59,372.91	10.94	13,572.00	593,790.09
708-UTILITY DISTRIBUTION/		1,684,396.00	127,868.35	127,868.35	9.36	29,729.03	1,526,798.62
709-UTILITIES NON-DEPARTM		<u>7,201,376.00</u>	<u>175,247.38</u>	<u>175,247.38</u>	<u>2.43</u>	<u>83.60</u>	<u>7,026,045.02</u>
*** TOTAL EXPENDITURES ***		10,000,242.00	389,149.36	389,149.36	4.33	43,384.63	9,567,708.01
		=====	=====	=====	=====	=====	=====
*** TOTAL PROFIT / (LOSS) ***		245,258.00	442,089.49	442,089.49	162.57	(43,384.63)	(153,446.86)
		=====	=====	=====	=====	=====	=====

FINANCIAL STATEMENT

AS OF: OCTOBER 31ST, 2020

345-UTILITY IMPACT FEE FUND
FINANCIAL SUMMARY

ACCT #	ACCOUNT NAME	ANNUAL BUDGET	CURRENT PERIOD	Y-T-D ACTUAL	% OF BUDGET	Y-T-D ENCUMB.	BUDGET BALANCE
<u>REVENUE SUMMARY</u>							
340-	CHARGES FOR SERVICES	<u>250,000.00</u>	<u>12,000.00</u>	<u>12,000.00</u>	<u>4.80</u>	<u>0.00</u>	<u>238,000.00</u>
***	TOTAL REVENUES ***	250,000.00 =====	12,000.00 =====	12,000.00 =====	4.80 =====	0.00 =====	238,000.00 =====
<u>EXPENDITURE SUMMARY</u>							
592-	NON-DEPARTMENTAL	<u>125,000.00</u>	<u>0.00</u>	<u>0.00</u>	<u>93.03</u>	<u>116,284.40</u>	<u>8,715.60</u>
***	TOTAL EXPENDITURES ***	125,000.00 =====	0.00 =====	0.00 =====	93.03 =====	116,284.40 =====	8,715.60 =====
***	TOTAL PROFIT / (LOSS) ***	125,000.00 =====	12,000.00 =====	12,000.00 =====	83.43- =====	(116,284.40) =====	229,284.40 =====

Attachment C

COUNCIL REPORT

CHECKS POSTED IN OCTOBER 2020

DEPARTMENT	FUND	VENDOR NAME	DESCRIPTION	AMOUNT
NON-DEPARTMENTAL	GENERAL FUND	AFLAC	AFLAC OCT. INV	1,918.81
		CLIFFORD, PENNY CHRISTINE c/o TX CHILD	CAUSE # 12-1678-FC4	253.20
			CAUSE # 12-1678-FC4	253.20
			CAUSE # 12-1678-FC4	53.17
			CAUSE # 12-1678-FC4	200.03
		PO HOLDING LLC DBA/DISCOVERY BENEFITS	38705	291.37
			38705	61.07
			38705	229.74
		DEBORAH B LANGEHENNING	SHELTON CASE NO. 18-11452	936.46
			SHELTON CASE NO. 18-11452	936.46
			SHELTON CASE NO. 18-11452	196.65
			SHELTON CASE NO. 18-11452	739.81
		HERRERA, EDITH D %ARIZONA SUPPORT PAYM	VINCENT CLIFFORD CS FOR DE	237.46
			VINCENT CLIFFORD CS FOR DE	237.46
			VINCENT CLIFFORD CS FOR DE	49.86
			VINCENT CLIFFORD CS FOR DE	187.60
		LOPEZ, SHUREEM	01-0436 D AVILES CHILD SUP	26.31
			01-0436 D AVILES CHILD SUP	26.31
			01-0436 D AVILES CHILD SUP	5.52
			01-0436 D AVILES CHILD SUP	20.79
		NATIONWIDE RETIREMENT SOLUTIONS	NATIONWIDE CONTRIBUTIONS	2,341.25
			NATIONWIDE CONTRIBUTIONS	475.91
			NATIONWIDE CONTRIBUTIONS	1,790.34
		PRE-PAID LEGAL SERVICES, INC. DBA LEGA	PRE-PAID LEGAL OCT 2020	225.30
		SHOAF, DA'SHINIQUE SHI'JUAN	STEPHPHONE JONES	128.31
			STEPHPHONE JONES	128.31
			STEPHPHONE JONES	26.94
			STEPHPHONE JONES	101.37
		CITIZENS NATIONAL BANK	FEDERAL WITHHOLDING	25,290.44
			FEDERAL WITHHOLDING	27,635.22
			FEDERAL WITHHOLDING	6,667.48
			FEDERAL WITHHOLDING	25,082.45
			MEDICARE CONTRIB AND MATCH	4,052.87
			MEDICARE CONTRIB AND MATCH	4,188.45
			MEDICARE CONTRIB AND MATCH	933.13
			MEDICARE CONTRIB AND MATCH	3,510.37
		TEXAS COMPTROLLER OF PUBLIC ACCOUNTS	Q3 2020 TAX 32600	15,948.48
		TAYLOR ECONOMIC DEV.CORP.	OCT 2020 SALES TAX ALLOCAT	98,281.80
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRS CONTRIBUTIONS	20,163.58
			TMRS CONTRIBUTIONS	17,029.50
		UNITED WAY OF WILLIAMSON COUNTY	UNITED WAY CONTRIBUTIONS	70.00
			UNITED WAY CONTRIBUTIONS	70.00
			UNITED WAY CONTRIBUTIONS	14.70
			UNITED WAY CONTRIBUTIONS	55.30
		UNUM LIFE INS CO OF AMERI	UNUM LIFE INS. PAYABLE	914.28
		TAYLOR PROFESSIONAL FIREFIGHTER ASSOCI	ACCT #2091015 TAYLOR FF AS	533.00
		KIRK, SARA DENISE	01-0282 SHANE NEWELL CHILD	138.46
			01-0282 SHANE NEWELL CHILD	138.46
			01-0282 SHANE NEWELL CHILD	29.07
			01-0282 SHANE NEWELL CHILD	109.39
		LOPEZ, NANCY C/O TX CHILD SUPPORT SDU	D1FM10000631	227.26
			D1FM10000631	227.26
			D1FM10000631	47.72
			D1FM10000631	179.54
		ICMA-RC PLAN SPONSOR SERVICES	ICMA-RC CONTRIBUTIONS	1,172.69
			ICMA-RC CONTRIBUTIONS	1,172.69

DEPARTMENT	FUND	VENDOR NAME	DESCRIPTION	AMOUNT
			ICMA-RC CONTRIBUTIONS	246.26
			ICMA-RC CONTRIBUTIONS	926.43
		SUN LIFE ASSURANCE COMPANY	DENTAL PAYABLE	2,527.58
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	<u>245.88</u>
			TOTAL:	269,908.75
CITY COUNCIL	GENERAL FUND	CAPCOG REGIONAL TRAINING ACADEMY	2021 CAPCOG ANN MEMBER FEE	1,759.70
		TAYLOR CHAMBER OF COMMERCE	MEMBERSHIP DUE-ROBERT GARC	100.00
			MEMBERSHIP DUE-BRANDT RYDE	100.00
			MEMBERSHIP DUE-DWAYNE ARI0	100.00
			MEMBERSHIP DUE-MITCHELL DR	100.00
			MEMBERSHIP DUE-GERALD ANDE	100.00
		TML INTERGOVERNMENTAL	FY20/21 WORKERS' COMP	287.00
		WALLER LANSDEN DORTCH & DAVIS, LLP	4TH ST LITIGATION	<u>4,879.00</u>
			TOTAL:	7,425.70
CITY MANAGEMENT	GENERAL FUND	JPMORGAN CHASE BANK NA	UNIVERSITY OF OKLAHOMA	2,270.00-
		CITIZENS NATIONAL BANK	FICA CONTRIBUTIONS AND MAT	1,132.07
			FICA CONTRIBUTIONS AND MAT	663.93
			FICA CONTRIBUTIONS AND MAT	177.62
			FICA CONTRIBUTIONS AND MAT	668.23
			MEDICARE CONTRIB AND MATCH	264.75
			MEDICARE CONTRIB AND MATCH	250.09
			MEDICARE CONTRIB AND MATCH	53.18
			MEDICARE CONTRIB AND MATCH	200.06
		TAYLOR CHAMBER OF COMMERCE	MEMBERSHIP DUES	200.00
		TAYLOR SPORTING GOODS	CITY MANAGEMENT SHIRTS	201.58
		TML INTERGOVERNMENTAL	FY20/21 WORKERS' COMP	274.22
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRS CONTRIBUTIONS	2,228.32
			TMRS CONTRIBUTIONS	1,790.17
		UNUM LIFE INS CO OF AMERI	UNUM AD&D	93.76
			ADJ. R. LOPEZ	0.45
		DAHILL DBA: XEROX BUSINESS SOLUTIONS S	EQUIPMENT	55.28
		SUN LIFE ASSURANCE COMPANY	DENTAL INSURANCE	158.06
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	<u>23.36</u>
			TOTAL:	6,165.13
PUBLIC INFORMATION	GENERAL FUND	CITIZENS NATIONAL BANK	FICA CONTRIBUTIONS AND MAT	125.90
			FICA CONTRIBUTIONS AND MAT	125.49
			FICA CONTRIBUTIONS AND MAT	26.43
			FICA CONTRIBUTIONS AND MAT	99.47
			MEDICARE CONTRIB AND MATCH	29.44
			MEDICARE CONTRIB AND MATCH	29.35
			MEDICARE CONTRIB AND MATCH	6.18
			MEDICARE CONTRIB AND MATCH	23.26
		TML INTERGOVERNMENTAL	FY20/21 WORKERS' COMP	40.44
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRS CONTRIBUTIONS	261.50
			TMRS CONTRIBUTIONS	207.26
		UNUM LIFE INS CO OF AMERI	UNUM AD&D	12.04
		SUN LIFE ASSURANCE COMPANY	DENTAL INSURANCE	24.82
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	<u>3.96</u>
			TOTAL:	1,015.54
HUMAN RESOURCES	GENERAL FUND	FRONT LINE MOBILE HEALTH, LLC	PRE-EMP PHYSICAL-CALEB ANC	1,625.00
		CITIZENS NATIONAL BANK	FICA CONTRIBUTIONS AND MAT	296.28
			FICA CONTRIBUTIONS AND MAT	304.38

DEPARTMENT	FUND	VENDOR NAME	DESCRIPTION	AMOUNT
			FICA CONTRIBUTIONS AND MAT	63.69
			FICA CONTRIBUTIONS AND MAT	239.60
			MEDICARE CONTRIB AND MATCH	69.30
			MEDICARE CONTRIB AND MATCH	71.19
			MEDICARE CONTRIB AND MATCH	14.89
			MEDICARE CONTRIB AND MATCH	56.05
		STRAUBEL, GERARD DBA:SPANISH LANGUAGE	5 SPANISH PROFICIENCY TESTS	120.00
		TML INTERGOVERNMENTAL	FY20/21 WORKERS' COMP	74.10
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRS CONTRIBUTIONS	634.30
			TMRS CONTRIBUTIONS	502.99
		UNUM LIFE INS CO OF AMERI	UNUM AD&D	28.38
			ADJ / C.SILVA-GONZALES	0.45
		DAHILL DBA: XEROX BUSINESS SOLUTIONS S	EQUIPMENT	55.28
		ROSS GANNAWAY, PLLC	LEGAL SRVS THRU 10/20/2020	425.00
		SUN LIFE ASSURANCE COMPANY	DENTAL INSURANCE	49.64
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	<u>7.92</u>
			TOTAL:	4,638.44
FINANCIAL SERVICES	GENERAL FUND	CITY NATIONAL BANK	SAFE DEPOSIT BOX RENTAL	55.00
		FED EX	TML CLAIM AU128757 DISC W/	17.76
		CITIZENS NATIONAL BANK	FICA CONTRIBUTIONS AND MAT	780.58
			FICA CONTRIBUTIONS AND MAT	718.00
			FICA CONTRIBUTIONS AND MAT	163.93
			FICA CONTRIBUTIONS AND MAT	616.70
			MEDICARE CONTRIB AND MATCH	182.56
			MEDICARE CONTRIB AND MATCH	167.92
			MEDICARE CONTRIB AND MATCH	38.33
			MEDICARE CONTRIB AND MATCH	144.24
		TML INTERGOVERNMENTAL	FY20/21 WORKERS' COMP	174.81
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRS CONTRIBUTIONS	1,496.23
			TMRS CONTRIBUTIONS	1,292.06
		UNUM LIFE INS CO OF AMERI	UNUM AD&D	58.57
		DAHILL DBA: XEROX BUSINESS SOLUTIONS S	EQUIPMENT	55.28
			X-PHASER 4622	46.95
		THRYV, INC.	YELLOW PAGES AD	20.00
		SUN LIFE ASSURANCE COMPANY	DENTAL INSURANCE	99.28
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	<u>15.84</u>
			TOTAL:	6,144.04
MUNICIPAL COURT	GENERAL FUND	AT&T	MUNICIPAL COURT	206.65
		TYLER TECHNOLOGIES, INC	COURT ONLINE	100.00
		OFFICE DEPOT CORPORATION	MUN COURT STAFF CALENDARS	105.52
		RELIANT ENERGY SOLUTIONS	MONTHLY ELECTRIC BILL	144.30
		CITIZENS NATIONAL BANK	FICA CONTRIBUTIONS AND MAT	413.94
			FICA CONTRIBUTIONS AND MAT	445.34
			FICA CONTRIBUTIONS AND MAT	87.55
			FICA CONTRIBUTIONS AND MAT	329.38
			MEDICARE CONTRIB AND MATCH	96.81
			MEDICARE CONTRIB AND MATCH	104.15
			MEDICARE CONTRIB AND MATCH	20.47
			MEDICARE CONTRIB AND MATCH	77.04
		TML INTERGOVERNMENTAL	FY20/21 WORKERS' COMP	156.55
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRS CONTRIBUTIONS	770.65
			TMRS CONTRIBUTIONS	569.82
		ATMOS ENERGY	NATURAL GAS-109 W. 5TH ST	52.17
		UNUM LIFE INS CO OF AMERI	UNUM AD&D	28.50

DEPARTMENT	FUND	VENDOR NAME	DESCRIPTION	AMOUNT
		CONSTABLE MARTY RUBLE	WARRANT SERVED-BENITO GOME	50.00
		QUADIENT LEASING USA, INC.	MC POSTAGE LEASE	52.55
		SUN LIFE ASSURANCE COMPANY	DENTAL INSURANCE	74.46
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	<u>11.88</u>
			TOTAL:	3,897.73
DEVELOPMENT SERVICES	GENERAL FUND	LEONARD, JENNY REBECCA DBA: LIONHEART	COMPREHENSIVE PLAN	6,175.00
		CITIZENS NATIONAL BANK	FICA CONTRIBUTIONS AND MAT	1,215.14
			FICA CONTRIBUTIONS AND MAT	1,216.90
			FICA CONTRIBUTIONS AND MAT	255.14
			FICA CONTRIBUTIONS AND MAT	959.84
			MEDICARE CONTRIB AND MATCH	284.20
			MEDICARE CONTRIB AND MATCH	284.60
			MEDICARE CONTRIB AND MATCH	59.67
			MEDICARE CONTRIB AND MATCH	224.49
		TML INTERGOVERNMENTAL	FY20/21 WORKERS' COMP	400.76
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRS CONTRIBUTIONS	2,535.87
			TMRS CONTRIBUTIONS	2,013.51
		UNUM LIFE INS CO OF AMERI	UNUM AD&D	116.01
		HUMPHREYS, JAMES BRENT DBA: MALLARD &	2211 W. 2ND ST/TRIM @WET A	265.00
			1806 LEXINGTON/ABATE,MOW,B	850.00
		DAHILL DBA: XEROX BUSINESS SOLUTIONS S	EQUIPMENT	55.28
		SUN LIFE ASSURANCE COMPANY	DENTAL INSURANCE	198.56
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	<u>31.68</u>
			TOTAL:	17,141.65
MAIN STREET PROGRAM 00	GENERAL FUND	CITIZENS NATIONAL BANK	FICA CONTRIBUTIONS AND MAT	148.33
			FICA CONTRIBUTIONS AND MAT	147.85
			FICA CONTRIBUTIONS AND MAT	31.14
			FICA CONTRIBUTIONS AND MAT	117.19
			MEDICARE CONTRIB AND MATCH	34.69
			MEDICARE CONTRIB AND MATCH	34.58
			MEDICARE CONTRIB AND MATCH	7.28
			MEDICARE CONTRIB AND MATCH	27.41
		TML INTERGOVERNMENTAL	FY20/21 WORKERS' COMP	34.18
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRS CONTRIBUTIONS	308.09
			TMRS CONTRIBUTIONS	244.19
		UNUM LIFE INS CO OF AMERI	UNUM AD&D	14.07
		DAHILL DBA: XEROX BUSINESS SOLUTIONS S	EQUIPMENT	55.28
		SUN LIFE ASSURANCE COMPANY	DENTAL INSURANCE	24.82
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	<u>3.96</u>
			TOTAL:	1,233.06
CD-MOODY MUSEUM	GENERAL FUND	RELIANT ENERGY SOLUTIONS	MONTHLY ELECTRIC BILL	189.12
		ATMOS ENERGY	NATURAL GAS-114 W 9TH ST	<u>50.32</u>
			TOTAL:	239.44
PUBLIC LIBRARY	GENERAL FUND	AT&T	LIBRARY	353.02
		AMAZON.COM SALES, INC DBA: AMAZON.COM	CAMERA,TAPE,SHEETS,CUTTING	338.91
			CRICUT EXPLORE AIR 2 MACHI	227.00
			LIBRARY OFFICE SUPPLIES-PE	24.12
		BLACKSTONE AUDIO, INC. DBA: BLACKSTONE	AUDIO BOOKS	198.00
		CENTRAL TEXAS LIBRARY SYSTEMS, INC	MEMBERSHIP SEPT 2020-AUG 2	300.00
		DEMCO, INC.	BOOK COVERS, TAPE, LAMINAT	693.85
		INGRAM BOOK COMPANY	Books	799.94
			Books	588.20

DEPARTMENT	FUND	VENDOR NAME	DESCRIPTION	AMOUNT
			Books	15.39
			LIBRARY BOOKS	128.30
			LIBRARY BOOKS	189.16
			LIBRARY BOOKS	217.51
			LIBRARY BOOKS	1,935.46
			LIBRARY BOOKS	12.94
			LIBRARY BOOKS	94.50
			LIBRARY BOOKS	30.23
			LIBRARY BOOKS	10.08
			LIBRARY BOOKS	52.52
			LIBRARY BOOKS	181.25
			LIBRARY BOOKS	275.62
			LIBRARY BOOKS	345.68
		RELIANT ENERGY SOLUTIONS	MONTHLY ELECTRIC BILL	1,110.05
		CITIZENS NATIONAL BANK	FICA CONTRIBUTIONS AND MAT	635.21
			FICA CONTRIBUTIONS AND MAT	637.39
			FICA CONTRIBUTIONS AND MAT	134.71
			FICA CONTRIBUTIONS AND MAT	506.79
			MEDICARE CONTRIB AND MATCH	148.55
			MEDICARE CONTRIB AND MATCH	149.06
			MEDICARE CONTRIB AND MATCH	31.50
			MEDICARE CONTRIB AND MATCH	118.54
		TML INTERGOVERNMENTAL	FY20/21 WORKERS' COMP	165.42
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRS CONTRIBUTIONS	1,328.21
			TMRS CONTRIBUTIONS	1,065.08
		TEXAS STATE LIBRARY AND ARCHIVES COMMI	TEXSHARE DATABASE	438.00
		ATMOS ENERGY	NATURAL GAS-801 VANCE ST	50.32
		UNUM LIFE INS CO OF AMERI	UNUM AD&D	60.63
		ABLE CARD, LLC	Library Cards	983.26
		SUN LIFE ASSURANCE COMPANY	DENTAL INSURANCE	148.92
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	23.76
			TOTAL:	14,747.08
FIRE DEPARTMENT	GENERAL FUND	AT&T	CITY HALL (CIVIL DEF)	36.81
			VICTORIA STATION	128.01
			FIRE DEPT	173.40
		AMAZON.COM SALES, INC DBA: AMAZON.COM	VACUUM & CHAIR PADS	133.81
			CHROMEBOXES FOR STATION 1	539.98
		DAVIS, TIM	TFCA FIRE CHIEF ACADEMY-YE	130.00
		WORKING FIRE FURNITURE & MATTRESS CO I	RECLINERS	5,992.00
		MY-LOR, INC	LOCKER PLATES-SORRICK, ANCH	23.09
		NATIONAL FIRE PROTECTION ASSOCIATION	ANNUAL CODES	1,400.00
			ANNUAL DUES - BAUM	175.00
		RELIANT ENERGY SOLUTIONS	MONTHLY ELECTRIC BILL	887.25
		CITIZENS NATIONAL BANK	FICA CONTRIBUTIONS AND MAT	3,701.23
			FICA CONTRIBUTIONS AND MAT	4,455.43
			FICA CONTRIBUTIONS AND MAT	1,066.75
			FICA CONTRIBUTIONS AND MAT	4,013.03
			MEDICARE CONTRIB AND MATCH	865.62
			MEDICARE CONTRIB AND MATCH	1,041.99
			MEDICARE CONTRIB AND MATCH	249.48
			MEDICARE CONTRIB AND MATCH	938.53
		TEXAS COMMISSION ON FIRE PROTECTION	ANNUAL RENEWALS	1,500.00
		TML INTERGOVERNMENTAL	FY20/21 WORKERS' COMP	6,000.97
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRS CONTRIBUTIONS	9,284.52
			TMRS CONTRIBUTIONS	8,405.91

DEPARTMENT	FUND	VENDOR NAME	DESCRIPTION	AMOUNT
		ATMOS ENERGY	NATURAL GAS-705 CARLOS PAR	61.38
			NATURAL GAS-200 WASHBURN S	68.12
		UNUM LIFE INS CO OF AMERI	UNUM AD&D	283.13
			TERM ST. JACQUES	10.22-
			ADJ. M. VRABEL	0.23
		WILLIAMSON COUNTY AUDITOR'S OFFICE	FD 1ST QUARTERLY RADIO PAY	3,719.76
		SANDERS, BRANDON	TFCA FIRE CHIEF ACADEMY-YE	130.00
		RUSSELL, WES	REIM INVESTGATOR EXAM&TEST	76.49
		HAYDAY, INC DBA: CTWP	FD MONTHLY COPIER AGREEMEN	33.00
		SOUTHERN SAFETY SALES, INC	MEDICAL GLOVES	163.59
		AT&T U-VERSE	FD INTERNET/CABLE	151.54
		SUN LIFE ASSURANCE COMPANY	DENTAL INSURANCE	496.40
			TERM ST. JACQUES	24.82-
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	83.16
		HUCKABAY, DANNY D	INSTALL	<u>2,250.00</u>
			TOTAL:	58,624.57
POLICE DEPARTMENT	GENERAL FUND	AT&T	POLICE DEPT	201.63
			TELEPHONE	387.51
			INTERNET	1,481.60
		MOSS & MOSS INC. #7000	PAINT STEEL TARGET/BASE/PO	20.20
		RELIANT ENERGY SOLUTIONS	MONTHLY ELECTRIC BILL	955.41
		CITIZENS NATIONAL BANK	FICA CONTRIBUTIONS AND MAT	5,531.93
			FICA CONTRIBUTIONS AND MAT	5,486.35
			FICA CONTRIBUTIONS AND MAT	1,209.80
			FICA CONTRIBUTIONS AND MAT	4,551.18
			MEDICARE CONTRIB AND MATCH	1,293.77
			MEDICARE CONTRIB AND MATCH	1,283.13
			MEDICARE CONTRIB AND MATCH	282.93
			MEDICARE CONTRIB AND MATCH	1,064.39
		TML INTERGOVERNMENTAL	FY20/21 WORKERS' COMP	9,392.83
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRS CONTRIBUTIONS	11,486.29
			TMRS CONTRIBUTIONS	9,627.20
		TIME WARNER CABLE DBA SPECTRUM	PD INTERNET/TV SRVS OCT 20	343.40
		UNUM LIFE INS CO OF AMERI	UNUM AD&D	484.84
			UNUM AD&D	11.13
		WILLIAMSON COUNTY AUDITOR'S OFFICE	PD 1ST QR RADIO FEE/ 64 RA	5,410.56
		OLLE NETWORK TECH CONSULTANTS DBA ON T	MONTHLY IT SUPPORT - OCT 2	6,850.00
		GALLS PARENT HOLDINGS, LLC.		71.44
				227.24
				437.00
			SHIPPING & HANDLING	39.41
				71.44
		SUN LIFE ASSURANCE COMPANY	DENTAL INSURANCE	893.01
			DENTAL INSURANCE/VOCA.P.MO	24.82
		CIT BANK, N.A DBA AVAYA FINANCIAL SERV	AVAYA SOFTWARE	511.39
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	146.52
			DENTAL SELEC VISION NOV. I	3.96
			TERM / ST. JACQUES	<u>3.96-</u>
			TOTAL:	69,778.35
ANIMAL CONTROL	GENERAL FUND	AT&T	ANIMAL CONTROL	136.77
		EVINS TEMPORARIES, INC.	ACO KENNEL TEMP- S. CARTER	737.36
		RELIANT ENERGY SOLUTIONS	MONTHLY ELECTRIC BILL	232.31
		CITIZENS NATIONAL BANK	FICA CONTRIBUTIONS AND MAT	316.93
			FICA CONTRIBUTIONS AND MAT	192.90

DEPARTMENT	FUND	VENDOR NAME	DESCRIPTION	AMOUNT
			FICA CONTRIBUTIONS AND MAT	40.61
			FICA CONTRIBUTIONS AND MAT	152.80
			MEDICARE CONTRIB AND MATCH	74.12
			MEDICARE CONTRIB AND MATCH	45.11
			MEDICARE CONTRIB AND MATCH	9.49
			MEDICARE CONTRIB AND MATCH	35.74
		TML INTERGOVERNMENTAL	FY20/21 WORKERS' COMP	782.74
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRS CONTRIBUTIONS	401.98
			TMRS CONTRIBUTIONS	318.59
		UNUM LIFE INS CO OF AMERI	UNUM AD&D	18.17
			TERM SHRUM-HAMMER	6.36-
		WAL-MART COMMUNITY/GEMB	ACO CLEANING SUPPLIES-TRAS	88.00
		SUN LIFE ASSURANCE COMPANY	DENTAL INSURANCE	24.82
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	7.92
			TOTAL:	3,610.00
STREETS & GROUND MAINT GENERAL FUND		AT&T	PUBLIC WORKS	254.82
		B&M MATTA CONST. LLC	LAKE @ HWY 95/ADA RAMP INS	6,800.00
		CENTERLINE SUPPLY, INC	ST,GR/STREET PATCHING MATE	850.00
		PROGRESSIVE WASTE SOLUTIONS DBA WC OF	ST,GR/2 20YD,1 40YD 107596	846.87
		THE LEVY COMPANY, INC.	SCHOOL ZONE FLASH LIGHTS/R	600.00
		MAIN STREET RENTAL INC	HWY 79 ENTRY SIGN/TILLER R	175.00
		MOSS & MOSS INC. #4000	CHAMBER PARK LOT/CONCRETE,	26.15
			ST,GR/1 PKG MENS GLOVES 14	9.99
			ST,GR/HEX KEY 187617	10.79
			CITY HALL FOYER BOX/KEYS18	3.98
		OFFICE DEPOT CORPORATION	ST,GR/FOLDES,TH DRIVE,MOUS	47.82
			ST,GR/LEGAL PADS 546001	5.39
		POPE MATERIALS INC	602 RIO GRANDE/1 LOAD REG	351.69
		RELIANT ENERGY SOLUTIONS	MONTHLY ELECTRIC BILL	4,796.66
		SHI GOVERNMENT SOLUTIONS	ACROBAT PRO DC	47.75
		CITIZENS NATIONAL BANK	FICA CONTRIBUTIONS AND MAT	1,584.24
			FICA CONTRIBUTIONS AND MAT	1,648.22
			FICA CONTRIBUTIONS AND MAT	351.17
			FICA CONTRIBUTIONS AND MAT	1,321.09
			MEDICARE CONTRIB AND MATCH	370.52
			MEDICARE CONTRIB AND MATCH	385.47
			MEDICARE CONTRIB AND MATCH	82.13
			MEDICARE CONTRIB AND MATCH	308.98
		TML INTERGOVERNMENTAL	FY20/21 WORKERS' COMP	6,577.59
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRS CONTRIBUTIONS	3,434.64
			TMRS CONTRIBUTIONS	2,777.12
		TRACTOR SUPPLY COMPANY	B BACHMEYER/4 PR JEANS 601	155.96
			ST,GR/IMP WRENCH SIGN INST	299.99
		ATMOS ENERGY	1424 N MAIN/GAS USAGE 1384	47.36
		UNUM LIFE INS CO OF AMERI	UNUM AD&D	152.79
			TERM OLIVAREZ	6.81-
		WAL-MART COMMUNITY/GEMB	J SCHUTZ/COMP SPEAKERS,MOU	34.76
		WILLIAMSON COUNTY AUDITOR'S OFFICE	ST,GR/7 HAND HELD RADIO 1S	591.78
		HAYDAY, INC DBA: CTWP	ST,GR/COPIER MAINT AGREEME	91.78
		CINTAS CORPORATION #86	ST,GR/UNIFORMS 154489	234.50
			ST,GR/UNIFORMS 889078	234.50
			ST,GR/UNIFORMS 540624	234.50
			ST,GR/UNIFORMS 201852	234.36
		SAFELANE TRAFFIC SUPPLY, LLC	ST,GR/STREET NAME SIGNS 13	99.00
			AVERY GLEN/SCHOOL CROSS SI	439.00

DEPARTMENT	FUND	VENDOR NAME	DESCRIPTION	AMOUNT
			AVERY GLEN/ALENE DR SIGNAG	21.00
		SUN LIFE ASSURANCE COMPANY	DENTAL INSURANCE	372.30
		CIT BANK, N.A DBA AVAYA FINANCIAL SERV	SECURITY CAMERA SYSTEM	167.59
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	55.44
			TOTAL:	37,127.88
PARKS & RECREATION	GENERAL FUND	AT&T	PARKS & REC	42.97
		JIM McNABB INC DBA: ART OFFICE SIGNS	TRPSC/"NO RV/TRAILER PARKI	65.00
		FLOYDCO INC	HERITAGE PK R ROOM/MIRROR	198.00
		GULF COAST PAPER CO. INC.	PARKS R ROOMS/55 GAL LINER	31.25
		HEART OF TEXAS LANDSCAPE & IRRIGATION	HERITAGE PK/IRRIGATION REP	152.50
			MURPHY PK/IRRIG REPAIR PAR	394.50
			TRPSC/IRRIGATION REPAIR 89	777.50
		MATERA PAPER CO INC	TRPSC/CLEANING SUPPLIES 18	841.35
			TRPSC/55 GAL BLACK LINER18	285.20
			TRPSC/HAND SOAP 183971	287.94
		MOBILE MINI, INC	TRPSC/PORTABLE 10/6-11/4/2	102.00
		MOSS & MOSS INC. #4000	ST,GR/CLEANING GLOVES 1468	3.14
		MOSS & MOSS INC. #5000	TRPSC/HARDWARE 147162	39.55
			TRPSC/4 PK PLATES 186528	4.49
			TRPSC/SNAPS, LINKS, MAGNE 18	7.15
			TRPSC/ORANGE PAINT 188133	24.24
		NANCY RUTH BARRON	TRPSC/SHOP KEYS 11197	74.00
		PAUL'S POOL SERVICE	HERITAGE S PAD/LIQ CHLOR,M	183.84
			HERITAGE S PAD/LIQ CHLORIN	59.88
		RELIANT ENERGY SOLUTIONS	MONTHLY ELECTRIC BILL	2,865.25
			MONTHLY ELECTRIC BILL	780.14
		CITIZENS NATIONAL BANK	FICA CONTRIBUTIONS AND MAT	890.24
			FICA CONTRIBUTIONS AND MAT	906.91
			FICA CONTRIBUTIONS AND MAT	214.51
			FICA CONTRIBUTIONS AND MAT	806.98
			MEDICARE CONTRIB AND MATCH	208.20
			MEDICARE CONTRIB AND MATCH	212.10
			MEDICARE CONTRIB AND MATCH	50.16
			MEDICARE CONTRIB AND MATCH	188.74
		TML INTERGOVERNMENTAL	FY20/21 WORKERS' COMP	1,600.17
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRs CONTRIBUTIONS	1,889.88
			TMRs CONTRIBUTIONS	1,693.75
		TRACTOR SUPPLY COMPANY	TRPSC/SPRAYER, TIP, COUPL704	33.97
		ATMOS ENERGY	1418 DAVIS/ACCT 1738 GAS U	54.48
			1418 DAVIS/ACCT 1774 GAS U	54.48
		UNUM LIFE INS CO OF AMERI	UNUM AD&D	81.97
		WAYNE GING PLUMBING, LLC	BB PK PAV R ROOM/TOILET RE	154.00
			BB B FIELD/R ROOM TOILET R	128.00
		CINTAS CORPORATION #86	TRPSC/UNIFORMS 154716	32.97
			TRPSC/UNIFORMS 889246	32.97
			TRPSC/UNIFORMS 540650	32.97
			TRPSC/UNIFORMS 201799	32.97
		OLMSTEAD, NORMAN	REIM N OLMSTEAD/NITRILE GL	47.97
		DAVID FENSKE SAND & GRAVEL LLC	TRPSC/24YD RED INFIELD TOP	400.00
		SUN LIFE ASSURANCE COMPANY	DENTAL INSURANCE	198.56
		CIT BANK, N.A DBA AVAYA FINANCIAL SERV	SECURITY CAMERA SYSTEM	167.58
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	31.68
		NORTHWEST CASCADE INC DBA HONEY BUCKET	ROBINSON PAV/PORTA10/9-11/	233.50
			TOTAL:	17,599.60

DEPARTMENT	FUND	VENDOR NAME	DESCRIPTION	AMOUNT
INTERNAL SERVICES/BLDG GENERAL FUND		ARNOLD OIL COMPANY OF AUSTIN, LP DBA A AT&T	FIRE DEPT GAGE	14.29
			CITY HALL FAX	527.18
			TELEPHONE	387.51
		AMAZON.COM SALES, INC DBA: AMAZON.COM	BATTERIES	86.14
			COFFEE	29.94
			CREAMER	34.03
			CLOROX URINE REMOVER FOR O	64.99
		ALADDIN CARPET & INTERIOR	STATION #1&2 CLEAN CARPET	860.00
			FIRE STATIONS STRIP TILE F	950.00
		CL&MA JANITORIAL SERVICES LLC	OCT 2020 JANITORIAL SERVIC	1,300.00
		HOME DEPOT CREDIT SERVICES	STATION #2 CAULK	43.07
		STRATEGIC EQUIPMENT, LLC DBA:	STATION #1 CLEANED ICE MAC	293.27
		KOETTER FIRE PROTECTION OF AUSTIN, LLC	STATION #1 CHECKED FIRE SY	330.00
			LIBRARY TROUBLESHOOT FIRE	990.00
		MOSS & MOSS INC. #6000	BATTERIES FOR DISPENSERS	30.58
			DISPENSER BATTERIES	14.57
			WWTP SEALANT, TAPE, SCREWD	70.14
			CITY HALL BALLCOCK	7.64
		RELIANT ENERGY SOLUTIONS	MONTHLY ELECTRIC BILL	1,049.56
		CITIZENS NATIONAL BANK	FICA CONTRIBUTIONS AND MAT	435.46
			FICA CONTRIBUTIONS AND MAT	433.15
			FICA CONTRIBUTIONS AND MAT	91.44
			FICA CONTRIBUTIONS AND MAT	344.01
			MEDICARE CONTRIB AND MATCH	101.84
			MEDICARE CONTRIB AND MATCH	101.30
			MEDICARE CONTRIB AND MATCH	21.38
			MEDICARE CONTRIB AND MATCH	80.46
		TEXAS COMPTROLLER OF PUBLIC ACCOUNTS	TEXAS CO-OP MEMBERSHIP	100.00
		TML INTERGOVERNMENTAL	FY20/21 WORKERS' COMP	834.92
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRS CONTRIBUTIONS	902.63
			TMRS CONTRIBUTIONS	723.43
		ATMOS ENERGY	NATURAL GAS-400 PORTER ST	55.84
		UNUM LIFE INS CO OF AMERI	UNUM AD&D	39.06
		VIC'S HEAT & AIR	WWTP SERVICE A/C	187.50
		WAYNE GING PLUMBING, LLC	ACO INSTALL SINK	329.55
		SPARKLETTS & SIERRA SPRINGS	COOLER RENTAL	8.00
		CINTAS CORPORATION #86	MATS	90.89
			MATS	93.64
			MATS	139.51
		QUADIENT LEASING USA, INC.	CH POSTAGE LEASE	199.47
			CH POSTAGE LEASE	199.47
		SUN LIFE ASSURANCE COMPANY	DENTAL INSURANCE	86.87
		SHARCO TECHNOLOGIES, INC.	PHONE NAME CHANGE	95.00
			INSTALL SOFTWARE FOR LISA	95.00
			SECURITY CAMERA SYSTEM	167.58
		CIT BANK, N.A DBA AVAYA FINANCIAL SERV	SECURITY CAMERA SYSTEM	167.58
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	13.86
			TOTAL:	13,054.17
ENGINEERING & INSPECTI GENERAL FUND		RELIANT ENERGY SOLUTIONS	MONTHLY ELECTRIC BILL	36.92
			TOTAL:	36.92
INTERNAL SVC/ I T DEPT GENERAL FUND		AT&T	INTERNET	1,481.60
			FICA CONTRIBUTIONS AND MAT	121.86
		CITIZENS NATIONAL BANK	FICA CONTRIBUTIONS AND MAT	121.47
			FICA CONTRIBUTIONS AND MAT	25.59
			FICA CONTRIBUTIONS AND MAT	96.27

DEPARTMENT	FUND	VENDOR NAME	DESCRIPTION	AMOUNT
			MEDICARE CONTRIB AND MATCH	28.50
			MEDICARE CONTRIB AND MATCH	28.41
			MEDICARE CONTRIB AND MATCH	5.98
			MEDICARE CONTRIB AND MATCH	22.52
		TML INTERGOVERNMENTAL	FY20/21 WORKERS' COMP	30.53
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRS CONTRIBUTIONS	253.12
			TMRS CONTRIBUTIONS	200.62
		TIME WARNER CABLE DBA SPECTRUM	CABLE	77.86
		UNUM LIFE INS CO OF AMERI	UNUM AD&D	11.58
		OLLE NETWORK TECH CONSULTANTS DBA ON T	IT CONSULTING	7,455.37
			ANTI VIRUS SOFTWARE	438.00
		SUN LIFE ASSURANCE COMPANY	DENTAL INSURANCE	24.82
		SHARCO TECHNOLOGIES, INC.	CH CHANGE VM PASSWORDS	94.00
		CIT BANK, N.A DBA AVAYA FINANCIAL SERV	PHONE LEASE	2,500.37
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	<u>3.96</u>
			TOTAL:	13,022.43
NON-DEPARTMENTAL	GENERAL FUND	AMAZON.COM SALES, INC DBA: AMAZON.COM	COLOROX	32.50
		CAPCOG REGIONAL TRAINING ACADEMY	CAPCOG AIR QUALITY FY 20-2	970.00
		CL&MA JANITORIAL SERVICES LLC	2X WEEKLY CLEAN- OCTOBER 2	695.00
			DAY PORTER EXTRA CLEANING	2,576.00
			DEEP CLEANING-UTIL MAINT 9	115.00
		CNA SURETY	BLANKET NOTARY E/O POLICY	406.00
		HALFF ASSOCIATES, INC.	DRAINAGE MASTER PLAN	8,799.00
		MATERA PAPER CO INC	DISINFECTANT WIPES	141.96
			COVID-19 ANTIBACT SPRAY MI	4,290.00
		RUSHWORKS	VIDEO ROUTER	4,341.00
		TAYLOR FEED & SUPPLY	PLANTER BOXES	1,612.10
		TML INTERGOVERNMENTAL	FY20/21 ERRORS & OMISSIONS	1,785.83
			FY20/21 GENERAL LIABILITY	1,122.80
			FY20/21 LAW ENFORCEMENT LI	3,948.75
			FY20/21 CRIME PUB EMP DIS	661.50
			FY20/21 REAL & PERS PROP	7,710.68
		WILLIAMSON COUNTY & CITIES HEALTH DIST	Q1 2020/21 WCCHD COOP AGRE	10,085.61
		OLLE NETWORK TECH CONSULTANTS DBA ON T	COVID-19 REMOTE EMPLOYEE	<u>125.00</u>
			TOTAL:	49,418.73
TIF EXPENDITURES	TIF (TAX INCREMENT	MOSS & MOSS INC. #3000	HWY 79 SIGN/IRRIGATION INS	12.59
		MOSS & MOSS INC. #4000	HWY 79 SIGN/IRRIGATION INS	29.67
			HWY 79 SIGN/BLUEBONNET IRR	287.96
			HWY 79 SIGN/IRRIG REPAIR&I	121.47
		WILLIAMSON COUNTY GRAIN	HWY 79 SIGN/BLUEBONNET SEE	2,500.00
			HWY 79 SIGN/BLUEBONNET SEE	1,100.00
		MCCOY'S BUILDING SUPPLY	HWY 79/IRRIG INSTALL BLUEB	159.37
			HWY 79/IRRIGAT INSTALL PAR	10.11
			HWY 79 ENTRY/IRRIGATION RE	<u>102.56</u>
			TOTAL:	4,323.73
CONTRIBUTE CIVIC PROGR MAIN STREET REVENUE	HARRIS, JAN C DAVIS		REIM TABLE, CUPS, STORAGE	<u>180.45</u>
			TOTAL:	180.45
MUNICIPAL COURT JUDICI MUNICIPAL CRT SPEC EVINS TEMPORARIES, INC.			TEMP CRT CLERK/DIANNA SOSA	504.00
			TEMP CRT CLERK/DIANNA SOSA	504.00
			TEMP CRT CLERK/DIANNA SOSA	<u>504.00</u>
			TOTAL:	1,512.00

DEPARTMENT	FUND	VENDOR NAME	DESCRIPTION	AMOUNT
LIBRARY	LIBRARY GRANT/DONA OVERDRIVE, INC		OVERDRIVE E-BOOKS	<u>3,000.00</u>
			TOTAL:	3,000.00
GIVENS COMMUNITY CENTE	GENERAL CAPITAL IM	RELIANCE ARCHITECTURE	DICKEY-GIVENS COMM CENTER	<u>6,515.00</u>
			TOTAL:	6,515.00
NON-DEPARTMENTAL	SANITATION FUND	TEXAS COMPTROLLER OF PUBLIC ACCOUNTS	SALES&USE TAX ENDING 9/30/	<u>3,573.60</u>
			TOTAL:	3,573.60
NON-DEPARTMENTAL	PUBLIC UTILITIES F	AFLAC	AFLAC OCT. INV	459.18
		PRE-PAID LEGAL SERVICES, INC. DBA LEGA	PRE-PAID LEGAL OCT 2020	53.80
		CITIZENS NATIONAL BANK	FEDERAL WITHHOLDING	3,262.13
			FEDERAL WITHHOLDING	3,115.05
			FEDERAL WITHHOLDING	618.88
			FEDERAL WITHHOLDING	2,328.20
			MEDICARE CONTRIB AND MATCH	572.43
			MEDICARE CONTRIB AND MATCH	553.32
			MEDICARE CONTRIB AND MATCH	110.97
			MEDICARE CONTRIB AND MATCH	417.48
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRS CONTRIBUTIONS	2,676.85
			TMRS CONTRIBUTIONS	2,029.63
		UNUM LIFE INS CO OF AMERI	UNUM LIFE INS. PAYABLE	92.05
		MILLS, TERESA NICHOLE c/o TX CHILD SUP	01-346 EDWARD AVALOS, JR.	312.46
			01-346 EDWARD AVALOS, JR.	312.46
			01-346 EDWARD AVALOS, JR.	65.61
			01-346 EDWARD AVALOS, JR.	246.85
		SUN LIFE ASSURANCE COMPANY	DENTAL PAYABLE	291.84
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	<u>23.36</u>
			TOTAL:	17,542.55
UTILITIES ADMINISTRATI	PUBLIC UTILITIES F	BRINKS, INC.	SEPTEMBER BRINKS	551.33
		TYLER TECHNOLOGIES, INC	UTILITY BILLING CIS	270.00
		McCREARY, VESELKA, BRAGG & ALLEN PC	BAD DEBT FEES-MICHAEL GARC	41.20
			BAD DEBT-LECHLER CONSTRUCT	17.88
		OFFICE DEPOT CORPORATION	UTILITY BILLING INK	88.31
			UTILITY BILLING PENS	31.44
			UTILITY BILLING TONER	91.99
			DONNA'S PRINTER INK	88.31
			UB PAPER,PEN,RIBBON,RUBBER	182.17
			UTILITY BILLING RUBBERBAND	14.39
		CITIZENS NATIONAL BANK	FICA CONTRIBUTIONS AND MAT	533.99
			FICA CONTRIBUTIONS AND MAT	531.77
			FICA CONTRIBUTIONS AND MAT	119.13
			FICA CONTRIBUTIONS AND MAT	448.16
			MEDICARE CONTRIB AND MATCH	124.89
			MEDICARE CONTRIB AND MATCH	124.36
			MEDICARE CONTRIB AND MATCH	27.86
			MEDICARE CONTRIB AND MATCH	104.82
		TML INTERGOVERNMENTAL	FY20/21 WORKERS' COMP	574.01
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRS CONTRIBUTIONS	1,108.13
			TMRS CONTRIBUTIONS	941.20
		UNUM LIFE INS CO OF AMERI	UNUM AD&D	50.86
		SHY, CATHERINE	C. SHY SERVICES	135.00
		SUN LIFE ASSURANCE COMPANY	DENTAL INSURANCE	148.92
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	<u>23.76</u>
			TOTAL:	6,373.88

DEPARTMENT	FUND	VENDOR NAME	DESCRIPTION	AMOUNT
WASTEWATER TREATMENT	PUBLIC UTILITIES F AT&T		WASTE WATER	72.32
		AMAZON.COM SALES, INC DBA: AMAZON.COM	PRESSURE WASHER NOZZLE	19.08
			WWTP COPY PAPER	28.78
			WWTP MICROSCOPE SLIDES	8.99
			PRESS PLATES/BEARING PULLE	113.98
		HUTHER AND ASSOC., INC.	BIOMONITORING- WWTP	615.00
		PROGRESSIVE WASTE SOLUTIONS DBA WC OF	WWT/8 SLUDGE HAULS10759631	3,880.40
		TRAC-N-TROL, INC.	SCADA SUPP-WWTP 20-21	1,242.75
		MOSS & MOSS INC. #3000	FINE SCREEN REPAIRS-WWTP	4.29
			NPW SYSTEM- PAINT & MARKER	20.47
			BARSCREEN REPAIR-SEALANT,C	32.37
			FINE SCREEN REPAIR-MISC HD	19.52
			MISC HDWR- FINE SCREEN REP	14.32
			FINESCREEN- WWTP-MISC HARD	18.32
			NPW REPAIR-MISC HARDWARE	4.58
		PARKSON CORPORATION	WWTP FREIGHT-SPACERS&WASHE	12.65
			FINE SCREEN-BEARING, FLANGL	783.68
		RELIANT ENERGY SOLUTIONS	MONTHLY ELECTRIC BILL	12,553.85
		RISE SKYBEAM/JAB BROADBAND INC.	WWTP INTERNET	117.13
			WWTP INTERNET	117.13
		CITIZENS NATIONAL BANK	FICA CONTRIBUTIONS AND MAT	375.68
			FICA CONTRIBUTIONS AND MAT	311.81
			FICA CONTRIBUTIONS AND MAT	55.74
			FICA CONTRIBUTIONS AND MAT	209.70
			MEDICARE CONTRIB AND MATCH	87.87
			MEDICARE CONTRIB AND MATCH	72.92
			MEDICARE CONTRIB AND MATCH	13.03
			MEDICARE CONTRIB AND MATCH	49.05
		TML INTERGOVERNMENTAL	FY20/21 WORKERS' COMP	652.28
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRS CONTRIBUTIONS	660.08
			TMRS CONTRIBUTIONS	436.99
		TRACTOR SUPPLY COMPANY	WORK BOOTS- NEW HIRE- WWTP	176.98
		UNUM LIFE INS CO OF AMERI	UNUM AD&D	19.06
		WAL-MART COMMUNITY/GEMB	TEE UNIFORMS- WWTP	201.06
		USA BLUEBOOK; INC. DBA	CHART PAPER- WWTP	65.51
			HACH M-COLIBLUE 24 BROTH,	437.83
		SUN LIFE ASSURANCE COMPANY	DENTAL INSURANCE	74.46
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	7.92
			TOTAL:	23,587.58
DISTRIBUTION/COLLECTIO	PUBLIC UTILITIES F AT&T		PUMP STATION	232.01
		AMAZON.COM SALES, INC DBA: AMAZON.COM	BATTERIES/PUSH PINS/PENS	32.23
		B2O & ASSOCIATES, INC.	MARKING PAINT/GLOVES	300.00
		NCH CORPORATION DBA	CHERRY FLOW	1,080.21
		KEVIN COPELAND SAND/GRAVL	SANDY LOAM- 68 TONS	1,022.40
		DPC INDUSTRIES, INC.	CHLORINE & AMMONIUM SULFAT	1,015.86
		EARLE KINLAW & ASSOCIATES, INC DBA: EK	BORING EQUIPMENT	19,594.42
		CORE & MAIN LP	METERS,HEADS, BOLT KITS	24,366.60
		JERRY FARMER'S GRASS SALE	GRASS FOR SPEEGLE ST.	320.00
		MOSS & MOSS INC. #3000	PVC PIPE- CEMETERY REPAIRS	7.64
			3RD&PARK ST-BUSHING,BALL V	11.84
			PVC PIPE- CEMETERY REPAIRS	7.64
			KEYS- VAC TRUCK	17.94
			BATTERIES- ADT ALARM SYSTE	43.15
			RED BRS NIPPLE-NEW VAC TRU	4.49
			CEMETERY JOB-WELD KIT,COUP	35.06

DEPARTMENT	FUND	VENDOR NAME	DESCRIPTION	AMOUNT
			CEMETERY WATER LEAK-ADAPTE	15.10
		RELIANT ENERGY SOLUTIONS	MONTHLY ELECTRIC BILL	3,806.15
		SHI GOVERNMENT SOLUTIONS	ACROBAT PRO DC	47.75
		CITIZENS NATIONAL BANK	FICA CONTRIBUTIONS AND MAT	1,537.88
			FICA CONTRIBUTIONS AND MAT	1,522.39
			FICA CONTRIBUTIONS AND MAT	299.62
			FICA CONTRIBUTIONS AND MAT	1,127.15
			MEDICARE CONTRIB AND MATCH	359.67
			MEDICARE CONTRIB AND MATCH	356.04
			MEDICARE CONTRIB AND MATCH	70.07
			MEDICARE CONTRIB AND MATCH	263.62
		TML INTERGOVERNMENTAL	FY20/21 WORKERS' COMP	3,391.86
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRs CONTRIBUTIONS	3,172.47
			TMRs CONTRIBUTIONS	2,367.93
		TECHLINE PIPE, L.P	6" PIPE AND COUPLINGS	615.92
		ATMOS ENERGY	NATURAL GAS-1200 N MAIN ST	68.73
		UNUM LIFE INS CO OF AMERI	UNUM AD&D	126.47
		WILLIAMSON COUNTY GRAIN	UTIL MAINT 2 GALLON SPRAYE	38.50
		USA BLUEBOOK; INC. DBA	DISSOLVED OXYGEN METER	879.81
			COLORIMETER/PCT TESTERS	668.87
		PRO-CHEM, INC.	CHEMICALS AND GLOVES	1,182.19
		CINTAS CORPORATION #86	UNIFORM RENTAL-UTILITY MAI	192.38
			UNIFORM RENTAL- UTILITY MA	192.38
			UNIFORM RENTAL-UTIL MAINT	192.38
			UNIFORM RENTAL-UTILITY MAI	192.38
		CRUZ, JUSTIN	CRUZ, JUSTIN- DPS-MODIFY D	69.00
		SUN LIFE ASSURANCE COMPANY	DENTAL INSURANCE	322.66
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	51.48
		COMMUNITY COFFEE COMPANY LLC	12 OZ AND 20 OZ CUPS	86.40
			TOTAL:	71,308.74
UTILITIES NONDEPARTMEN	PUBLIC UTILITIES F	BRAZOS RIVER AUTHORITY	EWC WTP/O&M 363	166,512.86
		TML INTERGOVERNMENTAL	FY20/21 ERRORS & OMISSIONS	1,706.46
			FY20/21 GENERAL LIABILITY	743.36
			FY20/21 REAL & PERS PROP	4,737.96
			DEDUCTIBLE LB127441 CLAIM	1,000.00
		RUSSELL RODRIGUEZ HYDE BULLOCK LLP	CNN MATTERS-ART RODRIGUEZ	1,075.00
			TOTAL:	175,775.64
NON-DEPARTMENTAL	AIRPORT FUND	PRE-PAID LEGAL SERVICES, INC. DBA LEGA	PRE-PAID LEGAL OCT 2020	18.95
		CITIZENS NATIONAL BANK	FEDERAL WITHHOLDING	245.07
			FEDERAL WITHHOLDING	238.98
			FEDERAL WITHHOLDING	51.46
			FEDERAL WITHHOLDING	193.61
			MEDICARE CONTRIB AND MATCH	2.28
			MEDICARE CONTRIB AND MATCH	35.85
			MEDICARE CONTRIB AND MATCH	34.87
			MEDICARE CONTRIB AND MATCH	7.52
			MEDICARE CONTRIB AND MATCH	28.33
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRs CONTRIBUTIONS	10.99
			TMRs CONTRIBUTIONS	168.34
			TMRs CONTRIBUTIONS	137.77
		SUN LIFE ASSURANCE COMPANY	DENTAL PAYABLE	33.96
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	3.56
			TOTAL:	1,211.54

DEPARTMENT	FUND	VENDOR NAME	DESCRIPTION	AMOUNT
AIRPORT OPERATIONS DEP AIRPORT FUND		AT&T	AIRPORT	113.73
		AVFUEL CORP.	100LL AVIATION FUEL	11,636.11
		RELIANT ENERGY SOLUTIONS	MONTHLY ELECTRIC BILL	601.56
		RISE SKYBEAM/JAB BROADBAND INC.	AIRPORT INTERNET	93.13
		CITIZENS NATIONAL BANK	FICA CONTRIBUTIONS AND MAT	9.73
			FICA CONTRIBUTIONS AND MAT	153.29
			FICA CONTRIBUTIONS AND MAT	149.10
			FICA CONTRIBUTIONS AND MAT	32.19
			FICA CONTRIBUTIONS AND MAT	121.11
			MEDICARE CONTRIB AND MATCH	2.28
			MEDICARE CONTRIB AND MATCH	35.85
			MEDICARE CONTRIB AND MATCH	34.87
			MEDICARE CONTRIB AND MATCH	7.52
			MEDICARE CONTRIB AND MATCH	28.33
		TML INTERGOVERNMENTAL	FY20/21 AIRPORT LIABILITY	921.50
			FY20/21 ERRORS & OMISSIONS	158.74
			FY20/21 GENERAL LIABILITY	31.64
			FY20/21 REAL & PERS PROP	948.68
			FY20/21 WORKERS' COMP	37.57
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRS CONTRIBUTIONS	20.28
			TMRS CONTRIBUTIONS	310.70
			TMRS CONTRIBUTIONS	254.28
		UNUM LIFE INS CO OF AMERI	UNUM AD&D	17.48
		GRENIER SERVICE COMPANY, LLC DBA:	AIRPORT DOOR OPENER REPAIR	1,353.00
			AIRPORT HANGAR E-11 REPAIR	145.00
		SUN LIFE ASSURANCE COMPANY	DENTAL INSURANCE	37.23
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	5.94
			TOTAL:	17,260.84
NON-DEPARTMENTAL	CEMETERY OPERATING	CITIZENS NATIONAL BANK	FEDERAL WITHHOLDING	174.10
			FEDERAL WITHHOLDING	169.23
			FEDERAL WITHHOLDING	37.17
			FEDERAL WITHHOLDING	139.87
			MEDICARE CONTRIB AND MATCH	46.90
			MEDICARE CONTRIB AND MATCH	46.25
			MEDICARE CONTRIB AND MATCH	9.92
			MEDICARE CONTRIB AND MATCH	37.36
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRS CONTRIBUTIONS	223.27
			TMRS CONTRIBUTIONS	181.37
		SUN LIFE ASSURANCE COMPANY	DENTAL INSURANCE	37.22
			TOTAL:	1,102.66
CEMETERY OPERATING DEP CEMETERY OPERATING		AT&T	CEMETERY	50.51
			MISCELLANEOUS SHIRLEY BELZ KELM	400.00
			HELEN VELA	517.00
			OFFICE DEPOT CORPORATION	91.28
			RELIANT ENERGY SOLUTIONS	50.01
			CITIZENS NATIONAL BANK	200.55
			FICA CONTRIBUTIONS AND MAT	197.76
			FICA CONTRIBUTIONS AND MAT	42.45
			FICA CONTRIBUTIONS AND MAT	159.73
			MEDICARE CONTRIB AND MATCH	46.90
			MEDICARE CONTRIB AND MATCH	46.25
			MEDICARE CONTRIB AND MATCH	9.92
			MEDICARE CONTRIB AND MATCH	37.36
		TML INTERGOVERNMENTAL	FY20/21 ERRORS & OMISSIONS	158.74

DEPARTMENT	FUND	VENDOR NAME	DESCRIPTION	AMOUNT
			FY20/21 GENERAL LIABILITY	15.72
			FY20/21 REAL & PERS PROP	13.48
			FY20/21 WORKERS' COMP	43.31
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRS CONTRIBUTIONS	412.09
			TMRS CONTRIBUTIONS	334.75
		UNUM LIFE INS CO OF AMERI	UNUM AD&D	18.84
		WAL-MART COMMUNITY/GEMB	CEM/J SMITH/PHONE CASE 358	19.88
		CINTAS CORPORATION #86	ST,GR/UNIFORMS 154489	10.19
			CEM/UNIFORMS 889078	10.19
			CEM/UNIFORMS 540624	10.19
			CEM/UNIFORMS 201852	37.82
		KNIPPA, DANIEL	CEM/9/15-9/26/20 2 REG, 1	1,600.00
			CEM/5 REG OP/CLO10/2-10/14	3,250.00
		SUN LIFE ASSURANCE COMPANY	DENTAL INSURANCE	49.64
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	<u>7.92</u>
			TOTAL:	7,842.48
NON-DEPARTMENTAL	FLEET SERVICES OPE AFLAC		AFLAC OCT. INV	152.07
		NATIONWIDE RETIREMENT SOLUTIONS	NATIONWIDE CONTRIBUTIONS	35.00
			NATIONWIDE CONTRIBUTIONS	7.35
			NATIONWIDE CONTRIBUTIONS	27.65
		PRE-PAID LEGAL SERVICES, INC. DBA LEGA	PRE-PAID LEGAL OCT 2020	33.90
		CITIZENS NATIONAL BANK	FEDERAL WITHHOLDING	464.08
			FEDERAL WITHHOLDING	466.12
			FEDERAL WITHHOLDING	94.13
			FEDERAL WITHHOLDING	354.14
			MEDICARE CONTRIB AND MATCH	68.50
			MEDICARE CONTRIB AND MATCH	67.90
			MEDICARE CONTRIB AND MATCH	14.08
			MEDICARE CONTRIB AND MATCH	52.97
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRS CONTRIBUTIONS	327.79
			TMRS CONTRIBUTIONS	259.80
		UNUM LIFE INS CO OF AMERI	UNUM LIFE INS. PAYABLE	49.60
		SUN LIFE ASSURANCE COMPANY	DENTAL INSURANCE	<u>71.78</u>
			TOTAL:	2,546.86
FLEET SERVICES SECTION	FLEET SERVICES OPE ARNOLD OIL COMPANY OF AUSTIN, LP DBA A		GAGE	14.22
			BRAKE FLUID	8.26
			WINDSHIELD WASH	8.37
			SHOP AIR	5.20
			#62 TRAILER CONNECTOR	19.02
			#309 OIL FILTER	46.79
			#558 DEF FLUID	19.98
			#67 CONNECTOR	11.55
			FLEET WINDSHIELD WASH	5.58
			WATER DEPT DEF FLUID	29.97
			STREET DEPT FUEL	79.95
			STREET DEPT FUEL & AIR CLE	96.62
		COUFAL-PRATER EQUIP LLC DBA UNITED AG	HOSE	53.99
			#552 WHEEL	214.48
			WATER DEPT BACK HOE TOOTH	194.90
			#552 WHEEL	214.48
		COVERT COUNTRY OF HUTTO	#339 REPAIR	540.36
		AUSTIN TRUCK & EQUIPMENT, LTD.	TND-4 AIR VALVE	60.15
		HENNA CHEVROLET INC	#340 ROD	104.04
			#601 LINK	26.43

DEPARTMENT	FUND	VENDOR NAME	DESCRIPTION	AMOUNT
			#616 ROTORS	605.25
			#619 WHEEL	282.86
			#733 PUMP	23.90
			#628 HARNESS	15.54
			TOOL KIT	37.93
			#108 MATS	165.00
			#334 SEAL KIT INJECTOR	77.43
			#U1 HANDLE	22.28
			#309 WINDSHIELD	391.20
		INTERSTATE BATT. N AUSTIN	#25 BATTERY	112.30
		LONGHORN INTERNATIONAL TRUCKS, LTD DBA	#565 GAUGE	241.32
			#614 MIRROR	80.96
		MAGNUM CUSTOM TRAILER MFG CO, INC	#520 WHEEL LUGS	38.00
		MOSS & MOSS INC. #8000	CONNECTOR	6.74
		ALLDATA, LLC	ANNUAL SUBSCRIPTION	1,500.00
		CITIZENS NATIONAL BANK	FICA CONTRIBUTIONS AND MAT	292.89
			FICA CONTRIBUTIONS AND MAT	290.33
			FICA CONTRIBUTIONS AND MAT	60.20
			FICA CONTRIBUTIONS AND MAT	226.50
			MEDICARE CONTRIB AND MATCH	68.50
			MEDICARE CONTRIB AND MATCH	67.90
			MEDICARE CONTRIB AND MATCH	14.08
			MEDICARE CONTRIB AND MATCH	52.97
		TERRY'S BODY SHOP INC	#628 INSTALL DECALS	104.00
		TONY MORGAN DBA:	#620 & #621 FLAT REPAIR	110.00
			#552 FLAT REPAIR	75.00
		TML INTERGOVERNMENTAL	FY20/21 AUTOMOBILE LIABILI	5,886.75
			FY20/21 ERRORS & OMISSIONS	158.74
			FY20/21 GENERAL LIABILITY	51.48
			FY20/21 AUTO PHYS DAMAGE	7,719.75
			FY20/21 MOBILE EQUIPMENT	2,075.50
			FY20/21 REAL & PERS PROP	64.68
			FY20/21 WORKERS' COMP	71.75
		TEXAS MUNICIPAL RETIREMENT SYSTEMS	TMRS CONTRIBUTIONS	605.01
			TMRS CONTRIBUTIONS	479.51
		UNUM LIFE INS CO OF AMERI	UNUM AD&D	27.93
		WALTON DISTRIBUTING COMPANY, INC	BRAKE CLEANER & GLOVES	527.80
		DANIEL SCHNOOR TOOL CO	TOOL SETS	722.00
		CINTAS CORPORATION #86	FLEET/UNIFORMS 154468	24.09
			FLEET/UNIFORMS 889076	24.09
			FLEET/UNIFORMS 540642	24.09
			FLEET/UNIFORMS 201767	24.09
		SIDDONS MARTIN EMERGENCY GROUP LLC	Q1 LADDER REPAIR	46,462.51
			T1 WINDSHIELD	6,320.42
			TND-4 BULB	220.67
			TND-4 SWITCH	97.95
			Q1 HYDRAULIC VALVES	3,445.20
		AIRGAS INC DBA AIRGAS USA, LLC	CYLINDER LEASE RENTAL	637.40
		FLEETCOR TECHNOLOGIES, INC.LLC DBA FUE	FUEL	4,226.29
			FUEL	5,358.36
		SUN LIFE ASSURANCE COMPANY	DENTAL INSURANCE	49.64
		SOUTHERN TIRE MART	TIRES	1,671.16
			#552 MOUNT TIRE	633.87
			#334 TIRES	531.92
			STOCK	531.92
			#543 TIRES	451.12

DEPARTMENT	FUND	VENDOR NAME	DESCRIPTION	AMOUNT
		T&W TIRE LLC	#736 TIRES	448.36
			T1 MOUNT TIRES	435.00
		SELECT BENEFITS GROUP INC. DBA DENTAL	DENTAL SELEC VISION NOV. I	<u>7.92</u>
			TOTAL:	96,734.39
NON-DEPARTMENTAL	POOLED CASH	JPMORGAN CHASE BANK NA	02/2020-09/2020 TRANSACTION	<u>9,054.20</u>
			TOTAL:	9,054.20

===== FUND TOTALS =====

100	GENERAL FUND	594,829.21
119	TIF (TAX INCREMENT FUND)	4,323.73
123	MAIN STREET REVENUE FUND	180.45
125	MUNICIPAL CRT SPECIAL FEE	1,512.00
129	LIBRARY GRANT/DONATION	3,000.00
162	GENERAL CAPITAL IMPROVEME	6,515.00
320	SANITATION FUND	3,573.60
340	PUBLIC UTILITIES FUND	294,588.39
350	AIRPORT FUND	18,472.38
370	CEMETERY OPERATING FUND	8,945.14
382	FLEET SERVICES OPERATING	99,281.25
950	POOLED CASH	9,054.20

GRAND TOTAL: 1,044,275.35

SELECTION CRITERIA

SELECTION OPTIONS

VENDOR SET: 95-CITY OF TAYLOR
VENDOR: All
CLASSIFICATION: All
BANK CODE: All
ITEM DATE: 0/00/0000 THRU 99/99/9999
ITEM AMOUNT: 99,999,999.00CR THRU 99,999,999.00
GL POST DATE: 10/01/2020 THRU 10/31/2020
CHECK DATE: 0/00/0000 THRU 99/99/9999

PAYROLL SELECTION

PAYROLL EXPENSES: NO
EXPENSE TYPE: N/A
CHECK DATE: 0/00/0000 THRU 99/99/9999

PRINT OPTIONS

PRINT DATE: None
SEQUENCE: By Department
DESCRIPTION: Distribution
GL ACCTS: NO
REPORT TITLE: C O U N C I L R E P O R T
SIGNATURE LINES: 0

PACKET OPTIONS

INCLUDE REFUNDS: YES
INCLUDE OPEN ITEM:NO

Attachment D

Balance Sheets by Funds

General Fund
Tax Increment Financing Fund
Hotel Occupancy Tax Fund
Main Street Fund
Municipal Court Special Fee Fund
Library Grant/Donations Fund
Roadway Impact Fee Fund
Transportation User Fee Fund
Municipal Drainage Utility System Fund
Sanitation Fund
Public Utilities Fund
Utility Impact Fee Fund
Airport Fund
Cemetery Fund
Fleet Services Operating Fund
Fleet Replacement Fund

BALANCE SHEET

AS OF: OCTOBER 31ST, 2020

100-GENERAL FUND

ACCOUNT #	ACCOUNT DESCRIPTION	BALANCE
ASSETS		
=====		
100-100-100	PETTY CASH	1,650.00
100-100-102	CLAIM ON POOLED CASH	(2,526,722.96)
100-100-103	FROST SAFEKEEPING 1004078	997,390.00
100-100-104	FROST ACCT 0591800744	15,244.43
100-100-105	MONEY MARKET @CNB #4260618	12,230.96
100-100-106	VALERO DONATION FUNDS TEXPOOL	479,287.14
100-100-107	GEN OPERATING TXCLASS 0008	3,309,369.38
100-100-108	NED TRUST(MOODY)TEXSTAR	200,691.97
100-100-109	PRINCOR GEN FUND 6FR-139362	0.26
100-100-110	TEXPOOL 2465300006 POOLED CASH	3,186,798.01
100-100-113	TEXPOOL 2465300015 N MOODY	53,007.29
100-120-100	PROPERTY TAXES RECEIVABLE	150,568.17
100-120-103	MISC. ACCOUNTS RECEIVABLE	104,172.61
100-120-110	ALLOWANCE UNCOLLECTED TAXES	0.00
100-120-120	SALES TAXES RECEIVABLE	609,206.95
100-120-130	ACCTS RECEIVABLE GARBAGE	0.00
100-120-131	ALLOWANCE - GARBAGE	0.00
100-120-140	GRANTS RECEIVABLE	0.00
100-120-141	FRANCHISE TAX RECEIVABLE	66,071.71
100-120-240	DUE FROM TAXES	0.00
100-120-250	DUE FROM FUND 350 FOR LOAN	0.00
100-120-251	DUE FROM FUND 350	0.00
100-120-255	DUE FROM OTHER FUNDS	162,531.92
100-120-302	TEDC REIMBURSE FOR MAIN ST	0.00
100-150-100	OTHER ASSETS (AUDITOR'S ENTRY)	0.00
100-170-100	CURRENT YR RES FOR ENCUMBRANCE	(361,874.47)
100-170-101	PRIOR YR RES FOR ENCUMBRANCE	176,566.09
100-180-101	DUE FROM SOURCES-GRANT REVENUE	0.00
100-190-102	DEFERRED CHGS-BOND ISSUE COST	<u>0.00</u>
		<u>6,636,189.46</u>
TOTAL ASSETS		6,636,189.46
		=====
LIABILITIES		
=====		
100-200-100	ACCRUED PAYBLES	0.00
100-200-110	ENCUMBERED PAYABLE GEN.	(361,874.47)
100-200-111	PRIOR YEAR ENCUMBRANCE	176,566.09
100-200-200	FICA & MEDICARE PAYABLE	70,236.16
100-200-201	FEDERAL WITHHOLDING PAYABLE	0.00
100-200-202	TMRS PAYABLE	0.00
100-200-203	DEFERRED COMP PAYABLE	1,385.88
100-200-204	CIVIL SERVICE-SICK LEAVE	0.00
100-200-205	TEDC SALES TAX PAYABLE	0.00
100-200-210	CHILD SUPPORT PAYABLE	(747.71)
100-200-211	GARNISHMENTS PAYABLE	0.00
100-200-212	UNUM LIFE INS PAYABLE	869.51
100-200-213	DENTAL PAYABLE	(1,813.45)
100-200-214	AFLAC PAYABLE	2,974.94

BALANCE SHEET

AS OF: OCTOBER 31ST, 2020

100-GENERAL FUND

ACCOUNT #	ACCOUNT DESCRIPTION	BALANCE
100-200-215	CLOTHES RENTAL PAYABLE	0.00
100-200-216	CINCINNATI LIFE PAYABLE	28.71
100-200-218	BLUE CHOICE PAYABLE	27.62
100-200-219	SCOTT & WHITE HEALTH PAYABLE	20,658.99
100-200-220	S&W PAYABLE 2001-2011	(9,793.98)
100-200-221	FLEXIBLE SPENDING (FSA) PAYABL	(2,750.00)
100-200-222	PRE-PAID LEGAL PAYABLE	(1,424.15)
100-200-228	MISC DEDUCTIONS PAYABLE	0.00
100-200-229	MET LIFE DENTAL PAYABLE	(551.91)
100-200-230	UNITED WAY PAYABLE	0.00
100-200-231	MEMBERSHIP/DUES PAYABLE	200.00
100-200-232	COURT BOND REFUND PAYABLE	(759.80)
100-200-233	OTHER A/P PENDING (AUDITOR)	(52,259.66)
100-200-235	VISION PLAN PAYABLE	89.38
100-200-300	RETAINAGE PAYABLE	(18,077.87)
100-200-301	COURT COLLECTIONS	46,113.66
100-200-401	WAGES PAYABLE	46,650.17
100-200-500	DUE TO OTHER FUNDS	329,328.89
100-200-502	DUE TO STATE/COURT FEES	4,718.48
100-200-503	DUE TO COMPT. SALES TAX	0.00
100-200-504	DUE TO TEDC-MONTHLY SALES TAX	10,403.37
100-200-505	DUE TO OMNIBASE SERVICES INC	746.86
100-200-507	DUE TO S&W/COBRA FROM OTHERS	192.48
100-200-508	DUE TO TISD:HOUSING AUTH PILOT	0.00
100-200-509	DUE TO TMRS FROM TEDC	(3,193.94)
100-210-111	DUE TO I&S (TAX COLLECTIONS)	2,153.54
100-210-191	DUE TO OTHERS FROM EVIDENCE	0.00
100-220-100	TAX DISTRIBUTION	0.00
100-240-100	DEFERRED TAX REVENUE	150,568.17
100-240-101	UNCLAIMED FUNDS	14,999.34
100-240-102	DEFERRED REV-BOND PREMIUM	0.00
100-240-103	DEFERRED REVENUE	<u>0.00</u>
TOTAL LIABILITIES		<u>425,665.30</u>
EQUITY		
=====		
100-260-110	PREPAYMNT PERMT M2E3LLC 100YRS	0.00
100-260-111	RESERVE CHRISTMAS DONATIONS	0.00
100-260-113	ESCROW-BONDS POSTED-DEFENDENTS	4,915.45
100-265-100	RESTRICTED PORTION FUND BA	0.00
100-270-100	FUND BALANCE	5,335,700.53
100-280-100	ASSIGNED FUND BALANCE	<u>32,396.29</u>
TOTAL BEGINNING EQUITY		5,373,012.27
TOTAL REVENUE		600,893.10
TOTAL EXPENSES		<u>948,678.40</u>
TOTAL INCREASE/(DECREASE) IN FUND BAL.		(347,785.30)
(WILL CLOSE TO FUND BAL.)		1,185,297.19
TOTAL EQUITY & FUND BALANCE		<u>6,210,524.16</u>
TOTAL LIABILITIES, EQUITY & FUND BALANCE		6,636,189.46
=====		

119-TIF (TAX INCREMENT FUND)

ACCOUNT #	ACCOUNT DESCRIPTION	BALANCE	
ASSETS			
=====			
119-100-102	CLAIM ON POOLED CASH	(358,488.63)	
119-100-103	SECURITY INVESTMENTS-FROST BAN	0.00	
119-100-104	FROST ACCT 0591800744	0.00	
119-100-115	TEXPOOL 246530004 TIF PROP TAX	609,948.83	
119-120-103	MISC ACCOUNTS RECEIVABLE	0.00	
119-170-100	CURRENT YR RES FOR ENCUMBRANCE	0.00	
119-170-101	PRIOR YR RES FOR ENCUMBRANCE	<u>0.00</u>	
			<u>251,460.20</u>
TOTAL ASSETS			251,460.20
			=====
LIABILITIES			
=====			
119-200-110	CURRENT YEAR ENCUMBRANCE	0.00	
119-200-111	PRIOR YEAR ENCUMBRANCE	0.00	
119-200-500	ACCOUNTS PAYABLE PENDING	<u>0.00</u>	
TOTAL LIABILITIES			<u>0.00</u>
EQUITY			
=====			
119-270-100	FUND BALANCE	<u>597,695.12</u>	
TOTAL BEGINNING EQUITY		597,695.12	
TOTAL REVENUE		92.74	
TOTAL EXPENSES		<u>4,323.73</u>	
TOTAL INCREASE/(DECREASE) IN FUND BAL.		(4,230.99)	
(WILL CLOSE TO FUND BAL.)		(342,003.93)	
TOTAL EQUITY & FUND BALANCE			<u>251,460.20</u>
TOTAL LIABILITIES, EQUITY & FUND BALANCE			251,460.20
			=====

BALANCE SHEET

AS OF: OCTOBER 31ST, 2020

120-HOTEL/MOTEL FUND

ACCOUNT #	ACCOUNT DESCRIPTION	BALANCE	
ASSETS			
=====			
120-100-102	CLAIM ON POOLED CASH	105,199.02	
120-120-103	MISC ACCOUNTS RECEIVABLE	0.00	
120-170-100	CURRENT YR RES FOR ENCUMBRANCE	0.00	
120-170-101	PRIOR YR RES FOR ENCUMBRANCE	<u>0.00</u>	
			<u>105,199.02</u>
TOTAL ASSETS			105,199.02
			=====
LIABILITIES			
=====			
120-200-110	CURRENT YEAR ENCUMBRANCE	0.00	
120-200-111	PRIOR YEAR ENCUMBRANCE	0.00	
120-200-500	ACCOUNTS PAYABLE PENDING	2,476.63	
120-200-505	DUE TO SAYDA 380 AGREEMENT	<u>23,609.54</u>	
TOTAL LIABILITIES			<u>26,086.17</u>
EQUITY			
=====			
120-270-100	FUND BALANCE	<u>91,418.15</u>	
TOTAL BEGINNING EQUITY		91,418.15	
TOTAL REVENUE		10,726.31	
TOTAL EXPENSES		<u>2,476.63</u>	
TOTAL INCREASE/(DECREASE) IN FUND BAL.		8,249.68	
(WILL CLOSE TO FUND BAL.)		(20,554.98)	
TOTAL EQUITY & FUND BALANCE			<u>79,112.85</u>
TOTAL LIABILITIES, EQUITY & FUND BALANCE			105,199.02
			=====

BALANCE SHEET

AS OF: OCTOBER 31ST, 2020

123-MAIN STREET REVENUE FUND

ACCOUNT #	ACCOUNT DESCRIPTION	BALANCE	
ASSETS			
=====			
123-100-102	CLAIM ON POOLED CASH	61,064.25	
123-120-103	MISC ACCOUNTS RECEIVABLES	0.00	
123-170-100	CURRENT YR RES FOR ENCUMBRANCE	(1,985.00)	
123-170-101	PRIOR YR RES FOR ENCUMBRANCE	<u>1,985.00</u>	
			<u>61,064.25</u>
TOTAL ASSETS			61,064.25
			=====
LIABILITIES			
=====			
123-200-110	CURRENT YEAR ENCUMBRANCE	(1,985.00)	
123-200-111	PRIOR YEAR ENCUMBRANCE	1,985.00	
123-200-500	ACCOUNTS PAYABLE PENDING	0.00	
123-240-100	PRE-REGISTER FESTIVAL/CARSHOW	<u>0.00</u>	
TOTAL LIABILITIES			<u>0.00</u>
EQUITY			
=====			
123-270-100	FUND BALANCE	<u>52,470.63</u>	
TOTAL BEGINNING EQUITY		52,470.63	
TOTAL REVENUE		70.00	
TOTAL EXPENSES		<u>180.45</u>	
TOTAL INCREASE/(DECREASE) IN FUND BAL.		(110.45)	
(WILL CLOSE TO FUND BAL.)		8,704.07	
TOTAL EQUITY & FUND BALANCE			<u>61,064.25</u>
TOTAL LIABILITIES, EQUITY & FUND BALANCE			61,064.25
			=====

BALANCE SHEET

AS OF: OCTOBER 31ST, 2020

125-MUNICIPAL CRT SPECIAL FEE

ACCOUNT #	ACCOUNT DESCRIPTION	BALANCE	
ASSETS			
=====			
125-100-102	CLAIM ON POOLED CASH	93,413.84	
125-170-100	CURRENT YR RES FOR ENCUMBRANCE	(8,924.00)	
125-170-101	PRIOR YR RES FOR ENCUMBRANCE	<u>1,253.00</u>	
			<u>85,742.84</u>
TOTAL ASSETS			85,742.84
			=====
LIABILITIES			
=====			
125-200-110	CURRENT YEAR ENCUMBRANCE	(8,924.00)	
125-200-111	PRIOR YEAR ENCUMBRANCE	1,253.00	
125-200-500	ACCOUNTS PAYABLE PENDING	<u>504.00</u>	
TOTAL LIABILITIES			(<u>7,167.00</u>)
EQUITY			
=====			
125-270-100	FUND BALANCE	<u>104,605.78</u>	
TOTAL BEGINNING EQUITY		104,605.78	
TOTAL REVENUE		934.17	
TOTAL EXPENSES		<u>2,016.00</u>	
TOTAL INCREASE/(DECREASE) IN FUND BAL.		(1,081.83)	
(WILL CLOSE TO FUND BAL.)		(10,614.11)	
TOTAL EQUITY & FUND BALANCE			<u>92,909.84</u>
TOTAL LIABILITIES, EQUITY & FUND BALANCE			85,742.84
			=====

129-LIBRARY GRANT/DONATION

ACCOUNT #	ACCOUNT DESCRIPTION	BALANCE	
ASSETS			
=====			
129-100-102	CLAIM ON POOLED CASH	46,554.46	
129-100-103	TEXSTAR: NOBLE TRUST - 3444	924.77	
129-100-108	NED TRUST (LIBRARY) TEXSTAR	281,938.23	
129-120-103	MISC ACCTS RECEIVABLE	0.00	
129-170-100	CURRENT YR RES FOR ENCUMBRANCE	(1,436.37)	
129-170-101	PRIOR YR RES FOR ENCUMBRANCE	<u>1,436.37</u>	
			<u>329,417.46</u>
TOTAL ASSETS			329,417.46
			=====
LIABILITIES			
=====			
129-200-110	CURRENT YEAR ENCUMBRANCE	(1,436.37)	
129-200-111	PRIOR YEAR ENCUMBRANCE	1,436.37	
129-200-233	OTHER A/P PENDING (AUDITOR)	(10,945.00)	
129-200-500	ACCOUNTS PAYABLE PENDING	<u>10,945.00</u>	
TOTAL LIABILITIES			<u>0.00</u>
EQUITY			
=====			
129-270-100	FUND BALANCE	<u>335,690.98</u>	
TOTAL BEGINNING EQUITY		335,690.98	
TOTAL REVENUE		47.58	
TOTAL EXPENSES		<u>3,000.00</u>	
TOTAL INCREASE/(DECREASE) IN FUND BAL.		(2,952.42)	
(WILL CLOSE TO FUND BAL.)		(3,321.10)	
TOTAL EQUITY & FUND BALANCE			<u>329,417.46</u>
TOTAL LIABILITIES, EQUITY & FUND BALANCE			329,417.46
			=====

BALANCE SHEET

AS OF: OCTOBER 31ST, 2020

200-ROADWAY IMPACT FEE FUND

ACCOUNT #	ACCOUNT DESCRIPTION	BALANCE	
ASSETS			
=====			
200-100-102	CLAIM ON POOLED CASH	297,181.99	
200-170-100	CURRENT YR RES FOR ENCUMBRANCE	(30,000.00)	
200-170-101	PRIOR YR RES FOR ENCUMBRANCE	<u>0.00</u>	
			<u>267,181.99</u>
TOTAL ASSETS			267,181.99
			=====
LIABILITIES			
=====			
200-200-110	CURRENT YR ENCUMBRANCES	(30,000.00)	
200-200-111	PRIOR YR ENCUMBRANCES	0.00	
200-200-500	ACCOUNTS PAYABLE PENDING	<u>0.00</u>	
	TOTAL LIABILITIES		(<u>30,000.00</u>)
EQUITY			
=====			
200-270-100	FUND BALANCE	<u>246,334.39</u>	
	TOTAL BEGINNING EQUITY	246,334.39	
TOTAL REVENUE		1,590.00	
TOTAL EXPENSES		<u>0.00</u>	
TOTAL INCREASE/(DECREASE) IN FUND BAL.		1,590.00	
(WILL CLOSE TO FUND BAL.)		49,257.60	
TOTAL EQUITY & FUND BALANCE		<u>297,181.99</u>	
TOTAL LIABILITIES, EQUITY & FUND BALANCE			267,181.99
			=====

210-TRANSPORTATION FUND

ACCOUNT #	ACCOUNT DESCRIPTION	BALANCE	
ASSETS			
=====			
210-100-101	2019 CO BOND FUNDS TEXSTAR	3,254,594.63	
210-100-102	CLAIM ON POOLED CASH	969,074.97	
210-100-103	FROST SAFEKEEPING 1004078	0.00	
210-100-104	FROST ACCOUNT 591800744	0.00	
210-120-130	ACCTS RECEIVABLE TRANSPORTATIO	47,142.87	
210-120-131	ALLOWANCE-TRANSPORTATION	(9,675.27)	
210-170-100	CURRENT YR RES FOR ENCUMBRANCE	(1,806.80)	
210-170-101	PRIOR YR RES FOR ENCUMBRANCE	<u>1,806.80</u>	
			<u>4,261,137.20</u>
TOTAL ASSETS			4,261,137.20
			=====
LIABILITIES			
=====			
210-200-100	ACCRUED PAYABLES	0.00	
210-200-110	CURRENT YR ENCUMBRANCES	(1,806.80)	
210-200-111	PRIOR YR ENCUMBRANCES	1,806.80	
210-200-500	ACCOUNTS PAYABLE PENDING	1,500.00	
210-240-101	UNCLAIMED FUNDS	<u>0.00</u>	
TOTAL LIABILITIES			<u>1,500.00</u>
EQUITY			
=====			
210-270-100	FUND BALANCE	<u>5,152,227.26</u>	
TOTAL BEGINNING EQUITY		5,152,227.26	
TOTAL REVENUE		67,877.93	
TOTAL EXPENSES		<u>1,500.00</u>	
TOTAL INCREASE/(DECREASE) IN FUND BAL.		66,377.93	
(WILL CLOSE TO FUND BAL.)		(958,967.99)	
TOTAL EQUITY & FUND BALANCE			<u>4,259,637.20</u>
TOTAL LIABILITIES, EQUITY & FUND BALANCE			4,261,137.20
			=====

BALANCE SHEET

AS OF: OCTOBER 31ST, 2020

300-MUNICIPAL DRAINAGE UTILIT

ACCOUNT #	ACCOUNT DESCRIPTION	BALANCE	
ASSETS			
=====			
300-100-102	CLAIM ON POOLED CASH	197,116.53	
300-120-100	DRAINAGE RECEIVABLE	32,026.40	
300-120-130	ALLOWANCE FOR DOUBTFUL ACCTS	(8,601.57)	
300-160-206	FIXED ASSET-WORK IN PROGRESS	0.00	
300-170-100	CURRENT YR RES FOR ENCUMBRANCE	0.00	
300-170-101	PRIOR YR RES FOR ENCUMBRANCE	0.00	
300-190-103	ACCUMULATED DEPRECIATION	<u>0.00</u>	
			<u>220,541.36</u>
TOTAL ASSETS			220,541.36
			=====
LIABILITIES			
=====			
300-200-104	ACCRUED INTEREST PAYABLE	0.00	
300-200-110	CURRENT YEAR ENCUMBRANCES	0.00	
300-200-111	PRIOR YEAR ENCUMBRANCES	0.00	
300-200-233	OTHER A/P PENDING (AUDITOR)	0.00	
300-200-240	BOND PAYABLE - CURRENT	0.00	
300-200-300	RETAINAGE PAYABLE	0.00	
300-200-500	ACCOUNTS PAYABLE PENDING	<u>0.00</u>	
TOTAL LIABILITIES			<u>0.00</u>
EQUITY			
=====			
300-250-100	CONTRIBUTED CAPITAL-DRAINAGE	0.00	
300-270-100	FUND BALANCE	<u>211,248.52</u>	
TOTAL BEGINNING EQUITY		211,248.52	
TOTAL REVENUE		41,333.27	
TOTAL EXPENSES		<u>0.00</u>	
TOTAL INCREASE/(DECREASE) IN FUND BAL.		41,333.27	
(WILL CLOSE TO FUND BAL.)		(32,040.43)	
TOTAL EQUITY & FUND BALANCE			<u>220,541.36</u>
TOTAL LIABILITIES, EQUITY & FUND BALANCE			220,541.36
			=====

320-SANITATION FUND

ACCOUNT #	ACCOUNT DESCRIPTION	BALANCE	
ASSETS			
=====			
320-100-102	CLAIM ON POOLED CASH	293,741.98	
320-120-103	MISC ACCOUNTS RECEIVABLE	15,824.11	
320-120-130	ACCTS RECEIVABLE GARBAGE	83,332.59	
320-120-131	ALLOWANCE-GARBAGE	(2,691.04)	
320-170-100	CURRENT YR RES FOR ENCUMBRANCE	0.00	
320-170-101	PRIOR YR RES FOR ENCUMBRANCE	<u>0.00</u>	
			<u>390,207.64</u>
TOTAL ASSETS			390,207.64
			=====
LIABILITIES			
=====			
320-200-100	ACCRUED PAYABLES	0.00	
320-200-110	CURRENT YR ENCUMBRANCES	0.00	
320-200-111	PRIOR YR ENCUMBRANCES	0.00	
320-200-500	ACCOUNTS PAYABLE PENDING	139,735.85	
320-200-503	DUE TO STATE COMPT SALES TAX	10,703.55	
320-240-101	UNCLAIMED FUNDS	<u>0.00</u>	
TOTAL LIABILITIES			<u>150,439.40</u>
EQUITY			
=====			
320-270-100	FUND BALANCE	<u>293,168.93</u>	
TOTAL BEGINNING EQUITY		293,168.93	
TOTAL REVENUE		152,575.75	
TOTAL EXPENSES		<u>139,687.77</u>	
TOTAL INCREASE/(DECREASE) IN FUND BAL.		12,887.98	
(WILL CLOSE TO FUND BAL.)		(66,288.67)	
TOTAL EQUITY & FUND BALANCE			<u>239,768.24</u>
TOTAL LIABILITIES, EQUITY & FUND BALANCE			390,207.64
			=====

BALANCE SHEET

AS OF: OCTOBER 31ST, 2020

340-PUBLIC UTILITIES FUND

ACCOUNT #	ACCOUNT DESCRIPTION	BALANCE
ASSETS		
=====		
340-100-100	PETTY CASH	1,350.00
340-100-101	2019 CO BOND FUNDS TEXSTAR	4,250,322.52
340-100-102	CLAIM ON POOLED CASH	1,039,751.85
340-100-103	FROST SAFEKEEPING 1004078	0.00
340-100-104	FROST ACCT 0591800744	0.00
340-100-107	TEXPOOL 2465300012 TOWER RENT	514,848.07
340-100-110	TEXPOOL 2465300001 UTILITY FD	68,630.87
340-100-116	UTILITY OPERATING-TXCLASS 0007	1,021,466.50
340-100-118	TEXPOOL RATE STABILIZATION 18	647,693.22
340-100-119	TEXPOOL CAPITAL OUTLAY-ASSETS	312,232.22
340-100-120	TEXPOOL WORKING CAPITAL-CIP	461,467.01
340-100-121	TEXPOOL 2017 WWTP IMPROVMNTS	0.00
340-120-100	ACCOUNTS RECEIVABLE	416,633.68
340-120-101	CURRENT REFUND PAYABLE	10,686.97
340-120-102	UNAPPLIED CREDITS	(44,386.23)
340-120-103	MISC. ACCOUNTS RECEIVABLE	50,811.00
340-120-104	AR - AUDIT ACCRUALS	0.00
340-120-130	ALLOWANCE-ACCTS. RECEIVABLE	(6,352.22)
340-140-100	INVENTORY	76,763.93
340-150-100	BOND ISSUANCE COSTS	0.00
340-150-105	DEFERRED AMT ON REFUNDING	16,195.80
340-160-100	LAND	457,201.00
340-160-200	BUILDINGS	6,363,714.34
340-160-206	FIXED ASSETS: WORK IN PROGRESS	923,169.66
340-160-225	PLANT DISTRIBUTION/COLLECTION	49,604,252.38
340-160-235	EQUIPMENT	740,246.88
340-170-100	CURRENT YR RES FOR ENCUMBRANCE	(225,848.27)
340-170-101	PRIOR YR RES FOR ENCUMBRANCE	183,757.63
340-190-103	ACCUMULATED DEPRECIATION	(<u>23,922,103.85</u>)
		<u>42,962,504.96</u>
TOTAL ASSETS		42,962,504.96
		=====
LIABILITIES		
=====		
340-200-104	ACCRUED INTEREST PAYABLE	133,158.75
340-200-110	CURRENT YEAR ENCUMBRANCES	(225,848.27)
340-200-111	PRIOR YEAR ENCUMBRANCE	183,757.63
340-200-200	FICA AND MEDICARE PAYABLE	8,592.85
340-200-201	FEDERAL WITHHOLDING PAYABLE	(1,144.93)
340-200-202	TMRS PAYABLE	0.00
340-200-203	DEFERRED COMP PAYABLE	134.73
340-200-204	DEFERRED CHARGES	0.00
340-200-208	ACCRUED VACATION	29,840.24
340-200-209	CHILD SUPPORT PAYABLE	0.00
340-200-210	NET PENSION LIABILITY	881,725.75
340-200-211	NEW OPED-SDBF LIABILITY	55,440.90
340-200-212	UNUM LIFE INS PAYABLE	154.44
340-200-213	DENTAL PAYABLE	131.76

BALANCE SHEET

AS OF: OCTOBER 31ST, 2020

340-PUBLIC UTILITIES FUND

ACCOUNT #	ACCOUNT DESCRIPTION	BALANCE
340-200-214	AFLAC PAYABLE	239.58
340-200-215	CLOTHES RENTAL PAYABLE	0.00
340-200-218	BLUE CHOICE PAYABLE	175.48
340-200-219	SCOTT & WHITE HEALTH PAYABLE	(3,405.97)
340-200-221	FLEXIBLE SPENDING(FSA) PAYABLE	0.00
340-200-222	PRE-PAID LEGAL PAYABLE	(167.45)
340-200-228	MISC. DEDUCTIONS PAYABLE	0.00
340-200-229	MET LIFE DENTAL PAYABLE	(135.78)
340-200-230	UNITED WAY PAYABLE	(1.00)
340-200-233	OTHER A/P PENDING (AUDITOR)	(15,805.47)
340-200-235	VISION PLAN PAYABLE	9.85
340-200-240	BONDS PAYABLE-CURRENT	0.00
340-200-300	RETAINAGE PAYABLE	0.00
340-200-401	WAGES PAYABLE	13,148.57
340-200-500	ACCOUNTS PAYABLE PENDING	88,224.06
340-200-999	UNRECONCILED DIFFERENCES	0.00
340-210-100	UNAMORT. BOND DISCOUNT	(2,133.90)
340-210-101	BOND PREMIUMS	1,247,313.39
340-210-102	DEFERRED AMT ON REFUNDING	(575,726.28)
340-210-110	DEFERRED OUTFLOW RESORCES TMRS	(97,459.49)
340-210-111	SDBF-DEF OUTFLOW OF RE CONTR	(574.26)
340-210-113	SDBF DEF INFLOW ACT EX VS ASS	1,862.93
340-210-114	SDBF DEF OUTFLOW CHNG ASSUMPT	409.98
340-210-115	DEFERRED OUTFLOW INVST TMRS	(176,459.16)
340-210-118	DEFERRED INFLOW-ACTUAL VS ASSM	12,351.61
340-210-119	DEFERRED OUTFLOW-CHNG IN ASSUM	0.00
340-230-109	CAPITAL LEASE BANC ONE NEMI	0.00
340-230-111	8.745M CO SERIES 2010 (6.11M)	95,000.00
340-230-114	4.5M CO SERIES 2003 (65%)	0.00
340-230-115	4.2M COMB CO 2006 (4M)	3,600,000.00
340-230-116	10M COMB SERIES 2007 (7M)	5,780,000.00
340-230-117	9.615M COMB SERIES 08 (6.615M)	0.00
340-230-118	8.995 GO REFUNDING 2009	265,000.00
340-230-119	2.625 GO REF 2010	0.00
340-230-120	5.450M GO REF 2012 (1.460M)	740,000.00
340-230-121	4.595M 2015 GO REF (1.695M)	1,600,000.00
340-230-122	8.010M 2016 GO REF (5.065M)	5,065,000.00
340-230-123	5.34M COMB SERIES 2017(2.250M)	2,270,000.00
340-230-124	3.02M GO REF 2017 (1.585M)	1,360,000.00
340-230-125	12.590 M 2019 COs (4.425M)	4,425,000.00
340-240-100	METER DEPOSITS	477,973.00
340-240-101	UNCLAIMED FUNDS	5,530.17
340-240-120	ALLOWANCE FOR BAD DEBT	<u>0.00</u>
TOTAL LIABILITIES		<u>27,241,313.71</u>
EQUITY		
=====		
340-250-100	CONTRIBUTED CAPITAL-WATER OPER	454,779.30
340-250-101	CONTRIBUTED CAPITAL SEWER OPER	60,475.00
340-270-100	FUND BALANCE	<u>15,154,761.49</u>
TOTAL BEGINNING EQUITY		15,670,015.79
TOTAL REVENUE		831,238.85

BALANCE SHEET

AS OF: OCTOBER 31ST, 2020

340-PUBLIC UTILITIES FUND

ACCOUNT #	ACCOUNT DESCRIPTION	BALANCE
TOTAL EXPENSES		<u>389,149.36</u>
TOTAL INCREASE/(DECREASE) IN FUND BAL.		442,089.49
(WILL CLOSE TO FUND BAL.)	(	390,914.03)
TOTAL EQUITY & FUND BALANCE		<u>15,721,191.25</u>
TOTAL LIABILITIES, EQUITY & FUND BALANCE		42,962,504.96
		=====

CITY OF TAYLOR
BALANCE SHEET
AS OF: OCTOBER 31ST, 2020

345-UTILITY IMPACT FEE FUND

ACCOUNT #	ACCOUNT DESCRIPTION	BALANCE	
ASSETS			
=====			
345-100-102	CLAIM ON POOLED CASH	834,354.17	
345-100-103	FROST SAFEKEEPING 1004078	1,000,000.00	
345-100-104	FROST ACCT 0591800744	0.00	
345-160-206	WORK IN PROGRESS	0.00	
345-160-225	PLANT DISTRIBUTION	104,188.68	
345-170-100	CURRENT YR RES FOR ENCUMBRANCE	(117,696.00)	
345-170-101	PRIOR YR RES FOR ENCUMBRANCE	<u>1,411.60</u>	
			<u>1,822,258.45</u>
TOTAL ASSETS			1,822,258.45
			=====
LIABILITIES			
=====			
345-200-110	CURRENT YEAR ENCUMBRANCE	(117,696.00)	
345-200-111	PRIOR YEAR ENCUMBRANCE	1,411.60	
345-200-233	OTHER A/P PENDING (AUDITOR)	0.00	
345-200-500	ACCOUNTS PAYABLE PENDING	<u>0.00</u>	
TOTAL LIABILITIES			(<u>116,284.40</u>)
EQUITY			
=====			
345-270-100	FUND BALANCE	<u>1,396,488.45</u>	
TOTAL BEGINNING EQUITY		1,396,488.45	
TOTAL REVENUE		12,000.00	
TOTAL EXPENSES		<u>0.00</u>	
TOTAL INCREASE/(DECREASE) IN FUND BAL.		12,000.00	
(WILL CLOSE TO FUND BAL.)		530,054.40	
TOTAL EQUITY & FUND BALANCE			<u>1,938,542.85</u>
TOTAL LIABILITIES, EQUITY & FUND BALANCE			1,822,258.45
			=====

BALANCE SHEET

AS OF: OCTOBER 31ST, 2020

350-AIRPORT FUND

ACCOUNT #	ACCOUNT DESCRIPTION	BALANCE	
ASSETS			
=====			
350-100-102	CLAIM ON POOLED CASH	101,703.09	
350-100-106	TEXPOOL 2017 AIRPORT CONST	959,223.47	
350-120-100	AIRPORT RECEIVABLES	7,225.38	
350-120-101	REFUND CHECKS PAYABLE	0.00	
350-120-103	MISC. ACCOUNTS RECEIVABLES	10,550.06	
350-120-140	GRANTS RECEIVABLE	0.00	
350-120-250	DUE FROM OTHER FUNDS (AUDITOR)	0.00	
350-150-100	BOND ISSUANCE COSTS	0.00	
350-150-105	DEFERRED AMT ON REFUNDING	2,882.71	
350-160-100	LAND	859,833.00	
350-160-200	T-HANGERS (BUILDINGS)	4,344,298.10	
350-160-206	FIXED ASSETS:WORK IN PROGRESS	12,880.00	
350-160-210	EQUIPMENT	107,159.00	
350-160-300	RUNWAY	2,238,415.96	
350-160-335	FIELD EQUIPMENT	0.00	
350-170-100	CURRENT YR RES FOR ENCUMBRANCE	0.00	
350-170-101	PRIOR YR RES FOR ENCUMBRANCE	0.00	
350-190-103	ACCUMULATED DEPRECIATION	(1,717,549.44)	
		<u>6,926,621.33</u>	
	TOTAL ASSETS		6,926,621.33
			=====
LIABILITIES			
=====			
350-200-100	ACCRUED ACCOUNTS PAYABLE	0.00	
350-200-110	CURRENT YEAR ENCUMBRANCE	0.00	
350-200-111	PRIOR YEAR ENCUMBRANCE	0.00	
350-200-200	FICA AND MEDICARE PAYABLE	618.73	
350-200-201	FEDERAL WITHHOLDING PAYABLE	0.00	
350-200-202	TMRS PAYABLE	0.00	
350-200-210	NET PENSION LIABILITY	32,206.92	
350-200-211	NEW OPED-SDBF LIABILITY	2,025.10	
350-200-213	DENTAL PAYABLE	42.71	
350-200-221	FLEXIBLE SPENDING(FSA) PAYABLE	0.00	
350-200-222	PRE-PAID LEGAL	0.00	
350-200-233	OTHER A/P PENDING (AUDITOR)	(617.76)	
350-200-235	VISION PLAN PAYABLE	4.37	
350-200-240	BONDS PAYABLE-CURRENT	0.00	
350-200-401	WAGES PAYABLE	984.42	
350-200-500	ACCOUNTS PAYABLE PENDING	2,396.91	
350-200-501	DUE TO FUND 100 (LOAN ADVANCE)	0.00	
350-200-502	DUE TO FUND 100	0.00	
350-200-505	DUE TO OTHER FUNDS	0.00	
350-200-999	UNRECONCILED DIFFERENCE	(271.67)	
350-210-100	UNAMORT. BOND DISCOUNT	3,442.11	
350-210-101	BOND PREMIUMS	22,342.60	
350-210-110	DEFERRED OUTFLOW TMRS CONT	(3,559.92)	
350-210-111	SDBF DEF OUTFLOW RE CONTRIB	(20.99)	
350-210-113	SDBF DEF INFLOW ACT EXP VS ASS	68.05	

350-AIRPORT FUND

ACCOUNT #	ACCOUNT DESCRIPTION	BALANCE
350-210-114	SDBF DEF OUTFLOW CHNG ASSUMPT	14.98
350-210-115	DEFERRED OUTFLOW INVST TMRS	(6,445.54)
350-210-118	DEFERRED INFLOW ACT VS ASSMPT	451.17
350-210-119	DEFERRED OUTFLOW CNGS IN ASSUM	0.00
350-230-101	LONG TERM DEBT	0.00
350-230-102	BOND PAYABLE-\$290K REF 2010	15,000.00
350-230-103	5.34M COMB SERIES 2017(1.445M)	1,450,000.00
350-240-101	ACCRUED INTEREST PAYABLE	<u>6,051.25</u>
	TOTAL LIABILITIES	<u>1,524,733.44</u>
EQUITY		
=====		
350-250-100	CONTRIBUTED CAPITAL GRANT	4,274,320.92
350-250-101	CONTRIBUTED CAPITAL CITY	75,265.82
350-280-100	RETAINED EARNINGS	605,284.57
350-281-100	PRIOR PERIOD ADJUSTMENTS	<u>442,482.09</u>
	TOTAL BEGINNING EQUITY	5,397,353.40
	TOTAL REVENUE	31,422.81
	TOTAL EXPENSES	<u>22,060.70</u>
	TOTAL INCREASE/(DECREASE) IN FUND BAL.	9,362.11
	(WILL CLOSE TO FUND BAL.)	(4,827.62)
	TOTAL EQUITY & FUND BALANCE	<u>5,401,887.89</u>
	TOTAL LIABILITIES, EQUITY & FUND BALANCE	6,926,621.33
=====		

BALANCE SHEET

AS OF: OCTOBER 31ST, 2020

370-CEMETERY OPERATING FUND

ACCOUNT #	ACCOUNT DESCRIPTION	BALANCE	
ASSETS			
=====			
370-100-102	CLAIM ON POOLED CASH	92,164.87	
370-120-103	MISC ACCOUNTS RECEIVABLES	15,796.00	
370-160-206	FIXED ASSETS-WORK IN PROGRESS	10,032.80	
370-170-100	CURRENT YR RES FOR ENCUMBRANCE	(959.83)	
370-170-101	PRIOR YR RES FOR ENCUMBRANCE	959.83	
370-190-103	ACCUMULATED DEPRECIATION	(<u>2,508.20</u>)	
			<u>115,485.47</u>
TOTAL ASSETS			115,485.47
			=====
LIABILITIES			
=====			
370-200-110	CURRENT YR ENCUMBRANCE	(959.83)	
370-200-111	PRIOR YEAR ENCUMBRANCE	959.83	
370-200-200	FICA & MEDICARE PAYABLE	784.07	
370-200-201	FEDERAL WITHHOLDING PAYABLE	0.00	
370-200-202	TMRS PAYABLE	0.00	
370-200-210	NET PENSION LIABILITY	47,105.73	
370-200-211	NEW OPEB-SDBF LIABILITY	2,961.90	
370-200-213	ASSURANT DENTAL PAYABLE	17.79	
370-200-219	SCOTT & WHITE HEALTH PAYABLE	566.56	
370-200-221	FLEXIBLE SPENDING(FSA) PAYABLE	0.00	
370-200-222	PRE-PAID LEGAL	0.00	
370-200-233	OTHER A/P PENDING (AUDITOR)	(1,342.29)	
370-200-235	VISION PLAN PAYABLE	0.00	
370-200-401	WAGES PAYABLE	424.53	
370-200-500	ACCOUNTS PAYABLE PENDING	4,088.86	
370-210-100	DUE TO CEMETERY LAND PURCHASE	0.00	
370-210-110	DEFERRED OUTFLOW CONT TMRS	(5,206.72)	
370-210-111	SDBF DEF OUTFLOW RES CONTRIB	(30.68)	
370-210-113	SDBF DEF INFLOW ACT EX VS ASSU	99.53	
370-210-114	SDBF DEF OUTFLOW CHNG ASSUMPT	21.90	
370-210-115	DEFERRED OUTFLOW INVST TMRS	(9,427.24)	
370-210-118	DEFERRED INFLOW ACTUAL VS ASSM	659.88	
370-210-119	DEFERRED OUTFLOW-CHG ASSUMP	<u>0.00</u>	
TOTAL LIABILITIES			<u>40,723.82</u>
EQUITY			
=====			
370-270-100	FUND BALANCE	(<u>6,565.70</u>)	
TOTAL BEGINNING EQUITY			(6,565.70)
TOTAL REVENUE		7,211.40	
TOTAL EXPENSES		<u>14,479.66</u>	
TOTAL INCREASE/(DECREASE) IN FUND BAL.		(7,268.26)	
(WILL CLOSE TO FUND BAL.)		88,595.61	
TOTAL EQUITY & FUND BALANCE			<u>74,761.65</u>
TOTAL LIABILITIES, EQUITY & FUND BALANCE			115,485.47
			=====

BALANCE SHEET

AS OF: OCTOBER 31ST, 2020

382-FLEET SERVICES OPERATING

ACCOUNT #	ACCOUNT DESCRIPTION	BALANCE	
ASSETS			
=====			
382-100-102	CLAIM ON POOLED CASH	(43,872.62)	
382-120-250	DUE FROM OTHER FUNDS	0.00	
382-160-206	ESCROW FOR EQUIPMENT PURCHASES	0.00	
382-160-301	VEHICLES	0.00	
382-160-303	OFFICE EQUIPMENT	0.00	
382-160-305	FIELD EQUIPMENT	0.00	
382-160-306	HEAVY EQUIPMENT	0.00	
382-160-320	EQUIPMENT	0.00	
382-170-100	CURRENT YR RES FOR ENCUMBRANCE	(66,957.53)	
382-170-101	PRIOR YR RES FOR ENCUMBRANCE	52,403.73	
382-190-103	ACCUMULATED DEPRECIATION	<u>0.00</u>	
		(<u>58,426.42</u>)	
TOTAL ASSETS		(58,426.42)	=====
LIABILITIES			
=====			
382-200-110	CURRENT YEAR ENCUMBRANCE	(66,957.53)	
382-200-111	PRIOR YEAR ENCUMBRANCE	52,403.73	
382-200-200	FICA AND MEDICARE PAYABLE	1,147.83	
382-200-201	FEDERAL WITHHOLDING PAYABLE	0.00	
382-200-202	TMRS PAYABLE	(0.01)	
382-200-203	DEFERRED COMP PAYABLE	0.00	
382-200-208	ACCRUED VACATION	4,944.81	
382-200-210	NET PENSION LIABILITY	108,042.26	
382-200-211	NEW OPEB-SDBF LIABILITY	6,793.45	
382-200-212	UNUM LIFE INSURANCE PAYABLE	12.51	
382-200-213	DENTAL PAYABLE	1.49	
382-200-214	AFLAC PAYABLE	88.91	
382-200-215	CLOTHES RENTAL PAYABLE	0.00	
382-200-218	BLUE CHOICE PAYABLE	0.00	
382-200-219	SCOTT & WHITE HEALTH PAYABLE	228.07	
382-200-221	FLEXIBLE SPENDING (FSA) PAYABLE	0.00	
382-200-222	PRE-PAID LEGAL PAYABLE	51.80	
382-200-229	MET LIFE DENTAL PAYABLE	0.00	
382-200-233	OTHER A/P PENDING (AUDITOR)	(2,723.96)	
382-200-235	VISION PLAN PAYABLE	(3.56)	
382-200-401	WAGES PAYABLE	557.59	
382-200-500	ACCOUNTS PAYABLE PENDING	11,992.81	
382-210-110	DEFERRED OUTFLOW CONTB TMRS	(11,942.20)	
382-210-111	SDBF DEF OUTFLOW RES CONTRI	(70.35)	
382-210-113	SDBF DEF INFLOW ACT EXP VS ASS	228.27	
382-210-114	SDBF DEF OUTFLOW CHNG ASSUMPT	50.24	
382-210-115	DEFERRED OUTFLOW INVST TMRS	(21,622.42)	
382-210-118	DEFERRED INFLOW ACTUAL VS ASSM	1,513.50	
382-210-119	DEFERRED OUTLOW-CHNG IN ASSUMP	0.00	
382-240-101	UNCLAIMED FUNDS	<u>78.32</u>	
TOTAL LIABILITIES		<u>84,815.56</u>	

BALANCE SHEET

AS OF: OCTOBER 31ST, 2020

382-FLEET SERVICES OPERATING

ACCOUNT #	ACCOUNT DESCRIPTION	BALANCE
EQUITY		
=====		
382-260-121	RESERVE:FUTURE EQUIP PURCHASES	0.00
382-270-100	FUND BALANCE	(<u>66,132.59</u>)
	TOTAL BEGINNING EQUITY	(66,132.59)
	TOTAL REVENUE	571.70
	TOTAL EXPENSES	<u>111,560.96</u>
	TOTAL INCREASE/(DECREASE) IN FUND BAL. (	110,989.26)
	(WILL CLOSE TO FUND BAL.)	33,879.87
	TOTAL EQUITY & FUND BALANCE	(<u>143,241.98</u>)
	TOTAL LIABILITIES, EQUITY & FUND BALANCE	(58,426.42)
=====		

BALANCE SHEET

AS OF: OCTOBER 31ST, 2020

384-FLEET REPLACEMENT FUND

ACCOUNT #	ACCOUNT DESCRIPTION	BALANCE	
ASSETS			
=====			
384-100-102	CLAIM ON POOLED CASH	(244,333.99)	
384-100-104	CAPITAL EQUIP ACCT 2139517	0.00	
384-100-105	SIGNATURE BANK EQUIP (ESCROW)	0.00	
384-100-106	FROST LEASING ESCROW 010597724	0.00	
384-100-107	UMB BANK CLAYTON HOLDINGS	17,992.32	
384-100-108	2018 FLEET/EQUIP TEXSTAR 20180	410,972.65	
384-100-109	GOVERNMENT CAPITAL CORP	0.00	
384-120-103	MISC ACCOUNTS RECEIVABLES	0.00	
384-140-100	PREPAID CAP LEASE	0.00	
384-150-100	BOND ISSUANCE COSTS	0.00	
384-160-206	FIXED ASSETS-WORK IN PROGRESS	107,814.38	
384-160-320	MACHINERY & EQUIPMENT	6,192,511.10	
384-170-100	CURRENT YR RES FOR ENCUMBRANCE	(3,650,679.58)	
384-170-101	PRIOR YR RES FOR ENCUMBRANCE	3,529,704.12	
384-190-103	ACCUMULATED DEPRECIATION	(<u>3,615,302.43</u>)	
		<u>2,748,678.57</u>	
TOTAL ASSETS			2,748,678.57
			=====
LIABILITIES			
=====			
384-200-104	ACCRUED INTEREST PAYALBE	0.00	
384-200-110	CURRENT YEAR ENCUMBRANCE	(3,596,275.58)	
384-200-111	PRIOR YEAR ENCUMBRANCE	3,475,300.12	
384-200-500	ACCOUNTS PAYABLE PENDING	414,651.29	
384-200-505	DUE TO OTHER FUNDS	0.00	
384-210-101	UNAMORT BOND PREMIUM	48,530.83	
384-230-103	5.44M COMB SERIES 2015(2.66M)	1,910,000.00	
384-230-115	CAPITAL LEASE PAYABLE-CURRENT	0.00	
384-230-120	CAP LEASE PAYABLE-NONCURRENT	1,181,458.76	
384-230-125	NOTES PAYABLE	549,105.67	
384-240-101	ACCRUED INTEREST PAYABLE	<u>22,154.55</u>	
TOTAL LIABILITIES		<u>4,004,925.64</u>	
EQUITY			
=====			
384-270-100	FUND BALANCE	<u>496,083.29</u>	
TOTAL BEGINNING EQUITY		496,083.29	
TOTAL REVENUE		40.12	
TOTAL EXPENSES		<u>413,951.29</u>	
TOTAL INCREASE/(DECREASE) IN FUND BAL.		(413,911.17)	
(WILL CLOSE TO FUND BAL.)		(1,338,419.19)	
TOTAL EQUITY & FUND BALANCE		(<u>1,256,247.07</u>)	
TOTAL LIABILITIES, EQUITY & FUND BALANCE			2,748,678.57
			=====

Attachment E
Sales Tax Tracking Report

City of Taylor

Summary of Sales Tax Collections by Month

	2016-17	2017-18	2018-19	2019-20	2020-21	2020-21 Estimate Amount	\$ Difference from Actual to Est. Amt	% from Actual	\$ Difference from Prior Year Amount	% from Pr. Yr. Actual
	Actual	Actual	Actual	Actual	Actual					
October	320,355	333,211	350,589	\$ 389,538	393,127	331,108	62,019	18.7%	3,589	0.9%
November	374,270	367,873	416,457	422,737		338,190				
December	302,790	329,458	376,081	390,346		312,277				
January	306,687	379,137	328,713	356,902		285,521				
February	399,542	421,201	414,617	507,733		469,653				
March	285,806	294,166	334,744	347,808		278,246				
April	275,023	280,487	338,154	332,858		282,929				
May	400,403	416,809	395,638	457,487		349,744				
June	322,240	319,869	352,018	403,305		311,184				
July	312,955	349,865	378,446	423,927		354,225				
August	340,817	405,299	411,815	514,060		488,357				
Sept.	310,945	330,626	410,378	408,382		387,962				
	\$ 3,951,833	\$ 4,228,002	\$ 4,507,651	\$ 4,955,083	\$ 393,127	\$ 4,303,935	\$ 62,019		\$ 3,589	

	2016-17	2017-18	2018-19	2019-20	2020-21
October	\$ 80,089	\$ 83,303	\$ 87,647	\$ 97,385	\$ 98,282
November	93,568	91,968	104,114	105,684	
December	75,698	82,365	94,020	97,587	
January	76,672	94,784	82,178	89,225	
February	99,886	105,300	103,654	126,933	
March	71,452	73,542	83,686	86,952	
April	68,756	70,122	84,539	83,214	
May	100,101	104,202	98,910	114,372	
June	80,560	79,967	88,005	100,826	
July	78,239	87,466	94,611	105,982	
August	85,204	101,325	102,954	128,515	
Sept.	77,736	82,656	102,594	102,095	
	987,958	1,057,001	1,126,913	1,238,771	98,282

Sales Tax Tracking (City's Portion) - FY 2020-21

Monthly

	2016-17	2017-18	2018-19	2019-20	2020-21	2020-21 Estimate Amount	\$ Difference from Actual to Est. Amt	% from Actual	\$ Difference from Prior Year Amount	% from Pr. Yr. Actual
	Actual	Actual	Actual	Actual	Actual					
October	240,266	249,908	262,942	292,154	294,845	248,331	46,515	18.7%	2,692	0.9%
November	280,703	275,905	312,342	317,053		253,642				
December	227,092	247,094	282,061	292,760		234,208				
January	230,015	284,353	246,535	267,676		214,141				
February	299,656	315,901	310,963	380,800		352,240				
March	214,354	220,625	251,058	260,856		208,685				
April	206,267	210,365	253,616	249,643		212,197				
May	300,302	312,607	296,729	343,115		262,308				
June	241,680	239,902	264,014	302,478		233,388				
July	234,716	262,399	283,834	317,946		265,669				
August	255,613	303,974	308,861	385,545		366,268				
Sept.	233,209	247,969	307,783	306,286		290,972				
% Monthly Increase over prior year						\$ 3,142,048	\$ 46,515		\$ 2,692	

Cumulative Year -to- Date on Actual

	2016-17	2017-18	2018-19	2019-20	2020-21	2020-21 Estimate Amount	\$ Difference from Actual to Est. Amt	% from Actual	\$ Difference from Prior Year Amount	% from Pr. Yr. Actual
	Actual	Actual	Actual	Actual	Actual					
October	240,266	249,908	262,942	292,154	294,845	248,331	46,515	18.7%	2,692	0.9%
November	520,969	525,813	575,285	609,207		501,973				
December	748,061	772,907	857,345	901,967		736,181				
January	978,077	1,057,260	1,103,880	1,169,643		950,322				
February	1,277,733	1,373,161	1,414,843	1,550,443		1,302,562				
March	1,492,087	1,593,785	1,665,901	1,811,298		1,511,246				
April	1,698,355	1,804,151	1,919,517	2,060,942		1,723,443				
May	1,998,657	2,116,757	2,216,245	2,404,057		1,985,751				
June	2,240,337	2,356,659	2,480,259	2,706,535		2,219,139				
July	2,475,053	2,619,058	2,764,094	3,024,481		2,484,808				
August	2,730,666	2,923,032	3,072,955	3,410,026		2,851,076				
Sept.	2,963,875	3,171,002	3,380,738	3,716,313		3,142,048				
% Y-T-D Increase over prior year	-0.6%	7.0%	6.6%	9.9%						

Attachment F

Monthly Investment Report



Monthly Investment Report

October 31, 2020

PATTERSON & ASSOCIATES



INVESTMENT PROFESSIONALS

Hold On, Here Comes November...

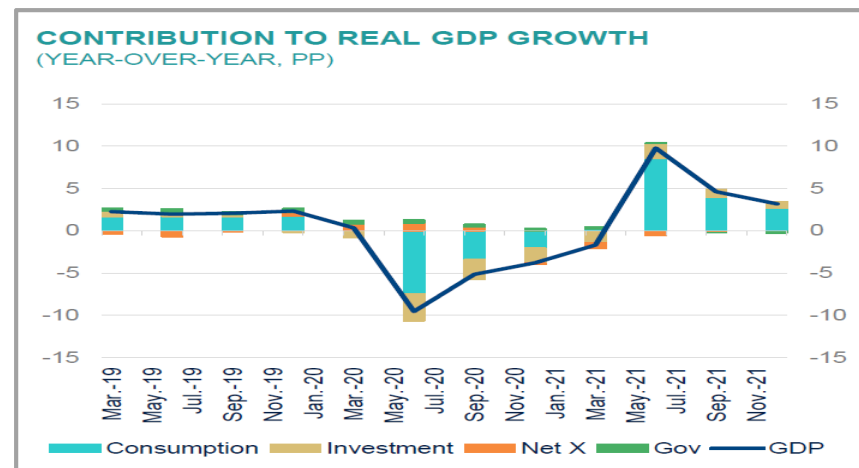
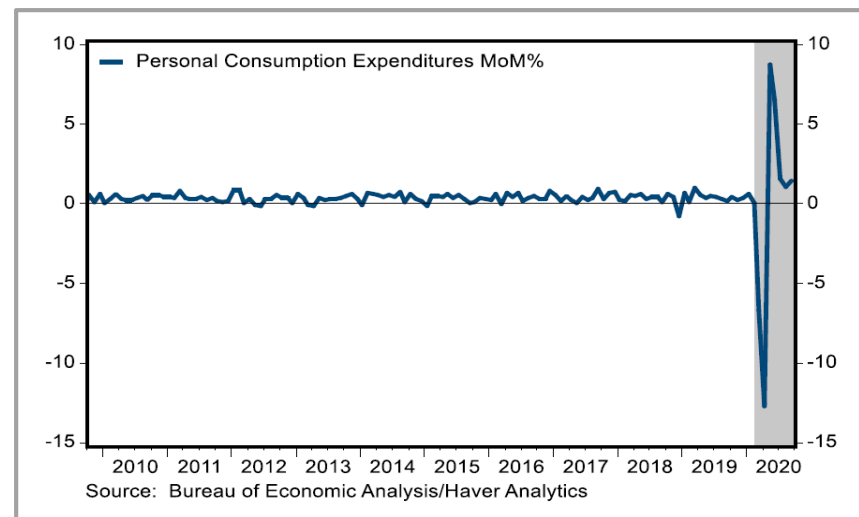
As October closes it is difficult to not cheer. A resurgence of coronavirus infections and a failed attempt to settle on the much needed next stimulus package during a highly contentious election season weighed heavily on investors worldwide.

Due to record high insolvencies and debt defaults which rival the 2009 levels, national debts around the world have risen dramatically. Switzerland's debt to GDP is 48.8% and France and the UK are 118.7% and 108% respectively. Globally, S&P Global projects a jump to 265% this year! Not only is Covid staying around for awhile but the resulting debt will remain probably for decades.

The pandemic and the election surely add noise to the short-term outlook but medium term prospects are definitely improving. The indices are all up on:

- Consumer spending,
- Personal income
- Personal, goods and services consumption
- Gross private investment
- Non-residential investment

GDP rose a record 33.1% in the third quarter. With this kind of momentum, deflation risks are surely giving way to potential upside in the medium term. But, this does follow a record drop in the second quarter which reflects a major jump from the non-activity of Q2. It will all come down to the virus as #1 risk. Resurgence of the virus could put the GDP on a very volatile quarterly risk path. Without the new stimulus package GDP could fall back. Consumers riding this tide will continue to move from savings to immediate consumption mode again.



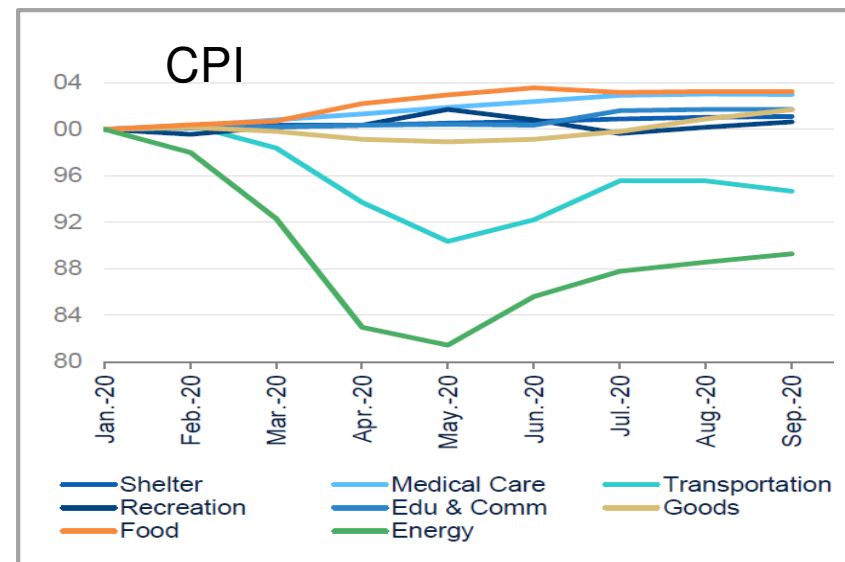
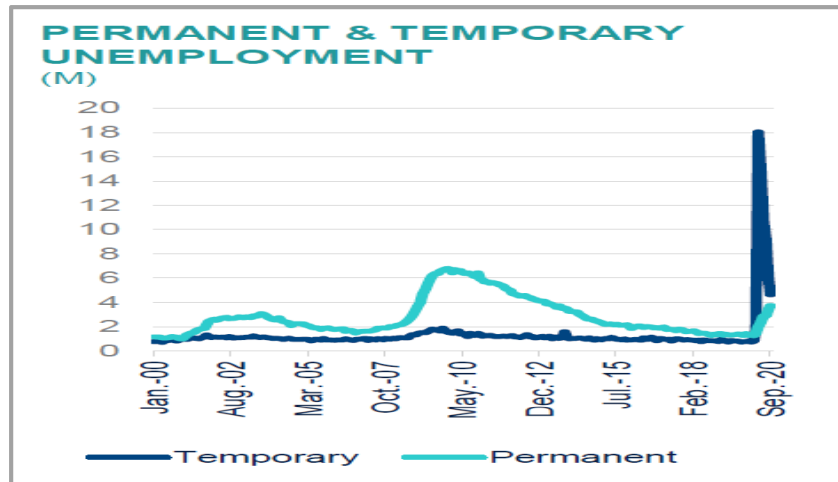
Financial Tensions Remain

Financial tensions are broadly stable – at least temporarily – around the world but certainly have not disappeared. Tied to this are major domestic conflicts both here in the US and in several hot spots.

The contentious nature of negotiations on the next stimulus program was a major drag on not only people in need of relief but on all the markets. Again another *will they- won't they politically motivated delay* in Washington.

The epidemiological context and the geopolitical tensions worldwide are fueling a global risk aversion. This drives volatility on news blips in the markets as well as a general investor goal of safety and short term investments – which of course lower our US rates. This will undoubtedly calm slightly when a vaccine or treatment is achieved but there is no real timeline for that occurrence.

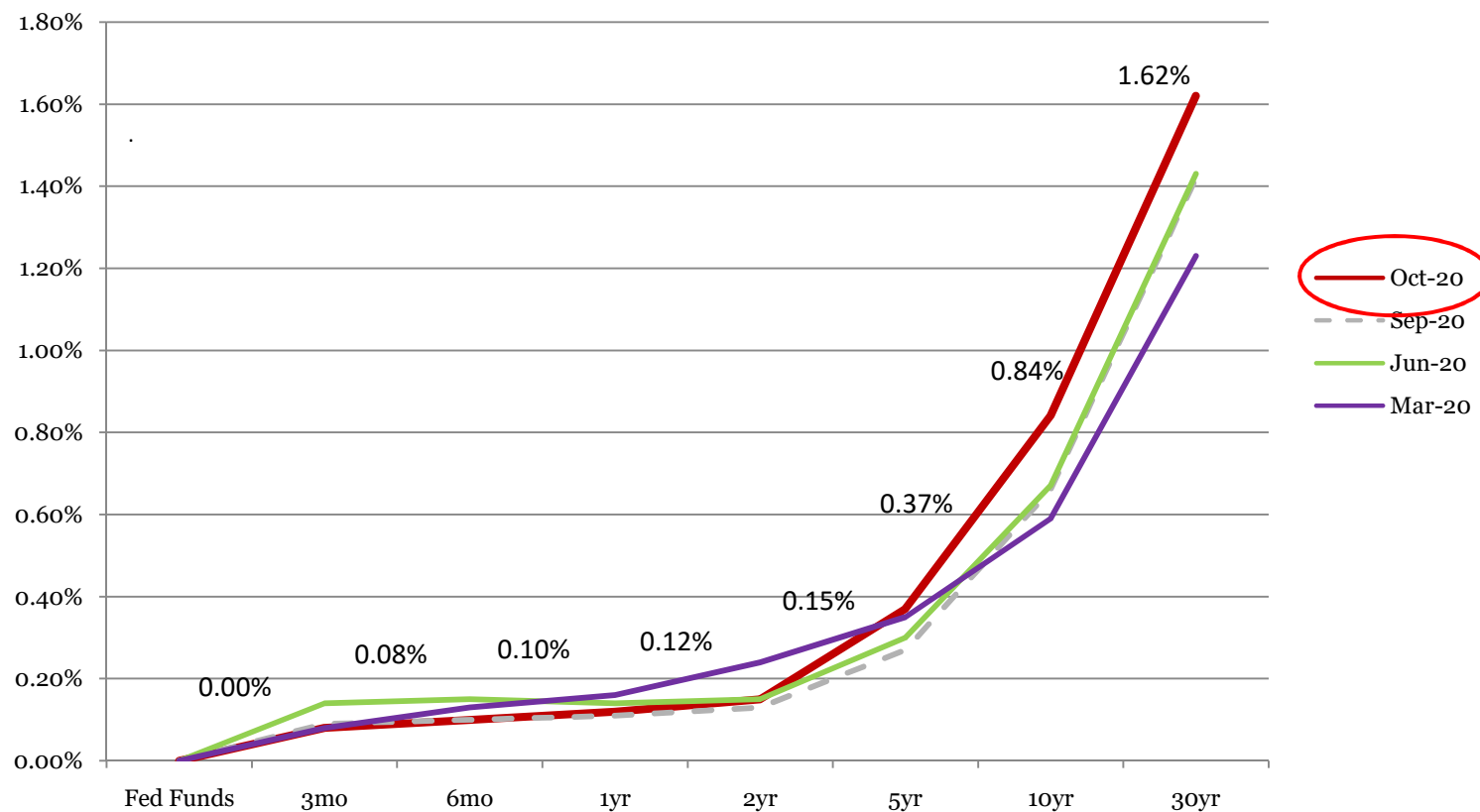
What may also change is the job situation. Workers may have to adjust to a new pandemic reality which could bring a rise in permanent unemployment. There is tremendous ground to recapture on jobs even though continuing jobless claims are trending down. Jobless claims appear to be staying below 1 million on a weekly basis and the participation rate on jobs has been rising. However, as business adapts to at-home work and service jobs continue to evolve as business automates, this lessened need for jobs may be more than a temporary change.





Range Bound

- The curve continues to fight the virus and during October the upcoming election drove investors to safety. The long end of the curve rose slightly but the short and medium terms sank.
- Market fears and volatility have caused Treasury and agency rates to remain at the lower (dismal) levels seen for the last eight months.
- The Fed has stated its intention to stay at 0.0% Fed Funds through 2022.
- The absence of agreement on the next stimulus package remains a major drag on all markets.



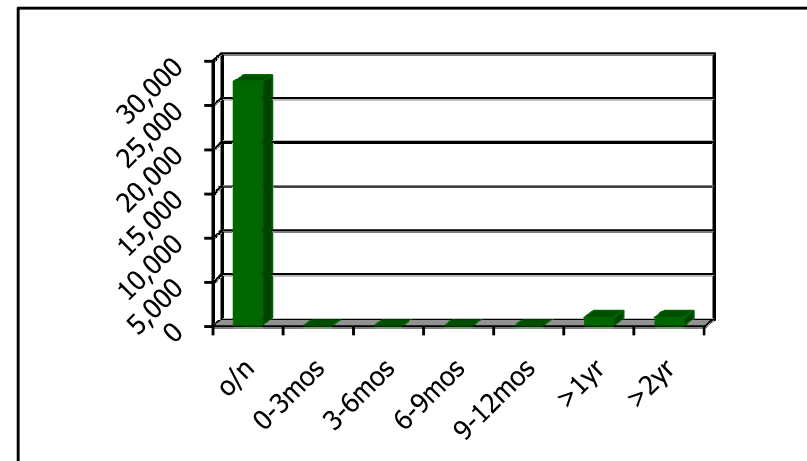
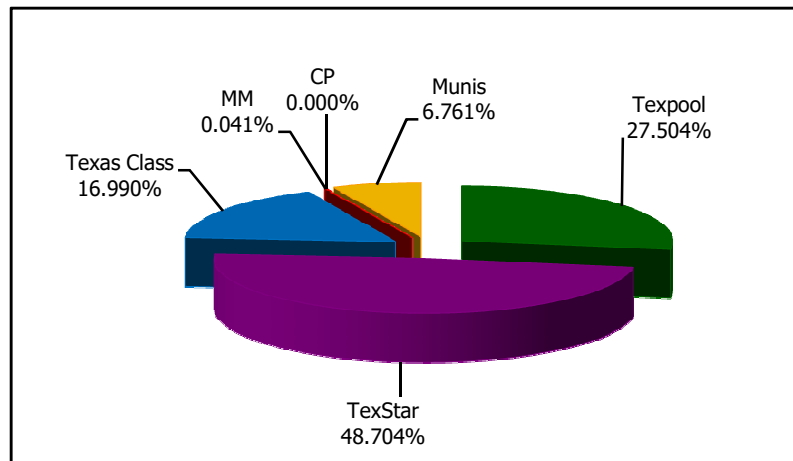
End of Month Rates - Full Yield Curve – Fed Funds to 30yr

Your Portfolio

As of October 31, 2020



- P&A constantly reviews your portfolio for optimal asset allocation and a controlled average maturity because a diversified portfolio can better adjust to volatile market conditions. These are unusual times and where extensions can be made it is important to make them for any value in the markets.
- The graphs below show asset allocations by market sector and by maturity in your portfolio. Liquidity will not be attractive but as the curve flattens it also is sometimes the only sector available as year end expenditures loom. Our expectation is of continuing low rates but we will attempt to find value in all authorized sectors to capture yield available.
- Hopefully Fed actions will return us to some normalcy and a vaccine will be found. This is what we are watching for and acting on.
- The non-cash portion of your portfolio is yielding 0.454%.





**City of Taylor, Texas
Portfolio Management
Portfolio Summary
October 31, 2020**

Patterson & Associates
901 S. MoPac
Suite 195
Austin, TX 78746
-

Investments	Par Value	Market Value	Book Value	% of Portfolio	Term	Days to Maturity	YTM 365 Equiv.
Municipal Bonds	2,000,000.00	1,997,570.00	1,997,618.20	6.76	807	790	0.454
Texpool	8,127,704.33	8,127,704.33	8,127,704.33	27.50	1	1	0.134
TexStar	14,393,398.30	14,393,398.30	14,393,398.30	48.71	1	1	0.115
Texas Class	5,021,147.62	5,021,147.62	5,021,147.62	16.99	1	1	0.177
Money Market	12,230.96	12,230.96	12,230.96	0.04	1	1	0.010
	29,554,481.21	29,552,051.21	29,552,099.41	100.00%	56	54	0.154

Investments							
Total Earnings	October 31	Month Ending	Fiscal Year To Date				
Current Year		3,827.67	3,827.67				

The following reports are submitted in accordance with the Public Funds Investment Act (Texas Gov't Code 2256). The reports also offer supplemental information not required by the Act in order to fully inform the governing body of the City of Taylor, Texas of the position and activity within the City's portfolio of investment. The reports include a management summary overview, a detailed inventory report for the end of the period, a transaction report, as well as graphic representations of the portfolio to provide full disclosure to the governing body.

Jeffrey Wood, Finance Director



City of Taylor, Texas
Summary by Type
October 31, 2020
Grouped by Fund

Patterson & Associates
901 S. MoPac
Suite 195
Austin, TX 78746
-

Security Type	Number of Investments	Par Value	Book Value	% of Portfolio	Average YTM 365	Average Days to Maturity
Fund: 2019 Bond Fund						
TexStar	1	10,927,868.66	10,927,868.66	36.98	0.115	1
Subtotal	1	10,927,868.66	10,927,868.66	36.98	0.115	1
Fund: Airport Fund						
Texpool	1	959,223.47	959,223.47	3.25	0.133	1
Subtotal	1	959,223.47	959,223.47	3.25	0.133	1
Fund: Cemetery Permanent Fund						
Money Market	1	0.00	0.00	0.00	0.000	0
Texas Class	1	690,311.74	690,311.74	2.34	0.177	1
Texpool	1	58,339.97	58,339.97	0.20	0.134	1
TexStar	1	56,445.64	56,445.64	0.19	0.115	1
Subtotal	4	805,097.35	805,097.35	2.73	0.170	1
Fund: Fleet Replacement Fund						
TexStar	1	410,972.65	410,972.65	1.39	0.115	1
Subtotal	1	410,972.65	410,972.65	1.39	0.115	1
Fund: General Fund						
Principal	1	0.00	0.00	0.00	0.000	0
Money Market	2	12,230.96	12,230.96	0.04	0.010	1
Municipal Bonds	2	2,000,000.00	1,997,618.20	6.76	0.454	790
Texas Class	1	3,309,369.38	3,309,369.38	11.20	0.177	1
Texpool	1	4,495,320.67	4,495,320.67	15.21	0.134	1
TexStar	1	2,998,111.35	2,998,111.35	10.15	0.115	1
Subtotal	8	12,815,032.36	12,812,650.56	43.36	0.190	124
Fund: General Capital Fund						
TexStar	1	0.00	0.00	0.00	0.000	0
Subtotal	1	0.00	0.00	0.00	0.000	0

City of Taylor, Texas
Summary by Type
October 31, 2020
Grouped by Fund

Security Type	Number of Investments	Par Value	Book Value	% of Portfolio	Average YTM 365	Average Days to Maturity
Fund: Special Rev-Tax Increment Fund						
Texpool	1	609,948.83	609,948.83	2.06	0.134	1
Subtotal	1	609,948.83	609,948.83	2.06	0.134	1
Fund: Utility Fund						
Texas Class	1	1,021,466.50	1,021,466.50	3.46	0.177	1
Texpool	1	2,004,871.39	2,004,871.39	6.78	0.133	1
Subtotal	2	3,026,337.89	3,026,337.89	10.24	0.148	1
Total and Average	19	29,554,481.21	29,552,099.41	100.00	0.154	54



City of Taylor, Texas
Fund 19BOND - 2019 Bond Fund
Investments by Fund
October 31, 2020

Patterson & Associates
901 S. MoPac
Suite 195
Austin, TX 78746
-

CUSIP	Investment #	Issuer	Purchase Date	Book Value	Par Value	Market Value	Current Rate	YTM 360	YTM 365	Maturity Days To Date Maturity
TexStar										
20190	10044	TexStar	04/24/2019	10,927,868.66	10,927,868.66	10,927,868.66	0.115	0.113	0.115	1
Subtotal and Average				10,927,868.66	10,927,868.66	10,927,868.66		0.113	0.115	1
Total Investments and Average				10,927,868.66	10,927,868.66	10,927,868.66		0.113	0.115	1

**Fund AIR - Airport Fund
Investments by Fund
October 31, 2020**

Page 2

CUSIP	Investment #	Issuer	Purchase Date	Book Value	Par Value	Market Value	Current Rate	YTM 360	YTM 365	Maturity Days To Date Maturity
Texpool										
300019	10007	Texpool	11/01/2017	959,223.47	959,223.47	959,223.47	0.134	0.131	0.133	1
Subtotal and Average				959,223.47	959,223.47	959,223.47		0.132	0.134	1
Total Investments and Average				959,223.47	959,223.47	959,223.47		0.132	0.134	1

Fund CEM - Cemetery Permanent Fund
Investments by Fund
October 31, 2020

Page 3

CUSIP	Investment #	Issuer	Purchase Date	Book Value	Par Value	Market Value	Current Rate	YTM 360	YTM 365	Maturity Days To Date Maturity
Texpool										
300007	10008	Texpool	11/01/2017	58,339.97	58,339.97	58,339.97	0.134	0.131	0.133	1
Subtotal and Average				58,339.97	58,339.97	58,339.97		0.132	0.134	1
TexStar										
22880	10003	TexStar	11/01/2017	56,445.64	56,445.64	56,445.64	0.115	0.113	0.115	1
Subtotal and Average				56,445.64	56,445.64	56,445.64		0.113	0.115	1
Texas Class										
70006	10001	Texas Class	11/01/2017	690,311.74	690,311.74	690,311.74	0.177	0.174	0.177	1
Subtotal and Average				690,311.74	690,311.74	690,311.74		0.175	0.177	1
Money Market										
54941	10009	Fidelity Govt Cash Res (FDRXX)	11/01/2017	0.00	0.00	0.00				1
Subtotal and Average				0.00	0.00	0.00		0.000	0.000	0
Total Investments and Average				805,097.35	805,097.35	805,097.35		0.167	0.170	1

Fund FLEET - Fleet Replacement Fund
Investments by Fund
October 31, 2020

Page 4

CUSIP	Investment #	Issuer	Purchase Date	Book Value	Par Value	Market Value	Current Rate	YTM 360	YTM 365	Maturity Days To Date Maturity
TexStar										
20180	10030	TexStar	08/08/2018	410,972.65	410,972.65	410,972.65	0.115	0.113	0.115	1
Subtotal and Average				410,972.65	410,972.65	410,972.65		0.113	0.115	1
Total Investments and Average				410,972.65	410,972.65	410,972.65		0.113	0.115	1

**Fund GEN - General Fund
Investments by Fund
October 31, 2020**

Page 5

CUSIP	Investment #	Issuer	Purchase Date	Book Value	Par Value	Market Value	Current Rate	YTM 360	YTM 365	Maturity Date	Days To Maturity
Municipal Bonds											
419792ZH2	10054	State of Hawaii	10/29/2020	1,000,000.00	1,000,000.00	999,910.00	0.429	0.422	0.428	10/01/2022	699
59333NN90	10053	Maimi-Dade County FL	09/30/2020	997,618.20	1,000,000.00	997,660.00	0.375	0.473	0.480	04/01/2023	881
Subtotal and Average				1,997,618.20	2,000,000.00	1,997,570.00		0.448	0.454		789
Texpool											
300003	10004	Texpool	11/01/2017	4,495,320.67	4,495,320.67	4,495,320.67	0.134	0.131	0.133		1
Subtotal and Average				4,495,320.67	4,495,320.67	4,495,320.67		0.132	0.134		1
TexStar											
34440	10002	TexStar	11/01/2017	2,998,111.35	2,998,111.35	2,998,111.35	0.115	0.113	0.115		1
Subtotal and Average				2,998,111.35	2,998,111.35	2,998,111.35		0.113	0.115		1
Texas Class											
70008	10048	Texas Class	01/22/2020	3,309,369.38	3,309,369.38	3,309,369.38	0.177	0.174	0.177		1
Subtotal and Average				3,309,369.38	3,309,369.38	3,309,369.38		0.175	0.177		1
Money Market											
60618	10000	Citizens Nat'l Bank MM-Public	11/01/2017	12,230.96	12,230.96	12,230.96	0.010	0.009	0.010		1
54942	10010	Fidelity Govt Cash Res (FDRXX)	11/01/2017	0.00	0.00	0.00					1
Subtotal and Average				12,230.96	12,230.96	12,230.96		0.010	0.010		1
Principal											
54942A	10040	Cash	01/02/2019	0.00	0.00	0.00					1
Subtotal and Average				0.00	0.00	0.00		0.000	0.000		0
Total Investments and Average				12,812,650.56	12,815,032.36	12,812,602.36		0.188	0.190		123

Fund GENCAP - General Capital Fund
Investments by Fund
October 31, 2020

Page 6

CUSIP	Investment #	Issuer	Purchase Date	Book Value	Par Value	Market Value	Current Rate	YTM 360	YTM 365	Maturity Days To Date Maturity
TexStar										
20181	10029	TexStar	08/08/2018	0.00	0.00	0.00	2.307	2.275	2.306	1
Subtotal and Average				0.00	0.00	0.00		0.000	0.000	0
Total Investments and Average				0.00	0.00	0.00		0.000	0.000	0

Fund SPECREV - Special Rev-Tax Increment Fund
Investments by Fund
October 31, 2020

Page 7

CUSIP	Investment #	Issuer	Purchase Date	Book Value	Par Value	Market Value	Current Rate	YTM 360	YTM 365	Maturity Days To Date Maturity
Texpool										
300004	10005	Texpool	11/01/2017	609,948.83	609,948.83	609,948.83	0.134	0.131	0.133	1
Subtotal and Average				609,948.83	609,948.83	609,948.83		0.132	0.134	1
Total Investments and Average				609,948.83	609,948.83	609,948.83		0.132	0.134	1

**Fund UTIL - Utility Fund
Investments by Fund
October 31, 2020**

Page 8

CUSIP	Investment #	Issuer	Purchase Date	Book Value	Par Value	Market Value	Current Rate	YTM 360	YTM 365	Maturity Days To Date Maturity
Texpool										
300001	10006	Texpool	11/01/2017	2,004,871.39	2,004,871.39	2,004,871.39	0.134	0.131	0.133	1
Subtotal and Average				2,004,871.39	2,004,871.39	2,004,871.39		0.132	0.134	1
Texas Class										
70007	10047	Texas Class	01/22/2020	1,021,466.50	1,021,466.50	1,021,466.50	0.177	0.174	0.177	1
Subtotal and Average				1,021,466.50	1,021,466.50	1,021,466.50		0.175	0.177	1
Total Investments and Average				3,026,337.89	3,026,337.89	3,026,337.89		0.146	0.148	1



INVESTMENT PROFESSIONALS

City of Taylor, Texas
Cash Reconciliation Report
For the Period October 1, 2020 - October 31, 2020
Grouped by Fund

Patterson & Associates
 901 S. MoPac
 Suite 195
 Austin, TX 78746
 -

Trans. Date	Investment #	Fund	Trans. Type	Security ID	Par Value	Security Description	Maturity Date	Purchases	Interest	Redemptions	Cash
General Fund											
10/29/2020	10054	GEN	Purchase	419792ZH2	1,000,000.00	HAWAII 1.0M 0.43% Mat.	10/01/2022	-1,000,000.00	0.00	0.00	-1,000,000.00
Subtotal								-1,000,000.00	0.00	0.00	-1,000,000.00
Total								-1,000,000.00	0.00	0.00	-1,000,000.00



City of Taylor, Texas
Purchases Report
Sorted by Fund - Fund
October 1, 2020 - October 31, 2020

Patterson & Associates
 901 S. MoPac
 Suite 195
 Austin, TX 78746
 -

CUSIP	Investment #	Fund	Sec. Type	Issuer	Original Par Value	Purchase Date	Payment Periods	Principal Purchased	Accrued Interest at Purchase	Rate at Purchase	Maturity Date	YTM	Ending Book Value
General Fund													
419792ZH2	10054	GEN	MC1	HAWAII	1,000,000.00	10/29/2020	10/01 - 04/01	1,000,000.00		0.429	10/01/2022	0.429	1,000,000.00
				Subtotal	1,000,000.00			1,000,000.00	0.00				1,000,000.00
Total Purchases					1,000,000.00			1,000,000.00	0.00				1,000,000.00



City of Taylor, Texas
Interest Earnings
Sorted by Fund - Fund
October 1, 2020 - October 31, 2020
Yield on Average Book Value

Patterson & Associates
901 S. MoPac
Suite 195
Austin, TX 78746
-

										Adjusted Interest Earnings		
CUSIP	Investment #	Fund	Security Type	Ending Par Value	Beginning Book Value	Average Book Value	Maturity Date	Current Rate	Annualized Yield	Interest Earned	Amortization/ Accretion	Adjusted Interest Earnings
Fund: 2019 Bond Fund												
20190	10044	19BOND	RR2	10,927,868.66	11,234,468.77	11,080,970.45		0.115	0.115	1,082.45	0.00	1,082.45
Subtotal				10,927,868.66	11,234,468.77	11,080,970.45			0.115	1,082.45	0.00	1,082.45
Fund: Airport Fund												
300019	10007	AIR	RRP	959,223.47	959,114.76	959,121.77		0.134	0.133	108.71	0.00	108.71
Subtotal				959,223.47	959,114.76	959,121.77			0.133	108.71	0.00	108.71
Fund: Cemetery Permanent Fund												
300007	10008	CEM	RRP	58,339.97	58,333.34	58,333.77		0.134	0.134	6.63	0.00	6.63
70006	10001	CEM	RR3	690,311.74	791,240.01	774,949.98		0.177	0.177	116.57	0.00	116.57
22880	10003	CEM	RR2	56,445.64	56,440.13	56,440.49		0.115	0.115	5.51	0.00	5.51
Subtotal				805,097.35	906,013.48	889,724.23			0.170	128.71	0.00	128.71
Fund: Fleet Replacement Fund												
20180	10030	FLEET	RR2	410,972.65	410,932.53	410,935.12		0.115	0.115	40.12	0.00	40.12
Subtotal				410,972.65	410,932.53	410,935.12			0.115	40.12	0.00	40.12
Fund: General Fund												
300003	10004	GEN	RRP	4,495,320.67	4,441,502.85	4,423,719.55		0.134	0.134	501.65	0.00	501.65
70008	10048	GEN	RR3	3,309,369.38	4,308,735.75	4,212,002.44		0.177	0.177	633.63	0.00	633.63
60618	10000	GEN	RR4	12,230.96	12,230.86	12,230.87		0.010	0.010	0.10	0.00	0.10
34440	10002	GEN	RR2	2,998,111.35	3,023,864.04	3,018,115.59		0.115	0.115	294.79	0.00	294.79
59333NN90	10053	GEN	MC1	1,000,000.00	997,397.13	997,511.23	04/01/2023	0.375	0.638	319.36	221.07	540.43
419792ZH2	10054	GEN	MC1	1,000,000.00	0.00	96,774.19	10/01/2022	0.429	0.290	23.83	0.00	23.83
Subtotal				12,815,032.36	12,783,730.63	12,760,353.87			0.184	1,773.36	221.07	1,994.43
Fund: Special Rev-Tax Increment Fund												
300004	10005	SPECREV	RRP	609,948.83	855,993.73	816,300.09		0.134	0.134	92.74	0.00	92.74
Subtotal				609,948.83	855,993.73	816,300.09			0.134	92.74	0.00	92.74

City of Taylor, Texas
Interest Earnings
October 1, 2020 - October 31, 2020

CUSIP	Investment #	Fund	Security Type	Ending Par Value	Beginning Book Value	Average Book Value	Maturity Date	Current Rate	Adjusted Interest Earnings			
									Annualized Yield	Interest Earned	Amortization/ Accretion	Adjusted Interest Earnings
Fund: Utility Fund												
300001	10006	UTIL	RRP	2,004,871.39	2,004,644.11	2,004,658.77		0.134	0.133	227.28	0.00	227.28
70007	10047	UTIL	RR3	1,021,466.50	1,021,313.27	1,021,323.16		0.177	0.177	153.23	0.00	153.23
			Subtotal	3,026,337.89	3,025,957.38	3,025,981.93			0.148	380.51	0.00	380.51
			Total	29,554,481.21	30,176,211.28	29,943,387.46			0.151	3,606.60	221.07	3,827.67

City of Taylor, Texas
Amortization Schedule
October 1, 2020 - October 31, 2020
Sorted By Fund - Fund

Patterson & Associates
901 S. MoPac
Suite 195
Austin, TX 78746
-

Investment #		Maturity Date	Beginning Par Value				Amounts Amortized			
Issuer	Fund	Amort. Date	Current Rate	Purchase Principal	Original Premium or Discount	Ending Book Value	And Unamortized As of 10/01/2020	Amount Amortized This Period	Amt Amortized Through 10/31/2020	Amount Unamortized Through 10/31/2020
General Fund										
10053	GEN	04/01/2023	1,000,000.00	997,390.00	-2,610.00	997,618.20	7.13	221.07	228.20	-2,381.80
	Miami-Dade County FL	10/01/2021	0.375				-2,602.87			
			Subtotal	997,390.00	-2,610.00	997,618.20	7.13	221.07	228.20	-2,381.80
							-2,602.87			
			Total	997,390.00	-2,610.00	997,618.20	7.13	221.07	228.20	-2,381.80
							-2,602.87			



City of Taylor, Texas
Projected Cashflow Report
Sorted by Monthly
For the Period November 1, 2020 - May 31, 2021

Patterson & Associates
901 S. MoPac
Suite 195
Austin, TX 78746
-

Projected Trans. Date	Investment #	Fund	Security ID	Transaction Type	Issuer	Par Value	Original Cost	Principal	Interest	Total
April 2021										
04/01/2021	10053	GEN	59333NN90	Interest	Maimi-Dade County FL	0.00	0.00	0.00	1,885.25	1,885.25
Total for April 2021						0.00	0.00	0.00	1,885.25	1,885.25
GRAND TOTALS:						0.00	0.00	0.00	1,885.25	1,885.25



City Council Meeting December 10, 2020 Transmittal Letter

STRATEGIC PILLAR

- ☐ Streets/Infrastructure
- ☐ Quality of Life
- ☒ Economic Vitality

Agenda Item #: 5
Agenda Title: Consider Ordinance 2020-21 Amending the FY2019-20 Budget

Council Action to be taken: Consider Adopting Ordinance 2020-21

Department Submitted: Finance Department

Staff Contact: Jeffrey Wood, Director of Finance

1. PURPOSE/DESCRIPTION

The purpose of this agenda item is to consider Ordinance 2020-21 amending the FY2020 Budget.

2. STAFF ANALYSIS / BACKGROUND / PRIOR COUNCIL ACTIONS

Council has taken action and approved budget amendments in prior fiscal years. The FY2019-20 budget was originally approved by Council on September 12, 2019, amended on February 13, 2020 and August 13, 2020. Council introduced Ordinance 2020-21 on November 12, 2020.

The purpose of this budget amendment is to have the budget reflect the actual financial activity that has occurred during FY2019-20. Financial activity during a fiscal year does not always match the anticipated revenues and expenditures approved during the budget development process, and amendments to individual accounts are needed to formally change the budgeted amounts of the affected accounts.

There are two attachments to this request:

- Exhibit A – This attachment is part of the ordinance and specifics the items to be amended by fund and category.
- Ordinance No. 2020-21 – This is the official document that formalizes the adoption of the changes contained in Exhibit A.

3. PROS and CONS

<u>PROS</u>	<u>CONS</u>
• Properly account for unplanned/emergency expenditures and the use of donated, grant, and bond funds. • Maintain efficient processing of purchase orders and accounts payable. • Adjust individual accounts to accurately reflect the fiscal year activity in the account.	• If unapproved, accounts will not accurately reflect the activity that has occurred in the account and some accounts would remain over expended.

4. RECOMMENDATION

Staff recommends that Council adopt Ordinance 2020-21 to amend the FY2019-20 budget.

5. FUNDING SOURCE

Various funding sources as identified in Exhibit A.

6. TIMELINE

Immediate consideration is requested so that the final budget amendments are completed within 90 days of the fiscal year end.

7. OTHER OPTIONS (In order of preference)

N/A

8. ATTACHMENTS

5a. [Ordinance 2020-21](#)

5b. [Exhibit A- FY2019-20 Budget Amendments](#)

ORDINANCE NO. 2020-21

AN ORDINANCE OF THE CITY OF TAYLOR, TEXAS AMENDING ORDINANCE NO. 2020-12 ADOPTED ON AUGUST 13, 2020, MAKING APPROPRIATIONS FOR THE SUPPORT OF THE CITY FOR FISCAL YEAR BEGINNING OCTOBER 1, 2019 AND ENDING SEPTEMBER 30, 2020; BY AMENDING THE AMOUNT OF APPROPRIATIONS FOR THE GENERAL FUND AND OTHER CITY FUNDS THAT PROVIDE FOR THE PAYMENT OF OPERATING EXPENSES AND CAPITAL OUTLAY AND BY CHANGING THE AMOUNT APPROPRIATED FOR VARIOUS DEPARTMENTS OF THE CITY.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF TAYLOR:

SECTION 1.0: That the appropriations for the fiscal year beginning October 1, 2019 and ending September 30, 2020, for the support of the general government of the City of Taylor, Texas be amended for said term in accordance with the change in revenues and expenditures shown in the attached Exhibit A.

SECTION 2.0: That the amendment, as shown in words and figures in Exhibit A, is hereby approved in all aspects and adopted as an amendment to the City budget for the fiscal year October 1, 2019 and ending September 30, 2020.

SECTION 3.0: In accordance with Article 8 of the City Charter, this ordinance was introduced before the City Council of the City of Taylor, Texas on the 12th day of November, 2020.

PASSED, APPROVED, and ADOPTED this the ____ day of _____, 2020.

Brandt Rydell, Mayor

ATTEST:

Dianna Barker, City Clerk

EXHIBIT A ORDINANCE 2020-21

FY 2019-20 YTD
AMENDED BUDGETFY 2018-19 YEAR-
END ACTUALYEAR-END
AMENDMENTS**100 - GENERAL FUND**

REVENUES

310 - TAXES	\$	11,559,963	\$	12,006,792	\$	446,829
320 - PERMITS AND LICENSES	\$	333,308	\$	844,039	\$	510,731
330 - INTERGOVERNMENTAL REVENUES	\$	126,148	\$	142,010	\$	15,862
340 - CHARGES FOR SERVICE	\$	291,840	\$	224,497	\$	(67,343)
410 - FINES AND FORFEITURES	\$	304,400	\$	192,865	\$	(111,535)
420 - ASSESSMENTS	\$	10,500	\$	3,941	\$	(6,559)
430 - USE OF MONEY AND PROPERTY	\$	347,990	\$	333,685	\$	(14,305)
440 - DONATIONS FROM PRIVATE SOURCES	\$	107,000	\$	119,234	\$	12,234
450 - INTERFUND OPERATING TRANSFERS	\$	1,959,200	\$	2,135,150	\$	175,950
460 - PROCEEDS GEN FIXED ASSETS	\$	-	\$	10	\$	10
470 - PROCEEDS GEN LONG TERM LIABILITY	\$	-			\$	-

100 - GENERAL FUND TOTAL REVENUES	\$	15,040,349	\$	16,002,223	\$	961,874
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500 - CITY COUNCIL

100 - EMPLOYEE SERVICES	26,875	24,319	(2,556)
200 - OPERATIONAL SUPPLIES	14,368	9,467	(4,901)
300 - FACILITIES OPERATIONS	2,880	2,438	(442)
500 - CONTRACT SERVICES AND FEES	81,300	195,287	113,987
800 - CONTRIBUTIONS AND CONTINGENCIES	39,265	44,265	5,000

500 - CITY COUNCIL TOTAL	164,688	275,776	111,088
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501 - CITY MANAGEMENT

100 - EMPLOYEE SERVICES	629,697	624,156	(5,541)
200 - OPERATIONAL SUPPLIES	32,655	30,432	(2,223)
300 - FACILITIES OPERATIONS	2,646	2,593	(53)
400 - EQUIPMENT OPERATIONS/MAINTENANCE	1,952	2,007	55
500 - CONTRACT SERVICES AND FEES	5,624	18,425	12,801
700 - CAPITAL OUTLAY	-	-	-
800 - CONTRIBUTIONS AND CONTINGENCIES	-	-	-

501 - CITY MANAGEMENT TOTAL	672,574	677,613	5,039
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503 - PUBLIC INFORMATION

100 - EMPLOYEE SERVICES	62,246	72,057	9,811
200 - OPERATIONAL SUPPLIES	4,798	2,433	(2,365)
300 - FACILITIES OPERATIONS	1,210	1,244	34
400 - EQUIPMENT OPERATIONS/MAINTENANCE	-	-	-
500 - CONTRACT SERVICES AND FEES	102,709	92,799	(9,910)
700 - CAPITAL OUTLAY	-	-	-

503 - PUBLIC INFORMATION TOTAL	170,963	168,533	(2,430)
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	FY 2019-20 YTD AMENDED BUDGET	FY 2018-19 YEAR- END ACTUAL	YEAR-END AMENDMENTS
504 - HUMAN RESOURCES			
100 - EMPLOYEE SERVICES	177,389	163,576	(13,813)
200 - OPERATIONAL SUPPLIES	13,100	5,299	(7,801)
300 - FACILITIES OPERATIONS	665	649	(16)
400 - EQUIPMENT OPERATIONS/MAINTENANCE	1,400	972	(428)
500 - CONTRACT SERVICES AND FEES	48,702	70,536	21,834
700 - CAPITAL OUTLAY	-	-	-
504 - HUMAN RESOURCES TOTAL	241,256	241,032	(224)
512 - FINANCE			
100 - EMPLOYEE SERVICES	403,216	425,052	21,836
200 - OPERATIONAL SUPPLIES	8,648	6,780	(1,868)
300 - FACILITIES OPERATIONS	645	647	2
400 - EQUIPMENT OPERATIONS/MAINTENANCE	1,930	2,017	87
500 - CONTRACT SERVICES AND FEES	168,028	171,478	3,450
700 - CAPITAL OUTLAY	-	-	-
800 - CONTRIBUTIONS AND CONTINGENCIES	-	-	-
512 - FINANCE TOTAL	582,467	605,974	23,507
516 - MUNICIPAL COURT			
100 - EMPLOYEE SERVICES	306,569	263,373	(43,196)
200 - OPERATIONAL SUPPLIES	11,100	8,718	(2,382)
300 - FACILITIES OPERATIONS	5,725	6,414	689
400 - EQUIPMENT OPERATIONS/MAINTENANCE	2,150	2,745	595
500 - CONTRACT SERVICES AND FEES	81,835	71,963	(9,872)
700 - CAPITAL OUTLAY	-	-	-
516 - MUNICIPAL COURT TOTAL	407,379	353,213	(54,166)
522 - DEVELOPMENT SERVICES			
100 - EMPLOYEE SERVICES	684,929	689,331	4,402
200 - OPERATIONAL SUPPLIES	21,387	12,142	(9,245)
300 - FACILITIES OPERATIONS	4,647	4,281	(366)
400 - EQUIPMENT OPERATIONS/MAINTENANCE	30,513	30,579	66
500 - CONTRACT SERVICES AND FEES	302,371	397,308	94,937
700 - CAPITAL OUTLAY	-	-	-
800 - CONTRIBUTIONS AND CONTINGENCIES	-	-	-
522 - DEVELOPMENT SERVICES TOTAL	1,043,847	1,133,641	89,794

	FY 2019-20 YTD AMENDED BUDGET	FY 2018-19 YEAR- END ACTUAL	YEAR-END AMENDMENTS
524 - MAIN STREET			
100 - EMPLOYEE SERVICES	78,701	79,599	898
200 - OPERATIONAL SUPPLIES	29,150	1,415	(27,735)
300 - FACILITIES OPERATIONS	630	647	17
400 - EQUIPMENT OPERATIONS/MAINTENANCE	1,000	876	(124)
500 - CONTRACT SERVICES AND FEES	-	2,653	2,653
700 - CAPITAL OUTLAY	-	-	-
800 - CONTRIBUTIONS AND CONTINGENCIES	4,200	-	(4,200)
524 - MAIN STREET TOTAL	113,681	85,190	(28,491)
527 - MOODY MUSEUM			
100 - EMPLOYEE SERVICES	-	-	-
200 - OPERATIONAL SUPPLIES	2,000	1,825	(175)
300 - FACILITIES OPERATIONS	4,127	3,606	(521)
500 - CONTRACT SERVICES AND FEES	2,050	2,050	-
527 - MOODY MUSEUM TOTAL	8,177	7,481	(696)
532 - PUBLIC LIBRARY			
100 - EMPLOYEE SERVICES	369,215	362,923	(6,292)
200 - OPERATIONAL SUPPLIES	73,330	53,314	(20,016)
300 - FACILITIES OPERATIONS	21,190	16,273	(4,917)
400 - EQUIPMENT OPERATIONS/MAINTENANCE	1,000	330	(670)
500 - CONTRACT SERVICES AND FEES	11,379	11,817	438
700 - CAPITAL OUTLAY	70,824	54,623	(16,201)
532 - PUBLIC LIBRARY TOTAL	546,938	499,280	(47,658)
542 - FIRE/EMS			
100 - EMPLOYEE SERVICES	2,137,399	2,117,491	(19,908)
200 - OPERATIONAL SUPPLIES	96,045	87,553	(8,492)
300 - FACILITIES OPERATIONS	30,084	28,887	(1,197)
400 - EQUIPMENT OPERATIONS/MAINTENANCE	298,400	297,786	(614)
500 - CONTRACT SERVICES AND FEES	67,427	64,297	(3,130)
700 - CAPITAL OUTLAY	97,946	97,946	-
800 - CONTRIBUTIONS AND CONTINGENCIES	-	-	-
542 - FIRE/EMS TOTAL	2,727,301	2,693,960	(33,341)

	FY 2019-20 YTD AMENDED BUDGET	FY 2018-19 YEAR- END ACTUAL	YEAR-END AMENDMENTS
552 - POLICE			
100 - EMPLOYEE SERVICES	3,331,975	3,330,445	(1,530)
200 - OPERATIONAL SUPPLIES	63,069	47,292	(15,777)
300 - FACILITIES OPERATIONS	32,976	33,478	502
400 - EQUIPMENT OPERATIONS/MAINTENANCE	284,690	283,763	(927)
500 - CONTRACT SERVICES AND FEES	229,712	216,181	(13,531)
700 - CAPITAL OUTLAY	-	-	-
800 - CONTRIBUTIONS AND CONTINGENCIES	18,000	18,000	-
552 - POLICE TOTAL	3,960,422	3,929,159	(31,263)
558 - ANIMAL CONTROL			
100 - EMPLOYEE SERVICES	163,283	147,193	(16,090)
200 - OPERATIONAL SUPPLIES	9,380	5,975	(3,405)
300 - FACILITIES OPERATIONS	11,419	7,794	(3,625)
400 - EQUIPMENT OPERATIONS/MAINTENANCE	19,269	19,269	-
500 - CONTRACT SERVICES AND FEES	21,210	19,641	(1,569)
700 - CAPITAL OUTLAY	-	-	-
558 - ANIMAL CONTROL TOTAL	224,561	199,872	(24,689)
563 - STREETS & GROUNDS			
100 - EMPLOYEE SERVICES	1,028,067	1,021,619	(6,448)
200 - OPERATIONAL SUPPLIES	104,162	79,857	(24,305)
300 - FACILITIES OPERATIONS	83,280	68,920	(14,360)
400 - EQUIPMENT OPERATIONS/MAINTENANCE	256,710	239,695	(17,015)
500 - CONTRACT SERVICES AND FEES	202,004	242,353	40,349
700 - CAPITAL OUTLAY	-	-	-
563 - STREETS & GROUNDS TOTAL	1,674,223	1,652,445	(21,778)
565 - PARKS & RECREATION			
100 - EMPLOYEE SERVICES	529,331	515,838	(13,493)
200 - OPERATIONAL SUPPLIES	111,325	79,140	(32,185)
300 - FACILITIES OPERATIONS	140,536	129,616	(10,920)
400 - EQUIPMENT OPERATIONS/MAINTENANCE	112,213	113,046	833
500 - CONTRACT SERVICES AND FEES	213,115	194,852	(18,263)
700 - CAPITAL OUTLAY	-	58,139	58,139
565 - PARKS & RECREATION TOTAL	1,106,520	1,090,631	(15,889)
566 - INTERNAL SERVICES			
100 - EMPLOYEE SERVICES	262,575	257,901	(4,674)
200 - OPERATIONAL SUPPLIES	24,183	19,992	(4,191)
300 - FACILITIES OPERATIONS	155,738	134,942	(20,796)
400 - EQUIPMENT OPERATIONS/MAINTENANCE	24,129	24,135	6
500 - CONTRACT SERVICES AND FEES	34,600	38,820	4,220
700 - CAPITAL OUTLAY	-	-	-
566 - INTERNAL SERVICES TOTAL	501,225	475,790	(25,435)

	FY 2019-20 YTD AMENDED BUDGET	FY 2018-19 YEAR- END ACTUAL	YEAR-END AMENDMENTS
573 - ENGINEERING			
100 - EMPLOYEE SERVICES	-	-	-
200 - OPERATIONAL SUPPLIES	-	-	-
300 - FACILITIES OPERATIONS	750	482	(268)
400 - EQUIPMENT OPERATIONS/MAINTENANCE	-	-	-
500 - CONTRACT SERVICES AND FEES	150,000	163,653	13,653
700 - CAPITAL OUTLAY	-	-	-
573 - ENGINEERING TOTAL	150,750	164,135	13,385
575 - INFORMATION TECHNOLOGY			
100 - EMPLOYEE SERVICES	70,662	70,420	(242)
200 - OPERATIONAL SUPPLIES	19,703	18,976	(727)
300 - FACILITIES OPERATIONS	31,736	31,422	(314)
400 - EQUIPMENT OPERATIONS/MAINTENANCE	15,127	15,127	-
500 - CONTRACT SERVICES AND FEES	81,654	108,907	27,253
700 - CAPITAL OUTLAY	-	-	-
575 - INFORMATION TECHNOLOGY TOTAL	218,882	244,852	25,970
592 - NON-DEPARTMENTAL			
200 - OPERATIONAL SUPPLIES	-	174,307	174,307
500 - CONTRACT SERVICES AND FEES	341,189	314,311	(26,878)
600 - DEPRECIATION/BAD DEBT	-	-	-
700 - CAPITAL OUTLAY	-	445	445
800 - CONTRIBUTIONS AND CONTINGENCIES	264,777	109,371	(155,406)
900 - DEBT SERVICE	-	-	-
592 - NON-DEPARTMENTAL TOTAL	605,966	598,434	(7,532)
TOTAL GENERAL FUND EXPENDITURES	15,121,820	15,097,011	(24,809)

119 - TAX INCREMENT FINANCING FUND (TIF)

REVENUE

TOTAL TIF REVENUE:	274,348	263,647	(10,701)
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EXPENDITURE

TOTAL TIF EXPENDITURES:	399,500	605,651	206,151
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	FY 2019-20 YTD AMENDED BUDGET	FY 2018-19 YEAR- END ACTUAL	YEAR-END AMENDMENTS
120 - HOTEL MOTEL TAX FUND			
REVENUE			
TOTAL HOTEL MOTEL REVENUE:	70,000	166,834	96,834
EXPENDITURE			
TOTAL HOTEL MOTEL EXPENDITURE:	70,000	187,389	117,389
123 - MAIN STREET FUND			
REVENUE			
TOTAL MAIN STREET REVENUE:	53,600	67,385	13,785
EXPENDITURE			
TOTAL MAIN STREET EXPENDITURE:	47,500	58,681	11,181
125 - MUNICIPAL COURT SPECIAL REVENUE FUND			
REVENUE			
TOTAL MUNICIPAL COURT SPECIAL REVENUE FUND	20,464	14,021	(6,443)
EXPENDITURE			
625 - MUNICIPAL COURT BLDG	10,082	4,092	(5,990)
626 - MUNICIPAL COURT TECHNOLOGY	28,471	27,474	(997)
627 - MUNICIPAL COURT JUDICIAL	-	740	740
TOTAL MUNICIPAL COURT SPECIAL REVENUE FUND	38,553	32,306	(6,247)
129 - LIBRARY DONATION/GRANT FUND			
REVENUE			
TOTAL LIBRARY DONATION/GRANT REVENUE:	5,650	2,491	(3,159)
EXPENDITURE			
TOTAL LIBRARY DONATION/GRANT EXPENDITURE:	-	5,812	5,812
140 - GENERAL TAX SUPPORTED DEBT SERVICE FUND			
REVENUE			
TOTAL TAX SUPPORTED DEBT SERVICE REVENUE:	2,685,742	2,738,472	52,730
EXPENDITURE			
TOTAL TAX SUPPORTED DEBT SERVICE EXPENDITURE:	2,664,242	2,664,300	58

	FY 2019-20 YTD AMENDED BUDGET	FY 2018-19 YEAR- END ACTUAL	YEAR-END AMENDMENTS
143 - MDUS I&S DEBT SERVICE FUND			
REVENUE			
TOTAL MDUS DEBT SERVICE REVENUE:	280,577	280,577	-
EXPENDITURE			
TOTAL MDUS DEBT SERVICE EXPENDITURE:	280,577	280,713	136
146 - I&S FOR AIRPORT DEBT SERVICE FUND			
REVENUE			
TOTAL AIRPORT DEBT SERVICE REVENUE:	108,700	108,700	-
EXPENDITURE			
TOTAL AIRPORT DEBT SERVICE EXPENDITURE:	108,700	108,701	1
147 - TUF (STREETS) I&S DEBT SERVICE FUND			
REVENUE			
TOTAL TUF DEBT SERVICE REVENUE:	293,442	293,682	240
EXPENDITURE			
TOTAL TUF DEBT SERVICE EXPENDITURE:	293,442	293,682	240
200 - ROADWAY IMPACT FEE FUND			
REVENUES			
TOTAL ROADWAY IMPACT FEE REVENUE:	36,480	58,168	21,688
EXPENDITURES			
TOTAL ROADWAY IMPACT FEE EXPENDITURES:	30,000	38,910	8,910
210 - TRANSPORTATION USER FEE (TUF)			
REVENUES			
TOTAL TUF REVENUE:	796,198	795,017	(1,181)
EXPENDITURES			
TOTAL TUF EXPENDITURES:	783,442	1,755,792	972,350

	FY 2019-20 YTD AMENDED BUDGET	FY 2018-19 YEAR- END ACTUAL	YEAR-END AMENDMENTS
300 - MUNICIPAL DRAINAGE UTILITY SYSTEM (MDUS)			
REVENUES			
TOTAL MDUS REVENUES:	500,760	466,538	(34,222)
EXPENDITURES			
TOTAL MDUS EXPENDITURES:	491,227	498,578	7,351
320 - SANITATION FUND			
REVENUES			
TOTAL SANITATION FUND REVENUE:	1,800,000	1,741,512	(58,488)
EXPENDITURES			
TOTAL SANITATION FUND EXPENDITURES:	1,768,700	1,807,800	39,100
340-UTILITY FUND			
REVENUE			
320 - PERMITS AND LICENSES	1,200	600	(600)
330 - INTERGOVERNMENTAL REVENUE	-	-	-
340 - CHARGES FOR SERVICES	9,683,000	9,178,134	(504,866)
420 - ASSESSMENTS	62,575	89,546	26,971
430 - USE OF MONEY AND PROPERTY	123,500	180,441	56,941
450 - INTERFUND OPERATING TRANSFERS	-	-	-
460 - PROCEEDS GENERAL FIXED ASSETS	1,000	2,714	1,714
470 - PROCEEDS GENERAL LONG-TERM LIABILITIES	-	-	-
TOTAL UTILITY REVENUES	9,871,275	9,451,435	(419,840)
UTILITIES FUND EXPENDITURES			
701 - UTILITIES ADMINISTRATION			
100 - EMPLOYEE SERVICES	331,324	321,247	(10,077)
200 - OPERATIONAL SUPPLIES	50,386	50,645	259
300 - FACILITIES OPERATIONS	2,381	2,856	475
400 - EQUIPMENT OPERATIONS/MAINTENANCE	29,639	29,672	33
500 - CONTRACT SERVICES AND FEES	66,903	77,636	10,733
600 - DEPRECIATION/BAD DEBT	-	-	-
700 - CAPITAL OUTLAY	-	-	-
TOTAL UTILTIY ADMINISTRATION:	480,633	482,056	1,423

	FY 2019-20 YTD AMENDED BUDGET	FY 2018-19 YEAR- END ACTUAL	YEAR-END AMENDMENTS
706 - WASTEWATER TREATMENT PLANT			
100 - EMPLOYEE SERVICES	183,122	186,742	3,620
200 - OPERATIONAL SUPPLIES	46,800	41,888	(4,912)
300 - FACILITIES OPERATIONS	182,160	147,675	(34,485)
400 - EQUIPMENT OPERATIONS/MAINTENANCE	65,131	59,996	(5,135)
500 - CONTRACT SERVICES AND FEES	196,330	234,658	38,328
600 - DEPRECIATION/BAD DEBT	-	-	-
700 - CAPITAL OUTLAY	-	-	-
TOTAL WWTP:	673,543	670,959	(2,584)
708 - UTILITY DISTRIBUTION			
100 - EMPLOYEE SERVICES	992,255	1,065,624	73,369
200 - OPERATIONAL SUPPLIES	278,305	244,397	(33,908)
300 - FACILITIES OPERATIONS	88,969	87,626	(1,343)
400 - EQUIPMENT OPERATIONS/MAINTENANCE	137,547	145,854	8,307
500 - CONTRACT SERVICES AND FEES	219,217	258,274	39,057
600 - DEPRECIATION/BAD DEBT	-	-	-
700 - CAPITAL OUTLAY	63,794	135,417	71,623
TOTAL UTILITY DISTRIBUTION:	1,780,087	1,937,192	157,105
709 - UTILITY NON-DEPARTMENTAL			
100 - EMPLOYEE SERVICES	-	-	-
200 - OPERATIONAL SUPPLIES	1,680,000	2,001,146	321,146
300 - FACILITIES OPERATIONS	1,764	-	(1,764)
500 - CONTRACT SERVICES AND FEES	284,000	404,588	120,588
600 - DEPRECIATION/BAD DEBT	37,500	46,233	8,733
700 - CAPITAL OUTLAY	144,900	105,000	(39,900)
800 - CONTRIBUTIONS AND CONTINGENCIES	2,060,676	1,619,870	(440,806)
900 - DEBT SERVICE	2,620,416	2,620,416	-
TOTAL UTILITY NON-DEPARTMENTAL:	6,829,256	6,797,253	(32,003)
TOTAL UTILITY FUND EXPENDITURES:	9,763,519	9,887,460	123,941

	FY 2019-20 YTD AMENDED BUDGET	FY 2018-19 YEAR- END ACTUAL	YEAR-END AMENDMENTS
345 - UTILITY IMPACT FEE FUND			
REVENUES			
TOTAL REVENUES:	205,000	538,770	333,770
EXPENDITURES			
TOTAL EXPENDITURES:	125,000	125,000	-
350 - AIRPORT FUND			
REVENUES			
TOTAL REVENUES:	429,500	408,715	(20,785)
EXPENDITURES			
100 - EMPLOYEE SERVICES	78,704	85,530	6,826
200 - OPERATIONAL SUPPLIES	4,950	3,235	(1,715)
300 - FACILITIES OPERATIONS	25,695	23,282	(2,413)
400 - EQUIPMENT OPERATIONS/MAINTENANCE	182,369	165,610	(16,759)
500 - CONTRACT SERVICES AND FEES	11,910	12,188	278
600 - DEPRECIATION/BAD DEBT	-	-	-
700 - CAPITAL OUTLAY	-	-	-
800 - CONTRIBUTIONS AND CONTINGENCIES	15,000	15,000	-
900 - DEBT SERVICE	108,700	108,700	-
TOTAL AIRPORT EXPENDITURES:	427,328	413,545	(13,783)
370 - CEMETERY FUND			
REVENUES			
TOTAL REVENUES:	212,300	242,192	29,892
EXPENDITURES			
			-
100 - EMPLOYEE SERVICES	106,862	74,421	(32,441)
200 - OPERATIONAL SUPPLIES	4,160	2,741	(1,419)
300 - FACILITIES OPERATIONS	3,014	2,179	(835)
400 - EQUIPMENT OPERATIONS/MAINTENANCE	16,960	16,960	-
500 - CONTRACT SERVICES AND FEES	81,171	62,598	(18,573)
600 - DEPRECIATION/BAD DEBT	-	-	-
700- CAPITAL OUTLAY	-	-	-
800 - CONTRIBUTIONS AND CONTINGENCIES	-	-	-
SUB-TOTAL:			
TOTAL CEMETERY EXPENDITURES:	212,167	158,899	(53,268)

	FY 2019-20 YTD AMENDED BUDGET	FY 2018-19 YEAR- END ACTUAL	YEAR-END AMENDMENTS
382 - FLEET SERVICES OPERATING FUND			
REVENUES			
TOTAL REVENUES:	694,668	719,981	25,313
EXPENDITURES			
100 - EMPLOYEE SERVICES	169,075	169,482	407
200 - OPERATIONAL SUPPLIES	24,359	21,143	(3,216)
300 - FACILITIES OPERATIONS	1,706	1,691	(15)
400 - EQUIPMENT OPERATIONS/MAINTENANCE	434,828	474,110	39,282
500 - CONTRACT SERVICES AND FEES	64,676	72,118	7,442
600 - DEPRECIATION/BAD DEBT	-	-	-
700 - CAPITAL OUTLAY	-	-	-
800 - CONTRIBUTIONS AND CONTINGENCIES	24	-	(24)
900 - DEBT SERVICE	-	-	-
TOTAL FLEET OPERATING FUND EXPENDITURES:	694,668	738,544	43,876
384 - FLEET REPLACEMENT FUND			
REVENUES			
TOTAL REVENUES:	1,312,368	581,196	(731,172)
EXPENDITURES			
TOTAL FLEET REPLACEMENT EXPENDITURES:	1,312,368	2,504,859	1,192,491



City Council Meeting December 10, 2020 Transmittal Letter

STRATEGIC PILLAR

- ☐ Streets/Infrastructure
- ☐ Quality of Life
- ☐ Economic Vitality

Agenda Item #: 6
Agenda Title: Introduce Ordinance 2021-01 amending the Sign Ordinance.

Council Action to be taken: Introduce ordinance

Department Submitted: Development Services

Staff Contact: Tom Yantis, Assistant City Manager

1. PURPOSE/DESCRIPTION

This agenda item introduces an ordinance amending the Sign Ordinance based on a set of recommendations from the Main Street Advisory Board regarding proposed amendments to the sign ordinance related to sign regulations in the Downtown Sign District and additional recommendations from staff regarding political signs on City property that were presented to City Council on November 12, 2020.

2. STAFF ANALYSIS / BACKGROUND / PRIOR COUNCIL ACTIONS

Earlier this year, the City received code enforcement complaints about a number of signs in the downtown that were either unpermitted or were in violation of the City's sign ordinance. Staff began an inventory of signs in the Downtown Sign District to identify signs that were not permitted and/or that were not in compliance with the City's sign ordinance. During that process, staff identified several issues with the current sign ordinance that were recommended to be addressed.

In the Downtown Sign District as established in the sign ordinance, the Main Street Advisory Board makes recommendations on the sign regulations and may hear requests for variances. Staff presented its recommendations to the Main Street Advisory Board and sought their advice and recommendation to City Council at their meetings in August and October.

The Main Street Board submitted a set of recommended amendments that were reviewed and approved by Council on November 12, 2020. In addition to these recommendations, staff also received complaints during this past election cycle about the number and size of political signs on City property at City Hall and Heritage Square. Staff is proposing that the City amend the sign ordinance to provide more specific details about the number, size, location and duration of political signs on City property. This would be consistent with ordinances from other cities in the County such as Round Rock and Hutto.

3. PROS and CONS

<u>PROS</u>	<u>CONS</u>
• Updates the sign ordinance to address issues that have been experienced by business owners • Provides more signage options for businesses • Ensures more orderly display of political signs on City property	• May introduce some visual clutter due to additional sign types being permitted

4. RECOMMENDATION

Introduce ordinance.

5. FUNDING SOURCE

N/A

6. TIMELINE

Ordinance introduced – December 10, 2020

Ordinance considered for approval – January 14, 2021

7. OTHER OPTIONS (In order of preference)

N/A

8. ATTACHMENTS

6a. [Proposed ordinance 2021-01](#)

6b. [PowerPoint presentation](#)

ORDINANCE NO. 2021-01

AN AMENDMENT TO THE TAYLOR CITY CODE, CHAPTER 24 SIGNS, AMENDING SECTION 24-2, DEFINITIONS, AND SECTION 24-3, GENERAL PROVISIONS; PROVIDING A PENALTY FOR VIOLATION OF THE SIGN ORDINANCE AS AMENDED; PROVIDING AN EFFECTIVE DATE; PROVIDING A REPEALER CLAUSE; AND PROVIDING A SAVINGS CLAUSE.

WHEREAS, the City adopted Chapter 24 Signs, of the Taylor City Code; and

WHEREAS, the City Council desires to amend the Taylor City Code, Chapter 24 Signs, by amending Section 24-2, Definitions, and Section 24-3, General Provisions, as set forth in this Ordinance;

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF TAYLOR, TEXAS, THAT:

SECTION 1. All of the facts recited in the preamble to this Ordinance are hereby found by the City Council to be true and correct and are incorporated by reference herein and expressly made a part hereof, as if copied herein verbatim.

SECTION 2. Chapter 24, Section 24-2, Definitions is amended as follows:

The definition of Accessory is deleted and shall be replaced with the following: *Accessory sign* means a small sign that is not part of the total allowable square footage permitted for the building. Accessory signs are restricted to hours of operation, credit cards accepted, and official notices of services required by law or trade affiliations.

The definition of Window sign is deleted and shall be replaced with the following: *Window sign* means a sign affixed to the interior or exterior of a window or placed within three (3) feet of a window for the purpose of being visible from the exterior of the window. Merchandise displays shall not be considered window signs.

The definition of Projection sign is deleted and replaced with the following: *Projecting sign* means a two-sided sign projecting from a building and placed perpendicular to the

building's front façade or placed at the building's exterior corner.

The following definition is added to Section 24-2: *Feather banner* means a vertical portable sign, made of lightweight material that is prone to move in the wind, and that contains a harpoon-style pole or staff driven into the ground for support or is supported by means of an individual stand. This definition includes such signs of any shape including flutter, bow, teardrop, rectangular, shark, feather, and U-shaped. For purposes of this chapter, a feather banner is an advertising device and sign.

SECTION 3. Chapter 24, Section 24-3 is amended as follows:

Section 24-3-(t)-(2)-(b) is deleted and replaced with the following: *Projecting sign*. Shall not exceed 12 square feet in area. The top of all projecting signs shall be located below the roofline and at a height not greater than 16 feet above the ground. The base of all projecting signs shall be no less than eight feet above the ground. Projecting signs shall not project from the exterior wall of the building more than six feet.

Section 24-3-(t)-(3)-(b) is deleted and replaced with the following: *Hanging signs*. Shall not exceed eight square feet in area and provide a minimum of seven (7) feet clearance between the sidewalk surface and the bottom of the sign. Sign shall be within six feet of the door. Must hang perpendicular to the facade of the building.

Section 24-3-(t)-(4)-(e) is deleted and replaced with the following: *Window signs*. The coverage area shall not exceed 30 percent of the total window area.

Section 24-3-(t)-(4), is amended to add the following subpart f as follows: *Feather banner sign*. Shall not exceed sixteen (16) square feet in area. Feather banner signs are for temporary use only and shall not be displayed for more than thirty (30) calendar days in a twelve (12) month period and require a permit.

Section 24-3-(h)(4), shall be deleted and replaced with the following:

(4) Except as provided in subsection a. below, it shall be unlawful for any person to post a political campaign sign on or over any public property in the city.

a. A temporary political campaign sign or literature may be placed on public property that serves as an early voting location or an election day voting location. Only signs and literature that refer to a candidate or issue that is on the ballot at a particular voting location may be placed at that voting location. A maximum of ten signs per candidate or issue may be placed at each polling location. Each temporary political sign or literature placed on public property being used as a polling location may not:

1. Have an effective area greater than three square feet;
2. Be more than four feet high;
3. Be illuminated or have any moving elements;
4. Be within 100 feet of an outside door through which a voter may enter the public building;
5. Be on driveways, parking areas, or medians within parking areas on the premises, with the exception of political campaign signs attached to vehicles lawfully parked at the premises;
6. Be attached, placed or otherwise affixed in any area designated as a planting or landscaped area or to any tree, shrub, building, pole or other improvement;
7. Be placed within ten feet of the public roadway adjacent to the premises;
8. Be placed on the premises earlier than 24 hours before the commencement of early voting if being placed at an early voting location or the commencement of election day voting if being placed at an election day voting location; and
9. Remain on the premises more than 24 hours after early voting has ended if placed at an early voting location or after election day voting has ended if being placed at an election day voting location.

b. In a campaign for political office, the candidate for such office shall be deemed the person responsible for the posting of political campaign signs, unless he first notifies the city clerk of another person who is responsible. In such cases, the candidate shall provide the name, address, telephone number, and signed consent of such other responsible person. In a campaign regarding a ballot measure, the president of the committee supporting or opposing such ballot measure shall be deemed responsible, unless he first notifies the city clerk of another person responsible, in the manner described above. Such candidate, committee president, or other designated person shall be subject to prosecution for any violation of this section.

c. Members of the city staff are hereby authorized and directed to remove any political campaign sign found posted within the corporate limits of the city when such sign is in violation of the provisions of this section.

d. All political campaign signs posted on public property in violation of this section are hereby declared to be public nuisances and may be abated as such by the city. All political campaign signs posted on public property shall be deemed to be abandoned and shall become the property of the city and may be disposed of at the discretion of the city.

SECTION 4. Any person, firm or corporation violating any of the provisions or terms of this Ordinance shall be guilty of a misdemeanor and upon conviction shall be subjected to a fine not to exceed the sum of Five Hundred and No/100 Dollars (\$500.00) for each offense, except where a different penalty has been established by State law for such offense in which event the penalty shall be fixed by State law and if deemed a violation of any provision which governs fire safety, zoning or public health or sanitation shall be punished by a penalty of fine not to exceed the sum of Two Thousand and No/100 Dollars (\$2,000.00) for each offense; and each and every day such violation is continued shall be deemed to constitute a separate offense.

Section 5. The Taylor City Code, Chapter 24 Signs, is amended to add this Ordinance.

Section 6. This Ordinance shall take effect immediately from and after its passage and publication in accordance with the provisions of the Tex. Loc. Gov't. Code.

Section 7. If any article, paragraph, or part of a paragraph of this Ordinance is held to be invalid or unconstitutional by a court of competent jurisdiction, the same shall not invalidate or impair the validity, force or effect of any other article, paragraph or part of a paragraph of this Ordinance which shall remain in full force and effect.

Section 8. All provisions of any Ordinance of the City of Taylor, Texas, in conflict with the provisions of this Ordinance shall be, and the same are hereby repealed, and all other provisions not in conflict with the provisions of this Ordinance shall remain in full force and effect.

In accordance with Article VIII, Section 1 of the City Charter, Ordinance No. 2021-01 was introduced before the Taylor City Council on the 10th day of December, 2020.

PASSED, APPROVED, and ADOPTED on this _____ day of January, 2021.

Brandt Rydell, Mayor

ATTEST:

Dianna Barker, City Clerk

APPROVED AS TO FORM:

Ted W. Hejl, City Attorney

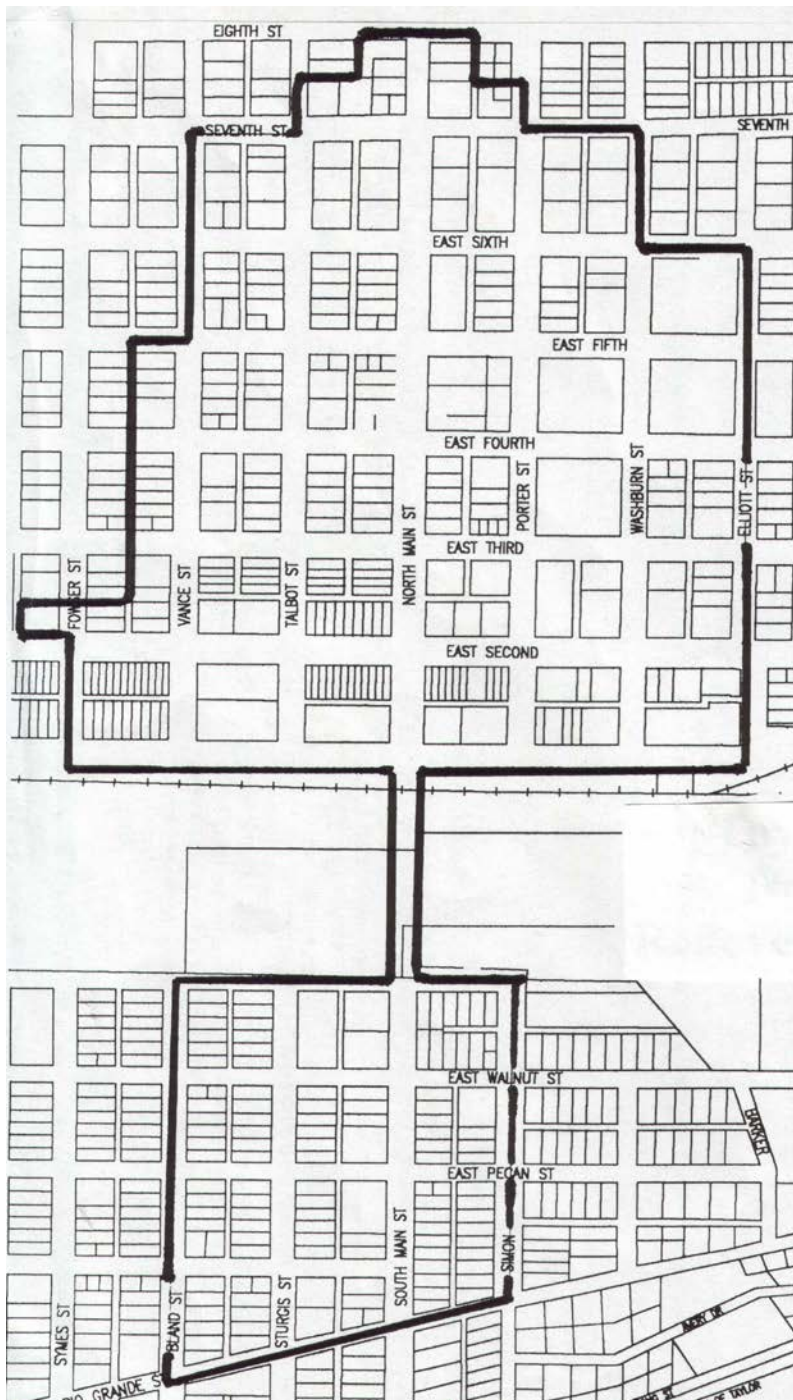


Fine-Tuning the Sign Ordinance

Changes, updates, and additions to improve the quality of signage in the Downtown Commercial District of Taylor as recommended by the Main Street Advisory Board.

Presented to the Taylor City Council
December 10, 2020

Map of the Downtown Improvement District



WINDOW SIGNS:

Window sign means a sign affixed to the interior or exterior of a window or placed immediately behind a windowpane within 3 feet of a window for the purpose of being visible from the exterior of the window. Merchandise displays shall not be considered window signs.



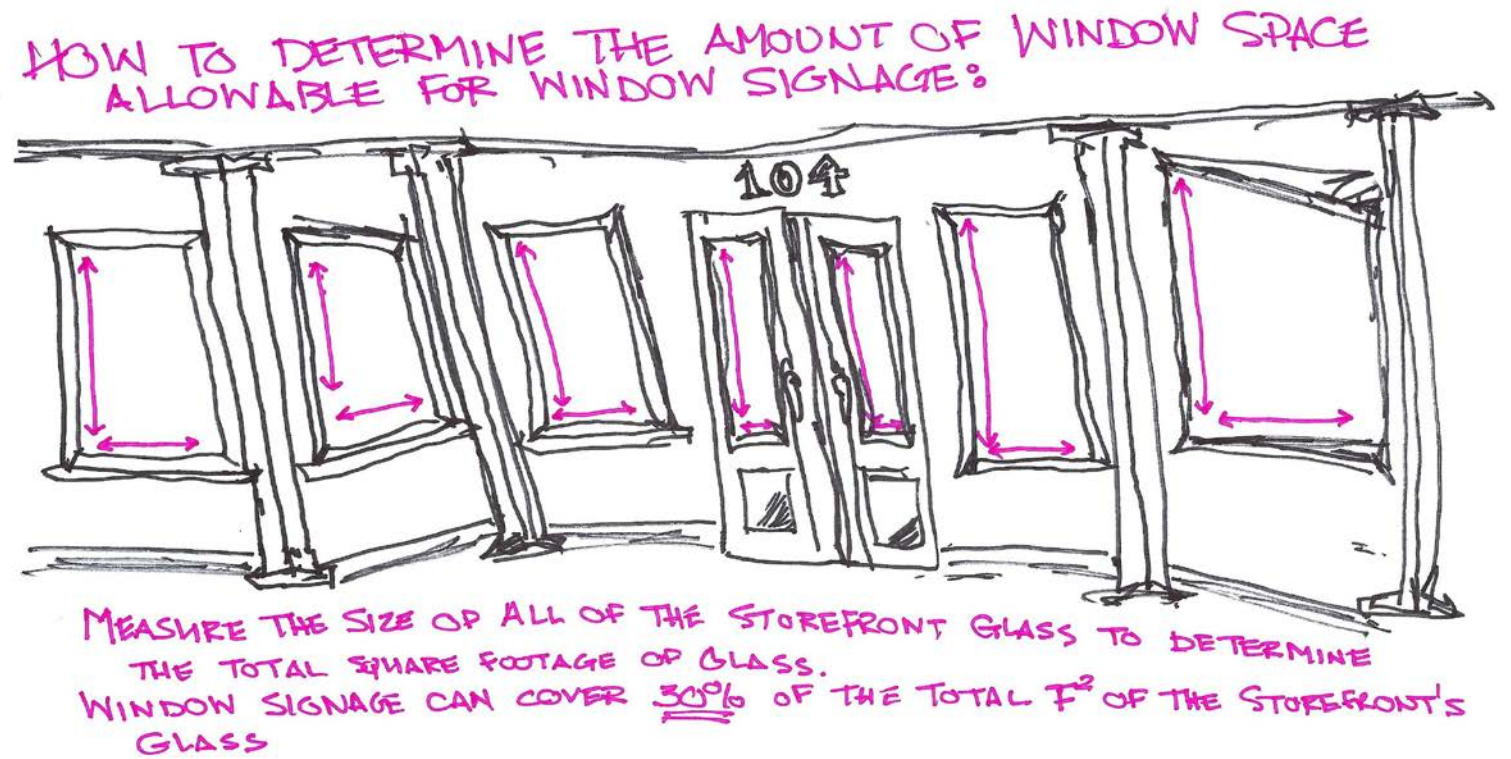
Examples of window signs



Window displays of merchandise are NOT considered to be signage.



The coverage area shall not exceed 30 percent of the total window area.



Accessory (Incidental) Signs:

Accessory (incidental) sign means a small sign that is not part of the total allowable square footage permitted for the building. Such signs are restricted to hours of operation, credit cards accepted, and official notices of services required by law or trade affiliations.



Projecting Signs:

Projecting sign means a two-sided sign projecting from a building and placed perpendicular to the building's front façade or placed at the building's exterior corner.



Hanging Signs:

Hanging sign means a sign attached to underneath the canopy or awning.

Change the minimum clearance between the sidewalk and the bottom of the hanging sign from 8' to 7'.

Hanging signs shall not exceed eight square feet in area and provide a minimum of ~~eight~~ seven (7) feet clearance between the sidewalk surface and the bottom of the sign. Sign shall be within six feet of the door. Must hang perpendicular to the facade of the building.



Feather Banners:

Feather banner means a vertical portable sign, made of lightweight material that is prone to move in the wind, and that contains a harpoon-style pole or staff driven into the ground for support or is supported by means of an individual stand. This definition includes such signs of any shape including flutter, bow, teardrop, rectangular, shark, feather, and U-shaped. For purposes of this chapter, a feather banner is an advertising device and sign.

Feather banner sign. Shall not exceed sixteen (16) square feet in area. Feather banner signs are for temporary use only and shall not be displayed for more than thirty (30) calendar days in a twelve (12) month period and require a permit.



The Importance of Good Signage -

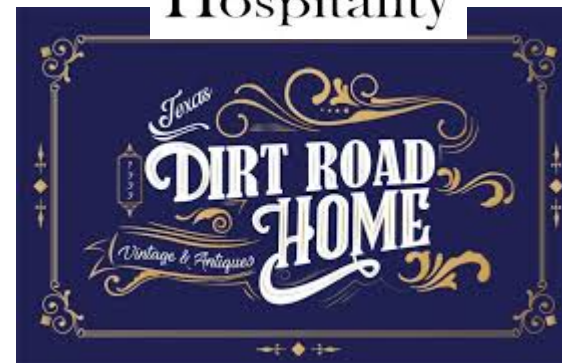
1. The business sign is the basic link to customers in 98% of all United States retail transactions (totaling well over \$3-trillion annually)!
2. It is essential both in impulse shopping and in the development of repeat customers for the good, product, or service.
3. Surveys of new customers/clients disclose that the on-premise business sign either
 - (a) provided the new customer with their first knowledge of the company or
 - (b) provided the new customer with their first impression of the company.



Southern



Hospitality





City Council Meeting December 10, 2020 Transmittal Letter

STRATEGIC PILLAR

☒ Streets/Infrastructure

☐ Quality of Life

☐ Economic Vitality

Agenda Item #: 7
Agenda Title: **Introduce Ordinance 2021-02 Amending the Subdivision Ordinance for Updates to Pavement Design Criteria and associated elements of the Engineering Manual**

Council Action to be taken: Introduce Ordinance

Department Submitted: Engineering/ Public Works/Development Services

Staff Contact: Jacob Walker, HDR Engineering, City Engineer
Jim Gray, Director of Public Works
Tom Yantis, Assistant City Manager, Director of Development Services

1. PURPOSE/DESCRIPTION

The purpose of this agenda item is to update pavement design criteria and associated elements of the City's Engineering Manual.

2. STAFF ANALYSIS / BACKGROUND / PRIOR COUNCIL ACTIONS

The City has asked HDR to look at updating specific sections of the Engineering Manual over the last two years that have the largest impacts on the City's infrastructure. HDR completed updates for the drainage and floodplain sections of the manual in December 2019.

Currently, HDR has reviewed the pavement design criteria portion of the Engineering Manual. As development activity increases in Taylor, it is important that the design criteria is adequate for the longevity of the pavement.

In June 2020, HDR presented the recommendations from the CAPEC study for pavement design for the highly expansive soils in Taylor. Council asked HDR to study a "middle-ground" design that would improve current design criteria but not cost the development community as much as the CAPEC standard would.

In October 2020, HDR presented an alternative to CAPEC to optimize the design criteria as close to CAPEC standards while maintaining economic consideration.

HDR performed geotechnical analysis and cost comparisons on a per-lot basis. HDR also took into account constructability and familiarity to current City design criteria. The proposed minimum pavement section would require adding 8 inches of lime treated subgrade to collector and local street sections while leaving the existing asphalt and base requirements as they are currently.

The additional requirement of 8 inches of lime treatment results in nearly the same pavement structural number as the CAPEC design while only adding approximately \$1,000 to each lot instead of \$2,000 that the CAPEC design added.

Council approved the direction to update the Engineering Manual per HDR's recommendation

3. PROS and CONS

<u>PROS</u>	<u>CONS</u>
• Increased pavement life • Reduced maintenance costs (routine and capital) • Ease of construction • More affordable than full CAPEC design for developers	• Not full CAPEC standard • Increases cost per lot for developers

4. RECOMMENDATION

Recommendation is to amend Subdivision Ordinance for Updates to Pavement Design Criteria and associated elements of the Engineering Manual

5. FUNDING SOURCE

N/A

6. TIMELINE

June 11, 2020 – HDR presented CAPEC presentation to Council

October 8, 2020 – HDR presented alternate pavement design update, and Council approved

7. OTHER OPTIONS (In order of preference)

1. Continue analysis for other design criteria alternatives
2. Keep existing design criteria

8. ATTACHMENTS

7a. [Power Point Presentation](#)

7b. [Engineering Manual Update with Changes](#)

7c. [Draft Ordinance 2021-02](#)



Pavement Design Update

Council Date: 12/10/2020

FOLLOW UP TO PREVIOUS PRESENTATIONS
TO COUNCIL IN JUNE 2020 & OCTOBER 2020

Local Road Recommendation

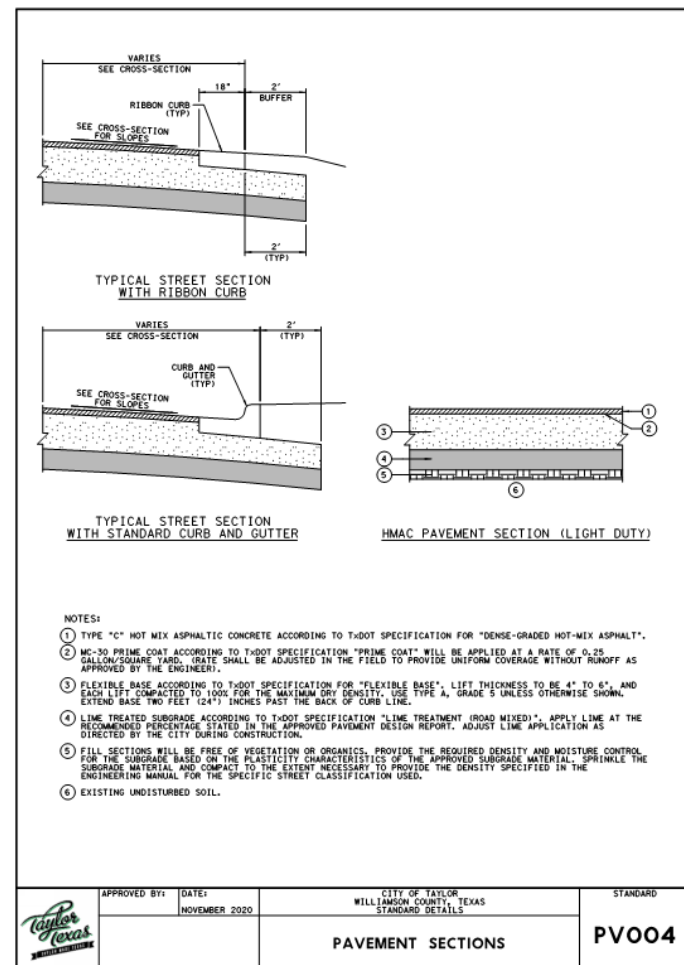


	City of Taylor		CAPEC
	Existing Section	Proposed Section	Representative Section
Existing Subgrade Conditions	Expansive Clay	Expansive Clay	Very High Swell Clay
HMA, inches	2	2	2
Flex Base, Inches	14	14	12
Lime Treated Subgrade, inches	none	8	12
Compacted Subgrade, inches	8	n/a	n/a
AASHTO 1993 Structural Number	2.84	3.48	3.52

Collector Road Recommendation



	City of Taylor		CAPEC
	Existing	Proposed Section	Representative Section
Existing Subgrade Conditions	Expansive Clay	Expansive Clay	Very High Swell
HMA, inches	3	3	3.5
Flex Base, Inches	18	18	14
Lime Treated Subgrade, inches	none	8	12
Compacted Subgrade, inches	8	n/a	n/a
AASHTO 1993 Structural Number	3.84	4.48	4.46

The logo for the City of Taylor, Texas, features the words "Taylor Texas" in a large, stylized, cursive script. The text is black with a green outline. Below the script, a black banner contains the words "CITY OF TAYLOR TX" in white, uppercase, sans-serif font.

Conclusion



- ☐ Revised Minimum Pavement Section in Engineering Manual
- ☐ Updated Testing & Inspection Section in Engineering Manual
- ☐ Added Geotechnical Investigation & Engineering Requirements in Engineering Manual
- ☐ Updated Several Standard Design Details & Added 1 Standard Detail for Intersection Pavement



SECTION 1 PURPOSE/INTRODUCTION

The purpose of this document is to establish the minimum standards and construction details for all public facility improvements.

SECTION 2 PLAN REQUIREMENTS

All construction plans for proposed public water, wastewater, paving, drainage, and traffic improvements shall be designed, signed, sealed, and dated by a Licensed Professional Engineer licensed in the State of Texas and adhere to the requirements of this Section. All construction plans or drawings must be accompanied by a Geotechnical Engineering Report signed, sealed, and dated by a Licensed Professional Engineer.

Plans and drawings shall be furnished in the following format and contain the elements listed herein:

1. Cover Sheet
 - a. Project title including City name
 - b. Legal property description, if applicable
 - c. Vicinity map
 - d. Owner, engineer, and surveyor name, address and telephone number
 - e. Project title in small print placed vertical along the right border
 - f. Sheet index
 - g. Signature block for City approval
2. Copy of Current Plat - When applicable, a copy of the current plat bound with plans. The signed plat shall be bound with the as-built drawings.
3. Drainage Area Map
 - a. This map should be accompanied with all drainage calculations. Provide size in acres, C, I, Tc, and Q for 25- and 100-year storm for each sub-drainage area. For inlet design provide an inlet flow calculation table. For storm drain design provide Tc's, areas, composite "C" value.
 - b. Show all existing and proposed contours at two-foot minimum intervals.
 - c. Show existing and proposed storm sewers, and/or other drainage facilities.
 - d. Show drainage areas based on improvements and final grading.
 - e. Distinguish all drainage areas by heavy dashed lines.
 - f. Provide arrows indicating flow direction for all streets and lots.
 - g. Provide summation of Q's at pertinent points (street intersections, inlets, passing inlets, headwalls, channel outfalls, control outlet structures, property boundaries, etc.).
 - h. Indicate all low and high points.
 - i. Show proposed drainage facilities with designation and size provided.
 - j. Existing and proposed 100-year floodplains for all waterways.
 - k. Minimum building slab elevations for lots on which the 100-year floodplain encroaches (only if elevations are not shown on approved/released final plat included with plans).

- I. Show and provide names of roadways.
4. Site Plan - indicating the location and width of all proposed and existing paving and driveway approaches noting the back-of-curb radii.
5. Utility Plan - indicating the location, size, material, and flow direction of all existing and proposed water and wastewater lines with adjacent existing or proposed top of curb grades. Also show the location of all existing and proposed fire hydrants adjacent to the site including the maximum coverage radius of each as outlined in later sections of this manual.
6. Plan and Profile Sheets - for paving, wastewater, storm drains, culverts, flumes, water lines twelve (12") inches in diameter and larger, and drainage channels. Stationing shall be generally left to right and with stationing beginning at the downstream end for all sewers, storm drains, and channels. Stationing shall be included on the plan view as well as the profile for all roads, water, sewer, storm drain and channel sheets. Elevations shall be calculated and provided in all profiles as indicated below.
 - a. Straight grade - provide elevations at a maximum interval of 50 feet.
 - b. Vertical curve - provide elevations at the beginning and ending points and at a maximum interval of 25 feet in between.
 - c. See additional requirements under 'Drainage Plan and Profiles' below.
7. Details - for improvements which are to be dedicated to the City maintenance. Refer to City of Taylor Engineering Manual Details where applicable.
8. Maximum Sheet Size - Plan and profile sheets shall be a maximum of twenty-two (22") inches wide by thirty-four (34") inches long.
9. Scale - Horizontal scale shall be one inch equals fifty feet (1" = 50') or larger, i.e. 1" = 40'. Vertical scale shall be one (1") inch equals five (5') feet or larger.
10. Drainage Plan - Show the following:
 - a. Contours, drainage features, street and lot layout, street names, lot and block numbers
 - b. Limits of 100-year fully developed and FEMA floodplains
 - c. Drainage easements with recording information
 - d. Drainage infrastructure with unique labels and sizes
 - e. All horizontal PI, PC, PT, BEGIN and END stations and pipe and/or channel intersection equations
 - f. All inlets, Q at inlets, Q passing inlets, and flow lines
 - g. PI deflection angle in degrees
 - h. Any storm drain assignments off ROW or centerline
 - i. Channel and/or pipe outfall riprap and type of headwalls (show erosion control measures - dissipater blocks, rock riprap, etc.)
 - j. Beginning, end stations, and erosion control material used for channels (label type of material to be used - i.e. dry stacked or mortared rock, etc.)
 - k. Note 100-year frequency storm overflow swales over pipe system (when used) and give typical detail
 - l. Reference to construction details
 - m. Show all trees and utility and other improvements
11. Drainage Profiles - Show the following:
 - a. Scales. Horizontal same as Plan

- b. All stations and elevations at points of intersecting drainage lines, grade breaks, riprap, drop section, toe of splash pads, toe of slope, beginning of slope, and beginning of riprap.
 - c. Stations and elevations at PI, PC, PT, grade breaks, intersecting lines, and beginning and end of construction.
 - d. Provide existing and proposed grade at the centerline in %.
 - e. Hydraulic Grade Line (HGL) or water surface profile for design event(s) shall be plotted with all drainage design. Capacity, design discharge, and velocity shall be noted on each segment of drainage facility, including outfalls, in the profile whenever one or more of these parameters changes.
 - f. Channels/Swales. Provide the following: channel bottom width, side slopes, concrete trickle or pilot channel, height of channel lining if used, maximum and minimum depth of channel, Manning's "n" value used, and typical channels cross sections to scale. For roadway swales provide proposed pavement centerline and stationing.
 - g. Storm Drains/Culverts. Provide the following: proposed upstream and downstream flowlines; Top of Curb (TC) elevations at inlets on storm drain lines; pipe size and material (i.e. 24" RCP/CLIII); all riprap, headwalls, full channel section at pipe ends, when appropriate; and existing and finished ground line and fill areas at pipe centerline.
12. Detention Plan - In addition to items under Drainage Plans, show the following:
- a. Include drainage area map for detention ponds in plans.
 - b. Typical cross section(s) of ponds and section through the inlet and outlet structures. Show the 2-, 10-, 25-, and 100-year water surface elevations.
 - c. Indicate pond bottom and side slopes and ramp slopes and top width of berms.
 - d. Summary table of supporting calculations for hydrology, hydraulics, control outlet structures, etc.
 - e. Stage/Storage/Discharge data presented in tabular form with all discharge components, such as orifice, weir, and outlet conduit flows, clearly indicate. Indicate 2-, 10-, 25-, and 100-year water surface elevations.
 - f. Indicate staging area, access drives, ramps, gates, fences, perimeter access strips, signs, and setbacks, as applicable.
13. Erosion Control and Sedimentation Plan - an erosion control plan shall be submitted for all areas to be disturbed.
14. City Review - Construction plans shall be reviewed by the City Engineer and, upon approval by the City, signed after all comments have been resolved. Construction must start within one (1) year following the City's approval. Plans for projects which have not started construction within this time period must be submitted to the City for a new review.
15. GIS Submittal Standards
- a. Data MUST be to scale and geo-referenced to three points in electronic form to be submitted with required Record Drawings before signature and recordation to ensure that submission standards are met.
 - State Plane Projected Coordinate System -
NAD_1983_StatePlan_Texas_Central_FIPS_4203_Feet
 - Projection - Lambert_Conformal_Conic
 - False Easting - 2296583.33333333
 - False Northing - 9842500.00000000

- Central_Meridian - 100.33333333
 - Standard_Parallel_1 - 30.11666667
 - Standard_Parallel_2 - 31.88333333
 - Latitude_Of_Origin - 29.66666667
 - Linear Unit - Foot_US
 - Geographic Coordinate System - GCS_North_American_1983
 - Datum - D_North_American_1983
 - Prime Meridian - Greenwich
 - Angular Unit - Degree
- b. All Data must be provided in one layer, e. g. all lot lines should be in a single layer called "lotlines"; all utilities separate for each type e. g. water, wastewater, electric, etc.
 - c. All parcel information must be converted to .DXF files. One text style to be used for all.
 - d. Street Names should be in all capital letters.
 - e. No blocks or XREFS may be attached to a file to eliminate imbedded files. Detach COGO files and other survey files.
 - f. All submissions must be to scale.
 - g. No three dimensional objects

SECTION 3 TESTING/INSPECTION

All construction, such as grading, paving, drainage structures, storm drain, curb and gutter, water and wastewater, are subject to inspection during the construction period by the ~~proper authorities of the~~ City, and shall be constructed in accordance with the approved Construction Plans and this Manual.

1. Periodic inspections will be performed by the City Inspector and/or City Engineer during construction of both proposed City maintained improvements and private maintained improvements. Inspections should be scheduled by the Contractor at the following intervals:
 - a. Density Controlled Subgrade and Lime Treated Subgrade when:
 - 1) All tests for subgrade have been witnessed by City and passed.
 - 2) The subgrade conforms to the Construction Plans.
 - 3) All grading, including ditches and erosion control, is complete.
 - 4) All culverts, headwalls, and Safety End Treatments are installed; for cast-in-place concrete structures, inspection of placement of reinforcing bars shall be performed prior to pouring of concrete.
 - b. Flexible Base when:
 - 1) All tests for flexible base have passed.
 - 2) The flexible base conforms to the Construction Plans.
 - c. Other periodic inspections during testing; and
 - d. Final inspection when:

- 1) All tests have passed.
 - 2) All improvements are complete and record drawings are prepared and approved by the City revised as per construction.
2. Request for inspection must be received by the City via e-mail and must include the subdivision name, current date, inspection requested (subgrade, base etc.) and desired date and time of inspection.
- Subgrade and flexible base inspections must be scheduled at least two (2) business days in advance of date requested for the inspection. For inspection during geotechnical testing, as least one business days' notice is required in advance of date requested for the inspection. At least five (5) business days' notice is required in advance of date requested for final inspections. Note that subgrade and base testing MUST be witnessed by the City. Subgrade and base testing shall include the area behind the curb line/edge of pavement as well as within the pavement limits. Test locations shall be as directed by the City and in accordance with this manual. The reinforcing steel in cast-in-place concrete structures must be inspected by City prior to pouring of concrete. Inspection should be scheduled at least two (2) business days in advance of date requested for the inspection. All cast-in-place structures should meet TxDOT Standards and Specifications. Cast-in-place concrete structures with uninspected reinforcing steel will be considered defective and must be removed and replaced at Contractor's expense.
3. If testing or inspection does not occur for the subgrade and/or base while the surface is exposed, the Contractor will be required to have an independent testing laboratory, acceptable to the City, perform testing at the Contractor's expense. Such testing may include core samples or additional density tests at 50-foot intervals measured longitudinally along the roadway. If the road surface is concrete, X-ray tests will be required for density tests. During the progress of the work, all materials, equipment and workmanship may be subjected to such inspections and tests as will assure conformance with the engineering requirements. All testing shall be done by an independent testing laboratory acceptable to the City and at the Contractor's expense. All final test reports submitted to the City and must be sealed by a Professional Engineer licensed in the state of Texas. The City shall approve the location of all testing. Testing locations shall be selected at varying distances from the centerline of the road. The Contractor is solely responsible for coordination with the testing laboratory, for scheduling of the tests, and for timely delivery of the results to the City. Additional testing may be required, at the Contractor's expense, at the discretion of the City Engineer.
4. Minimum Testing Requirements
- a. Subgrade
 - 1) Raw Subgrade (prior if approved pavement section does not require to lime treatment when lime or cement stabilized subgrade is not required for pavement design)
 - a) Soil characteristics including liquid limit, plastic limit, plasticity index, and sieve analysis.
 - b) Proof Rolling in accordance with TxDOT Item 216
 - bc) Density tests are required at a minimum of every 300 feet (measured longitudinally along the roadway) with three tests required in each cul-de-sac and eyebrow.
 - de) Standard Proctor tests are required for each existing soil type.
 - 2) Lime or Cement Stabilized Subgrade
 - a) Soil characteristics including liquid limit, plastic limit, plasticity index, and sieve analysis.

- ~~b) Pulverization Gradation tests are required at a minimum of every 300 feet (measured longitudinally along the roadway) with three tests required in each cul-de-sac and eyebrow.~~
 - ~~c) Standard Proctor tests are required for each existing soil type.~~
 - ~~d) Proof Rolling in accordance with TxDOT Item 216~~
 - ~~be) Density tests are required at a minimum of every 300 feet (measured longitudinally along the roadway) with three tests required in each cul-de-sac and eyebrow.~~
 - ~~c) Standard Proctor tests are required for each existing soil type.~~
 - ~~df) Pulverization Gradation tests are required at a minimum of every 300 feet (measured longitudinally along the roadway) with three tests required in each cul-de-sac and eyebrow.~~
 - ~~e) Core or probe tests are required to show thickness of the lime treated subgrade every 500 feet (measured longitudinally along the roadway) with one test required in each cul-de-sac and eyebrow.~~
- b. Flexible Base
 - 1) Wet Ball Mill, Sieve Analysis, and P.I. tests shall be performed in accordance with the appropriate TxDOT Test Procedures Standards.
 - 2) In-place Density tests are required for each lift at a minimum of every 300 feet (measured longitudinally along the roadway) with three tests required in each cul-de-sac and eyebrow.
 - 3) Core or Probe tests are required to show thickness of the base every 500 feet (measured longitudinally along the roadway) with three tests required in each cul-de-sac and eyebrow.
- c. Hot Mix Asphaltic Concrete (HMAC)
 - 1) A mix design is required to be submitted for the HMAC in accordance with the appropriate TxDOT Specification.
 - 2) Density tests are required at a minimum of every 500 feet (measured longitudinally along the roadway) with three tests required in each cul-de-sac and eyebrow in accordance with the appropriate TxDOT Test Procedure.
 - 3) Core tests are required to show thickness of the HMAC every 500 feet (measured longitudinally along the roadway) with three tests required in each cul-de-sac and eyebrow.
- d. Portland Cement Concrete
 - 1) A mix design is required to be submitted for the concrete.
 - 2) Concrete shall be tested for slump, air content, and compression strength in accordance with ACI 318.
- e. Storm Drain
 - 1) The compaction of backfill shall meet or exceed the requirements of the applicable details.
 - 2) All storm drain conduits shall be inspected prior to acceptance by the City. All conduits forty-two inch (42") or less shall be inspected using television inspection. Conduits larger than forty-two inch (42") may be inspected visually.

- 3) A City representative shall be present during the television inspection.
- 4) Televised Inspection Criteria
 - a) All television equipment used shall have a minimum of two-hundred-twenty (220) lines of horizontal resolution. The picture shall be in color.
 - b) All video information on DVD must have good picture quality.
 - c) As a title heading on the tape and during the televising, the operator must:
 - i. Note the project name and Contractor name.
 - ii. Note the name of the company and the operator performing the video inspection.
 - iii. Note line size and material, joint type and length.
 - iv. Line segment to be televised including beginning and ending station numbers.
 - v. Note page of plans used and year plans were stamped.
 - vi. Note date and time of inspection.
 - vii. A footage counter must be displayed on the DVD during the filming.
 - viii. Show the above title block before and after each line segment. Show the title block at one-hundred (100') foot intervals while filming the line segment.
 - ix. All defects should be shown on film for a minimum of 10 seconds before proceeding with the televising.
 - d) The Contractor shall supply a log sheet used in conjunction with the video tape for written documentation. All written information gathered must be legible and clearly understandable.
 - i. Note the project name, Contractor name and contract number.
 - ii. Note the name of the company and the operator performing the video inspection.
 - iii. Note pipe size and material, joint type and length between joints.
 - iv. Note the DVD footage counter, start to end.
 - v. Note line segment to be televised, station numbers from and station numbers to length of line segment as indicated on plans.
 - vi. Note page of plans used and year plans were stamped.
 - vii. Note date and time of inspection.
 - viii. Indicate by sketch the line segment to be televised in relation to surrounding street intersections and street addresses. Identify manhole station numbers. Show direction of flow with arrows and direction the camera is going. Indicate direction of north on the sketch.
 - ix. Note the water depth at the beginning, every fifty (50') foot station, every change in grade, and at the end of the line segment.
 - x. Identify the clock location, direction, size and type of laterals entering main. Indicate laterals as saddles, punched, or glued fittings.
 - xi. Indicate final footage televised at end of the log sheet.
 - e) One DVD per visual televised inspection project shall be furnished to the Project Inspector.
 - f) Recording must be done on DVD discs.

- g) All DVD's and run sheets shall be submitted to the City. All tapes and log sheets shall become the property of the City.
- f. Water and Wastewater
 - All water and wastewater testing shall comply with the City of Austin specifications for testing.

SECTION 4 SPECIFICATIONS

All referenced specifications shall be implied to mean the latest version of specifications from each mentioned entity. The referenced specifications shall include all amendments thereto, and shall govern and constitute the technical specifications, except as amended by this Manual and is made a part thereof, but is not physically bound within this document.

1. TXDOT SPECIFICATIONS

All applicable public improvements other than those specifically listed in this Manual shall be designed in accordance with the ~~most~~ current edition of ~~the~~ Texas Department of Transportation's ~~Highway Design Division Operations and Procedures Manual~~ Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges.

2. TEXAS ARCHITECTURAL BARRIERS ACT

All accessibility design and construction shall comply with the Texas Accessibility Standards in compliance with the Texas Architectural Barriers Act.

3. TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES

All traffic control devices shall conform to the latest edition of the *Texas Manual of Uniform Traffic Control Devices* (TMUTCD), and Standard Highway Sign Designs for Texas (SHSD), including revisions.

4. CITY OF AUSTIN

The following specification from the City of Austin, TX Standard Specifications Manual ~~Standard Specifications~~ are incorporated into this Manual:

SECTION 500 Pipe and Appurtenances

5. CITY OF TAYLOR FIRE CODE SPECIFICATIONS

All designs, including fire hydrant spacing and location, fire lanes, and turning radii shall conform to the City of Taylor Fire Department requirements

SECTION 5 TRANSPORTATION DESIGN CRITERIA

5.1 TRAFFIC IMPACT STUDIES

There are two categories of Traffic Impact Studies:

- Level I - Trip Generation and Distribution Study
- Level II - Traffic Impact Analysis (TIA)

Level I Studies are required for all projects that generate at least 50 vehicular trips within the peak a.m. or p.m. periods. A project that generates less than 50 peak-hour trips may still be subject to a Level I Study if there are specific capacity or safety issues that need to be addressed, in the opinion of the City Engineer.

Level II Studies (TIA) are required for all projects that generate at least 100 vehicular trips within the peak a.m. or p.m. periods. A project that generates less than 100 peak-hour trips may still be subject to a Level II Study if there are existing traffic problems, poor roadway alignment, capacity deficiencies, level of service issues, or expected adverse impacts from the proposed development in the opinion of the City Engineer.

5.2 RIGHT-OF-WAY WIDTHS

The right-of-way widths shall be designed for the intended use and anticipated traffic volume at optimum development of the area served. Additional right-of-way may be required at street intersections and to provide for left and right turn lanes at high-volume intersections. The following table shall be used as a guide in determining right-of-way widths.

Table 5.2.1: Master Thoroughfare Plan - Right-of-Way and Pavement Standards				
Street Classification	R.O.W. Width (feet)	Lane Width (feet)	Total Pavement Width (face to face feet)	Number of Lanes
Local (1)	50	15	30	2
Collector	70	12	40	2
Minor Arterial	80	12	48	4 undivided
Major Arterial 100'	100	12	74	4 divided
Major Arterial 120'	120	12	88	6 divided

- (1) A local street having a total length in excess of one thousand two hundred (1,200) feet or serving more than thirty (30) dwelling units may be required to provide a right-of-way width of not less than sixty (60) feet.

5.3 DESIGN SPEED AND MAXIMUM GRADE

All streets shall be designed to conform to the following parameters:

Table 5.3.1: Design Speeds and Maximum Grades				
Street Classification	Minimum Design Speed (mph)	Maximum Percent Grade (%)	Minimum Percent Grade (%)	Area Free from Storm Water, Using a 100-year Frequency Storm

Local	30	8	0.5	-
Collector	30	6	0.5	One lane or center 12'
Arterial	40	4	0.5	One lane in each direction

5.4 DRIVEWAY SPACING AND DESIGN STANDARDS

The criteria contained in the following table shall be the minimum and/or maximum standards to be applied in spacing and designing driveways on public streets. The City Engineer may modify these standards based on anticipated traffic flow and in accordance with sound traffic engineering practices.

Table 5.4.1: Driveway Spacing and Design Criteria					
Description	Street Classification	Residential Driveway		Commercial	
		Min.	Max.	Min.	Max.
Driveway Throat Width	Local	11'	25'	25'	35'
	Minor Coll.	12'	25'	25'	35'
	Major Coll.	12'	25'	25'	35'
	Arterial	12'	25'	25'	35'
Driveway Curb Radius	Local	5'	10'	10'	20'
	Minor Coll.	5'	10'	10'	20'
	Major Coll.	10'	10'	10'	20'
	Arterial	15'	15'	20'	30'
Driveway Spacing (centerline)	Local	22'	22'	100'	100'
	Minor Coll.	32'	32'	100'	100'

	Major Coll.	80'	80'	150'	150'
	Arterial	100'	100'	250'	250'
Minimum Distance from Driveway to Intersection	Local	30'	30'	75'	75'
	Minor Coll.	50'	50'	100'	100'
	Major Coll.	100'	100'	150'	150'
	Arterial	100'	100'	180'	180'

5.5 ALLEYS

1. Alleys serving single family residential and duplex areas shall have a minimum right-of-way width of 20 feet.
2. Alley turnouts shall be paved to the property line and shall be 12 feet wide at that point.
3. Alleys shall be paved in accordance with these Design criteria for a minimum width of 12 feet exclusive of any curbs which may be provided.
4. A uniform transition in alley pavement widths shall be made in a distance of not less than 20 feet.
5. Alleys shall intersect roads at right angles or radially to curved roads.
6. The minimum distance between an alley/road intersection and a road/road intersection shall be the width of at least one (1) lot.
7. ~~Private alleys are prohibited.~~
8. Maximum alley length between access points to a road shall be six hundred (600) feet.
9. A length greater than six hundred (600) feet may be approved by the City Engineer in the form of a variance pending unusual conditions or limiting factors.
10. In general, alley length shall not exceed one thousand three hundred twenty (1,320) feet between road access points.
11. Dead-end alleys ~~are prohibited~~ shall be considered on a case-by-case basis.
12. In cases where two alleys intersect or turn a sharp angle, lot corners shall be platted so that a triangular area of 25' x 25' or greater, is dedicated as part of the alley for the purpose of providing a minimum radius of 30 feet to the inside edge of the alley paving.
13. Alley paving shall conform to the [paving requirements pavement section](#) for [Local Streets](#) roads per this manual.

5.6 STREET IMPROVEMENTS

Streets shall be constructed or reconstructed using either hot-mixed asphaltic concrete ([HMAC](#)) pavement sections or reinforced Portland Cement Concrete pavement sections that meet or exceed the minimum specifications of this Manual. The developer requiring street construction

shall provide a geotechnical and pavement design report, sealed by a Licensed Professional Engineer, containing recommendations for thickness and specifications for pavement, base, and subgrade material~~thickness and content~~. The minimum subgrade and pavement thickness shall be in accordance with the specifications contained in this Section. The Design Engineer or Geotechnical Engineer shall submit a preliminary pavement design to the City for review and approval prior to finalizing the pavement design report and Contract Bidding Documents. The City has final approval authority for all pavement designs for streets in the public ROW.

The geotechnical investigation and pavement design report shall be prepared and submitted to the City for review and approval, and shall include all proposed street improvements. The investigation shall include soil borings and laboratory testing, and other investigative measures, as applicable. Soil borings shall be drilled to minimum depth of 15 feet below the proposed finished grade. The spacing of borings along proposed alignments shall be equal to or less than 500 feet and completed on alternating sides of the roadway. A minimum of 3 borings should be performed on each project regardless of alignment length. Select samples shall be tested in a laboratory to determine grain size characteristics, Atterberg limits, in-situ moisture, and other engineering properties, as deemed appropriate. Bulk samples of each subgrade soil type shall be obtained from the field and tested to determine the Texas Triaxial Classification that can be correlated to the elastic modulus of the subgrade, a required input parameter for pavement design analyses. Plasticity testing shall be conducted on each unique cohesive subgrade soil to determine the liquid limit (LL) and plastic limit (PL). Each candidate soil shall be tested for total soluble sulfate, pH, and organic content. A lime series test shall be conducted on those soils with soluble sulfate content less than 8,000 ppm and an organic content less than 2%.

The geotechnical investigation and pavement design shall use the following Test Procedures developed by the Texas Department of Transportation. Refer to the TxDOT web site for a full list of applicable test procedures related to geotechnical investigation and testing of materials related to pavement design.

Table 5.6.1: Geotechnical Test Procedures

TxDOT Test Method	Description
Tex-100-E	Surveying and Sampling Soils for Highways
Tex-103-E or ASTM D2216	Determining Moisture Content in Soil Materials
Tex-104-E or ASTM D4318	Determining Liquid Limits of Soils
Tex-105-E or ASTM D4318	Determining Plastic Limit of Soils
Tex-106-E or ASTM D4318	Calculating the Plasticity Index of Soils
Tex-107-E	Determining the Bar Linear Shrinkage of Soils
Tex-110-E or ASTM D6913	Determining Particle Size Analysis of Soils
Tex-112-E	Admixing Lime to Reduce Plasticity Index of Soils
Tex-117-E	Triaxial Compression for Disturbed Soils and Base Materials
Tex-121-E	Soil-Lime Testing
Tex-124-E	Determining Potential Vertical Rise
Tex-128-E	Determining Soil pH
Tex-145-E	Determining Sulfate Content in Soils – Colorimetric Method
Tex-146-E	Conductivity Test for Field Detection of Sulfates in Soil
ASTM D4546	Standard Test Methods for 1-D Swell or Collapse of Soils
ASTM D1883	Standard Test Method for CBR of Laboratory Compacted Soils

The geotechnical investigation data shall be compiled and summarized in the Geotechnical Data Report, which may also be incorporated into the Pavement Design Report. Whether a standalone document or included in the design report, the geotechnical content shall include the following:

1. Site Information:

- a) Description of the project and location with site location map
- b) Topographic and drainage features
- c) Discussion of geologic setting of the project area
- d) Geologic map (USGS and/or Texas Bureau of Economic Geology)
- a)e) Mapped surface soils within the project area (NRCS Web Soil Survey)

2. Field Investigation:

- a) Boring logs with results of laboratory index testing (moisture, gradation, Atterberg limits) at appropriate depths
- b) Boring location plan
- a)c) Summary of encountered soils and groundwater conditions

3. Laboratory Test Results:

- a) Laboratory test summary table and individual test reports for the following:
 - i. Index Tests (Atterberg Limits, Gradation, Moisture, Natural Density)
 - ii. Strength Tests (Unconfined Compression, CBR, Texas Triaxial, etc.)
 - iii. Moisture-density relationship tests
 - iv. Volume change (Swell)
 - v. Chemical analysis (pH, sulfate content, etc.)

4. Engineering Recommendations:

- a) Expansive characteristics of subgrade soils and estimated Potential Vertical Rises (PVRs) (TxDOT Test Method Tex-124-E)
- b) Predicted PVR and Recommendations for reducing the Effective Plasticity Index (PI_{eff}) and PVR
- c) Compatibility of subgrade soils to lime treatment and recommended lime content
- d) Recommendations for alternate subgrade stabilization/treatment (e.g., geosynthetics, moisture treatment, etc.)
- e) Characterization and mitigation of groundwater, if encountered or anticipated
- f) Requirements for cut and fill slopes to be incorporated in the design

Guidelines and requirements for lime stabilization are provided below:

- Treatment Depth. The minimum depth of lime treatment shall be 8 inches, with greater depths required depending on traffic loads and the material PI.
- Strength Increase. Significant strength increase (lime stabilization) is typically associated with treatment of lime-reactive soils, typically soil with $pH \geq 7$.
- Reduction of Plasticity. Reduction in plasticity (lime conditioning) is typically associated with treatment of non-lime-reactive soils. This typically applies to soils with $pH \leq 7$.
- Application Rate. Most fine-grained soils can generally be conditioned/ stabilized effectively with three (3) to ten (10) percent of lime addition by weight (dry weight of soil basis). The lower percent lime additions are normally identified with lime conditioning (with minimal strength increases), while the higher percent lime additions are normally necessary to achieve lime/soil mixtures with significant strength increases.
- Mix Design. Lime treatment mixture design shall be developed using one of the following procedures appropriate for the intended purpose of lime treatment:
 - Lime Conditioning Mix: TxDOT Test Method Tex-112-E, "Method of Admixing Lime to Reduce Plasticity Index of Soils".
 - Lime Stabilizing Mix: TxDOT Test Method Tex-121-E, "Soil-Lime Testing", shall be used to establish the lime content that would produce a twenty-eight (28) day unconfined compressive strength (TxDOT Test Method Tex-117-E). Minimum compressive strengths are fifty (50) psi for a lime-stabilized subgrade.
- Application Rate. The actual design application rate shall be determined by the Geotechnical Engineer or Pavement Engineer on the basis of bench-scale lime series testing conducted under their direct supervision. Typical specified rate of lime solids application shall be 5% by weight (mass) for non-lime-reactive materials (pH of 7.0 or less); or 7% by weight (mass) for lime-reactive materials (pH greater than 7.0), unless indicated otherwise in the mix design process or as directed by the City. Lime stabilization of subgrade soils shall be in slurry form unless otherwise approved by the City.

- Compressive Strength. The minimum required 7-day compressive strength of lime-treated soil is 100 psi to be considered for structural credit in pavement design.
- Sulfate Content. Soils with elevated soluble sulfate content are not suitable for lime treatment due to the risk of sulfate-induced heave. The following sulfate content guidelines shall be observed when considering lime treatment:
 - Soluble Sulfate < 3,000 ppm: Subgrade is compatible with lime treatment.
 - Soluble sulfate between 3,000 ppm and 8,000 ppm: Subgrade shall be identified as generally compatible with lime treatment, though the Pavement Engineer or Roadway Designer should consult with the City for approval to use lime treated subgrade in these cases. Refer to TxDOT's "Guidelines for Modification and Stabilization of Soils and Base for Use in Pavement Structures" and "Guidelines for Treatment of Sulfate-Rich Soils and Bases in Pavement Structures" for more information.
 - Soluble sulfate > 8,000 ppm: Subgrade shall be identified as being incompatible with lime treatment.

5.6.1 HOT-MIXED ASPHALTIC CONCRETE PAVEMENT SECTIONS

1. Local Streets

Subgrade Preparation and Proof Rolling:

➤ Density controlled subgrade: Scarify, blade, roll, and compact the subgrade to provide a uniform moisture content and density for the top 8 inches of the subgrade. Repeat grading and compaction until the specified lines, grades, and cross-sections are obtained and the materials are compacted to the specified depth and density.

Proof roll and use density control prior to placement of any embankment, borrow, or base material. Correct any unstable or spongy subgrade areas by additional re-working, drying and compaction, or by removal and replacement with approved material. Remove and replace all unsuitable material, as directed by the City with approved material.

Provide the required density and moisture control for the subgrade based on the plasticity characteristics of the approved material. Sprinkle the subgrade material and compact to the extent necessary to provide the density specified below. The City will use TxDOT Tex-114-E to determine the maximum dry density (D_a) and optimum moisture content (W_{opt}).

Meet the requirements for field density and moisture content in Table 5.6.2.

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Table 5.6.2: Field Density Control Requirements		
<u>Soil Description</u>	<u>Density, Percent</u>	<u>Moisture Content</u>
<u>Tex-115-E</u>		
<u>PI < 15</u>	<u>≥ 98% D_a* and ≤ 105% D_r</u>	<u>N/A</u>
<u>15 ≤ PI ≤ 35</u>	<u>≥ 98% D_a and ≤ 102% D_r</u>	<u>≥ W_{opt} + 3%</u>
<u>PI > 35</u>	<u>≥ 95% D_a and ≤ 100% D_r</u>	<u>≥ W_{opt} + 3%</u>

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Lime Treated Subgrade:

Eight inches (8") minimum thickness lime treated subgrade according to TxDOT Specification "Lime Treatment (Road-Mixed)". Apply lime at the recommended percentage stated in the approved pavement design report. Adjust lime application as directed by the City during construction.

Flexible Base:

Fourteen (14") minimum thickness flexible base according to TxDOT Specification for "Flexible Base". Lift thickness to be 4" to 6", and each lift compacted to 98-100% of the maximum dry density. Use Type A, Grade 5 unless otherwise shown. Extend base Fourteen (14") inches thick flexible base, Type A, Grade 2, two feet (24") inches past the back of curb line.

Surface: HMAc:

Two (2.0") inches Type "C" HMAc according to TxDOT Specification for "Dense-Graded Hot-Mix Asphalt".

Lime Stabilized subgrade may be substituted for the above mentioned subgrade and a portion of the flexbase

2. Collector Streets

Subgrade Preparation and Proof Rolling:

Density controlled subgrade: Scarify, blade, roll, and compact the subgrade to provide a uniform moisture content and density for the top 8 inches of the subgrade. Repeat grading and compaction until the specified lines, grades, and cross-sections are obtained and the materials are compacted to the specified depth and density.

Proof roll and use density control prior to placement of any embankment, borrow, or base material. Correct any unstable or spongy subgrade areas by additional reworking, drying and compaction, or by removal and replacement with approved material. Remove and replace all unsuitable material, as directed by the City with approved material.

Provide the required density and moisture control for the subgrade based on the plasticity characteristics of the approved material. Sprinkle the subgrade material and compact to the extent necessary to provide the density specified below. The

City will use TxDOT Tex-114-E to determine the maximum dry density (D_a) and optimum moisture content (W_{opt}).

Meet the requirements for field density and moisture content in Table 5.6.3.

Table 5.6.3: Field Density Control Requirements		
Soil Description	Density, Percent	Moisture Content
Tex-115-E		
PI < 15	$\geq 98\% D_a^*$ and $\leq 105\%$	N/A
$15 \leq PI \leq 35$	$\geq 98\% D_a$ and $\leq 102\%$	$\geq W_{opt} + 3\%$
PI > 35	$\geq 95\% D_a$ and $\leq 100\%$	$\geq W_{opt} + 3\%$

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Lime Treated Subgrade:

Eight inches (8") minimum thickness lime treated subgrade according to TxDOT Specification "Lime Treatment (Road-Mixed). Apply lime at the recommended percentage stated in the approved pavement design report. Adjust lime application as directed by the City during construction.

Flexible Base:

Eighteen (18") minimum thickness flexible base according to TxDOT Specification for "Flexible Base". Lift thickness to be 4" to 6", and each lift compacted to 98% of the maximum dry density. Use Type A, Grade 5 unless otherwise shown. Extend base two feet (24") inches past the back of curb line.

SurfaceHMAC:

Three (3.0") inches Type "C" HMAC according to TxDOT Specification for "Dense-Graded Hot-Mix Asphalt".

Density-controlled-subgrade

Eighteen (18") inches thick flexible base, Type A, Grade 2, (24") inches past the back of curb line.

Two and one-half (2.5") inches Type "C"

Lime Stabilized subgrade may be substituted for the above mentioned subgrade and a portion of the flexbase

5.6.2 CONCRETE PAVEMENT SECTIONS

1. Local Streets

- ~~Density~~ Eight (8.0") inches Lime Treated ~~controlled~~ Subgrade

- Six (6.0") inches thick flexible base, Type A, Grade 2, (24") inches past the back of curb line
- Six (6.0") inches of Class A concrete
- #4 rebar on 18" O.C.E.W.

~~▲ Lime Stabilized subgrade may be substituted for the above mentioned subgrade and a portion of the flexbase~~

2. Collector Streets

- ~~Density-Eight (8.0") inches Limecontrolled Treated s~~Subgrade
- Eight (8.0") inches thick flexible base, Type A, Grade 2, (24") inches past the back of curb line
- Seven (7.0") inches of Class A concrete
- #4 rebar on 18" O.C.E.W.

~~▲ Lime Stabilized subgrade may be substituted for the above mentioned subgrade and a portion of the flexbase~~

5.6.3 CURB AND GUTTER SPECIFICATIONS

All streets shall be provided with reinforced Portland Cement Concrete curbs and gutters in accordance with the following specifications.

1. Curbs and gutters bases shall not be less than twenty-four (24") inches wide and provide a minimum gutter width of eighteen (18") inches.
2. Reinforcement shall be provided by three (3) No. 4 steel reinforcing bars by placing one (1) bar in the curb roll and two (2) bars in the curb and gutter base. Use manufactured chairs for concrete placement.
3. Concrete for curbs and gutters shall be Class "A" and consist of five (5) sacks (minimum) of Portland Cement for each cubic yard of concrete mix and have a seven (7) day flexural strength of five hundred pounds per square inch (500 PSI) and a twenty-eight (28) day compressive strength of three thousand pounds per square inch (3,000 PSI).
4. All driveway entrances constructed in existing curb and gutters shall be saw-cut at the curb return on both sides of the driveway and eighteen (18") inches into the street. After work is completed, the street sidewalk shall be repaired and it shall be the responsibility of the party installing the driveway. All driveways cut into existing curb and gutter areas shall utilize the horizontal curb cutting method, leaving the original gutter in place. Smooth dowels shall be installed into the back of the existing curb.
5. Control joint every 10', expansion joint every 50' or as approved.

5.6.4 STREET DRAINAGE

The following drainage conditions shall be observed:

1. All roads shall be a crowned or roof top section so as to provide proper drainage.

2. All plats shall depict the flow of drainage with arrows sufficient to show predicted path.
3. An explanation and depiction shall be attached to show outflow and inflow availability on high flow areas. Adjoining property where inflow originates or outflow exists must be attached to ensure compliance with drainage or excessive run-off factors.
4. No plat shall be considered for approval unless accompanied by a complete set of construction drawings that show the drainage areas and flow calculations.
5. The contractor/developer will assume all responsibility to disperse excess run-off so as not to exceed previous disbursements to the satisfaction of the city.

5.6.5 STREET CONSTRUCTION

- A. No work whatsoever will be initiated without the issuance of an Authorization of Construction letter;
- B. The street portion of the plat must be reviewed and approved by Fire Chief, Police Chief and City Engineer;
- C. An Authorization of Construction letter must be obtained from the City before any construction is initiated.

5.6.6 CONCRETE PIPE

All concrete pipe used for drainage purpose on City streets shall be reinforced.

5.6.7 SUBGRADE

Subgrade shall extend ten (10') feet, if feasible, beyond the completed street when a future street is proposed to be built to assure proper conformity.

5.7 STREET SIGNS

5.7.1 LOCATION

Street signs shall be six (6") inches extruded, have white lettering on a green background, be engineer grade reflectorized, and include the block numbers along with the street name. Street signs shall be furnished and installed by the subdivider for all intersections within or abutting the subdivision. All signs shall be located in accordance with the Texas Manual on Uniform Traffic Control Devices.

5.7.2 SIGNS

All signs and mounts shall conform to the standards as set forth in the Texas Manual on Uniform Traffic Control Devices. All road identification signs are to have a green background with three (3) inch white reflective lettering.

5.7.3 INSTALLATION

The sign pole shall be buried to a minimum depth of two (2') feet and placed in a twelve (12") inch diameter concrete filled posthole. The pole shall be tall enough to accommodate all applicable signs. The bottom of the stop sign shall be located seven (7') feet above the finished grade of the surrounding ground.

5.7.4 APPROVAL

The developer shall submit a list of signs to be placed and a graphical representation of the signs for review by City Engineer prior to installation.

5.8 SIDEWALKS

5.8.1 SIDEWALK SPECIFICATIONS

1. Right-of-Way Permit Required - No person shall construct, reconstruct, alter, repair, remove or replace any sidewalk on any public property within the City Limits without first obtaining a permit from the building permit office.
2. Inspection Required - All work done in construction, reconstruction, alteration, repair, or removal or replacement of sidewalks shall be inspected by the city inspector to assure compliance with these regulations. When other public improvements are required, final acceptance of all other improvements shall not be made until sidewalks are approved.
3. Minimum Sidewalk Width - All sidewalks shall be a minimum of four (4') feet in width, except a sidewalk located within or abutting a collector street, or larger, as shown on the Thoroughfare Plan, shall not be less than five (5) feet in width. All sidewalks shall be constructed in the area between the curb or grade line of the public street and the abutting property line. The edge of the sidewalk shall generally be parallel with the curb line. The City Engineer may approve a plan to alter the location of a sidewalk to preserve a tree or for aesthetic purposes. One additional foot of width shall be added to a sidewalk that abuts a street curb.
4. Construction Materials - Sidewalks shall be constructed of Portland cement concrete (minimum thickness four (4") inches). Trail system sidewalks shall be a minimum thickness of five (5") inches. Concrete for sidewalks shall be Class "A" and consist of five (5) sacks (minimum) of Portland cement for each cubic yard of concrete mix and have a seven (7) day flexural strength of 500 pounds per square inch (500 PSI) and twenty-eight (28) day compressive strength of 3,000 pounds per square inch (3,000 PSI). Reinforcement shall be in accordance with the construction detail contained herein.
5. Architectural Barriers Act - All sidewalk/street intersections shall be constructed so as to provide a ramp that complies with the Architectural Barriers Act. Barrier free ramps shall be provided for access to the street. Additional information on curb ramp location, design, visibility and texture may be found in the current edition of the Texas Accessibility Standards (TAS) prepared and administered by the Texas Department of Licensing and Regulation (TDLR).

5.9 STREET LIGHTING

5.9.1 GENERAL REQUIREMENTS

- A. Street lights shall be installed at all intersections, at the end of all cul-de-sac streets, and at additional locations in accordance with the following table:

Table 5.9.1: Street Lighting Requirements
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Required Spacing	Pole Type	Lamp Type	Height
At intervals of not more than three hundred (300) feet	Metal	100 watt high pressure	30 feet

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- B. The number of required street lights shall be equal to the total linear footage between street intersections divided by the required spacing. Fractions of street lights shall be rounded to the next whole number.
- C. Street lights shall be placed at approximately equal intervals between intersections and shall be subject to the approval of the City Engineer.
- D. Cobra head lamps shall be provided on standard street lighting fixtures, except that other lamp types may be permitted where custom lighting is approved by the City Engineer.

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5.9.2 CUSTOM LIGHTING

- A. The subdivider may elect to provide custom lighting in lieu of the required standard street lighting, subject to the approval of the city engineer.
- B. If a subdivider elects to provide and install custom lighting, a homeowner's association (or some other such private entity) shall be created which will be perpetually liable for all costs associated with the maintenance of the lighting fixtures. The homeowner's association shall also be liable for the electrical energy costs of the custom lighting.

SECTION 6 WATER SYSTEM DESIGN CRITERIA

6.1 GENERAL

This section pertains to general design requirements for water distribution system construction in the City of Taylor. All water lines shall be sized and designed in accordance with the City of Taylor determined by the City Engineer. In the absence of specific standards, all water supply, distribution, pumping, and storage improvements shall be designed in accordance with the most current standards of the American Water Works Association criteria adopted by the Texas Administrative Code, Chapter 290.

6.2 LINE SIZES & LOCATIONS

1. Standard water line sizes are, 8 inch, 10 inch, 12 inch, 16 inch, 20 inch, and 24 inch diameter. Other sizes may be approved by the City Engineer.
2. All water lines shall be looped where possible. Dead end lines shall not exceed 600 feet, unless approved by the City Engineer.
3. Water lines shall be located within the right-of-way, not under paving. Along State Highways, water lines are required on both sides of the roadway. New water lines crossing existing streets shall be placed by boring. A steel casing shall be required under major and minor collector roadways, arterial roadways and State Highway. Open cut excavation will not be allowed to cross existing streets, unless approved by the City Engineer.

4. Automatic flushing valves are required for all dead-end mains of 50' or longer.
5. Easements for water line construction shall meet the following requirements:
 - a. The easement width shall be a minimum of 20 feet.
 - b. In areas where multiple utilities or extended depth or larger utilities exist the easement may need to be wider as specified by the City.
 - c. Larger easements may be required by the City Engineer to provide adequate space for maintenance.
6. All piping with mechanical couplings, push-on, or similar joints subject to internal pressure shall be designed with blocking, anchors, and restraining harnesses to preclude separation of joints.
7. Water lines exclusively for fire protection shall be dedicated to the public, unless the system is isolated from the public system by a detector check. All water lines shall be a minimum of eight (8") inches in diameter and looped when possible. Water lines shall not be located under paved surfaces where possible.
8. Water service for multiple units on a single lot shall be served via one Master Meter. The developer is responsible for providing and metering service to individual units.

6.3 MATERIALS

All water lines and fittings shall be new materials and comply with the following:

1. Water Lines - All water lines shall be Polyvinyl Chloride (PVC) material and be designed, manufactured, and tested in accordance with the applicable requirements of AWWA C-900 (eight (8") inch through twelve (12") inch water pipe) AWWA C-905 (sixteen (16") inches and larger water pipe), and AWWA M-23. Pipe larger than 16" shall be Ductile Iron.
2. Other Pipe Material - All other materials must be submitted for approval by the City Engineer.
 - a. All PVC water pipe shall be blue in color.
 - b. Eight (8") inch through twelve (12") inch water pipe shall be pressure class 150, DR 18. Pressure class 200, DR 14 pipe may be required by the City Engineer in areas of high distribution system pressure, under roadways or other unusual circumstances.
3. Fittings - Fittings shall be ductile iron in accordance with AWWA C110 or AWWA C153.
 - a. Fittings: ANSI/AWWA C111/A21.11, except gaskets shall be neoprene or other synthetic rubber and factory installed.
 - b. All waterline pipe and fittings shall be new materials and produced in the USA.

6.4 INSTALLATION

All installations shall conform to the latest TCEQ, and AWWA Specifications, as amended by these standards.

1. All pipe shall be installed with a minimum of forty-eight (48") inches of cover over top of pipe.
2. The amount of open trench shall not exceed two hundred (200') feet from the end of the pipe laying operations, and no more than three hundred (300') feet of total open trench will be allowed. At the end of each work day, all trench excavation shall be backfilled and compacted to the end of the pipe laying operation.
3. All connections to existing water mains shall be made under pressure unless dry connections will not cause any loss of service. Under special conditions connections that cause an interruption of service may be performed with approval of the City Engineer.
4. Coated tracer wire and tape shall be installed in the embedment material twelve (12") inches above the pipe with the tracer wire terminating in in-line gate valve boxes accessible by City Staff.

5. Density tests shall be taken at a minimum of every three hundred (300') feet for every lift or determined by inspection. A maximum thickness of lift is required for all trench backfill. A geotechnical report should be submitted for all trenches. The density reports shall be submitted to the City Inspector. The City has the right to require additional tests if they are deemed necessary.
6. All density reports and bacteria test reports shall be completed, delivered to the City Engineer and Inspector, and approved before paving is allowed to begin. Bacteria test samples shall be taken by the City.
7. PVC water pipe and appurtenances shall be installed as specified in AWWA M-23 and in accordance with the pipe manufacturer's recommendations.
8. Fittings shall be installed in accordance with AWWA C-600.
 - a. All mechanical joint bends, tees, and reducers which require blocking shall be additionally restrained with EBAA Megalug retainer gland or approved equal.
 - b. All fittings must be polyethylene wrapped.

6.5 FIRE HYDRANTS

1. Fire hydrants in commercial and industrial areas shall generally be at street intersections and so located that there will be a fire hydrant every three hundred (300') feet. Fire hydrants in a residential area shall be generally located on street intersections and not over five hundred (500') feet apart. City Fire Chief shall approve final fire hydrant locations.
2. Materials
 - a. Fire hydrants shall be manufactured in accordance with AWWA C-502, Dry-Barrel Fire Hydrants.
 - b. Hydrants shall be manufactured such that all maintenance and adjustments can be performed without excavation and such that hydrants may be faced in any direction in relation to base. The hydrant shall be of a design that will permit extensions without disturbing the bottom section of the hydrant.
 - c. A gate valve shall be installed with each fire hydrant.
3. Manufacturers

Approved fire hydrants manufacturers are as follows:

 - a. Clow Medalion
 - b. Mueller Centurion
 - c. Kennedy K81D
 - d. American Darling - B84B
4. Locations

Fire hydrants are to be located a minimum of three (3') feet and a maximum of six (6') feet behind the back of curb.

6.6 VALVES

1. Resilient seated gate valves shall be used for six (6") inch and up to twenty-four (24") inch water lines. Butterfly valves may be allowed as an addition to gate valves for lines sixteen (16") inches and larger when approved by the City Engineer.
2. Valves of approved design shall be installed at the intersections of all water mains so as to provide for proper maintenance and operation of the system and to provide a means of shutting off the

supply to portions of the system for repairs. Three (3) valves shall be used on a four-way water line intersection and a minimum of two (2) valves shall be used on a three-way intersection.

3. Materials

a. Resilient Seated Gate Valves

- 1) Resilient seated gate valves six (6") inches through sixteen (16") inches shall meet or exceed the latest revisions of AWWA C509 and shall meet or exceed the requirements of these standards.
- 2) Resilient seated gate valves for buried service shall be furnished with a square two (2") inch operating nut. The valve box shall be Tyler Pipe 6850 series or approved equal. The valve box lid shall be painted safety blue. The paint shall be approved via submittal to the City.
- 3) All valves must open left and close right.

b. Butterfly Valves

Butterfly valves shall meet or exceed the latest revision of AWWA Standard C504 for Class 150B butterfly valves and shall meet or exceed the requirements of this specification. All valve components shall conform to Underwriters Laboratories classification in accordance with ANSI/NSF Standard 61.

4. Installation

- a. Valves shall be furnished with extensions, such that the working nut is a maximum of thirty-six (36") inches below grade.
- b. Adjustable valve boxes shall be furnished and set on each valve in accordance with these standards. Valves that are deeper than forty-eight (48") inches, AWWA C900 PVC pipe shall be used for stacks, as long as the adjustable valve box is used at the top.
- c. After the final clean-up and alignment has been complete, the contractor shall cast in place a concrete block, around all valve box tops at the finish grade. See detail W-3.
- d. Valves located within a right-of-way shall be indicated on the face of the curb, or where curbs do not exist, on a conspicuous location adjacent to the valve location. Markings are to be the stamping of a four (4") inch high letter "V" with a three-eighths (3/8") inch stroke with the point of the "V" pointing towards the valve location.
- e. Valve markers shall be provided in rural areas.

5. Manufacturers

- a. Approved manufacturers of six (6") inch through twelve (12") inch resilient seated gate valves are as follows:
Mueller, Clow, American Darling and Kennedy
- b. Approved manufacturers of sixteen (16") inch and larger butterfly valves are as follows:
Mueller, Clow, American Darling and Kennedy

6.7 AIR RELEASE AND FLUSHING VALVES

- A. Adequate air relief, and flushing valves shall be provided for flushing, disinfecting, daily operation requirements, and repairs when required by the City Engineer. Air release valves shall be required on twelve (12") inches and larger water lines. Water lines shall be designed so that each section of the water line can be flushed at its lowest and highest points.
- B. All dead end lines shall have a fire hydrant installed for flushing purposes. If installation of a fire hydrant is not possible, a flushing valve is required.

- C. A fire hydrant shall be required at high points on water lines smaller than twelve (12") inches for air relief and flushing.
- D. Materials Air release valves and air/vacuum valves shall meet or exceed the latest revision of AWWA C512.
- E. Automatic Flushing Valves shall be installed on all dead-end mains of 2" or larger that extend 150 linear feet or longer. Approved Manufacturer: Hydro Guard Standard Unit.

6.8 TAPPING SLEEVE

A tapping sleeve and valve shall be used when connecting a new water line to an existing line. A resilient seated gate valve shall be flanged to the tapping sleeve. The tapping sleeve shall be a Smith-Blair Spec. 664-665 stainless steel tapping sleeve, or approved equal.

6.9 WATER SERVICE

1. The water meter box shall be placed a minimum of two (2') feet behind the back of curb unless sidewalks are adjacent to the curb, then they are to be set seven (7') feet behind the back of curb, and the water service shall be a minimum of twelve (12") inches deep, covered with a meter box in place at grade. If no curb is present, the water service shall be located at the property line, a minimum of twelve (12") inches deep, covered with a meter box in place at grade. Along roadways without a curb the water service line shall be constructed at a minimum of twelve (12") inches below the ditch flow line.
2. Meter and service sizes will be determined by the developer prior to requesting service from the City. The minimum water service size between the water main and the meter shall be one (1") inch.
3. Water services on undeveloped lots shall be located at the property line and shall be a minimum of one (1") inch in diameter.
4. Materials
 - a. Service Saddle

Service saddle shall be double strap bronze with brass body or nylon / epoxy coated stainless steel double bolt wide straps. Minimum size tap shall be 1 inch diameter.

Approved manufacturers:

 - 1) Smith Blair - Tapping Saddles up to 2" shall be epoxy coated with stainless steel straps.
 - 2) Tapping Sleeve 4" and larger shall be epoxy coated steel or ductile iron.
 - b. Service Line

Service lines shall be 1" (single services) to 1.5" (double services) polyethylene SDR9.
 - c. Corporation.
 - 1) Corporation stop shall be ball type with a diameter equal to the pipe size with compression outlet fitting, designed for a minimum working pressure of two hundred pounds per square inch (200 psi) and threaded counter clockwise.
 - 2) Approved manufacturers are Ford or Mueller.
 - d. Angle Stop
 - 1) Angle stop shall be set with compression inlet fitting and locking wings.
 - 2) Approved manufacturers are Ford, Mueller or Smith Blair.
 - e. Meter Boxes

- 1) Single Meter boxes are to be DFW 1200 Series with AMR lid.
 - 2) Double Meter boxes are to be DFW 1500 Series with AMR lid.
 - 3) Traffic Rated Meter boxes shall be DFC "C" Series.
5. Installation
- a. General
 - 1) All water service shall be installed in accordance with these standards.
 - 2) Each individual service location shall be saw cut into the face of the curb with a four (4") inch high "W" painted blue by the Contractor. If no curb exist a similar mark should be placed in the pavement near the edge of the roadway.

6.10 FLUSHING VALVES

1. Materials
 - a. Corporation stop shall be two (2") inch ball type with compression outlet fitting, designed for a minimum working pressure of two hundred pounds per square inch (200").
 - b. Two (2") inch curb stop shall be ball type with compression inlet fitting with tee head shut off.
 - c. Pipe shall be two (2") inches diameter, polyethylene.
 - d. All flushing valves shall be installed within a twenty-four (24") inch round metal meter box.

6.11 WATER LINE BORE

1. Minimum steel casing thickness shall be a quarter (1/4") inch. Casings shall be required under collectors and thoroughfares, highway crossings, and railroad crossings. Casings shall also be required where deemed necessary by the City Engineer. The construction bore pit shall be located at a minimum distance of four (4') feet behind the back of curb or edge of pavement where no curb is present.
2. The design engineer shall design the water line pipe casing for the following loading conditions and applicable combinations thereof:
 - a. AASHTO HS20 loading as applicable
 - b. Earth loading with the height of fill above the casing as shown on the plans
 - c. Loads applied during jacking, including axial load from jacking
 - d. All other applicable loading conditions, including loads applied during transportation and handling.
3. Materials
 - a. Steel Casing Pipe

Steel casing pipe shall be new (or used if approved by the City Engineer) and suitable for the purpose intended and shall have a minimum yield strength of 35,000 psi. Casing shall meet ASTM A-36, ASTM A-570, ASTM A-135, ASTM A-139, or approved equal. Pipe shall be coated with coal tar epoxy (15 mils min.) in accordance with AWWA C-210. Pipe joints shall be welded in accordance with AWWA C-206. After pipe is welded, coating shall be repaired.
 - b. Casing Spacers

Use stainless steel casing spacers for any type of carrier pipe. Insulators shall be high density polyethylene. Insulators shall fit snug over the carrier pipe and position the carrier pipe approximately in the center of the casing pipe to provide adequate clearance between

the carrier pipe bell and the casing pipe. Insulators shall be manufactured by "Recon" and be Racci Type or approved equal.

4. Installation

a. Excavation and Backfill of Access Pits

- 1) Do not allow excavation over the limits of the bore or tunnel as specified. Shore the trench walls as necessary to protect workmen, the public, structures, roadways, and other improvements.
- 2) Excavations within the right-of-way and not under surfacing shall be backfilled and consolidated by mechanical methods as specified in these standards for compaction of trenches under roadways. Surplus material shall be removed from the right-of-way and the excavation finished to original grades. Backfill pits immediately after the installation of the carrier pipe is completed. If carrier pipe is not installed immediately after casing pipe installation, the City may require the access pits be temporarily backfilled until installation of carrier pipe.
- 3) Where seeding or sodding is disturbed by excavation or backfilling operations, such areas shall be restored to the existing or better conditions.

SECTION 7 WASTEWATER DESIGN CRITERIA

7.1 GENERAL

This section pertains to general design requirements for waste water collection system construction in the City of Taylor. All sewer lines shall be sized and as determined by the City Engineer. In the absence of or in conflict with a specific standard contained in this Chapter, all collection, treatment, and disposal systems shall be designed in accordance with the most current criteria adopted by the Texas Administrative Code, Chapter 217, "Design Criteria for Domestic Wastewater Systems".

7.2 WASTEWATER MAIN SIZES AND DESIGN

1. Standard wastewater main sizes are eight (8") inches, ten (10') inches, twelve (12") inches, fifteen (15") inches, and eighteen (18") inches in diameter. Other sizes may be approved by the City Engineer.
2. Wastewater lines shall be constructed at a minimum depth of four (4') feet and be located within the R.O.W. or an approved utility easement. A wastewater line is required to be constructed on both sides of a State Highway.
3. Easements for wastewater line construction shall meet the following requirements:
 - a. The easement width shall be a minimum of twenty (20'). Greater easement width may be required for deep lines.
 - b. If the wastewater line is less than twelve (12') feet deep, the outside diameter of the wastewater line shall be located a minimum distance of six (6') feet from the edge of the easement, and if other utilities are located in the same easement, the outside diameter of the wastewater line shall be located a minimum distance of three (3') feet from the outside diameter of the other utilities.
 - c. If the wastewater line is greater than twelve (12') feet deep, the outside diameter of the wastewater line shall be located a minimum distance of nine (9') feet from the edge of the easement, and if other utilities are located in the same easement, the outside diameter of the wastewater line shall be located a minimum distance of six (6') feet from the outside diameter of the other utilities.
 - d. Proper separation of utilities must be maintained per TCEQ regulations.

4. All wastewater mains shall be designed with consideration for serving the full drainage area subject to collection by the wastewater in question; the drainage area may be modified with the concurrence of the City Engineer because of the projected rate of development or the financial feasibility of the proposed extension.
5. Wastewater mains should be designed with straight alignment whenever possible. When horizontal curvatures must be used, radial pipe must be used in accordance with the pipe manufacturer's recommendations. No joint deflection is allowed without the approval of the City Engineer and an appropriate TCEQ variance.
6. All wastewater mains shall be designed with hydraulic slopes sufficient to give mean velocities, when flowing full or half full, of no less than two (2') feet per second.

7.3 WASTEWATER LINE MATERIALS

All wastewater lines and fittings shall be new materials and comply with the following:

1. All wastewater pipes shall be Polyvinyl Chloride (PVC) pipe type SDR-26 for wastewater lines where wastewater lines exceed. For depths greater than twenty-four (24') feet material must approved by City Engineer.
2. All PVC wastewater pipe shall be green in color. Developer to provide a manufacturers statement for pipe color other than green.
3. PVC sewer pipe and fittings shall conform to the current ASTM Designation D 3034 for up to eighteen 18" inches and ASTM Designation F 679 for greater than fifteen (15") inches.

7.4 WASTEWATER LINE INSTALLATION

1. General
 - a. All installations shall conform to ASTM Designation D2321, and the as amended by these standards.
 - b. Wastewater lines shall not be installed within nine (9') feet horizontally of any water main or fire hydrant. Where this is not possible, separation shall be in accordance with TCEQ standards.
 - c. Construction shall begin at the downstream end of project and continue upstream with the bell facing upstream. No upstream piping shall be installed before downstream piping unless approved by the City Engineer.
2. Excavation and Backfill
 - a. The amount of open trench excavation shall not exceed two hundred (200') feet from the end of the pipe laying operations, and no more than three hundred (300') feet of total open trench will be allowed. At the end of each workday, all trench excavation shall be backfilled to the end of the pipe laying operation.
 - b. Density tests shall be taken every three hundred (300') feet for every lift. A maximum thickness of twelve (12") inches per loose lift is required for all trench backfill. A geotechnical report shall be submitted for all trenches. The density reports shall be submitted daily to the City Inspector. The City has the right to require additional tests if they are deemed necessary.
 - c. A City inspector will be on site at all times when testing is being performed. The City Inspector shall be present during the placement of trench backfill lifts.
 - d. All density reports shall be completed, delivered to the City's Engineer and Inspector, and approved before paving is allowed to begin.

7.5 MANHOLES

1. Manholes shall be located at all intersections of wastewater lines and at intermediate spacing along the line. Generally the maximum spacing should not exceed five hundred (500') feet.

Manholes should be located at all changes in grade and at the ends of all wastewater lines that will be extended.

2. A manhole is required at the junction of wastewater lines with different inside pipe diameters.
3. A drop of at least one tenth of a foot (0.1') is required through the manhole.
4. A drop manhole is required when the flow line in is two (2') feet or greater than the flow line out.
5. Minimum manhole inside diameter is four (4') feet.
6. Drop-connection manholes shall have a minimum inside diameter of four (4') feet, with an exterior drop.
7. Minimum pre-cast wall thickness is five (5") inches.
8. All manholes shall be concrete.
9. NOTE: If depth of cover is greater than 18 feet, Manhole size is subject to city Engineer approval.
 - a. Cast-in-place only when approved
 - 1) The manhole foundation shall be poured on undisturbed soil or approved subgrade and shall have a minimum thickness of eight (8") inches.
 - 2) The inlet and outlet pipes shall be poured into the foundation of the manhole. When straight through flow occurs, the pipe shall be laid continuously through the manhole.
 - 3) The invert shall be shaped and smoothed so that no projections will exist and the invert shall be self-cleaning.
 - 4) When a cast-in-place manhole is used to connect to an existing wastewater line the manhole should be poured, tested and approved before the top of the existing line is cut out.
 - 5) Concrete work shall conform to all requirements of ACI 301, Standard Specification for Structural Concrete, published by the American Concrete Institute, except as modified herein.
 - 6) Detailing of concrete reinforcement and accessories shall be in accordance with ACI Publication 315.
 - 7) Portland cement shall be Type II, low-alkali and conform to ASTM Designation C-150.
 - 8) The manhole shall not be backfilled within twelve (12) hours after the concrete placement. Backfill shall be compacted and reports submitted to the City.
 - 9) The face of curb shall be stamped with a three (3") inch "MH" to mark the location of all manholes. The location of the stamp shall be a line that intersects the center of the manhole cover and the curb perpendicular to the centerline of the street. For manholes located in intersections, the curb shall be stamped at the closest location to the manhole. If no curb exist a similar mark should be placed in the pavement near the edge of the roadway.
 - b. Precast Manhole
 - 1) Precast manholes shall be constructed in accordance to ASTM Designation C-478.
 - 2) Manhole base shall have a spread footing and be placed on a minimum of twelve (12) inches of crushed rock.

7.6 MANHOLE FRAME AND COVER

1. Cover
 - a. Materials

All manhole covers shall conform to the Standard Specifications for Domestic Grey Iron Castings, ASTM A-48, Class 30 B.

b. Installation

- 1) All manhole covers shall be thirty (32") inches in diameter.
- 2) All manhole covers shall have two (2) integrally cast pick bars.

c. Manufacturers (Traffic rated where necessary)

- 1) East Jordan Iron Works
- 2) Bass & Hayes

2. Frames

a. Materials

All manhole frames shall conform to the Standard Specifications for Grey Iron Castings, ASTM A-48, Class 30 B.

b. Installation

All manhole frames shall provide a thirty (30") inch by one quarter (1/4") inch opening to assure proper fit of the manhole cover.

c. Manufacturers

- 1) East Jordan Iron Works
- 2) Bass & Hayes

d. Manholes located within the floodplain are to be sealed with an approved bolt-down cover and frame.

3. Extension Ring

a. Materials

All precast reinforced concrete extension rings shall conform to ASTM C-478.

b. Installation

- 1) The number of extension ring sections shall be kept to a minimum (i.e. use 1-12 inch extension ring instead of 2-6 inch extension rings).
- 2) A one (1") inch by three and a half (3 1/2") inch bitumastic gasket shall be used to seal the extension ring at both joints.

[4. Reserved]

[5. Reserved]

6. Manhole Inserts - Rain Pan

Shall be required on all Manholes.

a. Materials

Rain pans shall be High Strength Stainless Steel to fit each manhole

b. Manufacturers

Southwestern Packing and Seals.

7.7 WASTEWATER SERVICE

1. No wastewater service line (lateral) shall be less than six (6") inches in nominal diameter.
2. Wastewater laterals shall be a minimum of ten (10') feet downstream of the water service. Services will be identified in the field by a three (3") inch "S" cut into the curb, on the As-Built Plans and with a stake in the field for location purposes.
3. Wastewater service laterals shall have a minimum of four (4') feet of cover at the property line.
4. Materials
 - a. All lateral wastewater service lines shall be gasketed PVC pipe type SDR-26.
 - b. All PVC wastewater pipe used for lateral services shall meet ASTM 3034.
- [5. Reserved]
6. Installation

All service laterals shall be installed in accordance with the wastewater embedment and backfill standards of the City of Taylor.

7.8 MAIN LINE CLEANOUTS

Cleanouts may be installed on lines that are permanent dead ends. The line may not exceed four hundred fifty (450') feet. Any line exceeding that length must end with a manhole.

7.9 WASTEWATER LINE BORING

SEE WATER LINE

1. Installation
 - a. Tolerances
 - 1) All bores shall be installed at a grade no less than the minimum indicated by TAC30, Chapter 317 for the desired pipe size.
 - 2) All bores shall maintain grade enough to ensure desired clearance distances between existing utilities and bore.
 - b. Excavation and Backfill of Access Pits
SEE WATER SECTION

SECTION 8 DRAINAGE DESIGN AND ANALYSIS CRITERIA

8.1 GENERAL

1. General Application. This section pertains to general application of accepted principles of stormwater drainage engineering and is a working supplement to basic information obtainable from standard drainage handbooks and other publications on drainage. The statements of this section provide the underlying principles by which all drainage facilities shall be designed and constructed within the Corporate Limits of the City of Taylor and within all areas subject to its extra territorial jurisdiction.
2. General Drainage System Policy
 - a. Street curbs, gutters, inlets and storm drains shall be designed to intercept, contain and transport all runoff from the 25-year frequency storm.
 - b. The public drainage system shall be designed to convey the 100-year frequency storm within defined public rights-of-way or drainage easements.
3. Detention Policy

- a. No Increase in Site Discharge - A developer shall develop the property so that the rate of runoff created by the development as it leaves the property does not exceed the rate of runoff that is currently occurring in the existing conditions.
 - b. No Offsite Adverse Impacts - Land development shall not cause increase inundation of any building or roadway surface or create any additional adverse flooding impacts upstream or downstream of the proposed development. Engineer shall perform a downstream drainage assessment as described in Section 8.21 - Drainage Study Guidelines.
 - c. The conditions specified in 3.a. and 3.b. above shall be achieved for the 2-, 10-, 25-, and 100-year frequency storms.
 - d. Exemptions A developer or builder of property greater than one-half (1/2) acre must follow the above detention requirements.
4. Alternative Methods. Methods of design other than those indicated herein may be considered in those cases where experience indicates they are appropriate. However, any variations from the practices established herein must have the expressed written approval from the City Engineer.
5. Additional Measures. If any condition requiring additional measure of protection is identified by the City Engineer during design or construction, the engineer shall make provisions within the design.
6. Safety. Where a portion of the stormwater facility in public right-of-way or easement has either an interior slope or wall steeper than three feet (3') horizontal to one foot (1') vertical with a height exceeding three feet (3') above adjacent ground, barrier-type fences at least six feet (6') high, and/or steel grating are required.
7. Non-erosive Outfalls. Discharge from storm drains, culverts, ditches, ponds shall not cause channel, bluff, or stream bank erosion. If the discharge is to an open drainage facility, the applicant must show acceptable non-erosive conveyance to that drainage facility, and appropriately designed outfall including adequate energy dissipation, which may include stream stabilization.
8. Drainage Easements
 - a. General. Easements shall be provided, where necessary, for all drainage courses in and across property to be platted. An easement or right-of-way must be of sufficient width to provide continuous access for the operation, maintenance, or repair of a drainage facility or conveyance of stormwater.
 - b. Open Channels. Easement width for open or lined channels shall be at least twenty feet (20') wider than the top of the channel, fifteen feet (15') of which shall be on one side to serve as an access for maintenance purposes.
 - c. Storm Drains. A minimum of fifteen feet (15') in width with an additional two feet (2') of easement for every one foot (1') of depth over eight feet (8').
 - d. Detention Facilities. Easements shall be provided for all regional detention facilities and for other detention facilities where two or more owners or the City are responsible for maintenance.
 - e. Property Lines. Easements shall not be centered on a property line when required alongside lot lines.
 - f. Floodplains. A drainage easement shall be dedicated to encompass the City of Taylor floodplain and the easement provided on preliminary and final plats.
9. Computations. Computations to support all drainage designs shall be submitted. The computations shall be in such a form to allow for timely and consistent review and also to be made a part of the permanent City record for future reference. All computations shall be certified by a professional engineer registered in the State of Texas.
10. Positive Overflow at all Low Points. The approved drainage system shall provide for positive overflow at all low points and these areas must be denoted on the plans as such. The term

"positive overflow" means that when the inlets do not function properly or when the design capacity of the conduit is exceeded, the excess flow can be conveyed overland along a grassed or paved course. Normally, this would mean along a street or alley, or shall require the dedications of special drainage easements on private property.

8.2 RUNOFF CALCULATIONS

1. **Methodology.** Numerous methods of rainfall-runoff computation are available on which the design of storm drainage and flood control systems may be based. The selection of which method to use for calculating runoff depends upon the size of the contributing drainage area at the most downstream point of the project. The "Rational Method" is acceptable for designing projects in which the drainage area is less than one-hundred (100) acres or with times of concentration totaling two (2) hours or less. The National Resources Conservation Service (formerly the Soil Conservation Service) curve number method shall be used for detention sizing and for drainage areas larger than one-hundred (100) acres but may also be used for smaller drainage areas. The NRCS hydrologic methods are available in the NRCS National Engineering Handbook (NEH) and the US Army Corps of Engineers' Hydrologic Engineering Center's HEC-HMS programs. The method of analysis must remain consistent when drainage areas are combined. The method used for the largest combined drainage area should be used for the smaller drainage areas comprising that area. Regardless of drainage area size, certain situations require the use of NRCS hydrologic methods (e.g. a detention facility connected to a downstream storm drainage system). The engineer may use other methods but must have their acceptability approved by the City.
2. **Watershed Land Use Conditions.** Runoff computations shall be based upon existing off-site land use watershed conditions. Aerial photographs, GIS base maps, physical surveys, as-built plans, etc. should be used as aids in establishing surface character of the existing land use condition.
3. **Upstream Detention Facilities.** The design engineer shall size drainage facilities by disregarding the detention effects of upstream property and calculating the runoff as if the off-site property was developed without any detention. If an approved regional detention/retention facility is in operation, the design engineer may size downstream drainage facilities based on consideration of the detention effects of the regional facility with written approval from City Engineer. A regional detention/retention facility is defined as having a contributing drainage area of over sixty-four (64) acres.

8.3 DESIGN RAINFALL

Rainfall Depth-Duration-Frequency (DDF) and Intensity-Duration-Frequency (IDF) values are provided in Tables 8-1 and 8-2. These values were developed based on NOAA Atlas 14, Volume 11, Version 2 data, at a specified location within the Brushy Creek Watershed (Latitude: 30.5317°, Longitude: -97.4774°), in accordance with Williamson County recommendations.

Table 8-1: Depth-Duration-Frequency (DDF) Table for City of Taylor										
Depth of Precipitation (in inches)										
Recurrence Interval (year)	5-min	10-min	15-min	30-min	1-hr	2-hr	3-hr	6-hr	12-hr	24-hr
2	0.520	0.829	1.040	1.470	1.910	2.350	2.610	3.050	3.490	3.970
5	0.650	1.040	1.300	1.820	2.390	2.990	3.360	3.980	4.580	5.200
10	0.761	1.220	1.520	2.120	2.800	3.570	4.050	4.860	5.610	6.380

25	0.921	1.470	1.830	2.550	3.390	4.410	5.080	6.190	7.180	8.170
50	1.050	1.680	2.090	2.900	3.850	5.110	5.940	7.320	8.530	9.700
100	1.180	1.900	2.350	3.250	4.350	5.870	6.910	8.620	10.100	11.500
200	1.320	2.110	2.610	3.630	4.890	6.730	8.020	10.100	11.900	13.500
500	1.500	2.380	2.980	4.150	5.660	7.990	9.650	12.300	14.600	16.700

Table 8-2: Intensity-Duration-Frequency (IDF) Table for City of Taylor										
Intensity of Precipitation (in inches per hour)										
Recurrence Interval (year)	5-min	10-min	15-min	30-min	1-hr	2-hr	3-hr	6-hr	12-hr	24-hr
2	6.240	4.970	4.170	2.930	1.910	1.180	0.868	0.510	0.290	0.165
5	7.800	6.220	5.190	3.640	2.390	1.500	1.120	0.665	0.380	0.217
10	9.130	7.300	6.080	4.250	2.800	1.780	1.350	0.812	0.466	0.266
25	11.100	8.840	7.330	5.110	3.390	2.210	1.690	1.030	0.596	0.340
50	12.600	10.100	8.340	5.790	3.850	2.550	1.980	1.220	0.708	0.404
100	14.200	11.400	9.390	6.510	4.350	2.940	2.300	1.440	0.838	0.478
200	15.800	12.600	10.500	7.260	4.890	3.370	2.670	1.690	0.988	0.564
500	18.000	14.300	11.900	8.310	5.660	3.990	3.210	2.060	1.210	0.694

8.4 TIME OF CONCENTRATION

1. Definition. The time of concentration is the time for surface runoff to flow from the most remote point in the watershed to the point of interest. This applies to the most remote point in time, not necessarily the most remote point in distance. Runoff from a drainage area usually reaches a peak at the time when the entire area is contributing. However, runoff may reach a peak prior to the time the entire drainage area is contributing if the area is irregularly shaped or if land use characteristics differ significantly within the area. Sound engineering judgment should be used to determine a flow path representative of the drainage area and in the subsequent calculation of the time of concentration.

2. Methods. The preferred procedure is the NRCS method as described in NRCS's Technical Release 55 (TR-55). Procedures for this method are outlined in the City of Austin DCM Section 2.4.2 and TxDOT Hydraulic Manual Chapter 4.
3. The minimum time of concentration for any drainage area shall be five (5) minutes.
4. Sheet flow for both natural (undeveloped) and developed conditions should be limited to a maximum of one-hundred feet (100').
5. The minimum slope used for calculation of sheet and shallow flow travel time components should be 0.005 feet per foot (0.5%).

8.5 RATIONAL METHOD

1. **Definition.** The Rational Method is based on the principle that the maximum rate of runoff from a given drainage area for an assumed rainfall intensity occurs when all parts of the area are contributing to the flow at the point of discharge.
2. **Methodology.** The formula for calculation of runoff by the "Rational Method" is:

$$Q = CIA \text{ (Eq. 8-1)}$$

Where:

Q = The maximum rate of discharge, expressed in cubic feet per second

C = Coefficient of Runoff

I = Intensity of Runoff in inches per hour

A = Drainage Area in acres

3. Runoff Coefficient (C)
 - a. Definition. The proportion of the total rainfall that will reach the drainage system depends on the surface vegetation condition, soil type, imperviousness of the surface, land slope and ponding characteristics of the area. Impervious surfaces, such as asphalt pavements and roofs of buildings, will be subject to approximately one-hundred percent (100%) runoff (regardless of the slope).
 - b. Methodology. Suggested coefficients with respect to specific surface types are provided below.

Table 8-3: Rational Method Runoff Coefficients for Composite Analysis

Character of Surface	Return Period						
	2-year	5-year	10-year	25-year	50-year	100-year	500-year
DEVELOPED							
Asphaltic	0.73	0.77	0.81	0.86	0.90	0.95	1.00
Concrete	0.75	0.80	0.83	0.88	0.92	0.97	1.00
Grass Areas (Lawns, Parks, etc.)							

Poor Condition* (Grass cover less than 50% of the area)							
Flat, 0-2%	0.32	0.34	0.37	0.40	0.44	0.47	0.58
Average, 2-7%	0.37	0.40	0.43	0.46	0.49	0.53	0.61
Steep, over 7%	0.40	0.43	0.45	0.49	0.52	0.55	0.62
Fair Condition** (Grass cover on 50% to 75% of the area)							
Flat, 0-2%	0.25	0.28	0.30	0.34	0.37	0.41	0.53
Average, 2-7%	0.33	0.36	0.38	0.42	0.45	0.49	0.58
Steep, over 7%	0.37	0.40	0.42	0.46	0.49	0.53	0.60
Good Condition*** (Grass cover larger than 75% of the area)							
Flat, 0-2%	0.21	0.23	0.25	0.29	0.32	0.36	0.49
Average, 2-7%	0.29	0.32	0.35	0.39	0.42	0.46	0.56
Steep, over 7%	0.34	0.37	0.40	0.44	0.47	0.51	0.58
UNDEVELOPED							
Cultivated							
Flat, 0-2%	0.31	0.34	0.36	0.40	0.43	0.47	0.57
Average, 2-7%	0.35	0.38	0.41	0.44	0.48	0.51	0.60
Steep, over 7%	0.39	0.42	0.44	0.48	0.51	0.54	0.61
Pasture/Range							
Flat, 0-2%	0.25	0.28	0.30	0.34	0.37	0.41	0.53
Average, 2-7%	0.33	0.36	0.38	0.42	0.45	0.49	0.58
Steep, over 7%	0.37	0.40	0.42	0.46	0.49	0.53	0.60
Forest/Woodlands							
Flat, 0-2%	0.22	0.25	0.28	0.31	0.35	0.39	0.48

Average, 2-7%	0.31	0.34	0.36	0.40	0.43	0.47	0.56
Steep, over 7%	0.35	0.39	0.41	0.45	0.48	0.52	0.58
1. Composite "C" value for developed conditions (C_{DEV}) is: $C_{DEV} = IC_1 + (1-I)C_2$							
Where: I = Impervious cover, percent C_1 = "C" value for impervious cover C_2 = "C" value for pervious area (grass, lawns, parks, etc.)							
Source: City of Austin Drainage Criteria Manual Table 2-1							

4. Rainfall Intensity (i)

- Definition. Rainfall intensity (i) is the average rainfall rate in inches per hour.
- Methodology. The rainfall intensity is calculated from the Intensity-Duration-Frequency (IDF) curves selected to represent the City of Taylor area. The following equation mathematically represents the City of Taylor area IDF curves deriving a best fit equation for each storm frequency. IDF curves were developed using a cubic spline interpolation of IDF data in Table 8-2:

$$i = a/(t+b)^c \text{ (Eq 8-2)}$$

Where:

i = Average rainfall intensity, inches per hour

t = Storm duration in minutes, which is equal to the time of concentration for the entire drainage area of interest

a, b, and c = Coefficients for different storm frequencies (see Table 8-4)

Table 8-4: Taylor Intensity-Duration-Frequency (IDF) Curve Coefficients			
Return Period	Fitting parameters for IDF equation (8-2)		
Year	a	b	c
2	62.96	12.73	0.8150
5	71.39	12.07	0.7930
10	76.23	11.34	0.7723

25	83.02	10.62	0.7480
50	85.98	9.79	0.7273
100	89.08	9.22	0.7072
200	93.79	9.38	0.6901
500	99.17	9.42	0.6677
The a, b, and c parameters listed were derived using nonlinear regression method and the IDF data included in Table 8-2			

8.6 NATURAL RESOURCES CONSERVATION SERVICE (NRCS) HYDROLOGIC METHOD

1. Definition. The NRCS hydrologic method can be applied to urban drainage areas of any size. The primary parameters required to calculate a runoff hydrograph with the method include the rainfall distribution, runoff curve numbers, time of concentration and drainage area.
2. Methodology. The preferred method to apply the SCS method is using the US Army Corps of Engineers (USACE) HEC-HMS model. HEC-HMS can be downloaded from the USACE website at <http://www.hec.usace.army.mil/>.
3. Rainfall Duration and Distribution. The City of Taylor has adopted the use of a 24-hour HEC-HMS frequency storm distribution for use with time-varying rainfall simulations.
4. HEC-HMS Rainfall Distribution
 - a. HEC-HMS Input. The DDF values from Table 8.1 should be entered directly into HEC-HMS software as frequency storm meteorologic models. HEC-HMS will generate the appropriate rainfall distribution for each recurrence interval. The Atlas 14 depths provided are based on a partial-duration analysis; no partial-to-annual output conversion is required.
 - b. HEC-HMS Parameters. For use of the frequency storm in HEC-HMS for the evaluation of the 24-hour event, the meteorological model parameters should be set as follows:
 - 1) Input Type: Partial Duration (NOAA Atlas 14 precipitation frequency estimates are based on analysis of partial duration series)
 - 2) Output Type: Annual Duration
 - 3) Intensity Duration: 5 Minutes
 - 4) Storm Duration: 1 Day
 - 5) Intensity Position: 50 Percent
 - 6) Storm Area (mi²): Blank for areas less than 10 sq. miles. Use areal reduction for larger areas.
 - 7) Curve: Uniform for All Subbasins

- c. The computational time interval for computer simulations should be selected based on criteria for the minimum lag time in a given model. The computational time interval used in a HEC-HMS model should be no more than 6 minutes.

5. Conservation Service Runoff Curve Numbers

- a. Definition: The NRCS has developed an index, the runoff curve number, to represent the combined hydrologic effect of soil type, land use, agricultural land treatment class, hydrologic condition, and antecedent soil moisture. These watershed factors have the most significant impact in estimating the volume of runoff, and can be assessed from soil surveys, site investigations and land use maps.
- b. Methodology: Reference Table 8-5 for NRCS index values.
- c. Antecedent Moisture Condition (ARC) II represents the average condition and shall be used.
- d. When calculating peak runoff rates the undeveloped curve number shall be used and the impervious cover entered separately to represent existing and proposed development.
- e. The NRCS Soil Survey of Williamson County provides soil hydrologic information.

6. Lag Time

- a. Definition. The lag time, defined as the time between the center of mass of excess rainfall to the runoff peak, is typically used in the HEC-HMS implementation of the SCS methodology.
- b. Methodology: The lag time can be estimated with equation 8.3.

$$T_{lag} = 0.6 T_c \text{ (Eq. 8.3)}$$

Where:

T_c = Time of Concentration (see Section 8.4 above)

Table 8-5 NRCS Runoff Curve Numbers for Urban Areas and Agricultural Lands (assuming ARC-II condition)					
Cover Description	Avg. % Impervious Area ¹	Curve Numbers for Hydrologic Soil Group			
Cover Type and Hydrologic Condition		A	B	C	D
Fully developed urban areas (vegetation established)					
Open space (lawns, parks, golf courses, cemeteries, etc.)					
Poor condition (grass cover 50%)		68	79	86	89
Fair condition (grass cover 50% to 75%)		49	69	79	84
Good condition (grass cover 75%)		39	61	74	80
Impervious areas:					
Paved parking lots, roofs, driveways, etc. (excluding right-of-way)		98	98	98	98

Streets and roads					
Paved: curbs and storm drains (excluding right-of-way)		98	98	98	98
Paved: open ditches (including right-of-way)		83	89	92	93
Gravel (including right-of-way)		76	85	89	91
Dirt (including right-of-way)		72	82	87	89
Developing urban areas					
Newly graded areas (pervious areas only, no vegetation)		77	86	91	94
Agricultural lands					
Pasture, grassland, or range-continuous forage for grazing ²	Poor	68	79	86	89
	Fair	49	69	79	84
	Good	39	61	74	80
Meadow-continuous grass, protected from grazing & mowed for hay		30	58	71	78
Brush-brush-weed, grass mixture with brush the major element ³	Poor	48	67	77	83
	Fair	35	56	70	77
	Good	30	48	65	73
Woods-grass combination (orchard or tree farms) ⁴	Poor	57	73	82	86
	Fair	43	65	76	82
	Good	32	58	72	79
Woods ⁵	Poor	45	66	77	83
	Fair	36	60	73	79
	Good	30	55	70	77
Farmsteads - buildings, lanes, driveways and surrounding lots		59	74	82	86

1. Average runoff condition, and $I_a = 0.2s$
2. Poor: less than 50 percent ground cover or heavily grazed with no mulch Fair: 50 to 75 percent ground cover and not heavily grazed Good: greater than 75 percent ground cover and lightly or only occasionally grazed
3. Poor: less than 50 percent ground cover Fair: 50 to 75 percent ground cover Good: greater than 75 percent ground cover
4. Curve numbers shown were computed for areas with 50 percent woods and 50 percent grass (pasture) cover. Other combinations of conditions may be computed from the curve numbers for woods and pasture
5. Poor: Forest litter, small trees and brush are destroyed by heavy grazing or regular burning Fair: Woods are grazed but not burned, and some forest litter covers the soil Good: Woods are protected from grazing, and litter and brush adequately cover the soil
Source: NRCS TR-55: Urban Hydrology for Small Watersheds

8.7 DESIGN STORM FREQUENCIES

1. All developments submitted must provide data for the following design storm frequencies: 2-Year/10-year/25-Year/100-Year.
2. Design recurrence interval for various drainage facilities:

Table 8-6: Design Recurrence Interval for various Drainage Facilities	
Drainage Facility	Design Recurrence Interval
Closed Storm Drain Systems	25-year with 100-year positive overflow in streets such that the depth of flow in the street does not exceed the right-of-way or drainage easement
Closed Storm Drain Systems and Inlets at Street Low Point or Sag	100-year with positive overflow
Culverts and Bridges	100-year
Concrete-lined Channels	100-year
Earthen Channels	100-year

8.8 STREET DRAINAGE

1. Streets and alleys. Streets and/or alleys in combination with storm drains and/or roadside swales within new developments shall be designed so that storm water runoff resulting from a design storm of a 100-year frequency is contained within the available right-of-way and/or drainage easement.
2. Permissible Spread of Water. The flow of water in gutters of typical streets during the 25-year frequency storm shall be contained below the top of curb and shall maintain the clear with as provided in Table 8-7 below.

Table 8-7: Minimum Clear Width for Roadway Design when Gutter is Flowing Full	
Roadway Type	Minimum Clear Width (feet)
Local	0
Collector (Residential or Neighborhood)	12
Collector (all others)	12 feet in each direction
Arterial (4 lanes one way or 8 lanes divide)	24 feet in each direction
Arterial (all others)	12 feet in each direction

3. Design Method.
 - a. Methodology. HEC-22, FHWA-NHI-10-009 provides acceptable equations to calculate gutter flow for straight and parabolic crowned pavement sections. This method is outlined in the City of Austin DCM Section 3.3.0.
 - b. Gutters shall have a minimum slope of 0.004 feet per foot (0.4%) to ensure scouring velocities for low flows.
4. Street Cross Flow. Cross-flow is allowed only in case of superelevation of a curve or overflow from the higher gutter on a street with cross fall. No more than three cubic feet per second (3 cfs) for the 25 year storm even shall be allowed to cross flow from the higher elevation to the lower elevation.
5. No lowering of the standard height of street crown shall be allowed for the purposes of obtaining additional hydraulic capacity.
6. Driveways Crown. At some point within the first ten feet (10') from the edge of the roadway gutter, the entire width of a driveway shall have the same or greater elevation as the top of the curb at the edge of the roadway.

8.9 INLETS

1. Inlet Placement.

- a. The storm drain system is to begin at the point where the storm water in the street reaches top of curb depth or the permissible spread of water as allowed for the type of street (ref Table 8-7). At such point where the combined capacity of the street and storm drain system satisfies the 25-year street capacity criteria (as previously described) but the 100-year frequency storm runoff cannot be contained within the right-of-way additional pick-up points (inlet capacity) shall be provided along with an increase in storm drain capacity so that the 100-year frequency storm runoff will be contained within the right-of-way.
 - b. Inlets shall be placed upstream from an intersection whenever possible and is required when more than three (3) cfs for the 25-year frequency storm flows across the intersection.
 - c. No more than three (3) cfs for the 25-year frequency storm shall be allowed to enter the bulb of a cul-de-sac or corner bubble.
 - d. Inlets shall not be placed inside the curb return.
 - e. At any intersection, only one street shall be crossed with surface drainage and this street shall be the lower classified street. When an alley intersects a street, inlets shall be placed in the alley whenever flow down that alley would cause the capacity of the intersecting street to be exceeded.
3. Inlet Capacity
- a. Methodology to calculate the interception capacity of inlets is provided in the City of Austin DCM Section 4.3.
 - b. The minimum inlet size shall be ten feet (10').
 - c. No more than twenty feet (20') of inlet shall be placed along one gutter at any given location.
4. Inlet Type
- a. Curb inlets shall be used to intercept surface runoff for curb and gutter streets.
 - b. Grate inlets, combination inlets, and slotted/trench drains are discouraged from use due to the tendency of grates and slotted drains to clog. Prior approval of their use and application of appropriate clogging factor is required from the City Engineer.

8.10 STORM DRAINS

1. Design Guidelines
- a. Sizing
 - 1) Minimum Size: eighteen inches (18") in diameter or height for arches and boxes.
 - 2) Storm drain shall be sized to flow full.
 - 3) Select storm drain size and slope so that the velocity of flow will increase progressively or at least will not appreciably decrease at inlets, bends or other changes in geometry or configuration.
 - b. Material.
 - 1) Pipe. Stormwater shall be carried in reinforced concrete pipe (RCP), ASTM C76, minimum class III. The engineer shall provide load analysis as appropriate to demonstrate that class of pipe used is sufficient for the loading conditions. Higher strength pipes shall be used where loadings warrant such.
 - 2) Manholes and Junction Boxes. Shall be reinforced concrete.
 - c. Layout
 - 1) At changes in conduit size, the soffit (top inside surface), not the flow line, of the two conduits should be aligned, where practical.
 - 2) Do not discharge the flow of a larger conduit into a smaller conduit.

- 3) No proposed pipe having a diameter greater than fifty percent (50%) of the minimum dimension of an existing box culvert shall be allowed to discharge into that box culvert. Exceptions must be justified by structural engineering analysis.
- 4) Flow Path Intersections. For all pipe junctions other than a manhole, the angle of intersection between any two flow paths shall not be greater than forty-five (45) degrees. This includes discharges into box culverts and channels.
- 5) Storm drains between lots (crossing blocks) shall be avoided as much as possible. When unavoidable, such mains shall be laid along a straight alignment (absent of curves, jogs, and manhole/junction boxes when traversing between lots) with manholes/junction boxes provided at each intersecting street.
- 6) Storm drains along rear of residential lots (through back yards) should be avoided.

2. Conduit Flow

- a. All conduit shall be designed by direct solution of the Continuity Equation and Manning's Equation.

$$Q = AV \text{ (Eq. 8.4)}$$

$$Q = (1.49/n)AR^{2/3}S^{1/2} \text{ (Eq. 8.5)}$$

Where:

Q = Pipe flow, cfs

A = Cross-sectional area of flow, ft²

V = Velocity of flow, ft/sec

n = Coefficient of roughness of pipe (n = 0.013)

R = Hydraulic radius = A/W_p, ft

S = Friction slope in pipe, ft/ft

W_p = Wetted perimeter, ft

- b. Minimum and Maximum Velocities in Conduits

- 1) The minimum velocities in conduit shall be two and a half feet per second (2.5 fps) for the 25-year frequency storm.
- 2) Maximum velocity in the pipe shall not exceed fifteen feet per second (15 fps) for the 25-year frequency storm.

3. Hydraulic Gradient

- a. Maximum Hydraulic Gradient. The hydraulic grade line shall remain below the surface of the ground or street for the 25-year storm event.
- b. Hydraulic Calculations. Hydraulic gradient calculations shall account for all friction and minor head losses that may occur in the storm drain line and start from an appropriate tailwater elevation.
 - 1) Friction Losses. Shall be determined by direct application of Manning's Equation.
 - 2) Minor Losses. Minor losses are caused from turbulence in the storm drain system and can include: manholes, junctions, bends, curves, entrance and exit losses, enlargements, and contractions. City of Austin DCM Section 5.5.2 outlines procedures for estimating minor losses.

- 3) Tailwater
 - a) Design engineer to calculate the appropriate tailwater elevation or use the results from a detailed hydraulic study.
 - b) The use of coincident frequencies is not encouraged (i.e. use 25-year tailwater for 25-year storm drain analysis).
 - c) In no case shall the tailwater be assumed below top of pipe.
4. Manholes and Junction Boxes
 - a. Manholes or junction boxes are required:
 - 1) Every three hundred feet (300');
 - 2) At every change in pipe size;
 - 3) Where two or more laterals intersect the main line within five feet (5') of each other; and
 - 4) To meet maintenance path requirements.
 - b. Maintenance Path. Provide a maintenance path from one access point to another within the storm drain that meets the following requirements:
 - 1) Path has no more than one horizontal bend, with that bend having a deflection of no more than forty-five (45) degrees in the direction of the maintenance path.
 - 2) Path has no vertical bend with a deflection of greater than five (5) degrees.
 - 3) Access points can include manhole/junction boxes, inlets, and storm drain outfalls.
 - c. Junction boxes in lieu of manholes shall be provide where any pipe opening exceeds thirty-seven (37") inches and where the distance from the outside surfaces of any two pipes entering a manhole is less than one (1') foot, measured along the inside of the manhole.
 - d. Manholes are to be a minimum four (4') feet in diameter and shall be precast or cast in place if approved by City Engineer.
5. Conduit Outfalls
 - a. Maximum Discharge Velocity. The maximum discharge velocities in the conduit shall also not exceed the permitted velocity of the receiving channel or conduit at the outfall to prevent erosive conditions. The maximum outfall velocity of a conduit in partial flow shall be computed for partial depth and shall not exceed the maximum permissible velocity of the receiving channel unless controlled by an appropriate energy dissipater (e.g. stilling basins, impact basins, riprap protection).
 - b. Stabilization.
 - 1) Outfall and Stabilization Location. Locate the outfall away from existing eroded banks in the most stable location available. The location of the outfall, armoring, and channel stabilization must consider the location of existing infrastructure and utilities and provide adequate horizontal and vertical separation so as not to obstruct access or maintenance, nor adversely impact the infrastructure.
 - 2) Outfall Orientation. The angle of intersection between the outfall flow path and the channel flow path shall not be greater than 45-degrees.
 - 3) Bank and Bed Armoring. The surrounding banks and bed shall be appropriately armored or made geotechnically stable, so as to sufficiently resist erosive forces. Armor below the outfall shall extend from the toe of the bank into the channel equal to a length ten times the pipe diameter. For channel bottom widths less than ten times the pipe diameter, armoring shall extend up the opposite bank to an elevation equal to that of the top of the pipe.

- 4) Armor Type. Flexible armor, such as rock riprap, shall be utilized for bed and bank stabilization in erodible channels.
- c. Drop Height
 - 1) The drop height from a conduit invert to a receiving channel or detention pond shall be one foot (1') to limit local erosion and to allow for potential sedimentation.
 - 2) Concentrated discharges on steep embankments, ravine slopes, or high bluffs shall be avoided.

8.11 CULVERTS

1. Methodology. The Federal Highway Administration HDS 5 and the TxDOT Hydraulic Manual have published guidance for the hydraulic design of culverts. Their guidance shall be used to perform culvert designs that meet the City's performance criteria.
2. Minimum Size. The minimum allowable culvert size for roadway crossings shall be eighteen inches (18") in diameter or height for boxes.
3. Material. All culverts shall be made of reinforced concrete, and shall be constructed of Class-III or better.
4. Culvert placement
 - a. Horizontal alignment. Culverts shall be skewed such that impacts due to the flood and normal flow angles of attack on the structure are minimized. The culvert axis should match the natural channel alignment upstream and downstream whenever practical.
 - b. Vertical alignment. Place the upstream and downstream flow line elevations at the same elevations as the existing streambed whenever practical. Depressed entrances should be avoided.
5. Culvert Headwalls
 - a. Shall be constructed at the ends of all culverts to anchor the culvert in order to prevent movement due to hydraulic and soil pressure, to control erosion and scour resulting from excessive velocities and turbulence, and to prevent adjacent soil from sloughing into the waterway opening.
 - b. All headwalls shall be constructed of reinforced concrete and may be either straight-parallel, flared or warped. They may or may not require aprons, as determined by site conditions. The following guidelines can be used to aid in the selection of the type of headwall.
 - 1) Parallel Headwalls. Approach velocities are low (below six feet (6) per second) and backwater pools are permitted.
 - 2) Flared Headwalls. Approach velocities are between six (6) and ten (10) feet per second. Ample right-of-way or easement is available.
 - 3) Warped Headwall. Approach velocities are between eight (8) and twenty (20) feet per second. Warped headwalls are effective with aprons to accelerate flow through the culvert.
 - c. Headwalls should be aligned with the direction of the receiving flow when discharging into a waterway.
 - d. Precast headwalls and endwalls may be used if all other criteria are satisfied; generally precast headwalls/endwalls are available for smaller culverts eighteen (18") and twenty-four (24") inches in diameter.
 - e. The safety ends or headwalls shall be constructed in accordance with TxDOT standards as required by the physical conditions of the particular installation. Rock rip-rap or other suitable erosion control may be required at each location as supplemental protection.

6. Hydraulics

- a. Freeboard. One foot (1') of freeboard is required between the 100-year water surface elevation and any top of curb or roadway crown elevation, whichever is lower.
- b. Culvert hydraulic grade line calculations shall consider both inlet and outlet control. Tailwater conditions should be considered for outlet control conditions.
- c. The maximum velocity through a culvert shall be fifteen feet per second (15 fps) during the 25-year frequency storm. A minimum velocity through a culvert shall be two and one-half feet per second (2.5 fps) during the 25-year frequency storm.

7. Stream Stability

- a. Stream stability shall be assessed when determining the number of barrels, height and width and culvert skew. Potential for scour shall be accounted for in the design.
- b. Stream degradation. The local condition of the channel reach should be evaluated to determine if there is degradation present. If channel degradation is anticipated then the design should accommodate for future erosion.
- c. If a depressed entrance is used then an upstream apron should be designed to prevent progressive degradation of the upstream channel and the potential for deposition should be considered.
- d. Outlet velocities
 - 1) When the outlet velocity exceeds the allowable erosive velocity in the downstream channel, channel erodibility and local scour potential should be evaluated and taken into account. A flexible armoring system is preferred in streams subject to erosion.
 - 2) Hydraulic jumps shall not be allowed from face of culvert to fifty feet (50') from the culvert.
- e. Erosion protection measures. A flexible armoring system is preferred in streams subject to erosion. Where energy dissipation is needed at a culvert outlet, a rock riprap basin is preferred over rigid structures (see HEC-14 for design guidelines).
- f. Multiple boxes. If multiple boxes or culverts are necessary, different flowline elevations for each structure should be evaluated. The culverts at the center of the channel should be lower to match with the existing natural channel with the outlying culverts raised up to more closely coincide with the natural channel "terrace" elevation. This will help minimize sedimentation in the outlying culverts, help preserve the integrity of the channel system, and reduce maintenance costs.

8.12 BRIDGES

1. Methodology. The Federal Highway Administration and the TxDOT Hydraulic Manual have published guidance for the hydraulic design of bridges. Their guidance shall be used to perform bridge designs that meet the City's performance criteria.
2. Construction Plans. Bridge details may be adaptations of the current Texas Department of Transportation (TxDOT) Standards.
3. Freeboard. One foot (1') of freeboard is required between the 100-year water surface elevation and any top of curb or roadway crown elevation, whichever is lower.
4. Bridge configuration. The skew of the bridge piers and abutments shall be oriented as close to the normal or flood direction of flow resulting in an angle of attack as close to zero (0) degrees as possible.
5. Hydraulic modeling. Computer modeling programs used for the hydraulic analysis of bridges shall be HEC-RAS.
6. Stream stability

- a. Stream stability shall be assessed when designing the abutments and interior bents of the bridge. Scour shall be accounted for in the design.
- b. Flow shall not be supercritical in an area from one-hundred feet (100') upstream from a bridge to twenty-five feet (25') downstream from a bridge.

8.13 CHANNELS

1. Natural Channels
 - a. Definition. Include all watercourses that have been carved by nature through erosion.
 - b. USACE Section 404. When a project proposes to modify a natural channel the design engineer should check the requirements of Section 404, Permits for Dredged or Fill Material, of the Clean Water Act. If required, permit authorization should be obtained from the USACE by the design engineer.
 - c. Channels may be left in their natural state provided that the channel velocities are six feet per second (6 fps) or less for all design storms up to the 100-year frequency storm and that one foot (1') of freeboard is available during the design storm event.
2. New or Altered Channels
 - a. Definition. Constructed or existing channels that have been significantly altered by human effort.
 - b. Grass-lined channels are the preferred type of new or altered channel.
3. Configuration
 - a. Side Slopes. Minimum side slopes of four feet horizontal to one foot vertical (4:1) for earthen or as recommended from a geotechnical analyses, and two feet horizontal to one foot vertical (2:1) for concrete-lined side slopes.
 - b. Curvature. The center line curvature shall have a minimum radius of twice the top width of the 100-year frequency storm flow.
 - c. Channel Slope. The flow line slope of the channel shall be a minimum of two (2%) percent unless the velocity for the 2-year frequency storm flow is greater than two feet per second (2 fps), in which case the channel slope may be a minimum of one percent (1%). Compliance with this requirement must take into account the variation in channel flow due to distributed inflows to the channel. A reinforced concrete pilot channel must be used if the channel slope is less than one percent (1%). The pilot channel must be at least four feet (4') wide, two inches (2") deep, and be capable of withstanding vehicular loading. Any grass-lined portion of the channel bottom must have a slope of at least two percent (2%) from that portion to the concrete-lined pilot channel. However, no open channel flow line slope may be less than one-half percent (0.5%).
 - d. Bottom Width. The minimum flat bottom width of the channel is three feet (3').
 - e. Freeboard. The channel shall be designed to accommodate existing and fully-vegetated conditions. The flow from the 100-year frequency storm must be contained within the new or altered channel while allowing for one foot (1') of freeboard. Superelevation of the water surface shall be determined at all horizontal curves which deviate more than 45 degrees off the projected centerline. Freeboard shall not be obtained by the construction of levees.
4. Maximum Velocity. The velocities below are maximum allowable in each situation for the 100-year frequency storm event and includes all transitions to or from channels and waterways with similar or different materials. If a lower velocity cannot be achieved, velocity attenuation devices must be constructed or installed.
 - a. Grass-Lined Channels. Six feet per second (6 fps)
 - b. Lined Channels. Fifteen feet per second (15 fps)

5. Minimum Velocity. The minimum permissible velocity for the 2-year frequency storm is 2 fps.
6. Lining Type
 - a. Grass-Lined. Use low maintenance vegetation for vegetative cover, as approved by the City Engineer prior to planting. All slopes shall be hydromulched, sodded or seeded with approved grass, grass mixtures or ground cover suitable to the area and season in which they are applied. Seeded side slopes shall be lined with erosion protection matting.
 - b. Lined Channels. Types such as concrete, rock walls and gabions may be used upon approval of the City Engineer. Articulating concrete block flexible channel linings with the approval of the City Engineer are preferred over reinforced concrete lining.
 - c. Rock Rip-Rap. Must be six inch (6") diameter rock or greater.
 - d. Roughness Coefficients
 - 1) Any convenient, published design guide can be referenced for these values. The City of Austin DCM Section 6.2.0 describes an acceptable procedure to determine appropriate Manning 'n' values.
 - 2) Roughness coefficients for new channels shall represent fully-vegetated conditions with appropriate maintenance measures applied.
7. Channel Stability
 - a. General. All channel sections must consider and account for channel bed and bank stabilization in their design. This requirement pertains to all sections whether they are left in their natural condition or are modified in any manner. The design of all drainage channels and swales shall assure adequate capacity and minimum maintenance to overcome the result of erosion, silting, sloughing of bends or similar occurrences.
 - b. Concrete-lined Channels. In concrete-lined channels the probability of achieving supercritical flow is greatly increased. The designer must take care to ensure against the possibility of unanticipated hydraulic jumps forming in the channel in considering the 25- and 100-year frequency storms. Flow with a Froude number equal to one (1) is unstable and should be avoided. If supercritical flow cannot be avoided, then freeboard and superelevation must be determined. In addition, all channels carrying supercritical flow shall be continuously lined with reinforced concrete.
 - c. Channel Drop Structures. The function of a drop structure is to reduce channel velocities by allowing for flatter upstream and downstream channel slopes. The City of Austin DCM Section 6.5.0 describes two commonly used drop structures.
 - c. Energy Dissipators. Energy dissipators are used to dissipate excessive kinetic energy in flowing water that could promote erosion. An effective energy dissipator must be able to retard the flow of fast moving water without damage to the structure or to the channel below the structure. There are several types of energy dissipators such as impact type (baffled outlets and aprons), and hydraulic jump type (stilling basins). For more information, reference 'Hydraulic Design of Stilling Basins and Energy Dissipators' published by the U.S. Bureau of Reclamation.
8. Maintenance Access. Maintenance access shall be provided on one side of the channel. See easement requirement 8.1.
9. Hydraulic Calculations. Manning's Equation can be used to design channels/swales and determine water surface elevations and velocities when backwater effects are negligible. Channels/swales where backwater effects occur must be designed using HEC-RAS.

8.14 ROADSIDE SWALES AND DRIVEWAY CULVERTS

1. Roadside Swales. Roadside swales may be used along all roadways to convey drainage in accordance with the above channel criteria with the exception of the following specific roadside swale criteria.
 - a. Design Capacity. Swales shall be designed to carry a 100-year frequency storm and the back water effects of the most restrictive culvert to be placed in the swale.
 - b. Depth: Shall at all times maintain a minimum depth of thirty inches (30").
 - c. Easements. The entire swale should be contained within the ROW of the road. If the swale cannot be contained additional ROW may be required. A second option would be to provide a minimum sixteen foot (16') drainage easement and the following note on the plat: Note: Drainage easements adjacent to roadways shall not be fenced and must be left so that access can be obtained for maintenance purposes.
2. Driveway Culverts
 - a. Applicability. All driveways and driveway culverts are the responsibility of the individual lot owner or developer. It is the developer's responsibility to ensure that all lot owners are aware of this requirement.
 - b. Material. All culverts shall be made of reinforced concrete, and shall be constructed of Class-III or better. Corrugated Metal Pipe (CMP) may only be used for residential driveways as approved on a case-by-case basis.
 - c. Minimum Size: The minimum allowable culvert size for driveway crossings shall be eighteen inches (18") in diameter.
 - d. Gradient. Culverts shall have a minimum bottom slope of 0.5%.
 - e. Length. Culverts shall not be greater than fifty feet (50').
 - f. Minimum Cover. A minimum of six inches (6") of cover shall be placed above all new culverts below the lowest bank of the ditch.
 - g. Multiple Culverts. Where multiple culverts occur in swales, the ditch bottom must be widened to have a bottom width that is six inches (6") greater on each side than the distance from the outside walls of the outer two culverts. Each culvert shall also be separated by six inches (6") of compacted fill material.
 - h. All driveway culverts must be installed prior to issuance of building permits or construction activities on the individual lot.
3. Crossing Culverts
 - a. Crossing culverts shall be placed to relieve drainage at all low-points and drainage crossings and shall meet the requirements of Section 8.11, Culverts.
 - b. All culverts and related structures that are a part of the road construction shall be in place prior to final acceptance of the improvements for the subdivision.

8.15 DETENTION DESIGN

1. Detention Performance Requirement
 - a. General. Detention shall be configured and sized to meet general detention requirements as stated in Section 8.1.3, which requires 'No Increase in Site Discharge' and 'No Offsite Adverse Impacts' for the 2-, 10-, 25- and 100-year, 24-hour duration frequency storm events. To demonstrate no offsite adverse impacts a downstream impact assessment is required as outlined in Section 8.21.3.
 - b. Drawdown Time. Detention facilities shall be designed to empty the detention volume from the time of peak of complete emptying in less than twenty-four (24) hours.

- c. Freeboard. Dedicated detention/retention basins shall also include an additional one foot (1') of freeboard for the 100-year frequency storm event.
- d. Parking Lot Detention. Storm runoff may be detained within parking lots. The location of ponding areas should be planned to minimize inconvenience to both pedestrians and traffic and the maximum 100-year ponding depth shall be limited to less than eight inches (8").

2. Detention Analysis Requirements

a. Hydrograph Routing

- 1) The volume of detention runoff storage shall be computed using unit hydrograph and storage routing procedures.
- 2) The effects of tailwater or other outlet control considerations should be considered.
- 3) When designing ponds in series (i.e., when the discharge of one pond becomes the inflow of another), the analysis must incorporate the construction of hydrographs for all inflow and outflow components.
- 4) The preferred method to perform this analysis is through application of the NRCS hydrologic method using the Corps of Engineers HEC-HMS models.

- b. Watershed Land Use Conditions. Any off-site areas which drains to the pond shall be assumed to remain in the existing condition for both pre- and post-development conditions.

- c. Watershed Floodplain Models. Where applicable, City of Taylor regulatory models should be used as base models for the impact analysis and drainage design associated with development. Users should be aware that floodplain models provided have been developed on a watershed-wide basis and may therefore not be applicable without modification on a site-by-site basis. Regulatory models used for flood insurances purposes should be obtained directly from FEMA.

3. Detention Design Requirements

a. Embankments

- (1) Minimum Top Widths

Table 8-8: Embankment Top Widths	
Total Height of Embankment (feet)	Minimum Top Width (feet)
0-6	4
6-10	6
10-15	8
15-20	10
20-25	12
25-35	15

- (2) Compaction. The constructed height of an earthen embankment shall be equal to the design height plus the amount necessary to ensure that the design height will be maintained once all settlement has taken place. This amount shall in no case be less than five percent (5%) of the total fill height. All earthen embankments shall be compacted to 95% of maximum density.
- (3) Side Slopes. Earthen embankment side slopes shall be no steeper than 4 horizontal to 1 vertical (4:1) or as recommended from a geotechnical analyses.
- b. Positive Drainage. A detention facility shall have enough gradient to ensure positive drainage to the outlet structures so as to avoid nuisance conditions such as standing water, odors, insects, and weeds. A minimum slope towards the outlet structure of two percent (2.0%) is required for all grass lined areas and of one-half percent (0.5%) for concrete pilot channels.
- c. Detention Pond Inflow. All concentrated flows into a detention pond shall be collected and conveyed into the pond in such a way as to prevent erosion of the side slopes.
- d. Detention Pond Outlet
 - (1) Outlet Pipes. Shall have a minimum diameter of eighteen inches (18") and be constructed of reinforced concrete.
 - (2) Orifice plates. Orifice plates may be used to further restrict flow area but must be assessable for maintenance and removal of storm debris. Orifice openings smaller than twelve inches (12") should not be used.
 - (3) No outlet structure from detention shall be designed to discharge concentrated flow directly onto arterial or collector streets. Such discharges shall be conveyed by a closed conduit to the nearest existing storm drain or channel. If there is no existing storm drain/channel within three hundred feet (300'), the outlet design shall provide for a change in the discharge pattern from concentrated flow back to sheet flow.
 - (4) Outlet Structure Design. There are two basic types of outlet control structures: those incorporating orifice flow and those incorporating weir flow. Rectangular and V-notch weirs are the most common types. Generally, if the crest thickness is more than sixty percent (60%) of the nappe thickness, the weir should be considered broad-crested. The coefficients for sharp-crested and broad-crested weirs vary. The respective weir and orifice flow equations are provided below. Analytical methods and equations for other types of structures shall be approved prior to use.

Rectangular Weir Flow Equation

$$Q = CLH^{3/2} \text{ (Eq. 8-6)}$$

Where:

Q = Weir discharge, cubic feet per second

C = Weir Coefficient (reference source)

L = horizontal length, feet

H = Head on weir, feet

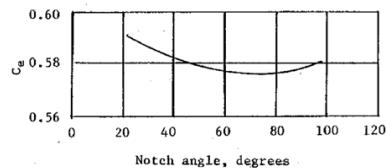
V notch Weir Flow Equation

$$Q = 4.28 C_e \tan(\Theta/2) H^{2.5} \text{ (Eq. 8-7)}$$

Where

Q = Weir Discharge, cubic feet per second

C_e = Weir Coefficient, $25^\circ < \Theta < 100^\circ$



Θ = Angle of the weir notch at the apex (degrees)

H = Head on Weir, feet

Orifice flow equation

$$Q = C_o A (2gH)^{0.5} \text{ (Eq. 8-8)}$$

Where

Q = Orifice Flow, cubic feet per second

C_o = Orifice Coefficient (use 0.6 or reference source)

A = Orifice Area, square feet

g = Gravitation constant, 32.2 feet/sec²

H = Head on orifice measured from centerline, feet

4. Detention Pond Maintenance Requirements

- a. Maintenance Access. Detention ponds shall be designed with adequate area around the perimeter for access and maintenance. Ponds shall have a seven foot (7') wide clear perimeter access strip for ponds with depths of five feet (5') or less (back slopes included) and a minimum of fifteen feet (15') wide clear perimeter access strip for ponds over five feet (5') deep or with back slopes in excess of five feet (5') high. Area shall not slope more than five percent (5%).
- b. Maintenance Plan. The owner shall maintain detention/retention facilities. Detention facilities must be properly maintained to function as intended over a long period of time.
 - (1) Facilities should be mowed at least twice a year to control weeds and discourage woody growth. Vegetation within the basin shall not exceed eighteen inches (18") in height at any time.
 - (2) Debris, litter and accumulated sediment should be removed from detention facilities at least twice a year. Particular attention should be given to removal of debris, litter and sediment around inlet and outlet structures.
 - (3) The structural integrity of detention basins and all appurtenances shall be inspected annually, or more frequently if specified.
 - (4) Corrective maintenance shall occur any time detention drawdown does not occur within twenty-four (24) hours.
 - (5) No unvegetated area shall exceed ten square feet (10 sf) to limit soil erosion potential.

- (6) Sediment build-up shall be removed when accumulation exceeds six inches (6") in basins, when sediment traps are full, when sediment causes standing water, or when sediment reduces basin storage by more than ten percent (10%).

8.16 DAM SAFETY

1. Applicability. Any hydraulic structure designed to impound storm water that has a height greater than or equal to six feet (6') at any point along the perimeter to an impoundment is a dam and must be designed to safely pass the minimum design flood hydrograph expressed as a percentage of the Probable Maximum Flood (PMF).
 - a. The height of the hydraulic structure is measured from the top of the structure to the downstream intersection of the structure and the natural or excavated ground, whichever is lower.
 - b. A dam must be designed to pass the PMF as defined in Texas Administrative Code Chapter 299 Dams and Reservoirs (Figure: 30 TAC §299.15(a)(1)(A)).
 - c. The State of Texas has the primary regulatory authority for dams in Texas. The State's Dam Safety Program is under the purview of the TCEQ and Title 30, Chapter 299 of the Texas Administrative Code contains applicable rules. The primary guidance for the analysis of dam performance during a PMF event can be found in the Hydrologic and Hydraulic Guidelines for Dams in Texas. This manual and other dam safety and maintenance manuals are available on the TCEQ's web site at <https://www.tceq.texas.gov/>.
2. Dam Design. TCEQ current Design and Construction Guidelines for Dams in Texas should be referenced for dam design. The following list several important dam design considerations.
 - a. Woody Vegetation Free Zone. Dams shall not be designed or constructed with any trees or other woody vegetation on the dam structure or within twenty feet (20') of the upstream or downstream toe of the dam.
 - b. No permanent irrigation systems. Dams shall not have permanent irrigation systems installed on the dam.
 - c. Vegetation maintenance. Dams must be vegetated with grasses that do not exceed twelve inches (12") in height and can be mowed as frequently as weekly. Examples include Bermuda grass and buffalo grass.

8.17 FLUMES

1. The use of flumes is discouraged. Flumes shall not be permitted when the purpose of a permanent flume is to carry runoff down the sides of earthen channels or detention ponds.
2. A flume may be used to direct overflow runoff along property lines until the runoff can be intercepted by streets or conduits. A flume shall not carry more than ten cubic feet per second (10 cfs) during the 100-year frequency storm event with a slope of one percent (1.0%).
3. All flumes crossing sidewalks shall be covered or bridged such as to minimize danger to pedestrians.
4. All edges are to be protected with rock rip-rap or other form of protection for erosion control and scour purposes.

8.18 LAKES

1. Approval to develop in any area subject to inundation by a lake must be obtained from the appropriate agency responsible for that particular lake before the city grants its approval. Agencies that should be contacted include, but are not limited to U.S. Army Corps of Engineers, TCEQ, the Brazos River Authority, and FEMA.
2. Regardless of approvals obtained from those agencies listed above, no filling, development or construction in any area subject to inundation by a lake shall occur without the approval of the

City Engineer. The City Engineer may require any studies necessary to determine that filling, development or construction will not have a detrimental effect on adjacent, upstream or downstream properties and buildings. This subsection in no way diminishes other requirements of this section.

8.19 LOT TO LOT DRAINAGE

1. A comprehensive grading plan shall be included with subdivision construction plans. The grading plan shall be designed to ensure all lots will adequately drain upon completion of the subdivision improvements.
2. All lots shall be graded from rear to front at which point the drainage shall be intercepted by the street. Alternate grading schemes may be utilized if it can be demonstrated to the satisfaction of the City Engineer that grading from rear to front would be detrimental to trees or other natural features; or it would not be reasonably adaptable to the existing topography because of excessive cuts and fills, or future lot development (i.e. commercial, industrial or multi-family lots).
3. All lots shall be graded at a minimum of one percent (1%). Grading of lots with existing slopes of one percent (1%) or greater will not be required provided the conditions under 8.19.2 above have been satisfied and it is demonstrated to the satisfaction of the City Engineer that there are no existing or proposed features that will prevent the lots from adequately draining.
4. Grading and drainage of all residential lots shall be designed in a manner which will allow a maximum of one lot to drain in a sheet flow manner across an adjacent lot and into a permanent structure, such as a concrete flume, lined channel, or proper inlet to an adequate drainage facility, or to a street right-of-way. If an approved drainage structure is not present, it will be required of the developer to construct the necessary facilities.
5. Surface swales shall be designed and provided along lot lines when more than two lots will be contributing to stormwater runoff at any given point. Side slopes for swales shall not exceed 10:1 (horizontal: vertical) unless otherwise accepted by the City Engineer.
6. Sheet flow techniques shall be used for lot to lot drainage.

8.20 FLOODPLAIN DELINEATIONS

1. City of Taylor
 - a. A floodplain shall be delineated for all waterways with a contributing drainage area greater than sixty-four (64) acres. A waterway is defined as any watercourse, drainage way, branch, creek, or stream including, but not limited to, the limits of the one percent floodplain.
 - b. Floodplain determination shall be based on the 100-year frequency storm event runoff and the existing land use conditions of all properties contributing to the point of consideration.
 - c. The design engineer is responsible for delineating the floodplain based on the most accurate information available.
2. Federal Emergency Management Agency
 - a. The Federal Emergency Management Agency (FEMA) maintains Flood Insurance Rate Maps (FIRMs) that depict floodplain and floodway boundaries. The floodplain and floodway boundaries depicted on FIRMs are based on existing conditions of development in the contributing area at the time the floodplain study that delineated the floodplain was completed.
 - b. FEMA reviews and approves or denies all revisions or amendments to FIRM's. FEMA revises or amends FIRM's by approval of a Letter of Map Amendment (LOMA) or Letter of Map Revision (LOMR). FEMA establishes the process and fees necessary for review of an application for a LOMA or LOMR.
 - c. FEMA reviews the impact of proposed site developments and offers or denies conditional assurance that a FIRM may be changed by the proposed development. FEMA offers this

assurance by a Conditional Letter of Map Amendment (CLOMA) or Conditional letter of Map Revision (CLOMR). The CLOMA or CLOMR is a conditional statement that the FIRM may be changed if: (1) the development is constructed as proposed in the CLOMA/CLOMR application; and (2) a complete LOMA/LOMR is submitted after construction of the proposed development.

- d. As the local floodplain administrator, the City must review and acknowledge certain LOMR or CLOMR requests. The City establishes the process necessary for review of an application for a LOMR or CLOMR.

3. Coordination of City of Taylor and FEMA Floodplain Delineations

- a. The 100-year floodplain as determined in accordance with this Manual is a standard for dedication of drainage easements. This floodplain is theoretically equal to the 100-year floodplain depicted by FEMA on the FIRM. If the floodplain on the FIRM extends beyond a drainage easement required by the Code, or offered by the applicant, then the floodplain depicted on the FIRM must be changed by FEMA. This requirement assures that floodplain boundaries and associated regulations are coordinated between the City of Taylor and FEMA. Floodplain mapping may be changed due to updated analysis of the floodplain under existing conditions, or due to land development activities that alter existing conditions.
- b. If the floodplain depicted on the FIRM is required to be changed due to updated analysis of the floodplain under existing conditions, then the following requirements are applicable:
 - (1) Prior to recordation of a final plat, the applicant must provide to the City a letter of acknowledgement by FEMA of receipt of a complete application for a LOMR.
 - (2) Prior to final acceptance of the construction of the subdivision or issuance of building permits, the applicant must provide to the City evidence of final acceptance by FEMA of the LOMR submitted.
- c. If the floodplain depicted on the FIRM is required to be changed due to land development activities that alter existing conditions, then the following requirements are applicable:
 - (1) Prior to approval of a final plat, the applicant must provide to the City either: evidence that the proposed land development activities do not increase the level of the FEMA floodplain; or a letter of acknowledgement by FEMA of receipt of a complete application for a CLOMR.
 - (2) Prior to the recordation of a final plat, the applicant must provide to the City evidence of approval of the CLOMR.
 - (3) If the final plat is approved before it is determined that a CLOMR is necessary or desired, then prior release of subdivision construction plans, the applicant must provide to the City a letter of acknowledgement by FEMA of receipt of a complete application for a CLOMR.
 - (4) Prior to final acceptance of the construction of the subdivision or issuance of building permits, the applicant must provide to the City evidence of final acceptance by FEMA of the CLOMR submitted, and a letter of acknowledgement by FEMA of a complete application for a LOMR.

8.21 DRAINAGE STUDY GUIDELINES

The purpose of a Drainage Study is to determine the requirements for drainage facilities, floodplain delineation, and/or drainage easements either within the proposed development or offsite. A Drainage Study is required for every subdivision plat or a development requesting a building permit on a parcel which does not have a previously approved Drainage Study, unless the city engineer has waived this requirement due to existing conditions. The Drainage Study shall be sealed and certified by a Professional Engineer licensed by the State of Texas and must be approved prior to Final Plat or issuance of a building permit. The analysis should consist of the following information:

1. Project Location. Provide project location depicted on a 7.5 minute series USGS or aerial map. Include land plan and limit of downstream drainage assessment.
2. Topographic Drainage Area Map: Providing the following:
 - a. Drainage Areas. Include overall drainage areas for the site and off-site areas and indicate area for each.
 - b. Time of Concentration Flow Paths. Depict flow paths with overland, sheet flow, and channel flow paths identified.
 - c. Points of Discharge. Include points of discharge to and from the site, and at other key hydrologic junctions. Points of discharge to directly correlate with discharge summary tables.
 - d. Land use type data. The map must include the subdivision and an area extending a minimum of two-hundred feet (200') in all directions from the proposed subdivision.
 - e. Sheet Size. Sheets shall be 22" X 34" in size and may contain sheet to sheet match lines.
 - f. Contours. The map must include contour lines at two foot (2') vertical intervals. The datum for topography shall be that of the United States Coast and Geodetic Survey or the City of Taylor GIS datum.
 - g. The map shall indicate any offsite or adjoining areas outside the limits of the area being developed which are drainage.
 - h. Show all significant physical features such as proposed or existing drainage and utility easements, water bodies, streams, railroads, parks, and drainage ditches.
 - i. Show location of existing utilities including gas and petroleum lines, electric, telephone and TV cable.
 - j. Show the location of any existing structures located within the area being proposed for development.
 - k. The plan shall include the building footprint and parking areas when the Drainage Study is prepared for a building permit.
 - l. Provide preliminary grading to sufficient detail to depict method proposed to convey stormwater runoff across development and to detention facilities and outfalls. Include arrows indicating the direction of flow. Provide location and footprint of all existing and proposed detention facilities. Provide overflow points and control elevations.
 - m. Floodplain
 - (1) Delineation of the City of Taylor 100-year floodplain for waterways with contributing drainage areas greater than sixty-four (64) acres.
 - (2) Identifying any special flood hazard areas as defined by the FEMA on their current Flood Insurance Rate Map.
3. Drainage Report - Provide the following:
 - a. Provide a narrative with the following information:
 - (1) Acreage to be developed, type of development, and explanation of any proposed project phasing.
 - (2) Watershed in which project is located, general soil conditions, and downstream channel conditions.
 - (3) Methods to be used for handling stormwater runoff (i.e. drainage easements, channels, curb inlets, storm drains, detention, etc.).
 - (4) Justification for exemptions from code requirements.

- (5) Provide a summary assessment of impact of development to upstream and downstream properties and facilities. Provide a downstream drainage assessment as described below.
 - (6) Source of floodplain information (calculations where applicable).
 - (7) Provide other relevant information to demonstrate compliance with the Drainage Design and Analysis Criteria section.
- b. Provide the following calculations:
- (1) Calculations supporting adequacy of existing and proposed on-site channels, storm drains, inlets, culverts, bridges, and other drainage structures.
 - (2) Calculations supporting adequacy of detention pond size. Provide percent impervious cover calculations. Provide hydrologic detention routing assumptions and results. Provide stage-storage-discharge information for detention facilities, including information for each outlet component (i.e. conduit, orifice, weirs, and spillways).
 - (3) Calculations for floodplain modifications and cross sections.
 - (4) Calculations of existing flows. Provide existing and proposed drainage areas, time of concentration calculations, impervious cover, and runoff coefficients. Provide rainfall and hydrograph development assumptions.
 - (5) Calculations of off-site flows.
 - (6) Provide source/documentation for all parameters used in calculations if not in City of Taylor Engineering Manual.
 - (7) Provide hydrologic and hydraulic model files (preferably HEC-HMS and HEC-RAS).
- c. Provide a downstream assessment:
- (1) A downstream drainage assessment shall extend from the outfall of the subdivision to a point downstream, determined by one of two methods:
 - i. Zone of Influence - Point downstream where the discharge from a proposed development no longer has a significant impact upon the receiving stream or storm drainage system. The zone of influence can initially be assumed to be the point where the drainage area controlled by the detention facility comprises ten percent (10%) of the total drainage area.
 - ii. Adequate Outfall - Location of acceptable outfall that does not create adverse flooding or erosion conditions downstream.
 - (2) Downstream Assessment Steps
 - i. Determine the outfall location of the site and the pre- and post-development site conditions.
 - ii. Using a topographic map, determine a preliminary lower limit of the zone of influence using the initial ten percent (10%) estimate.
 - iii. Using a hydrologic model determine the pre-development peak flows at each junction beginning at the development outfall and ending at the next junction beyond the preliminary lower limit of the zone of influence (10% point). Evaluate discharges for the 2-, 10-, 25-, and 100-year frequency storms.
 - iv. Change the land use on the subdivision site to post-development conditions and rerun the model.
 - v. Compare the pre- and post-development peak discharges at the downstream end of the model. If the post-developed flows are higher than the pre-developed flows

for the same frequency event, extend the model downstream. Repeat steps 3 and 4 until the post-development flows are less than the pre-developed flows.

- vi. Add proposed storm water management facilities to the model designed so that the model shows that adverse effects are mitigated. Adverse effects can be shown to be mitigated if peak water surface elevations are not increased off site (< 0.005 foot rise) and if peak flow rates at the downstream limit of the zone of influence are not increased.

4. FEMA Floodplain

- a. FEMA Floodplain. If any portion of the proposed subdivision or its offsite improvements (including pipes or ditches) fall within the limits of a FEMA floodplain, additional backwater calculations will be required. Prior to approval of a final plat, the applicant must provide to the City either: evidence that the proposed land development activities do not increase the level of the FEMA floodplain; or a letter of acknowledgement by FEMA of receipt of a complete application for a CLOMR.
- b. If the floodplain on the FIRM extends beyond a drainage easement required by the Code, or offered by the applicant, then the floodplain depicted on the FIRM must be changed by FEMA. See Section 8.20 for coordination requirements.
- c. Backwater calculations shall comply with normally accepted standards as required by FEMA for application for a Letter of Map Revision (LOMR). In addition, the calculations must begin with a previously defined Base Flood Elevation (BFE). The calculations shall continue upstream through the project until the proposed BFE is within 0.01 feet of the existing BFE or the limits of the existing Zone 'A' have been reached. A LOMR will be required prior to issuing building permits.

8.22 CERTIFICATION

All drainage studies and/or plans including those which are part of a standard construction plan submittal shall be sealed and signed by an engineer proficient in civil engineering and Licensed in the State of Texas. All drainage submittals shall include the following certifying statement by the "Engineer of Record".

DISCLAIMER OF LIABILITY

The degree of flood protection required by this policy is considered reasonable for regulatory purposes and is based on scientific and engineering considerations. On rare occasions greater floods can and will occur and flood heights may be increased by man-made or natural causes. This policy does not imply that land outside the areas of street rights-of-way, drainage or flood plain easements will be free from flooding or flood damages. This policy shall not create liability on the part of the City of Taylor, Texas or any official or employee thereof for any flood damages that result from reliance on this policy or any administrative decision lawfully made there under.

8.23 TRENCH SAFETY

In conformance with House Bills 662 and 665 as passed by the Seventieth Legislature Regular Session of the State of Texas, all construction projects within the City of Taylor or its extraterritorial jurisdiction as provided by the Municipal Annexation Act (Article 970a, Vernon's Texas Civil Statutes) shall contain provisions for trench safety. On construction projects in which trench excavation will exceed a depth of five feet (5'), the uniform set of general conditions must require that the bid documents and the contract include detailed plans and specifications for adequate safety systems that meet Occupational Safety and Health Administration standards and that these plans and specifications include a pay item for these same safety systems.

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GENERAL CONSTRUCTION NOTES
Revised July 2009

1. General Contractor shall call for all utility locates prior to any construction. Water & wastewater owned by the City of Taylor can be located by calling the Utility Department 512-352-3251. Allow three business days for utility locates by the City of Taylor.
2. All construction shall be in accordance with the latest City of Taylor ENGINEERING MANUAL.
3. The contractor shall give the City a minimum of 48 hours notice before beginning each phase of construction. The phases of construction are as follows:
4. Prior to City acceptance of all improvements, all graded and disturbed areas are to be re-vegetated in accordance with the City of Austin Specification Item #604 unless another re-vegetation specification is specifically identified in the plans and/or bid form. When appropriate in the opinion of the Public Works Department, the City of Taylor may require native grasses to be used.
5. The Contractor shall provide the City of Taylor copies of all test results prior to acceptance of this project.
6. City, owner, engineer, contractor, representatives of all utility companies, and a representative from the testing lab shall attend pre-construction conference prior to start of construction. The contractor shall schedule the meeting with the City of Taylor Engineering Department 48 hours prior to this pre-construction meeting (512-352-3633).
7. Excess soil shall be removed at the contractor's expense. Notify the City of Taylor for approval if the disposal site is inside the City's jurisdictional boundaries.
8. Burning is prohibited. No blasting is allowed.
9. Any changes or revisions to these plans must first be submitted to the City by the design engineer for review and written approval.
10. The Contractor will reimburse the City for all cost incurred as a result of any damage to any City utility by the Contractor, regardless of these plans.
11. Prior to City acceptance of this project, an engineer's concurrence letter and 22"x34" record drawings (one Mylar copy, one blue-line or Xerox, and a digital copy on a CD ROM) shall be submitted to the Engineering Department. The Consulting Engineer and Contractor shall verify that all final revisions and changes have been made to the Mylar, blue-line, and digital copy prior

to City submittal. Record construction drawings shall be provided to the City in digital format as AutoCad ".dwg" files, or ESRI ".shp" files on CD ROM. Line weights, line types and text size shall be such that if half-size prints (11" x 17") were produced, the plans would still be legible. All required digital files shall contain a minimum of two (2) control points referenced to the State Plane Grid Coordinate System - Texas Central Zone (4203), in US feet and shall include rotation information and scale factor required to reduce surface coordinates to grid coordinates in US feet. Half-size plans may also be required (see contract).

12. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF TAYLOR MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
13. A traffic control plan, in accordance with the Texas Manual on Uniform Traffic Control Devices, shall be submitted to the City for review and approval prior to any partial or complete roadway closures.
14. The contractor shall keep the site clean and maintained at all times, to the satisfaction of the City. This project will not be accepted until the site has been cleaned and re-vegetated to the satisfaction of the City.
15. Signs are not permitted in Public Utility Easements or Drainage Easements.
16. Inspect temporary erosion controls on a daily basis. Adjust the controls and/or remove any sediment buildup as necessary.
17. Contractor will be responsible for keeping roads and drives adjacent to and near the site free from soil, sediment and debris. Contractor will not remove soil, sediment or debris from any area or vehicle by means of water, only shoveling and sweeping will be allowed. Contractor will be responsible for dust control from the site.
18. The Contractor shall be responsible for all damage to private property, which occurred as a result of any portion of this project. Any damage to private property shall be repaired to equal or better condition. The Contractor shall coordinate all repairs to private property with the property owner. Contractor shall pay and/or settle with private property owner for all costs related to any damage. The City will not provide separate pay for repair of any damages, reimbursements or settlements.
19. Contractor shall provide the services of the City's approved SCADA consultant and controls instrumentation consultant. (When applicable to SCADA) The cost of the consultant and/or any equipment shall be subsidiary to the cost of the project (no separate pay) unless specifically identified on the bid form.
20. Contractor shall be responsible for any and all utility relocations. Including but not limited to: ONCOR Electric, ATMOS Gas, AT&T Telephone, United States Post Office, Time Warner Cable Television, City of Taylor Water & Wastewater. Contractor shall call 800-DIG-TESS and maintain all confirmation numbers.
21. If telephone service is required by this project, the contractor shall coordinate with phone company to provide/extend/re-locate the service. No separate pay will be provided and the City shall not be responsible for scheduling or coordinating with phone company.
22. Electric and/or telephone poles that need to be re-located for this project will be at the expense of the contractor. The City of Taylor will not provide separate pay for pole re-location and the cost of the relocation is considered subsidiary to the project bid. The contractor is responsible for identifying poles that may conflict with these plans and making arrangements to resolve the conflict with the appropriate utility. If electric, telephone, or CATV service will be interrupted as a result of the re-location; the City shall approve the maximum allowable time the service will be interrupted.
23. The contractor shall make applications to the electric company for electric service if new service is required. The City will assume the service upon acceptance of the project (if required). The contractor will pay for electric power until the meter is transferred to the City of Taylor. Impact

fees and Application Fees required by the electric company will be the responsibility of the Contractor unless specifically identified in the contract.

24. The contractor shall provide combination locks for all gates, hatches, vaults, and MCC boxes. Each lock shall be pre-approved and set to the City's requirements. (No separate pay)
25. All work on these plans shall be performed. Pay for work shown on these plans, which are not identified in the contract, shall be considered incidental to the items specifically identified for payment.
26. The contractor shall provide a competent and qualified superintendent to supervise all work. The superintendent shall be present during all construction activities.
27. Any survey monuments damaged or moved as a result of this project shall be replaced to equal or better condition. A Texas Registered Land Surveyor shall oversee the replacement and certify the replacement for its intended use. No separate pay will be provided.
28. Adequate drainage conditions, in accordance with the City Engineering Manual, shall be maintained at all times.
29. Any tree removed or damaged by this project, which is not specifically identified to be removed by the plans, will be replaced according to the requirements of the City of Taylor Code of Ordinances. No separate pay will be provided.
30. **The contractor shall uncover all utilities within the limits of construction and verify their location prior to any construction activities. The contractor shall notify the City and the Engineer, IN WRITING, of any conflicts prior to any other construction including but not limited to exact locations of conflicts with proposed or existing utilities. No additional pay unless specifically identified for payment in the contract documents. The contractor shall also make his own sub-surface investigation prior to bid.**
31. Only stainless steel casing spacers are allowed in encasement pipe(s).
32. No separate pay will be given to de-water trenches or other excavated areas.
33. Soil material imported for re-vegetation of disturbed areas shall be approved by the Public Works department prior to placement. A sample (submittal) is required.
34. The contractor shall perform pumping stations and/or lift station start-up independently: prior to requesting witness or acceptance by the City. When a final start-up fails to be complete and acceptable and when City personnel are present at start-up, each additional start-up will be charged to the contractor, as liquidated damages, \$500.00 per additional meeting.
35. Shutout of any customers of the City's utility due to tie-ins shall only be scheduled for nighttime work unless approved by the Engineering Department. The City's field representative shall coordinate and inspect all nighttime shutouts and tie-ins. The contractor shall request shutouts two weeks in advance. Shutouts will only be allowed in the following times and are subject to approval by the City: 10 PM - 6 AM; beginning on Tuesday, Wednesday or Thursday night(s). No extra time will be granted to the contract for unscheduled work in the time period allowed or due to requests outside the approved time periods.

Street Notes:

1. No trenching of compacted base will be allowed. A penalty and/or fine may be imposed to the general contractor if trenching of compacted base occurs without City approval, regardless of who performed the trenching.
2. All sidewalks shall comply with the Americans With Disabilities Act. The City of Taylor has NOT reviewed these plans for compliance with the Americans With Disabilities Act, or any other accessibility legislation, and does not warrant or approve these plans for any accessibility standards.

3. Street barricades shall be installed on all dead end streets and as necessary during construction to maintain job safety.
4. Any damage caused to existing pavement, curbs, sidewalks, ramps, etc., shall be repaired by the contractor to the satisfaction of the City prior to acceptance of this project.
5. Density testing of compacted subgrade material, first course and second course compacted base, shall be made at 500 foot intervals. Any failed tests will be re-tested at the expense of the contractor.
6. The contractor shall coordinate with the City's field representative 48 hours prior to scheduled density testing. The City's field representative shall witness all testing.
7. The CONTRACTOR shall schedule all testing with an approved materials testing laboratory and notify the City's field representative of the time and location of all tests.
8. Traffic control signs and pavement markings in accordance with the Texas Manual on Uniform Traffic Control Devices to be installed as directed by the City of Taylor prior to City acceptance of this project.
9. Slope of natural ground adjacent to the right-of-way shall not exceed 4:1. If a 4:1 slope is not possible, a retaining wall or some other form of slope protection approved by the City shall be placed in a location acceptable to the City.
10. The City, engineer, contractor, and a representative from the testing lab shall attend a pre-paving conference prior to the start of paving. The contractor shall give the City's field representative 48 hours notice prior to this meeting.
11. Failed tests shall be the financial responsibility of the contractor.

Wastewater Notes:

1. The contractor, with City approval, shall raise manhole frames and covers and water valve boxes to finished pavement grade at the contractor's expense. All utility adjustments shall be completed prior to final paving construction.
2. The location of any existing utility lines shown on these plans may not be accurate. Any damage to existing utility lines, both known and unknown, shall be repaired at the expense of the contractor. The contractor shall locate all utilities prior to bidding the project.
3. All iron pipe and fittings shall be wrapped with at least 8-mil polyethylene wrap, according to the COA Specification.
4. All water mains, wastewater mains and service lines shall meet City of Taylor minimum cover specifications. All streets are to be cut to subgrade prior to installation of water mains.
5. All wastewater lines shall be TV Video taped according to COA 510. The contractor shall supply two copies to the City's Field Representative.
6. Gasketed PVC sewer main fittings shall be used to connect SDR-35 PVC to SDR-26 PVC pressure pipe or C-900.
7. SDR-35 WW is not allowed.
8. All sanitary sewers, excluding service lines, shall be mandrel tested per TCEQ criteria. A mandrel test will not be performed until backfill has been in place for a minimum of 30 days.
9. All sanitary sewers, including service lines, shall be air tested per City of Austin Standard Specifications.
10. Density testing of compacted backfill shall be made at a rate of one test per two foot lifts per 500 feet of installed pipe, unless specified otherwise by the City.
11. City to be given 48 hours notice prior to all testing of water and wastewater lines. City inspection is required for all testing of water and wastewater lines.

12. Water or wastewater line crossings shall be installed per TCEQ requirements.
13. All manhole lids outside the pavement shall be bolted.
14. Contractor to notify City of Taylor 48 hours prior to connecting to existing utilities. Inspection of connections to existing utilities is required.
15. All pipe bedding material shall conform to City of Austin Standard Specifications.
16. Unless otherwise specified by the Engineer all concrete is to be Class "A" (5 sack, 3000 psi ~ 28-days), and all reinforcing steel to be ASTM A615 60.
17. Piping in and around lift station valve vaults will be painted and/or coated to the City's specifications.
18. MCC's, junction boxes or any housing for electrical components shall be NEMA 4X stainless steel. Painted metal or any other type of box will not be accepted unless specifically identified in the plans.

Water Notes:

1. The top of valve stems shall be at least 18", and no more than 36", below finished grade. Valve stem risers shall be welded on each end to the City's satisfaction.
2. Fire hydrant leads to be ductile iron, Class 350, and installed per City of Taylor standard specifications and detail.
3. The contractor shall provide cuts for all water lines and FH bury lines in accordance with the contract.
4. Approved 5 1/4" fire hydrants: American Flow Control, B84B Mueller Company, Super Centurion 250, Clow Medallion Hydrant.
5. *All fire hydrants must meet City of Taylor thread specifications (National Thread)
6. *Blue reflector markers shall be located on the centerline of the pavement across from all fire hydrants. Pavement markers at intersections shall be four-sided.
7. All water lines, including service lines, shall be pressure and leak tested per City of Austin Standard Specifications and witnessed by the City of Taylor representative. All failed tests shall be the fiscal responsibility of the contractor, and the contractor may be required to re-test lines if the testing is not witnessed by the City. Contractor must notify the City of Taylor 48 hours prior to any testing.
8. All water lines shall be sterilized and bacteriologically tested in accordance with City of Austin Standards. The contractor is responsible for sterilization and the City of Taylor is responsible for submitting bacteriological samples to the State unless otherwise approved by the Engineering department.
9. All water valve risers not in pavement shall be set in concrete in accordance with the City's specifications and details. The standard detail is available on the City's web site.
10. Density testing of compacted backfill shall be made at a rate of one test per two foot lifts per 500 feet of installed pipe unless otherwise approved by the Public Works department.
11. Contractor to obtain a water meter from the City of Taylor for any water that may be required during construction. (512-352-3251)
12. All water pipe and appurtenances larger than 12" shall have a maximum operating pressure greater than 250 psi unless specifically identified on the bid form.
13. Manhole frames and covers and water valve boxes shall be raised to finished pavement grade at the contractor's expense with City inspection. All utility adjustments shall be completed prior to final paving construction.

14. The location of any existing utility lines shown on these plans is the best available and may not be totally accurate. Any damage to existing utility lines, both known and unknown shall be repaired at the expense of the contractor. The Engineer and/or the City make no guarantee or warranty to the accuracy of these plans.
15. All iron pipe and fittings shall be wrapped with at least 8-mil polyethylene wrap in accordance with the COA specification.
16. All water mains, wastewater mains and service lines shall meet City of Austin Specifications minimum cover requirements. All streets are to be cut to subgrade prior to installation of water mains.
17. City to be given 48 hours notice prior to all testing of water and wastewater lines. City inspection is required for all testing of water and wastewater lines.
18. All water valves over 24" in size shall have a by-pass line and valve installed. By-pass valves and lines are subsidiary to the cost of the valve unless specifically identified on the bid form.
19. Contractor to notify City of Taylor 48 hours prior to connecting to existing utilities. Inspection is required.
20. All pipe bedding material shall conform to City of Taylor Standard Details.
21. Tracer tape shall be installed on all water and wastewater mains in accordance with City of Austin Standards regardless of the type of pipe or depth of pipe installed.
22. Unless otherwise specified by the Engineer all concrete is to be Class "A" (5 sack, 3000 psi ~ 28-days), and all reinforcing steel to be ASTM A615 60.
23. The City considers protection of its water system paramount to construction activities. City personnel will operate, or authorize the contractor to operate, all water valves that will pass through the City's potable water. The contractor may not operate any water valve, existing or proposed, that will allow water from the City's water system to flow to a proposed or existing water system without the express consent of the City. Notify the City two business days in advance of any request to operate a water valve. The general contractor may be fined \$500 or more, including additional theft of water fines, if a water valve is operated in an unauthorized manner, regardless of who operated the valve.

Storm Sewer Notes:

1. The contractor with City inspection shall raise manhole frames and covers and water valve boxes to finished pavement grade. All utility adjustments shall be completed prior to final paving construction. The contractor will backfill around manholes and junction boxes with Class A concrete.
2. All manhole lids shall be 32" or larger, unless expressly approved in writing by the Engineering Department. All lids outside the pavement will be bolted.
3. The location of any existing utility lines shown on these plans is the best available and may not be totally accurate. Any damage to existing utility lines, both known and unknown, shall be repaired at the expense of the contractor.
4. Contractor to notify City of Taylor 48 hours prior to connecting to existing utilities.
5. All pipe bedding material shall conform to City of Taylor Standard Details.
6. Unless otherwise specified by the Engineer all concrete is to be Class "A" (5 sack, 3000 psi ~ 28-days), and all reinforcing steel to be ASTM A615 60.
7. Contractor to install and maintain geo-textile fabric barrier (inlet protection) around storm sewer leads and inlets to prevent silt and other material from entering the storm sewer collection system.

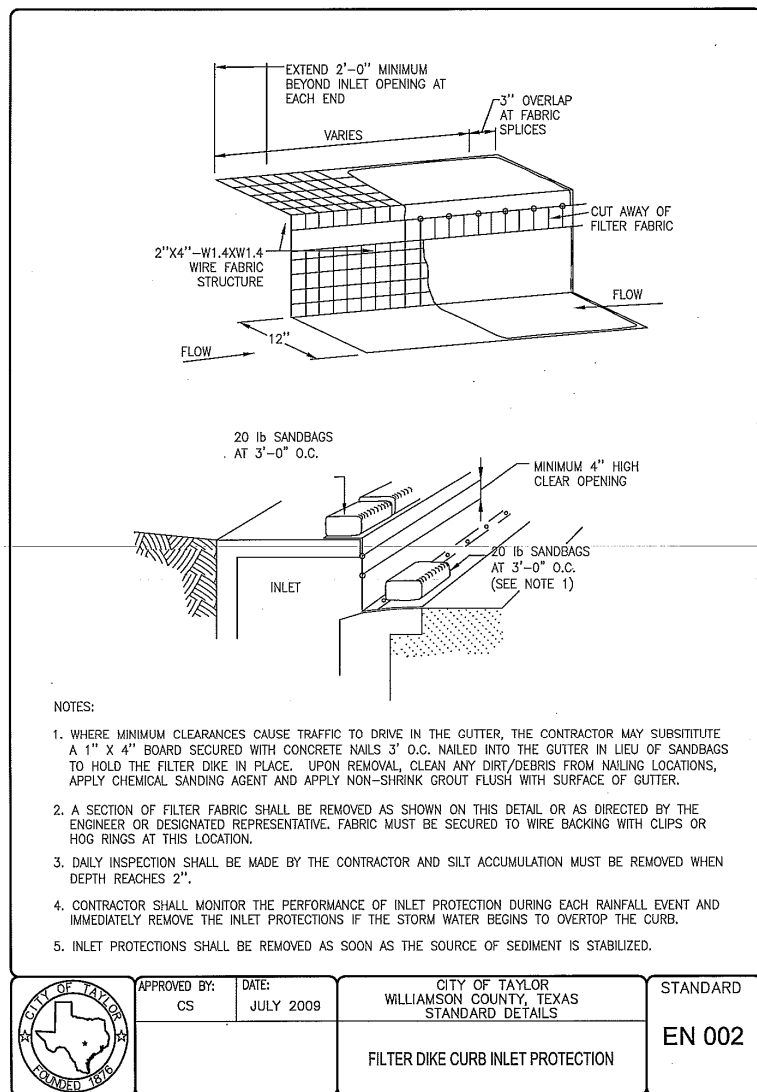
INSTALLATION:

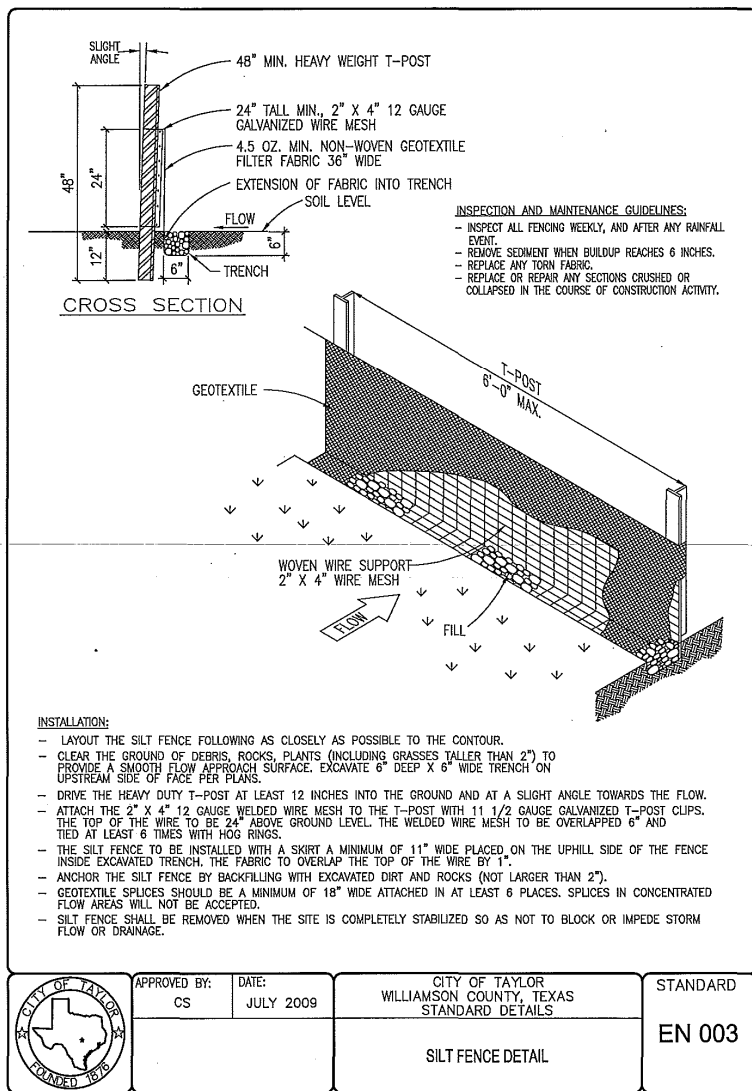
- CLEAR THE AREA OF DEBRIS, ROCKS OR PLANTS THAT WILL INTERFERE WITH INSTALLATION.
- GRADE THE AREA FOR THE ENTRANCE TO FLOW BACK ON TO THE CONSTRUCTION SITE. RUNOFF FROM THE STABILIZED CONSTRUCTION ENTRANCE ONTO A PUBLIC STREET WILL NOT BE ACCEPTED.
- PLACE GEOTEXTILE FABRIC AS APPROVED BY THE CITY.
- PLACE ROCK AS APPROVED BY THE CITY.

INSPECTIONS AND MAINTENANCE GUIDELINES:

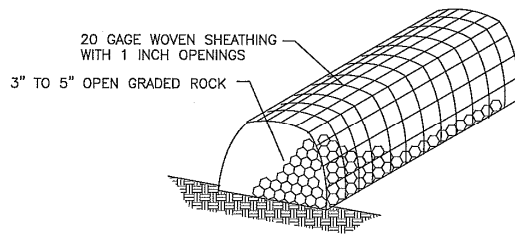
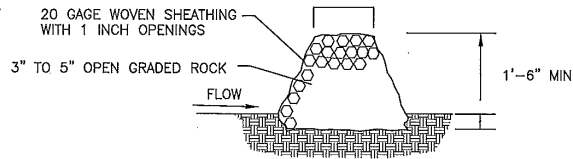
- THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION, WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ON TO PUBLIC RIGHTS-OF-WAY SHOULD BE REMOVED IMMEDIATELY BY CONTRACTOR.
- WHEN NECESSARY, WHEELS SHOULD BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY.
- WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
- ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATER COURSE BY USING APPROVED METHODS.

	APPROVED BY:	DATE:	CITY OF TAYLOR WILLIAMSON COUNTY, TEXAS STANDARD DETAILS	STANDARD EN 001
	CS	JULY 2009		





Field Code Changed



INSTALLATION:

- LAYOUT OF ROCK BERM FOLLOWING AS CLOSELY AS POSSIBLE TO THE CONTOUR.
- CLEAR THE AREA OF DEBRIS, ROCKS OR PLANTS THAT WILL INTERFERE WITH INSTALLATION.
- PLACE WOVEN WIRE FABRIC ON THE GROUND ALONG THE PROPOSED INSTALLATION WITH ENOUGH OVERLAP TO COMPLETELY ENCIRCLE THE FINISHED SIZE OF THE BERM.
- PLACE THE ROCK ALONG THE CENTER OF THE WIRE TO THE DESIGNATED HEIGHT.
- WRAP THE STRUCTURE WITH THE PREVIOUSLY PLACED WIRE MESH SECURE ENOUGH SO THAT WHEN WALKED ACROSS THE STRUCTURE RETAINS IT'S SHAPE.
- SECURE WITH TIE WIRE.
- THE ENDS OF THE BERM SHOULD BE TIED INTO EXISTING UPSLOPE GRADE AND THE BERM SHOULD BE BURIED IN A TRENCH APPROX. 4 INCHES DEEP TO PREVENT FAILURE OF THE CONTROL.
- THE ROCK BERM SHOULD BE LEFT IN PLACE UNTIL ALL UPSTREAM AREAS ARE STABILIZED AND ACCUMULATED SILT IS REMOVED.

INSPECTIONS AND MAINTENANCE GUIDELINES:

- INSPECTION SHOULD BE MADE WEEKLY AND AFTER EACH RAINFALL EVENT BY THE RESPONSIBLE PARTY. FOR INSTALLATION IN STREAM BEDS, ADDITIONAL DAILY INSPECTIONS SHOULD BE MADE.
- REMOVE SEDIMENT AND OTHER DEBRIS WHEN BUILDUP REACHES 6 INCHES AND DISPOSE OF THE ACCUMULATED SILT IN AN APPROVED MANNER.
- REPAIR ANY LOOSE WIRE SHEATHING.
- THE BERM SHOULD BE RESHAPED AS NEEDED DURING INSPECTION.
- THE BERM SHOULD BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.



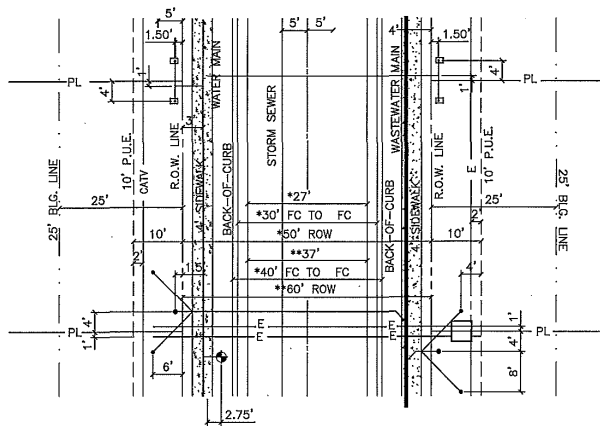
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CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

ROCK BERM DETAIL

STANDARD

EN 004



MINIMUM COVER BELOW FINISH-GRADE

ELECTRIC PRIMARY	36"
ELECTRIC SECONDARY	24"
WATER	48"
WASTEWATER	48"
STORM SEWER	36"
GAS	24"
TELECOMMUNICATIONS	24"



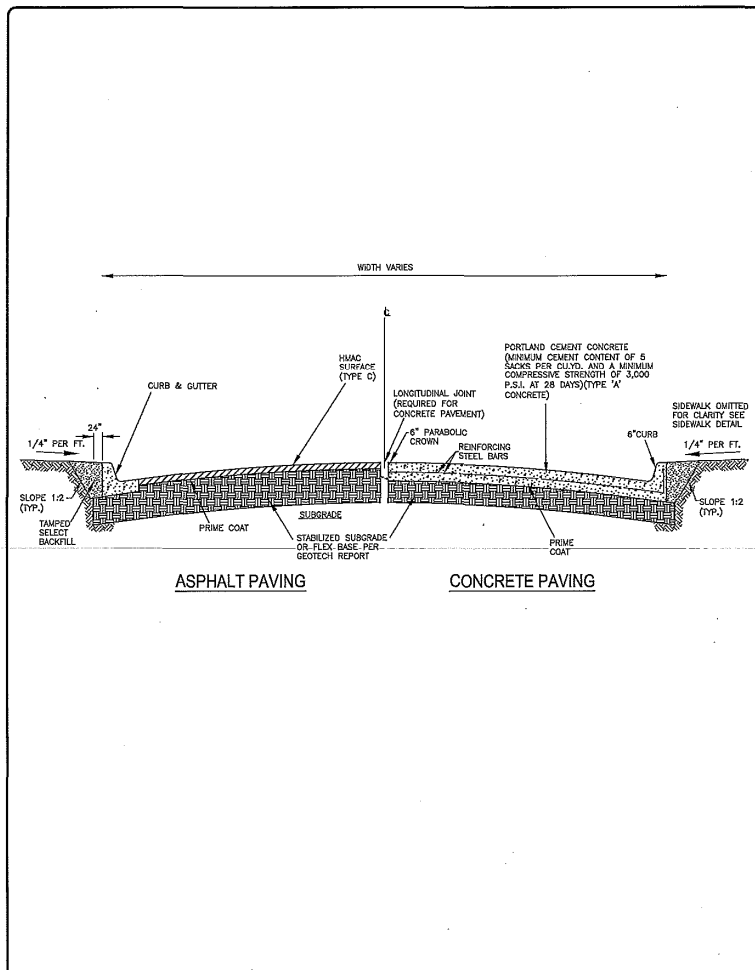
APPROVED BY: CS
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CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

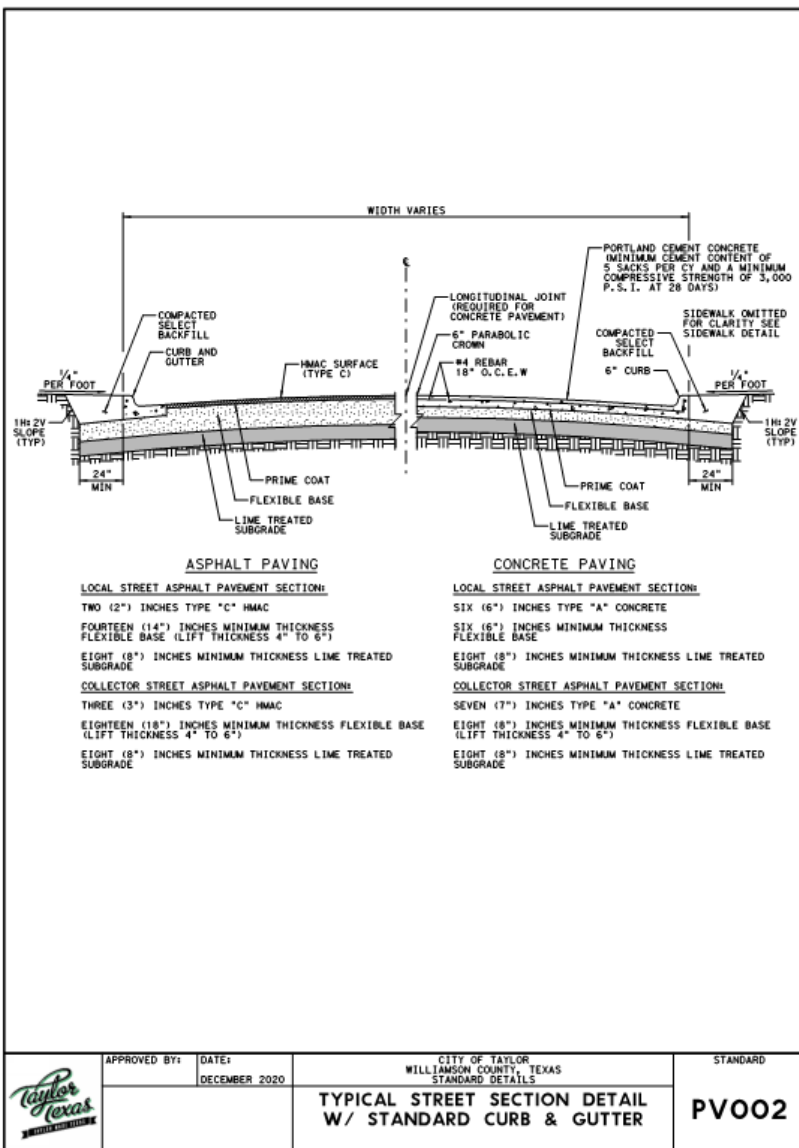
TYPICAL STREET LAYOUT
AND UTILITY ASSIGNMENTS

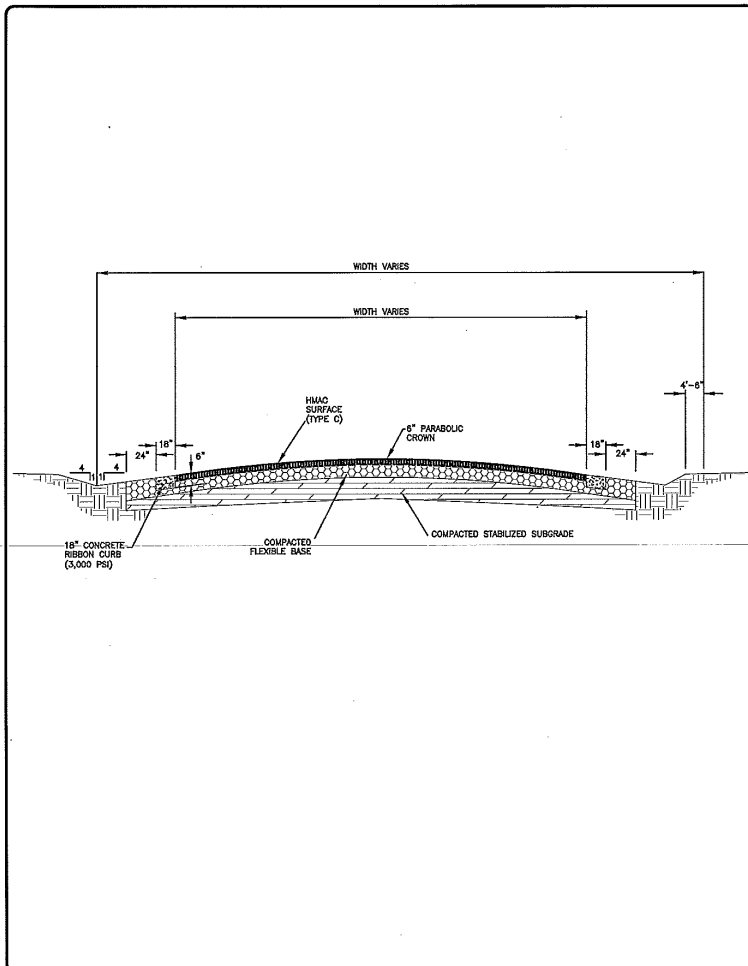
STANDARD

PV 001



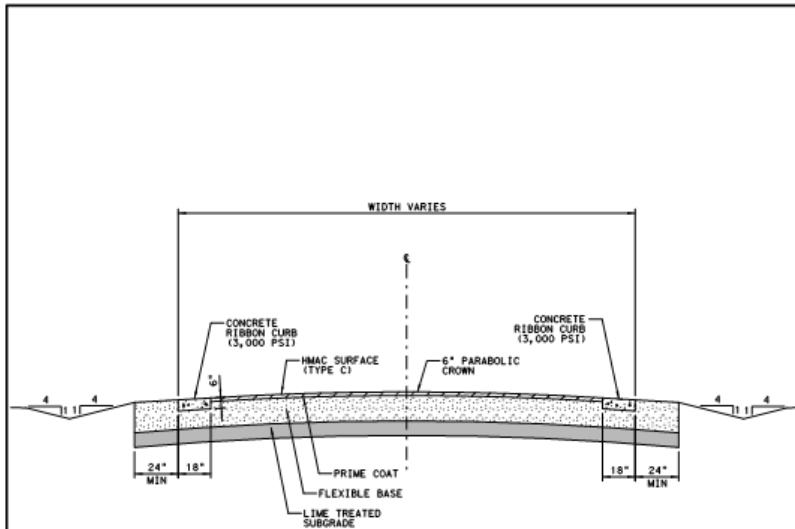
	APPROVED BY: CS	DATE: JULY 2009	CITY OF TAYLOR WILLIAMSON COUNTY, TEXAS STANDARD DETAILS TYPICAL STREET SECTION DETAIL W / STANDARD CURB & GUTTER	STANDARD PV 002
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	CS	JULY 2009		

TYPICAL STREET SECTION DETAIL
W / RIBBON CURB



ASPHALT PAVEMENT SECTION

LOCAL STREET ASPHALT PAVEMENT SECTION:

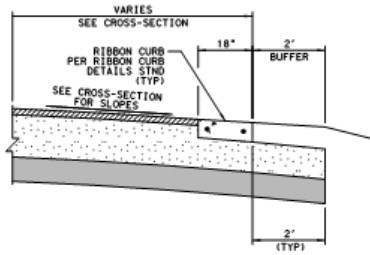
TWO (2") INCHES TYPE "C" HMA
 FOURTEEN (14") INCHES MINIMUM THICKNESS
 FLEXIBLE BASE (LIFT THICKNESS 4" TO 6")
 EIGHT (8") INCHES MINIMUM THICKNESS LIME TREATED
 SUBGRADE

COLLECTOR STREET ASPHALT PAVEMENT SECTION:

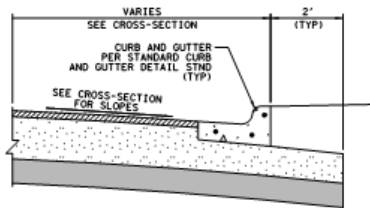
THREE (3") INCHES TYPE "C" HMA
 EIGHTEEN (18") INCHES MINIMUM THICKNESS FLEXIBLE BASE
 (LIFT THICKNESS 4" TO 6")
 EIGHT (8") INCHES MINIMUM THICKNESS LIME TREATED
 SUBGRADE

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		DECEMBER 2020		PV003

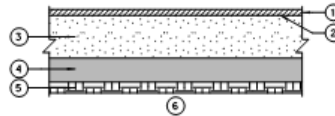
TYPICAL STREET SECTION DETAIL
 W/ RIBBON CURB



TYPICAL STREET SECTION
WITH RIBBON CURB



TYPICAL STREET SECTION
WITH STANDARD CURB AND GUTTER

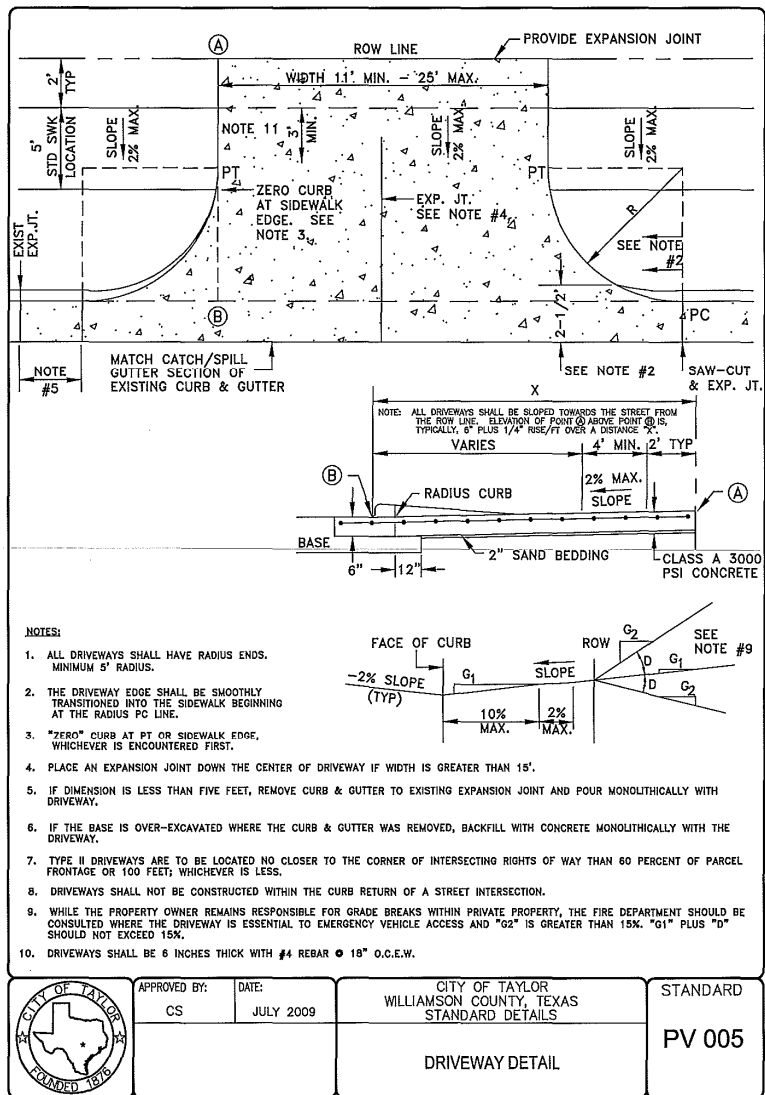


HMAC PAVEMENT SECTION

NOTES:

- ① TYPE "C" HOT MIX ASPHALTIC CONCRETE ACCORDING TO TxDOT SPECIFICATION FOR "DENSE-GRADED HOT-MIX ASPHALT".
- ② MC-30 PRIME COAT ACCORDING TO TxDOT SPECIFICATION "PRIME COAT" WILL BE APPLIED AT A RATE OF 0.25 GALLON/SQUARE YARD. (RATE WILL BE ADJUSTED IN THE FIELD TO PROVIDE UNIFORM COVERAGE WITHOUT RUNOFF AS APPROVED BY THE ENGINEER).
- ③ FLEXIBLE BASE ACCORDING TO TxDOT SPECIFICATION FOR "FLEXIBLE BASE". LIFT THICKNESS TO BE 4" TO 6", AND EACH LIFT COMPACTED TO 100% FOR THE MAXIMUM DRY DENSITY. USE TYPE A, GRADE 5 UNLESS OTHERWISE SHOWN. EXTEND BASE TWO FEET (24") INCHES PAST THE BACK OF CURB LINE.
- ④ LIME TREATED SUBGRADE ACCORDING TO TxDOT SPECIFICATION "LIME TREATMENT (ROAD MIXED)". APPLY LIME AT THE RECOMMENDED PERCENTAGE STATED IN THE APPROVED PAVEMENT DESIGN REPORT. ADJUST LIME APPLICATION AS DIRECTED BY THE CITY DURING CONSTRUCTION.
- ⑤ FILL SECTIONS WILL BE FREE OF VEGETATION OR ORGANICS. PROVIDE THE REQUIRED DENSITY AND MOISTURE CONTROL FOR THE SUBGRADE BASED ON THE PLASTICITY CHARACTERISTICS OF THE APPROVED SUBGRADE MATERIAL. SPRINKLE THE SUBGRADE MATERIAL AND COMPACT TO THE EXTENT NECESSARY TO PROVIDE THE DENSITY SPECIFIED IN THE ENGINEERING MANUAL FOR THE SPECIFIC STREET CLASSIFICATION USED.
- ⑥ EXISTING UNDISTURBED SOIL.

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		DECEMBER 2020		
	PAVEMENT SECTIONS			PV004

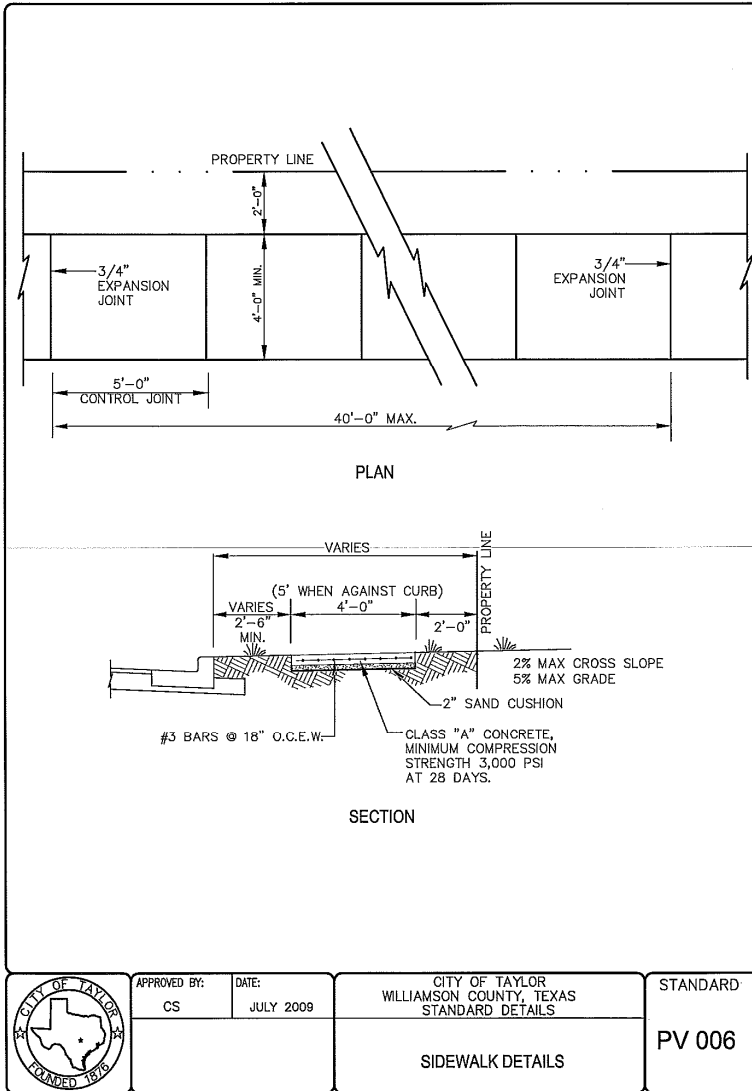


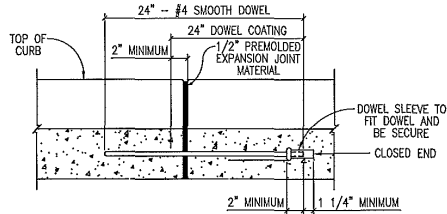
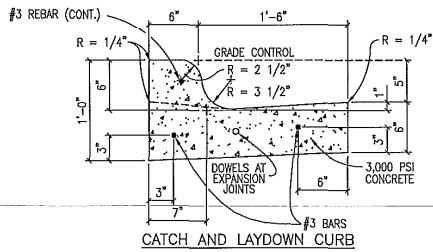
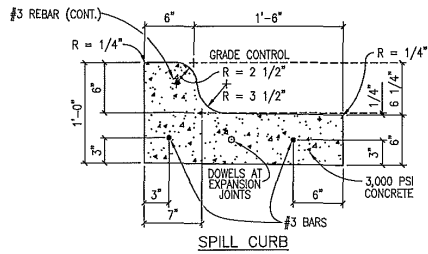
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DATE: JULY 2009

CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

DRIVEWAY DETAIL

STANDARD
PV 005





CURB DOWEL DETAIL

NOTES:

1. EXPANSION JOINT INTERVALS NOT TO EXCEED 40'-0".
2. 4" MINIMUM FLEX BASE UNDER CURB AND GUTTER.



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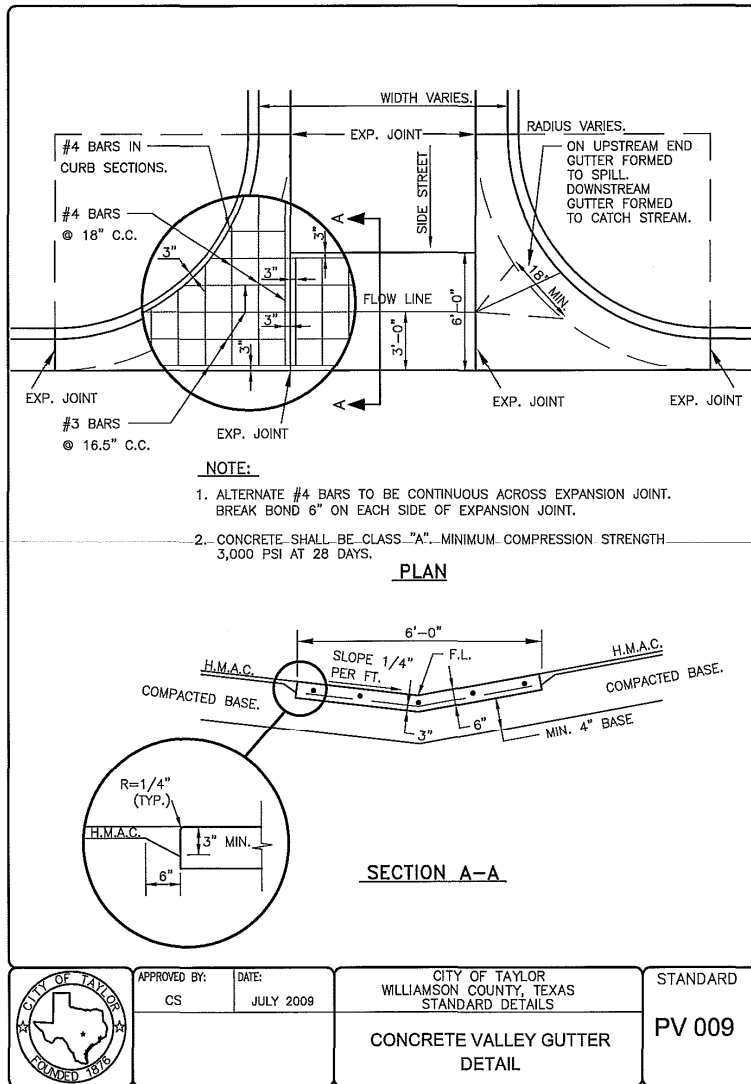
CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

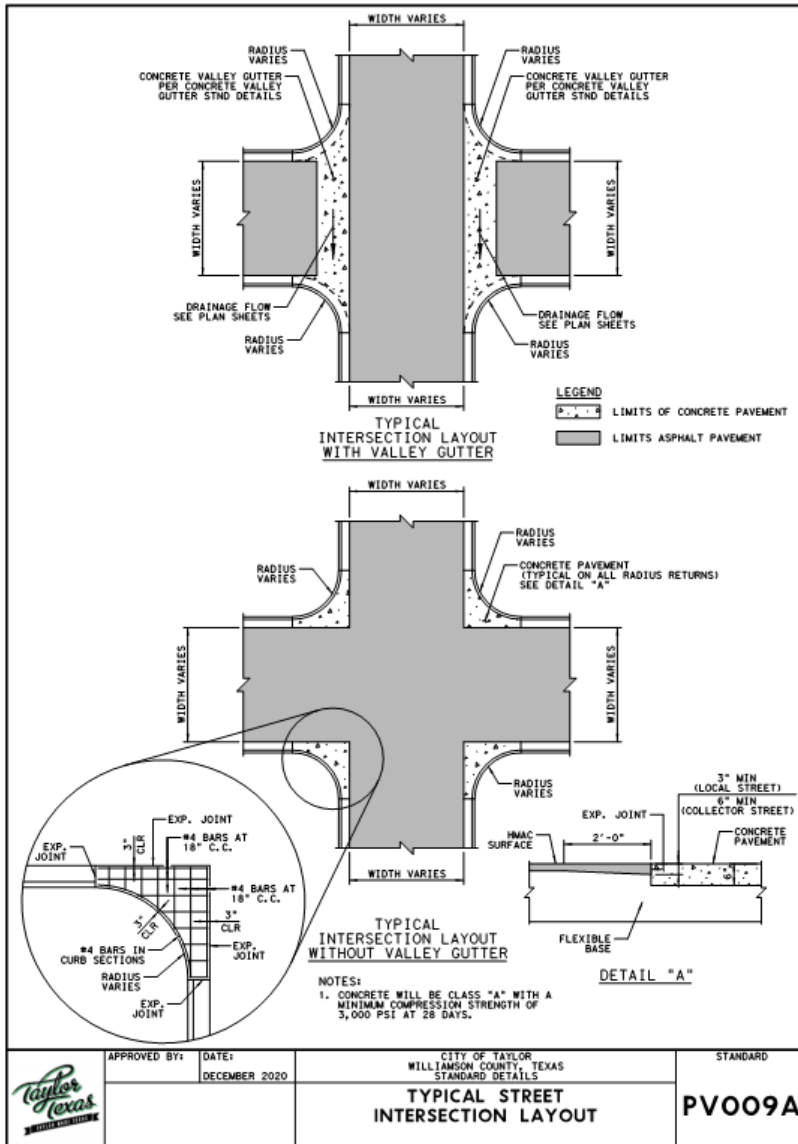
STANDARD CURB AND GUTTER DETAIL

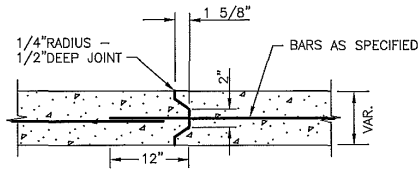
STANDARD

PV 007

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	CS	JULY 2009		







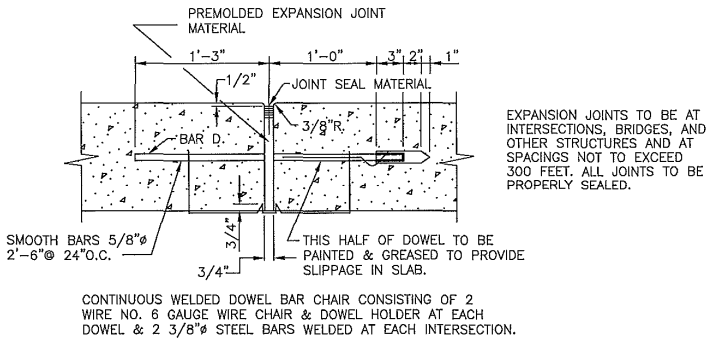
NOTE:
CONTRACTOR SHALL PROVIDE TRANSVERSE CONSTRUCTION JOINT SIMILAR IN
DETAIL TO LONGITUDINAL CONSTRUCTION JT. OR EXPANSION JT. AT THE END
OF EACH DAYS POUR OR WHEN DIRECTED BY ENGINEERS.

GENERAL NOTES:

1. CONCRETE OR BRICK CHAIRS APPROVED BY THE ENGINEER SHALL BE USED TO SUPPORT REINFORCING STEEL AND SHALL BE PLACED AT THE INTERSECTION OF LONGITUDINAL AND TRANSVERSE BARS AT SPACING AT 3'-8" LONGITUDINALLY AND 4'-0" TRANSVERSELY.
2. PAVEMENT LAYOUT WILL NECESSITATE THAT ALL CONSTRUCTION AND WARPING JOINTS COINCIDE WITH LANE LINES - THRU LANE CONSTRUCTION WILL BE CONTINUOUS WITH ALL LEFT TURN LANES AND TRANSITIONS TO BE POURED AS FILL-INS SUBJECT TO APPROVAL BY THE ENGINEER.
3. ALL TRANSVERSE AND LONGITUDINAL CONTRACTION JOINTS SHALL BE SPACED NOT TO EXCEED 20 FEET AND SHALL BE SAWED WITHIN 24 HOURS FOLLOWING CONCRETE PLACEMENT.

LONGITUDINAL CONSTRUCTION JOINT

NOT TO SCALE



EXPANSION JOINT

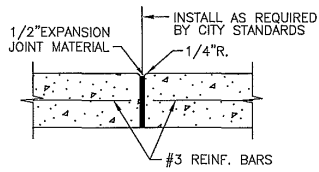
NOT TO SCALE



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CS	JULY 2009

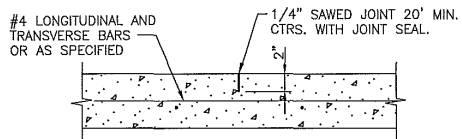
CITY OF TAYLOR WILLIAMSON COUNTY, TEXAS STANDARD DETAILS
JOINT DETAILS (1 OF 2)

STANDARD
PV 010



**CURB & GUTTER
EXPANSION JOINT DETAIL**

NOT TO SCALE



CONTRACTION JOINT DETAIL

NOT TO SCALE



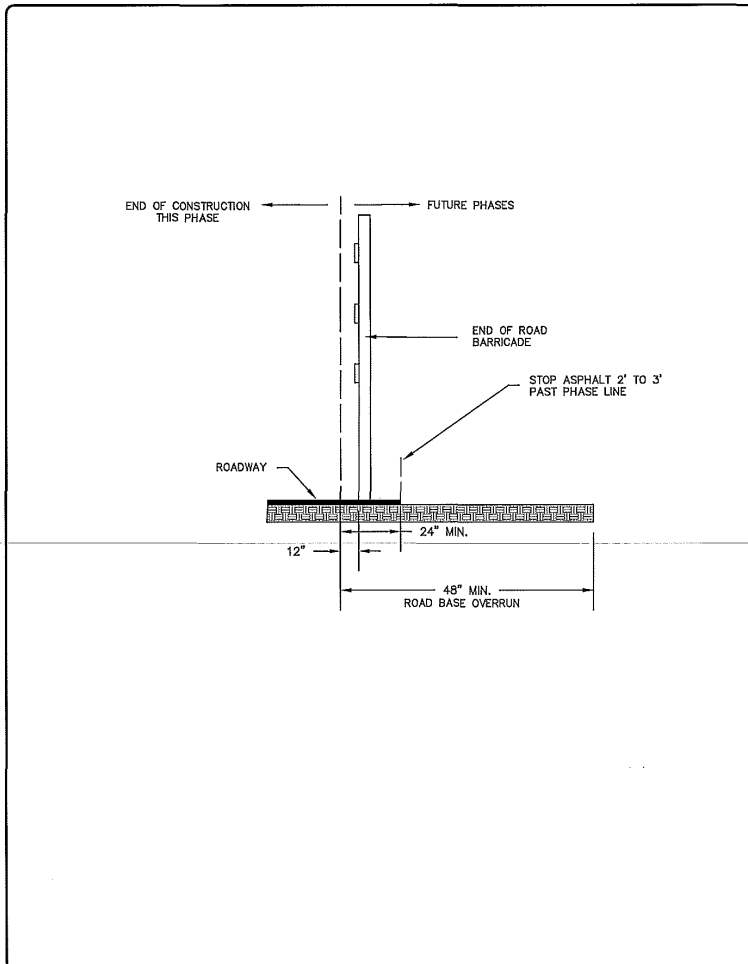
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CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

JOINT DETAILS (2 OF 2)

STANDARD

PV 011



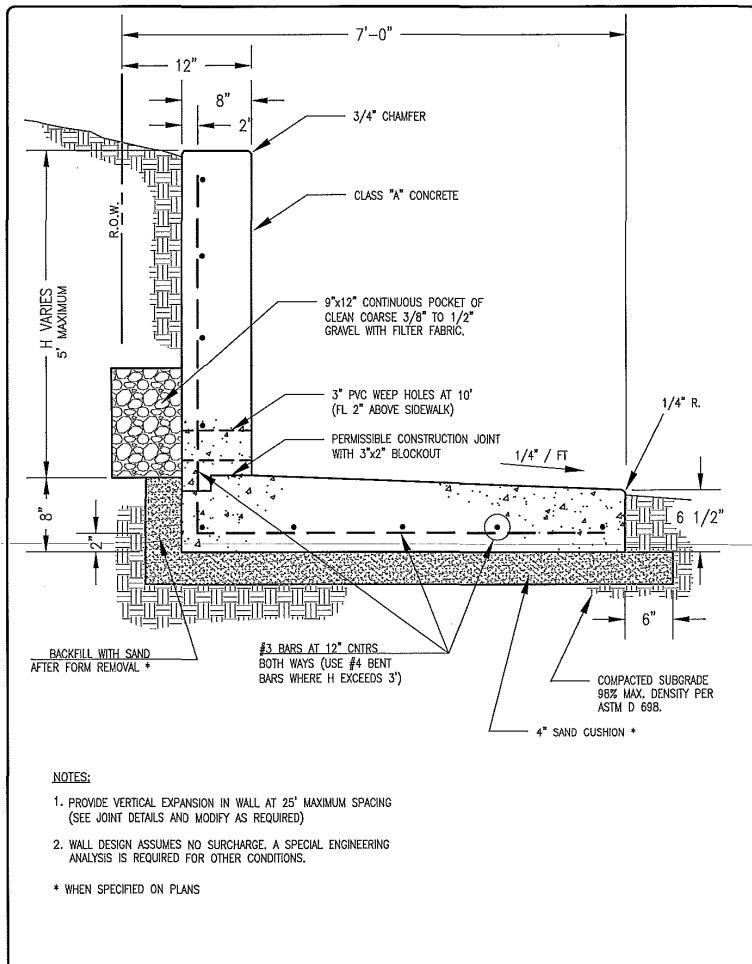
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CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

CONSTRUCTION LIMITS AT STREET
HEADER WITH BARRICADE

STANDARD

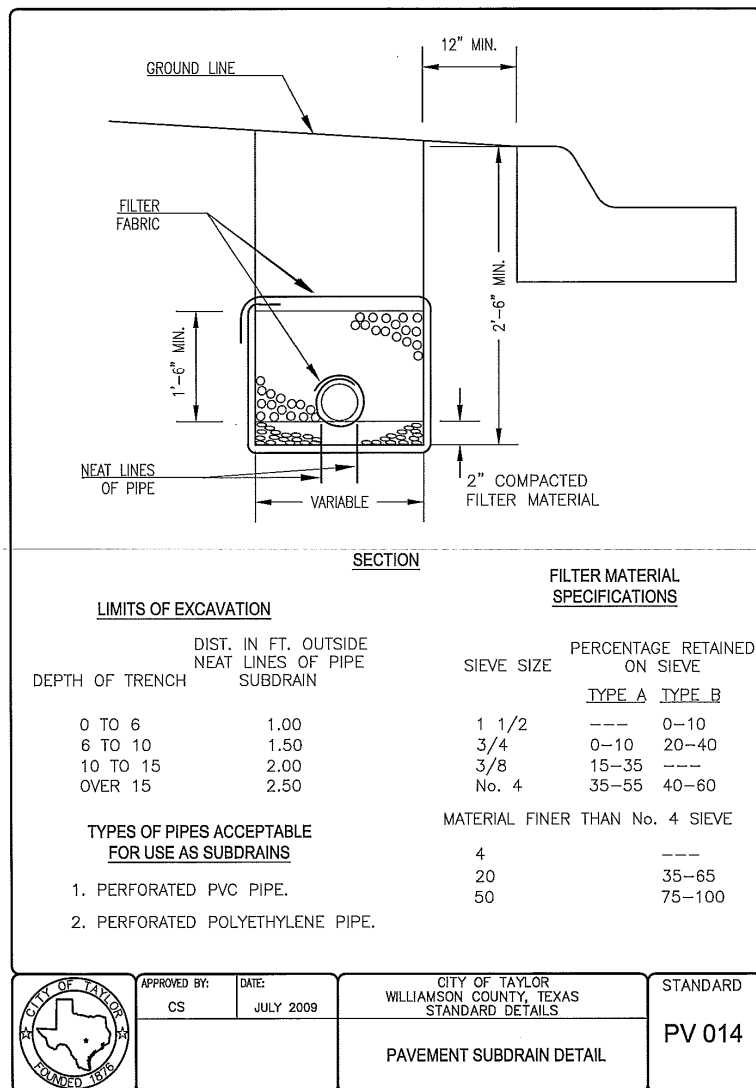
PV 012



APPROVED BY: CS
DATE: JULY 2009

CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS
REINFORCED CONCRETE RETAINING
WALL WITH INTEGRAL SIDEWALK

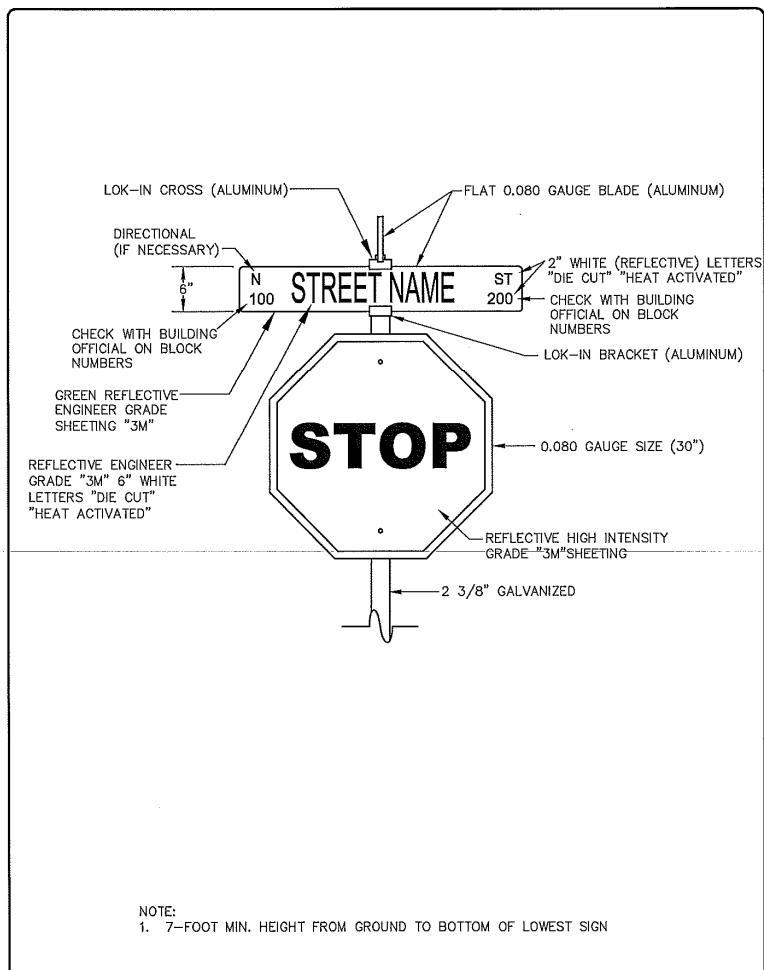
STANDARD
PV 013



APPROVED BY: CS
DATE: JULY 2009

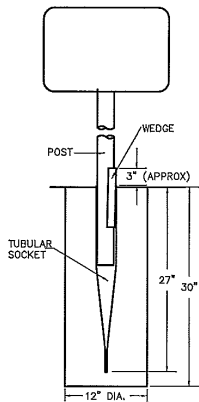
CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS
PAVEMENT SUBDRAIN DETAIL

STANDARD
PV 014

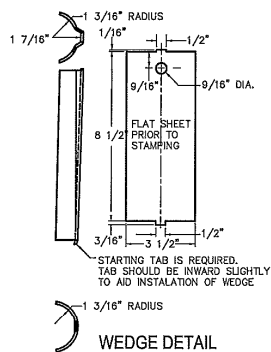


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	CS	JULY 2009		

STANDARD STREET SIGN DETAIL

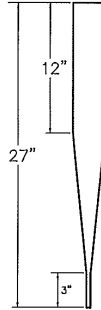


POST DETAIL



WEDGE DETAIL

WEDGE IS FABRICATED FROM 0.109\"/>



TUBULAR SOCKET DETAIL

POST — 13 BWM TUBING (2.375" OUTSIDE DIAMETER)

0.095" NOMINAL WALL THICKNESS
SEAMLESS OR ELECTRIC-RESISTANCE WELDED STEEL TUBING
STEEL SHALL BE HSLAS Gr 55 PER ASTM A1011 OR ASTM A1008
OTHER STEEL MAY BE USED IF THEY MEET THE FOLLOWING:
55,000 PSI MINIMUM YIELD STRENGTH
70,000 PSI MINIMUM TENSILE STRENGTH
18% MINIMUM ELONGATION IN 2"
WALL THICKNESS (UNCOATED) SHALL BE WITHIN THE RANGE OF 0.083" TO 0.099"
OUTSIDE DIAMETER (UNCOATED) SHALL BE WITHIN THE RANGE OF 2.369" TO 2.381"
GALVANIZATION PER ASTM A123 OR A653 G210, FOR PRECOATED STEEL TUBING (ASTM A653)
RECOAT TUBE OUTSIDE DIAMETER WELD SEAM BY METALIZING WIRE PER ASTM B833

SOCKET

TUBULAR SOCKET PREFABRICATED FROM 12 BWM SEAMLESS OR ELECTRIC-RESISTANCE WELDED STEEL TUBING
2.875" OUTSIDE DIAMETER X 0.109" NORMAL WALL THICKNESS
STEEL SHALL BE HSLAS Gr 55 PER ASTM A1011 OR ASTM A1008
OTHER STEEL MAY BE USED IF THEY MEET THE FOLLOWING:
55,000 PSI MINIMUM YIELD STRENGTH
70,000 PSI MINIMUM TENSILE STRENGTH
20% MINIMUM ELONGATION IN 2"
WALL THICKNESS (UNCOATED) SHALL BE WITHIN THE RANGE OF 0.097" TO 0.113"
GALVANIZATION PER ASTM A123 AFTER FABRICATION, OR PER ASTM A653 G210, FOR PERCOATED STEEL TUBING (ASTM A653) RECOAT TUBE OUTSIDE DIAMETER WELD SEAM BY METALIZING WITH ZINC WIRE PER ASTM B833.



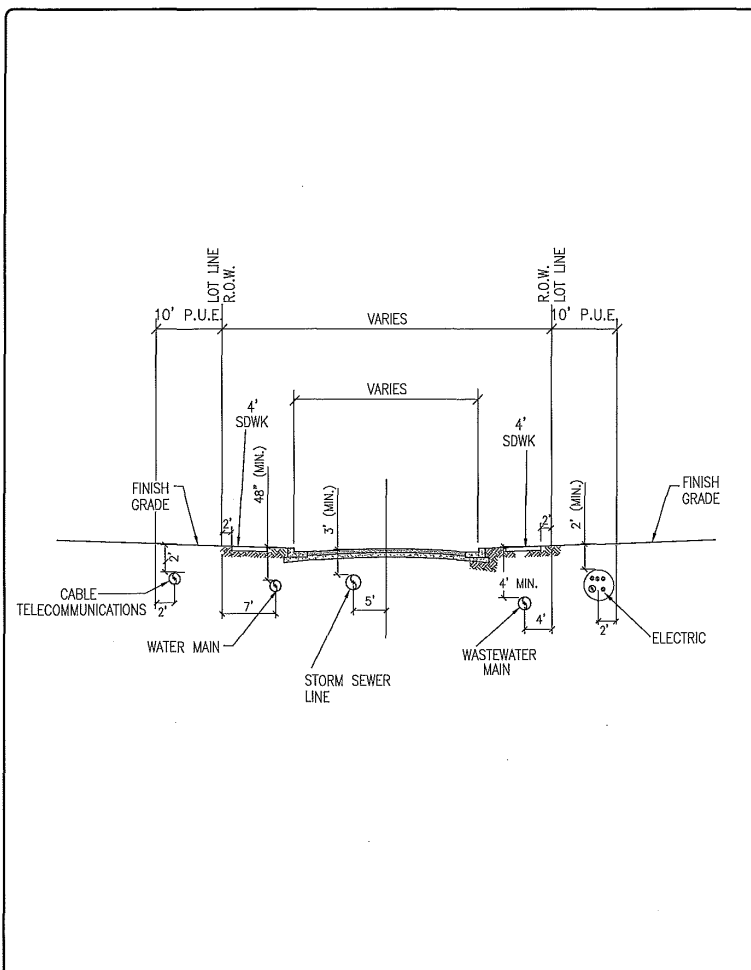
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CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

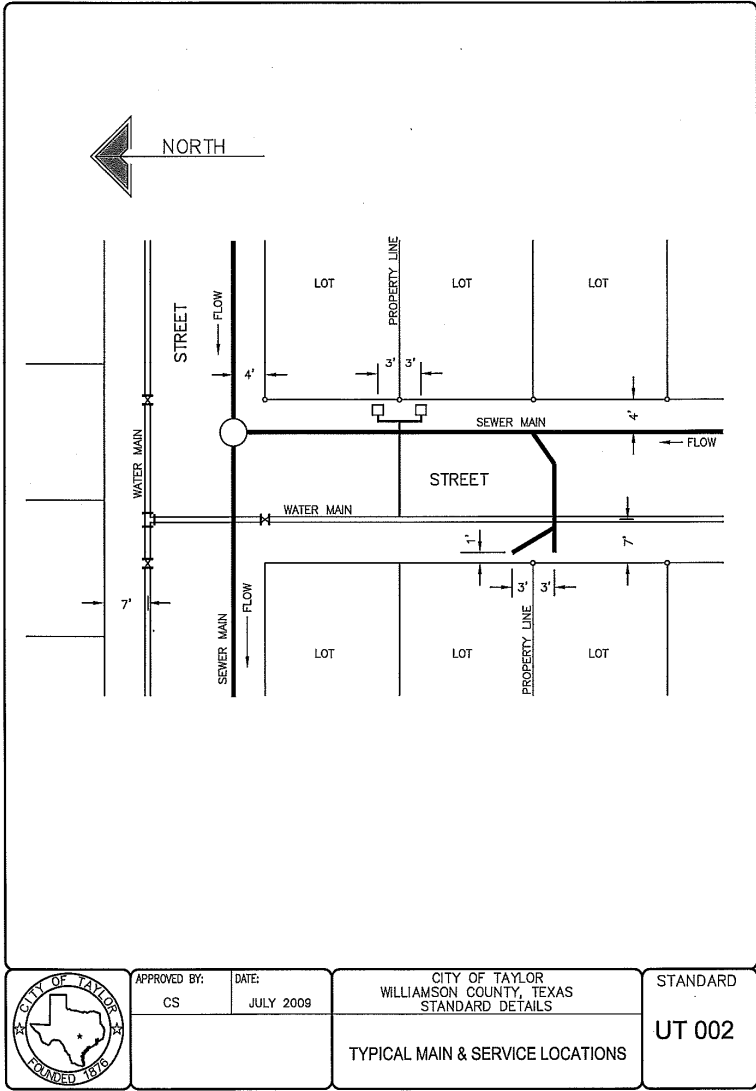
WEDGE ANCHOR SYSTEM

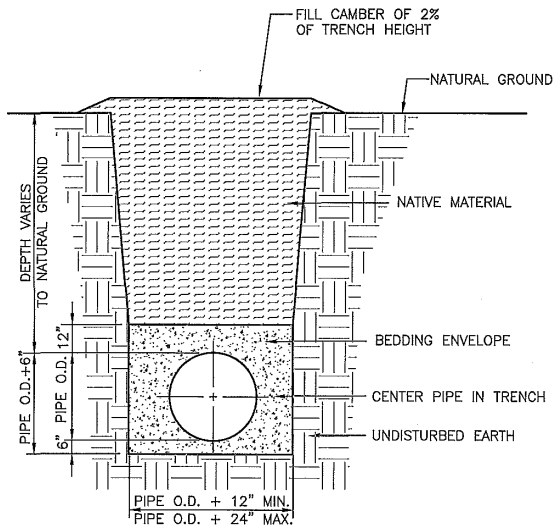
STANDARD

PV 016



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	CS	JULY 2009		





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DATE: JULY 2009

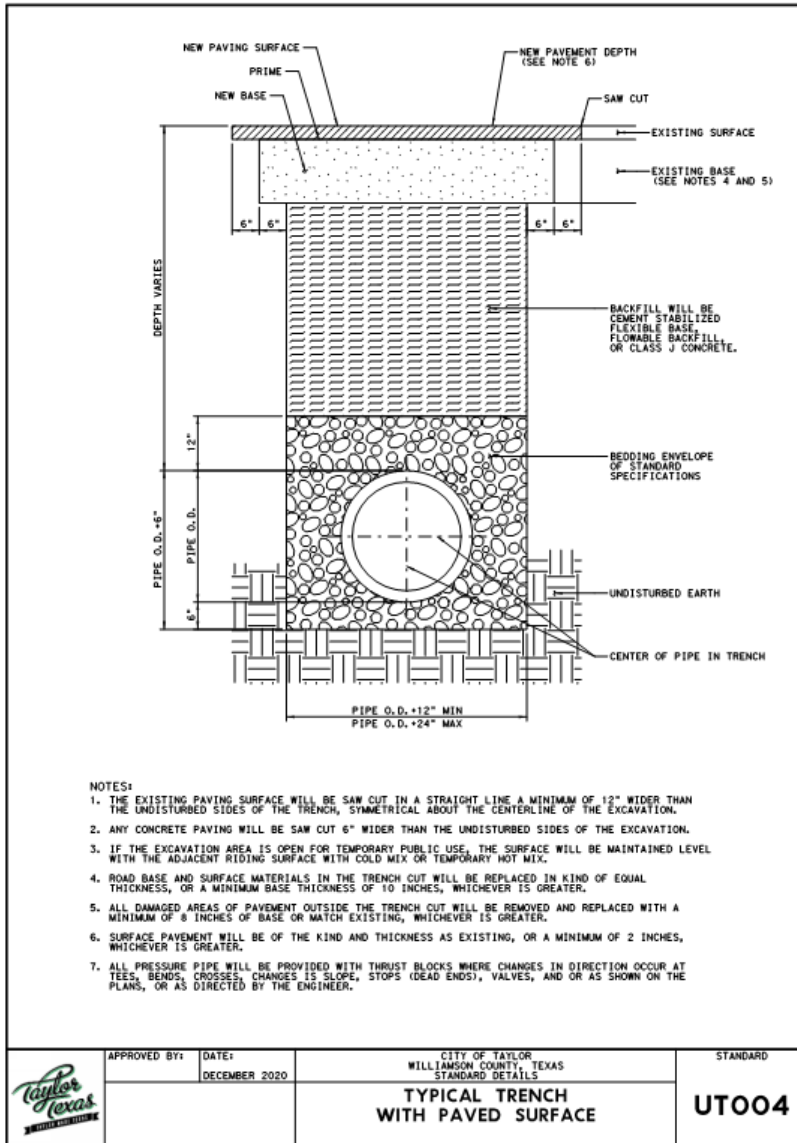
CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

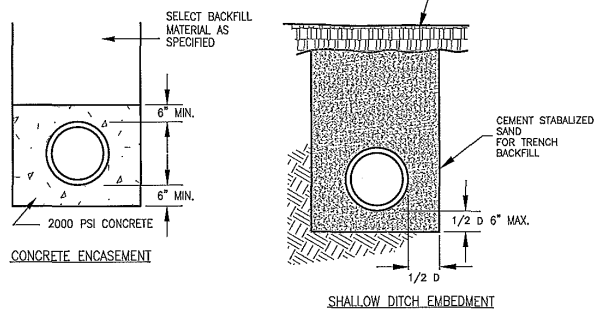
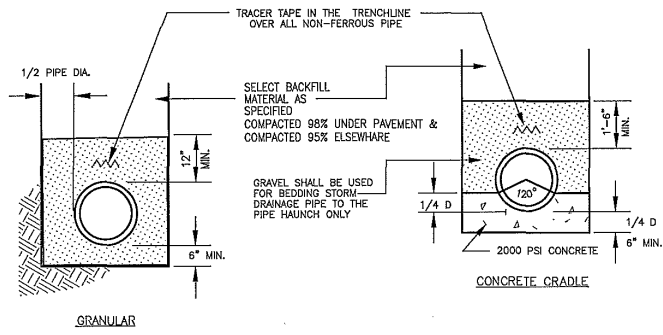
TYPICAL TRENCH
WITH UNFINISHED SURFACE

STANDARD

UT 003

UT 004





**** TYPICAL BEDDING SPECIFICATIONS:**

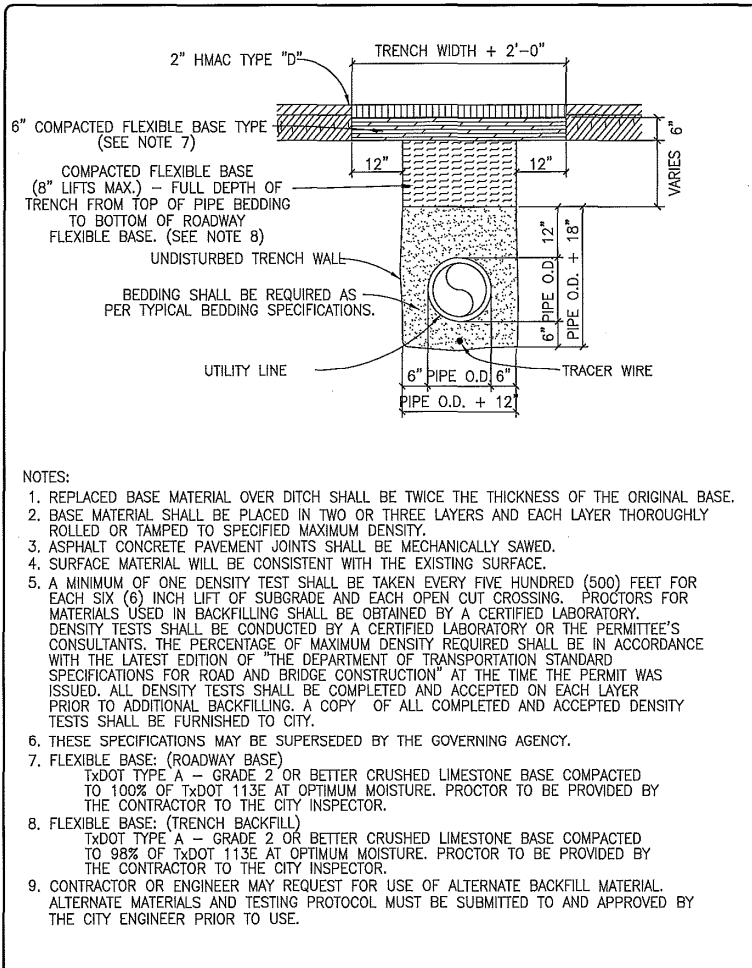
SIEVE SIZE	3/8" F % RETAINED	1/2" D % RETAINED	WASHED GRAVEL % RETAINED
1/2"	0	0	0
3/8"	0-2	5-25	-
4m	40-85	80-100	-
10m	95-100	96-100	-
3/4"	-	-	100



APPROVED BY: CS
DATE: JULY 2009

CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS
STANDARD
EMBEDMENT AND ENCASEMENT

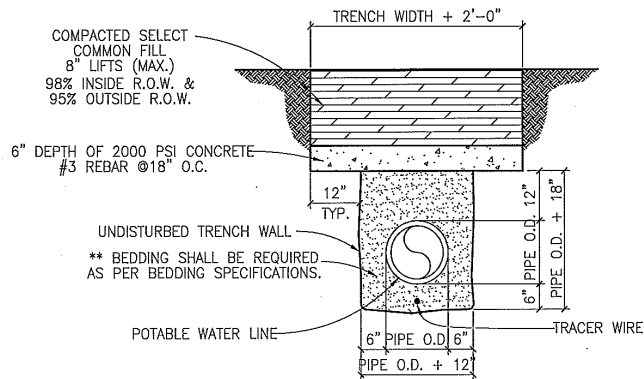
STANDARD
UT 005



NOTES:

1. REPLACED BASE MATERIAL OVER DITCH SHALL BE TWICE THE THICKNESS OF THE ORIGINAL BASE.
2. BASE MATERIAL SHALL BE PLACED IN TWO OR THREE LAYERS AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO SPECIFIED MAXIMUM DENSITY.
3. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED.
4. SURFACE MATERIAL WILL BE CONSISTENT WITH THE EXISTING SURFACE.
5. A MINIMUM OF ONE DENSITY TEST SHALL BE TAKEN EVERY FIVE HUNDRED (500) FEET FOR EACH SIX (6) INCH LIFT OF SUBGRADE AND EACH OPEN CUT CROSSING. PROCTORS FOR MATERIALS USED IN BACKFILLING SHALL BE OBTAINED BY A CERTIFIED LABORATORY. DENSITY TESTS SHALL BE CONDUCTED BY A CERTIFIED LABORATORY OR THE PERMITTEE'S CONSULTANTS. THE PERCENTAGE OF MAXIMUM DENSITY REQUIRED SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "THE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AT THE TIME THE PERMIT WAS ISSUED. ALL DENSITY TESTS SHALL BE COMPLETED AND ACCEPTED ON EACH LAYER PRIOR TO ADDITIONAL BACKFILLING. A COPY OF ALL COMPLETED AND ACCEPTED DENSITY TESTS SHALL BE FURNISHED TO CITY.
6. THESE SPECIFICATIONS MAY BE SUPERSEDED BY THE GOVERNING AGENCY.
7. FLEXIBLE BASE: (ROADWAY BASE)
TXDOT TYPE A - GRADE 2 OR BETTER CRUSHED LIMESTONE BASE COMPACTED TO 100% OF TXDOT 113E AT OPTIMUM MOISTURE. PROCTOR TO BE PROVIDED BY THE CONTRACTOR TO THE CITY INSPECTOR.
8. FLEXIBLE BASE: (TRENCH BACKFILL)
TXDOT TYPE A - GRADE 2 OR BETTER CRUSHED LIMESTONE BASE COMPACTED TO 98% OF TXDOT 113E AT OPTIMUM MOISTURE. PROCTOR TO BE PROVIDED BY THE CONTRACTOR TO THE CITY INSPECTOR.
9. CONTRACTOR OR ENGINEER MAY REQUEST FOR USE OF ALTERNATE BACKFILL MATERIAL. ALTERNATE MATERIALS AND TESTING PROTOCOL MUST BE SUBMITTED TO AND APPROVED BY THE CITY ENGINEER PRIOR TO USE.

	APPROVED BY:	DATE:	CITY OF TAYLOR WILLIAMSON COUNTY, TEXAS STANDARD DETAILS TRENCH DETAIL WITH PAVEMENT REPLACEMENT UNDER EXISTING ROADWAY	STANDARD UT 006
	CS	JULY 2009		



* WHERE 48" MINIMUM COVER CAN NOT BE OBTAINED OR DUE TO POTENTIAL SURFACE LOADING THE CITY MAY REQUIRE A CAP TO BE INSTALLED.

**** TYPICAL BEDDING SPECIFICATIONS:**

SIEVE SIZE	3/8" F % RETAINED	1/2" D % RETAINED	WASHED GRAVEL % RETAINED
1/2"	0	0	0
3/8"	0-2	5-25	-
4m	40-85	80-100	-
10m	95-100	96-100	-
3/4"	-	-	100



APPROVED BY: CS
DATE: JULY 2009

CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

CONCRETE TRENCH CAP DETAIL

STANDARD

UT 007

ASPHALT PAVEMENT

6" MINIMUM THICKNESS

5'-0"

5'-0"

#3 REBAR

MANHOLE

ASPHALT PAVEMENT

6" MINIMUM THICKNESS

2'-0"

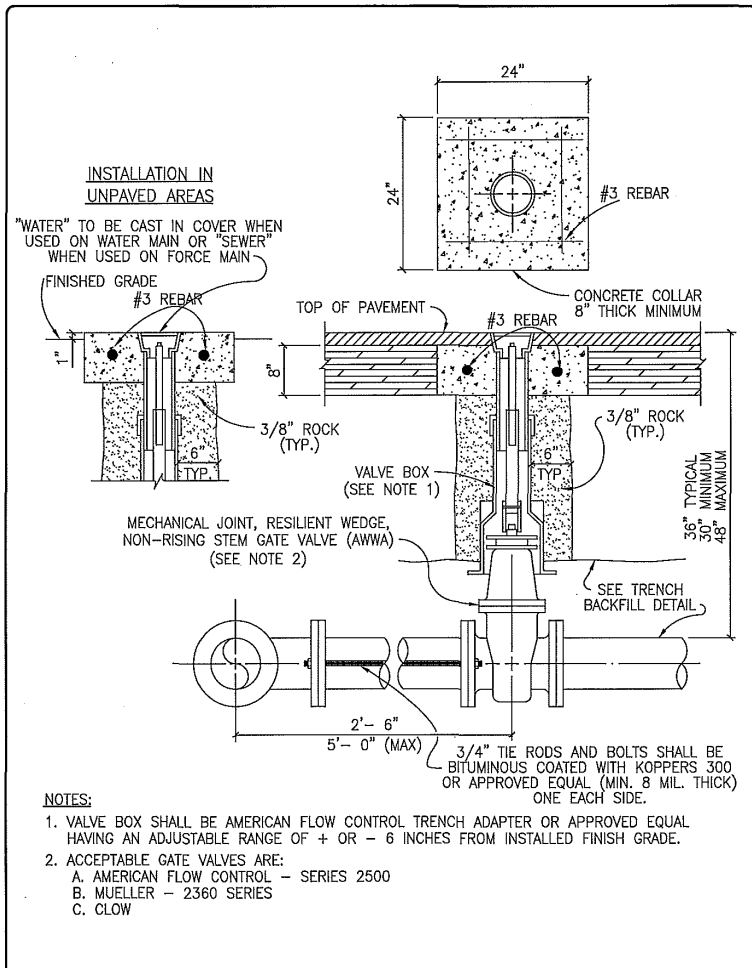
2'-0"

WATER VALVE

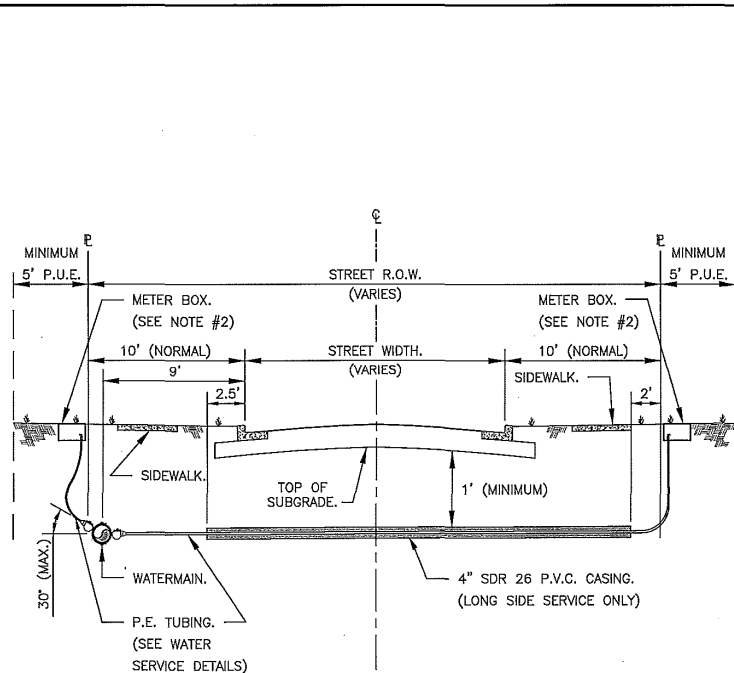
NOTES:

1. ALL ASPHALT PAVEMENT SHALL BE REMOVED ALONG NEAT SAW CUT LINES.
2. MANHOLE BOXOUT REQUIRED FOR ALL MANHOLES (STORM AND SANITARY) AND CLEANOUTS LOCATED IN THE STREET.
3. 1/2" RADIUS EDGE ON CONCRETE
4. #3 REBAR - 3000 PSI

	APPROVED BY:	DATE:	CITY OF TAYLOR WILLIAMSON COUNTY, TEXAS STANDARD DETAILS	STANDARD
	CS	JULY 2009	MANHOLE AND WATER VALVE BOXOUT	UT 008



	APPROVED BY:	DATE:	CITY OF TAYLOR WILLIAMSON COUNTY, TEXAS STANDARD DETAILS	STANDARD
	CS	JULY 2009		UT 009
			TYPICAL VALVE SETTING	



NOTE:

1. REFER TO "STANDARD INSTALLATION DETAIL FOR ONE OR TWO METERS" FOR SERVICE SPECIFICS.
2. METER BOXES SHALL BE SET AS CLOSE TO R.O.W. (R) AS POSSIBLE, WITH NO PART OF BOX WITHIN R.O.W. METER BOXES SHALL BE LEVEL FROM SIDE TO SIDE AND NO MORE THAN 1/4"/FT. SLOPE FROM FRONT TO BACK (OR BACK TO FRONT). GRADING IN P.U.E. AROUND METER BOX SHALL BE 3:1 MAXIMUM AND SHALL BLEND TO OTHER UTILITY APPURTENANCES WITHOUT ABRUPT ELEVATION CHANGES.



APPROVED BY:	DATE:
CS	JULY 2009

CITY OF TAYLOR WILLIAMSON COUNTY, TEXAS STANDARD DETAILS
WATER SERVICE CASING DETAIL

STANDARD
UT 010

MATERIAL LIST

- A. SERVICE CLAMP REQUIRED.
 - B. 1" CORPORATION STOP --- SERVICE PIPE OUTLET.
 - C. 1" SERVICE PIPE.
 - D. LOCKING ANGLE METER STOP; SERVICE PIPE INLET X SWIVEL COUPLING NUT OUTLET:
- FOR 5/8" AND 3/4" METERS: 1" x 3/4"
- FOR 1" METERS: 1" x 1"
 - E. PLASTIC RECTANGULAR METER BOX. (SEE NOTE #5)
 - F. PIPE CASING WHERE APPLICABLE. (SEE SEPARATE DETAIL)
- NOTE: G THRU J TO BE INSTALLED UNDER SEPARATE BUILDING PERMIT.
- G. WATER METER, CENTERED IN BOX. (SEE TABLE AT RIGHT)
 - H. WATER METER COUPLING; MALE I.P.T. X SWIVEL COUPLING NUT:
- FOR 5/8" AND 3/4" METERS: 3/4" x 8 1/2" LONG.
- FOR 1" METERS: 1" x 8 1/2" LONG.
 - I. BRONZE GATE VALVE; NON-RISING STEM (3/4" OR 1") FEMALE I.P.T. (PROPERTY OWNERS CUT-OFF; OUTSIDE METER BOX IN SEPARATE VALVE CAN WITH LID AS PER CITY STANDARDS).
 - J. 3/4" OR 1" PIPE MEETING CITY PLUMBING CODE REQUIREMENTS.

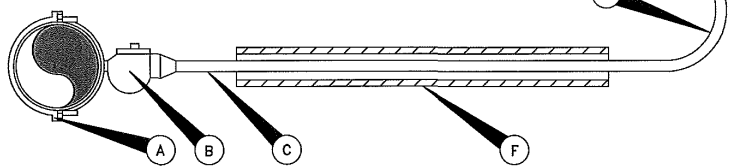
NOTES:

1. SERVICE PIPE SHALL BE COPPER TUBE SIZE. IT MAY BE 150 PSI ANNEALED SEAMLESS TYPE "K" COPPER TUBING.
2. SERVICE SADDLES SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM.
3. TOP OF BOXES SHALL BE 1" ABOVE FINISHED GRADE.
4. PIPING AND TUBING SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 510.3 OF THE STANDARD SPECIFICATIONS. SPECIAL ATTENTION IS CALLED TO "PIPE BEDDING ENVELOPE" AND "BACKFILLING", SECTIONS 510.3 (14) AND 510.3 (25), RESPECTIVELY.
5. METER BOX TO BE MODEL DFW-3612 BY DFW ROTEC, INC. OR APPROVED EQUAL. PROVIDE BLACK-PAINTED METAL LID WITH METER READER.
6. AXIS OF METER ASSEMBLY (METER STOP, METER, PIPING AND OWNERS CUTOFF) SHALL BE 10" BELOW TOP OF BOX.
7. SLOTS PROVIDED IN METER BOX TO ACCOMMODATE PIPING INTO AND OUT OF BOX SHALL NOT BE MODIFIED.

MAXIMUM SLOPE 1/4"/FT.
FRONT TO BACK OR BACK TO FRONT.

BOX TO BE LEVEL
SIDE TO SIDE.

METER SIZE	LENGTH
5/8"	7 3/4"
3/4"	9"
1"	11"



DRAWN BY: PM	DATE: 01/29/2009
APPROVED BY: CS	DATE: -
REVISION NO.:	FILE NAME:
REVISED BY:	DATE:

CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

SINGLE 5/8", 3/4" OR 1"
WATER METER DETAIL

STANDARD

UT 011

MATERIAL LIST

- A. SERVICE CLAMP REQUIRED.
- B. 2" CORPORATION STOP --- SERVICE PIPE OUTLET.
- C. 2" SERVICE PIPE.
- D. BUSHING (IF NECESSARY) AND LOCKING ANGLE METER STOP; SERVICE PIPE INLET X FLANGED COUPLING OUTLET:
-- FOR 1 1/2" METERS: 1 1/2" X 1 1/2"
-- FOR 2" METERS: 2" X 2"
- E. PLASTIC RECTANGULAR METER BOX.
(SEE NOTE #9)
- F. PIPE CASING WHERE APPLICABLE.
(SEE SEPARATE DETAIL)
- NOTE: G THRU J TO BE INSTALLED UNDER SEPARATE BUILDING PERMIT.
- G. WATER METER, CENTERED IN BOX. (SEE TABLE AT RIGHT)
- H. WATER METER COUPLING; MALE I.P.T. X FLANGED COUPLING NUT;
-- LENGTH OF PIPE TO BE DETERMINED BY CONTRACTOR.
- I. BRONZE GATE VALVE; NON-RISING STEM (1 1/2" OR 2") FEMALE I.P.T.
(PROPERTY OWNERS CUT-OFF OUTSIDE METER BOX IN SEPARATE VALVE CAN WITH LID AS PER CITY STANDARDS).
- J. BUSHING (IF NECESSARY) AND PIPE MEETING CITY PLUMBING CODE REQUIREMENTS.

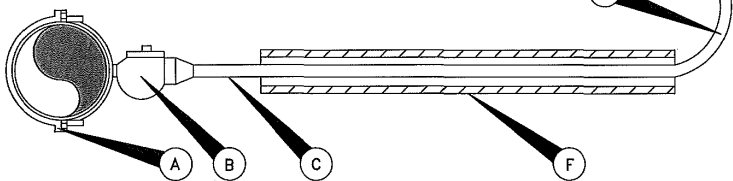
NOTES:

1. SERVICE PIPE SHALL BE COPPER TUBE SIZE. IT MAY BE 150 PSI ANNEALED SEAMLESS TYPE "K" COPPER TUBING OR 200 PSI BLACK COLORED POLYETHYLENE HAVING A DIMENSION RATIO OF 9 (DR9).
2. SERVICE SADDLES SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM.
3. TOP OF BOXES SHALL BE 1" ABOVE FINISHED GRADE.
4. PIPING AND TUBING SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 510.3 OF THE STANDARD SPECIFICATIONS. SPECIAL ATTENTION IS CALLED TO "PIPE BEDDING ENVELOPE" AND "BACKFILLING", SECTIONS 510.3 (14) AND 510.3 (25), RESPECTIVELY.
5. METER BOX TO BE MODEL DFW-6512 BY DFW ROTEC, INC. OR APPROVED EQUAL. PROVIDE BLACK-PAINTED METAL LID WITH METER READER.
6. AXIS OF METER ASSEMBLY (METER STOP, METER, PIPING AND OWNERS CUTOFF) SHALL BE 10" BELOW TOP OF BOX.
7. SLOTS PROVIDED IN METER BOX TO ACCOMODATE PIPING INTO AND OUT OF BOX SHALL NOT BE MODIFIED.

MAXIMUM SLOPE 1/4"/FT.
FRONT TO BACK OR BACK TO FRONT.

BOX TO BE LEVEL
SIDE TO SIDE.

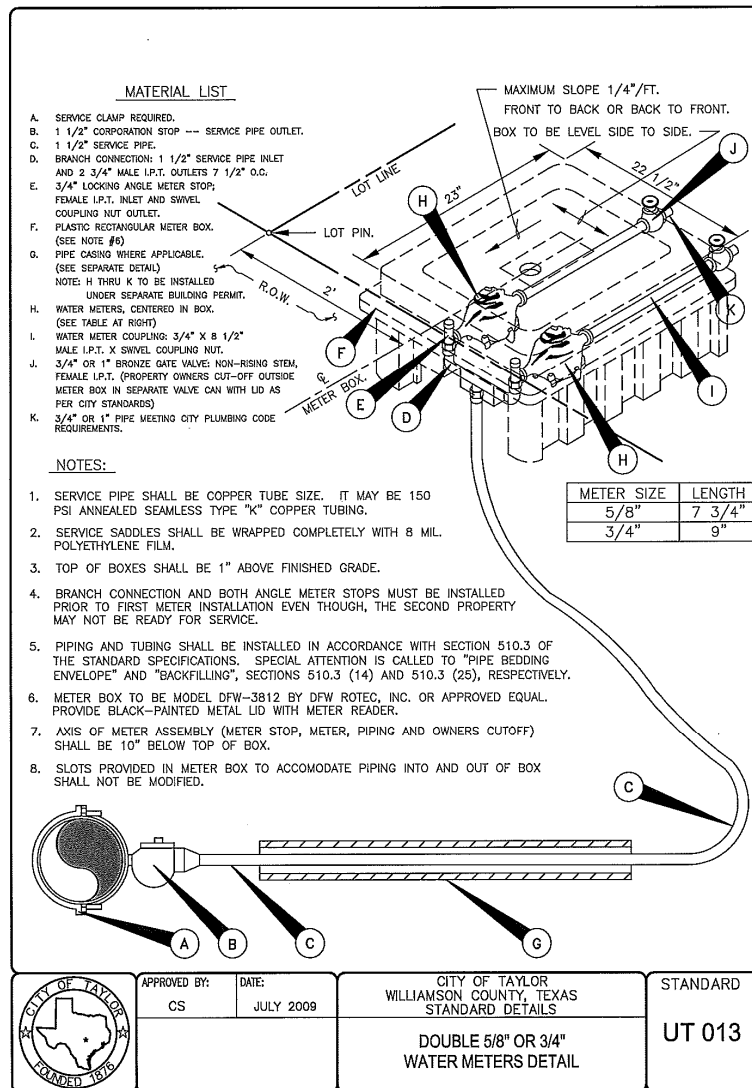
METER SIZE	LENGTH
1 1/2"	13"
2"	17"

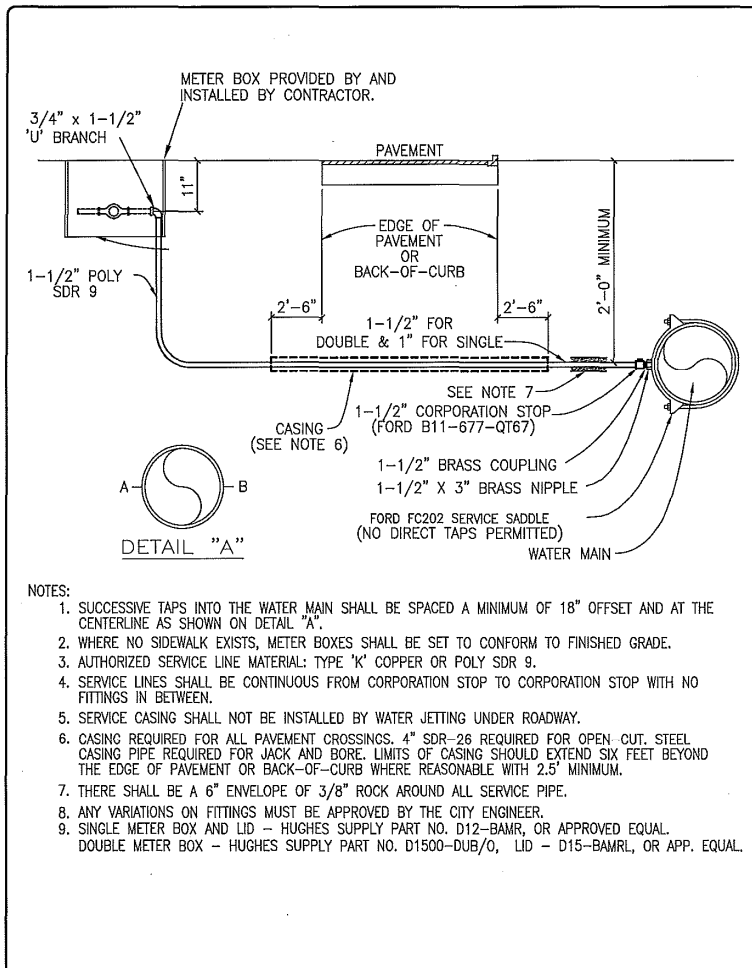


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CS	JULY 2009

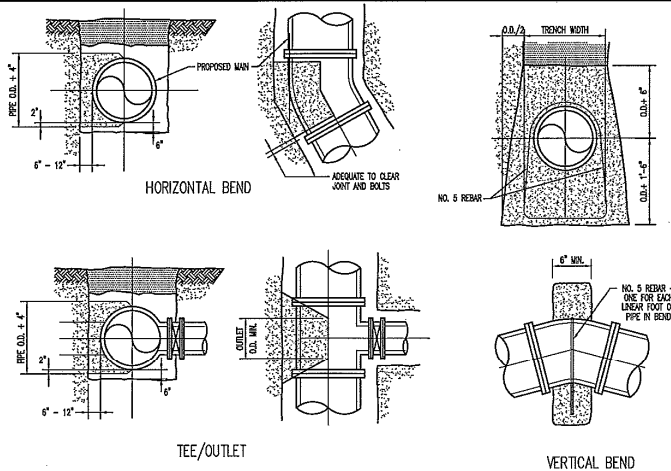
CITY OF TAYLOR WILLIAMSON COUNTY, TEXAS STANDARD DETAILS
SINGLE 1 1/2" OR 2" WATER METER DETAIL

STANDARD
UT 012





	APPROVED BY:	DATE:	CITY OF TAYLOR WILLIAMSON COUNTY, TEXAS STANDARD DETAILS	STANDARD UT 014
	CS	JULY 2009		
			TYPICAL WATER SERVICE - ELEVATION	



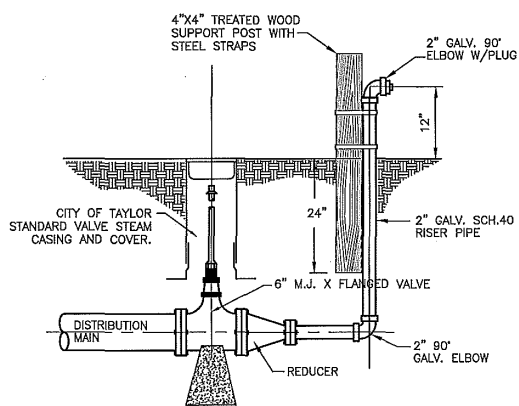
THRUST BLOCK DESIGN AS FOLLOWS:
 A. PRESSURE OF 150 P.S.I. (ACTUAL IF HIGHER)
 + BOX SURGE ALLOWANCE.
 B. MAXIMUM SOIL BEARING:
 SOIL TYPE PRESSURE
 LIMESTONE 4000 LBS./SQ. FT.
 UNDISTURBED SOIL, CAUCHE 2000 LBS./SQ. FT.
 LOOSE OR SPONGY SOIL 1500 LBS./SQ. FT.

CONCRETE THRUST BLOCKING SCHEDULE **

PIPE SIZE (INCHES)	THRUST (POUNDS)	AREA REQUIRED (SQUARE FEET) BEARING AGAINST TRENCH WALL FOR PRESSURE PIPE						
		TEES AND PLUGS	BENDS					
			90°	45°	22-1/2°	11-1/4°	5°	1°
4	2,513	1.00	1.00	0.50	0.50	N/A	N/A	N/A
6	5,655	1.41	2.00	1.08	1.00	0.50	N/A	N/A
8	10,053	2.61	3.65	1.92	1.00	0.50	0.50	N/A
12	22,619	5.65	8.00	4.33	2.21	1.11	0.50	N/A
16	40,212	10.05	14.22	7.69	3.92	1.97	1.00	N/A
24	90,478	22.62	31.99	17.31	8.83	4.43	1.97	0.50
30	141,372	35.34	49.98	27.05	13.79	6.93	3.08	1.00
36	203,575	50.89	71.97	38.95	19.86	9.98	4.44	1.00
42	277,088	69.27	97.97	53.02	27.03	13.58	6.04	1.21
48	361,911	90.48	127.95	69.29	35.30	17.74	7.89	1.58
54	458,044	114.51	161.94	87.64	44.68	22.45	9.99	2.00

** BASED ON A 4,000 P.S.F. SOIL BEARING CAPACITY AND A 200 P.S.I. MAX. LINE PRESSURE
 INCREASE AND DECREASE BEARING AREA IN ACCORDANCE WITH THE BEARING STRENGTH OF
 SOIL AS DESCRIBED IN SCHEDULE.

	APPROVED BY: CS	DATE: JULY 2009	CITY OF TAYLOR WILLIAMSON COUNTY, TEXAS STANDARD DETAILS	STANDARD
	CONCRETE THRUST BLOCKING			UT 015



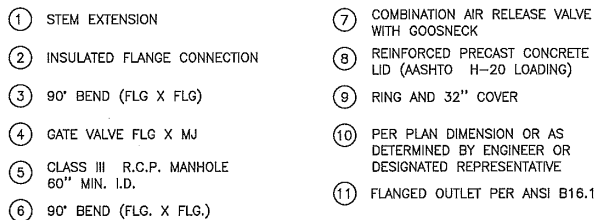
FLUSHING VALVE DETAIL
(FOR PERMANENT DEAD END LINES,
USE 2" BALL VALVE - FORD OR EQUAL)



APPROVED BY:	DATE:
CS	JULY 2009

CITY OF TAYLOR WILLIAMSON COUNTY, TEXAS STANDARD DETAILS
FLUSHING VALVE DETAIL

STANDARD
UT 016



3" OR LARGER VENTED AIR / VACUUM VALVE INSTALLATION

1 of 2

NOTES:

1. ON 10" AND LARGER TWO PIECE COMBINATION AIR VALVES, THE OUTLET PIPING OF THE SMALL VALVE SHALL BE VENTED WITHIN THE MANHOLE INTO THE SIDE OF THE LARGER VENT PIPE THAT GOES ABOVE GROUND.
2. AIR VENT PIPE 6" AND LARGER SHALL BE D.I. (CLASS 350 MIN.) PIPE FLANGE FITTINGS ORDERED SPECIAL WITH SHOP APPLIED KOPPER INERTOL RUST INHIBITIVE PRIMER 621, OR EQUAL, IN LIEU OF COAL TAR. EXTERIOR SURFACES OF ALL EXPOSED PIPE SHALL BE PAINTED WITH RUST-OLEUM ACRYLIC 5225 (SAFETY BLUE), OR EQUAL, PER COATING MANUFACTURER'S INSTRUCTIONS PRIOR TO INSTALLATION.
3. SEALANT SHALL BE 1/2" FLEXIBLE BUTYL RESIN SEALANT CS-102 AS MANUFACTURED BY CONCRETE SEALANTS, INC. OR EQUAL.
4. INSTALLATION OF VALVE CASING RING SHALL BE PER CITY OF TAYLOR STANDARD NO. UT 100 AND OR UT 121.
5. AIR VENT PIPE INSTALLATION SHALL BE AS NEAR AS PRACTICAL TO THE RIGHT-OF-WAY LINE.
6. CONCRETE MANHOLE PENETRATIONS SHALL BE CORE BIT DRILLED. VOID SHALL BE FILLED BY PRESSING SEAL GASKET COPR. PSX RESILIENT CONNECTOR MEETING ASTM C923 OR APPROVED EQUAL.
7. CROSS SECTIONAL AREA OF OPENING TO BE EQUAL TO OR GREATER THAN CROSS SECTIONAL AREA OF AIR VENT PIPE.
8. AIR/VACUUM VALVE SHALL BE INSTALLED IN A MANNER WHICH WILL ALLOW REMOVAL OF ASSEMBLY WITHOUT REMOVAL OF PRECAST CONCRETE LID.

AIR VALVE	GATE VALVE	VENT PIPE (MIN.)	M.H. DIA. (MIN.)
3"	3"	3"	5'
4"	4"	4"	6'
6"	6"	6"	6'
8"	8"	8"	6'
10"	10"	10"	7'
12"	12"	12"	7'



APPROVED BY: CS
DATE: JULY 2009

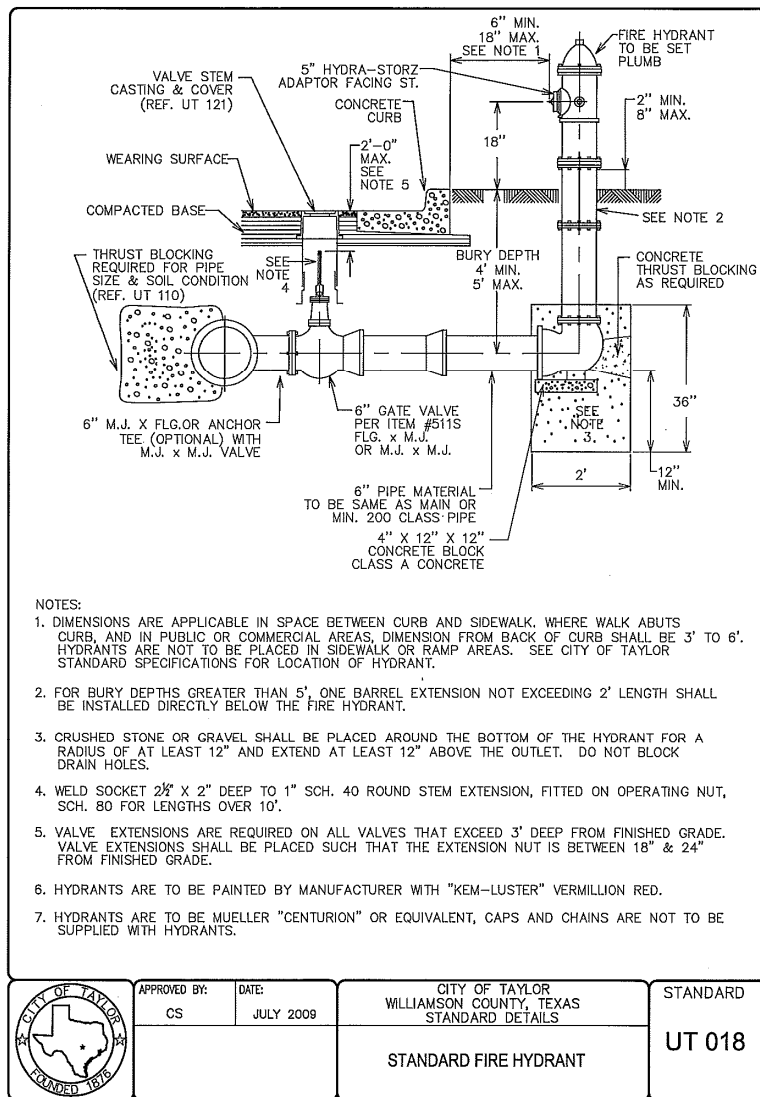
CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

3" OR LARGER VENTED
AIR / VACUUM VALVE INSTALLATION

STANDARD

UT 017

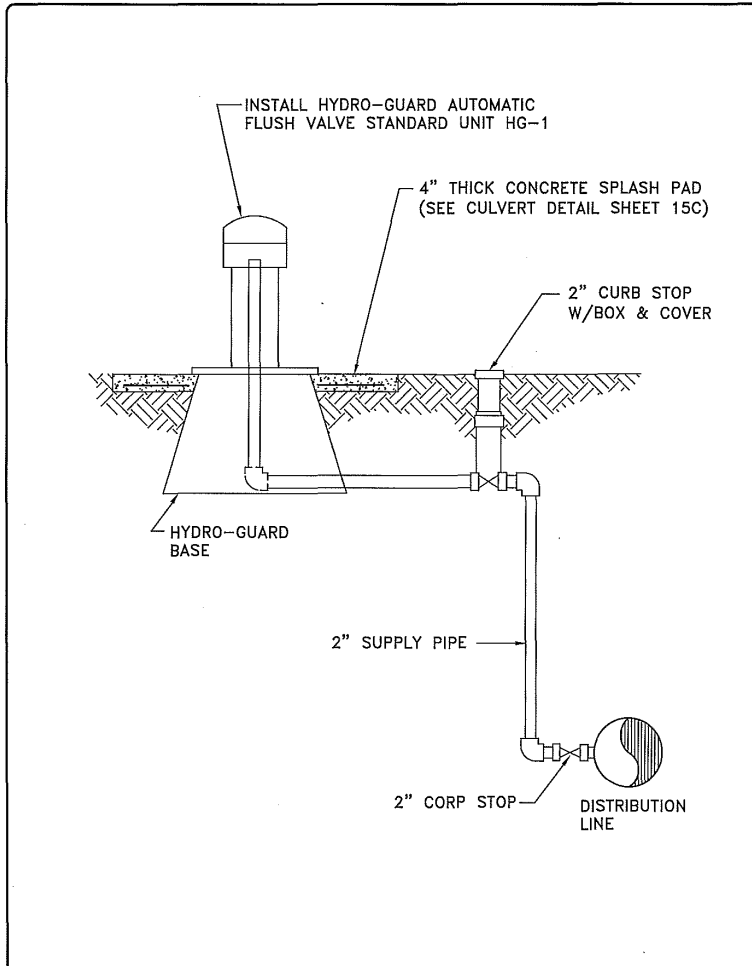
2 of 2



APPROVED BY:	DATE:
CS	JULY 2009

CITY OF TAYLOR WILLIAMSON COUNTY, TEXAS STANDARD DETAILS
STANDARD FIRE HYDRANT

STANDARD
UT 018



APPROVED BY: CS
DATE: JULY 2009

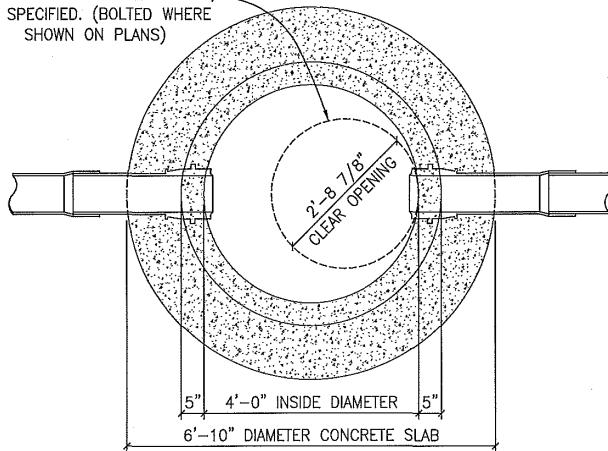
CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

AUTOMATIC FLUSHING VALVE

STANDARD

UT 019

STANDARD CASTING AND COVER,
AS SPECIFIED. (BOLTED WHERE
SHOWN ON PLANS)



MANHOLE PLAN

CITY OF TAYLOR NOTES:

MANHOLE DETAILS SHALL REFLECT THE CITY'S MINIMUM SPECIFICATIONS, AS STATED BELOW:

- A. ALL MANHOLES SHALL BE 48" I.D., R.C.P., CLASS III, WITH RUBBER O-RING GASKET JOINTS CONFORMING TO ASTM C478, C433 AND C76.
- B. ALL MANHOLES SHALL HAVE WATER-TIGHT FRAME AND COVER, WITH A MINIMUM 36" CLEAR OPENING, AS MANUFACTURED BY EAST JORDAN IRON WORKS (AS PER DETAIL # WW-07) OR APPROVED EQUAL.
- C. ALL MANHOLES SHALL BE CONCRETE WITH CAST IRON FRAME AND COVER.
- D. ALL MANHOLES SHALL HAVE AN ECCENTRIC CONE.
- E. MANHOLES MAY HAVE A FLAT LID, IF APPROVED BY CITY OF TAYLOR, BEING 12" THICK WITH A MINIMUM 30" OPENING, AS MANUFACTURED BY CALVERT CONCRETE OR APPROVED EQUAL M.F.G. CONFORMING TO ASTM C478, 5000 P.S.I. CONCRETE, TRAFFIC BEARING, AND O-RING JOINT CONFORMING TO ASTM C443.
- F. INVERTS AND FLEXIBLE SEAL BOOTS, PER ASTM C-923, SHALL BE CAST INTO BASE SECTION.
- G. MINIMUM DROP BETWEEN INVERTS SHALL BE ONE-TENTH OF A FOOT (0.1').
- H. TWO (2") INCH GRADE RINGS WITH AN I.D. TO MATCH FRAMES CLEAR OPENING, MINIMUM OF TWO (2), MAXIMUM OF FIVE (5) GRADE RINGS REQUIRED.



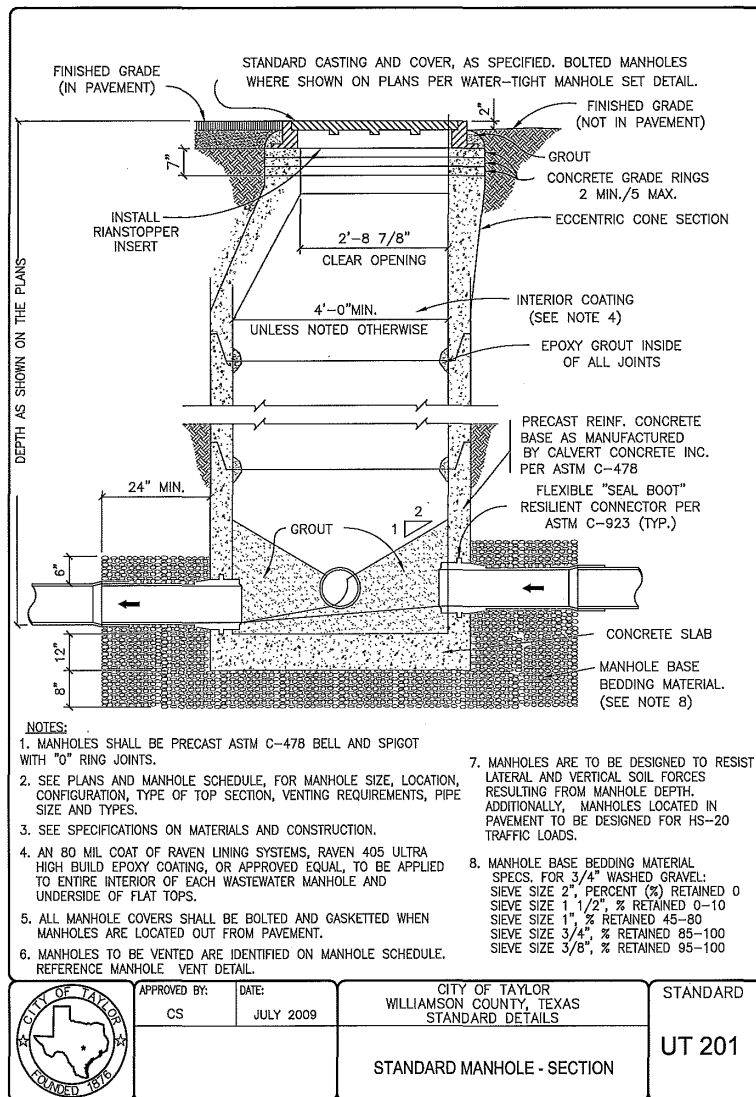
APPROVED BY: CS
DATE: JULY 2009

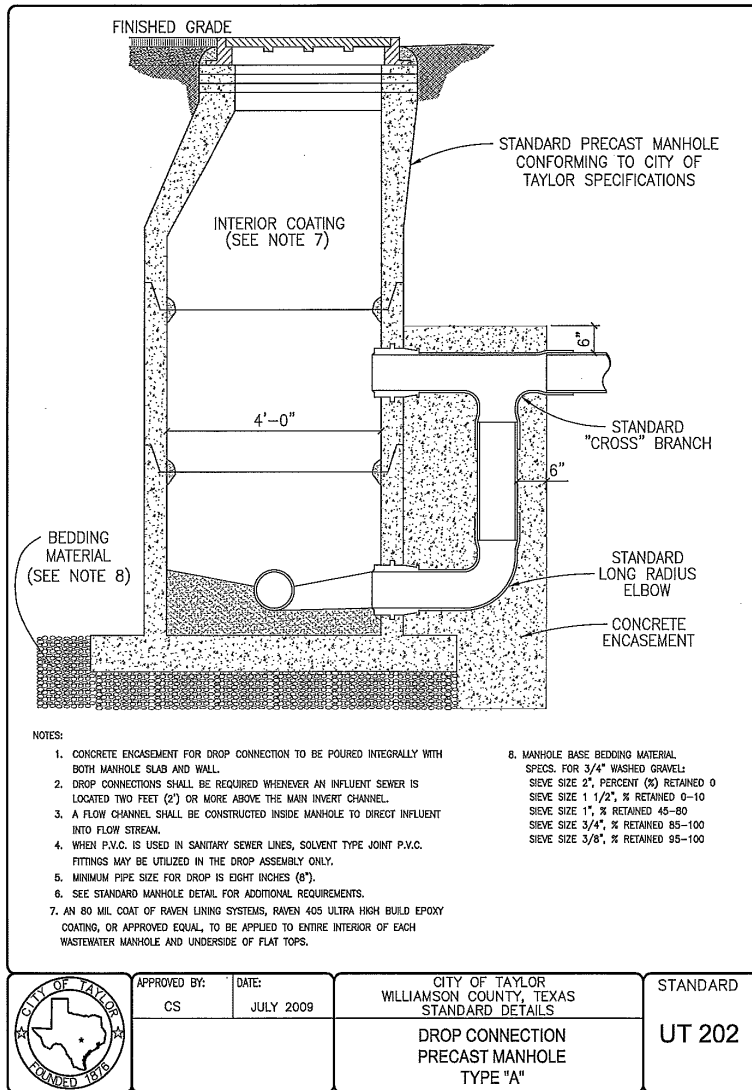
CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

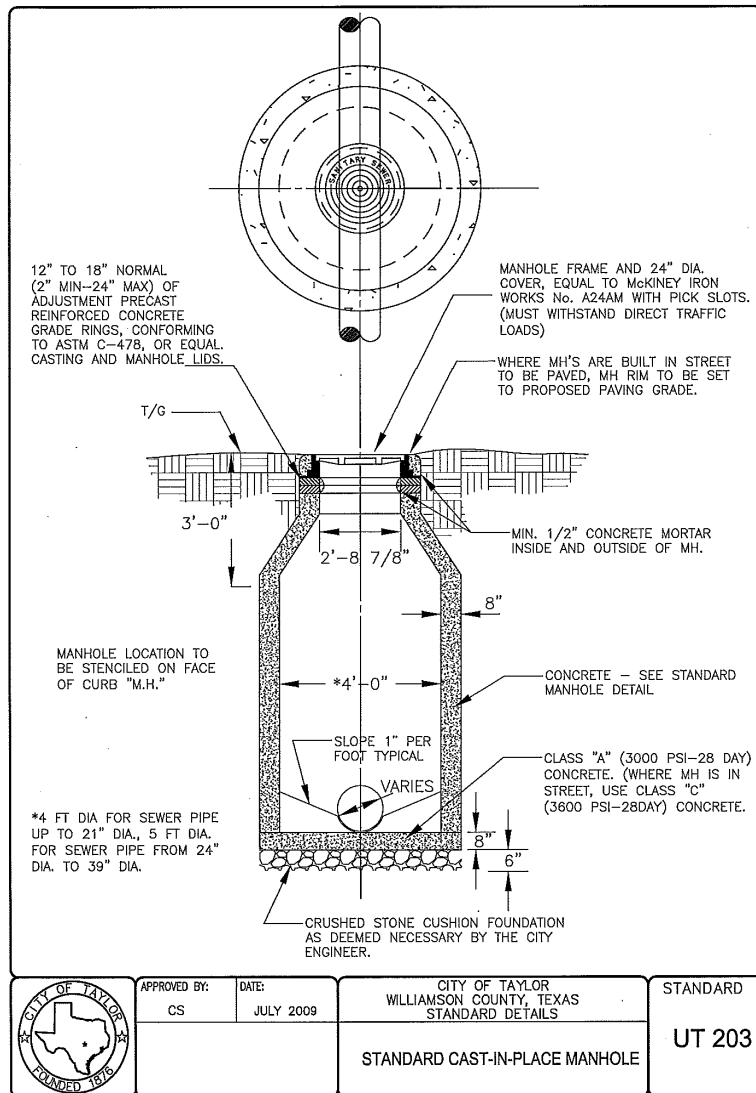
STANDARD MANHOLE - PLAN

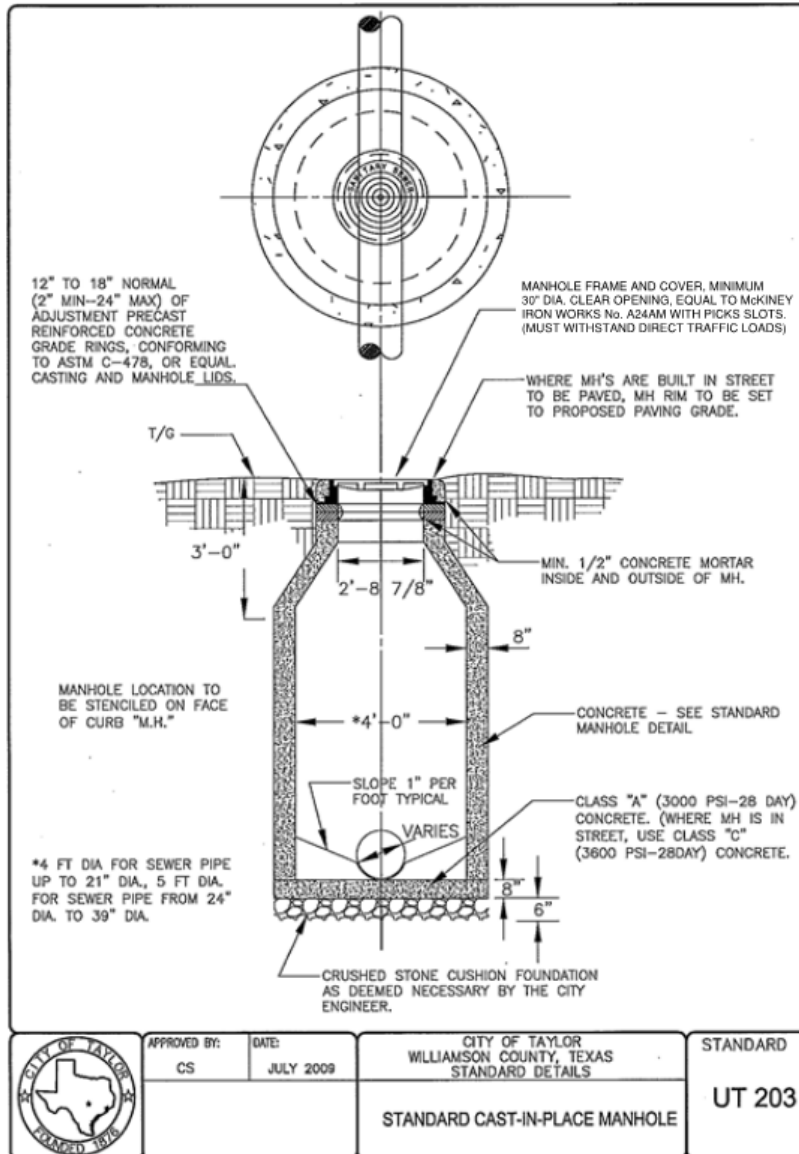
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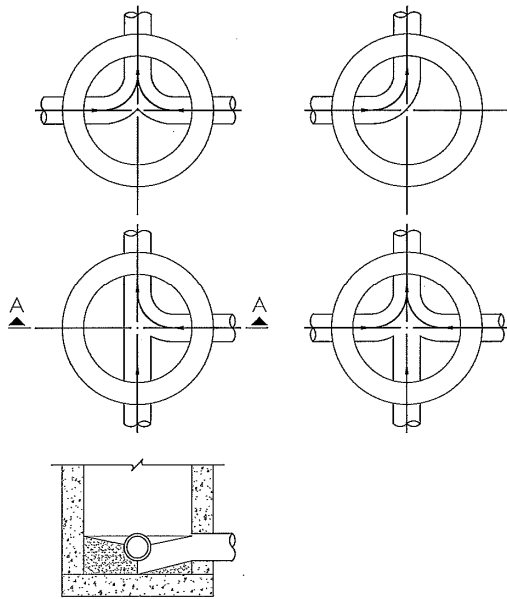
UT 200







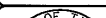


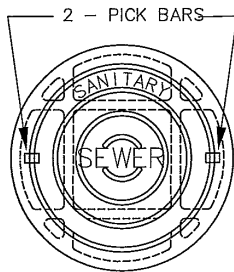


SECTION "A-A"

NOTES:

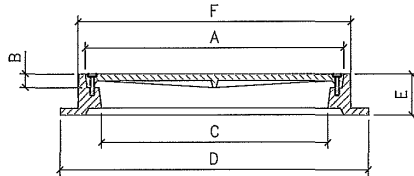
1. INVERT CHANNELS TO BE CONSTRUCTED FOR SMOOTH FLOW WITH NO OBSTRUCTIONS.
2. SPILLWAYS SHALL BE CONSTRUCTED BETWEEN PIPES WITH DIFFERENT INVERT ELEVATIONS PROVIDING FOR SMOOTH FLOW.
3. CHANNELS FOR FUTURE CONSTRUCTIONS (STUBS) SHALL BE CONSTRUCTED, FILLED WITH SAND, AND COVERED WITH 1" OF MORTAR.
4. SLOPE MANHOLE ITSELF WITH A 1:2 SLOPE FROM MANHOLE WALL TO CHANNEL.
5. INVERT SHALL BE A MINIMUM OF 1/2 THE DIAMETER OF THE LARGEST PIPE OR 4" DEEP.

	APPROVED BY:	DATE:	CITY OF TAYLOR WILLIAMSON COUNTY, TEXAS STANDARD DETAILS	STANDARD UT 204
	CS	JULY 2009		
			FLOW PATTERNS FOR INVERT CHANNELS	

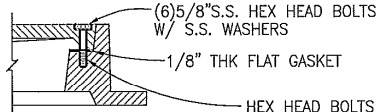


VULCAN #VM-42 OR
APPROVED EQUAL

NOTE:
LID SHALL HAVE TWO (2)
TYPE 4 PICK BAR



PLEASE SPECIFY TOP OR BOTTOM FLANGE WHEN ORDERING.
FOR TOP FLANGE ORDER No. V-1800-5 (East Jordan Iron Works, inc.)
FOR BOTTOM FLANGE ORDER No. V-1600-5 (East Jordan Iron Works, inc.)
THE WATER-TIGHT MANHOLE SETS (V-2600-5) FEATURE SIX STAINLESS STEEL
BOLTS IN COUNTERSUNK POCKETS AND A SEALING FLAT GASKET IN THE RING SET.
BOLTING PADS REDUCE THE STANDARD CLEAR OPENING BY TWO TO THREE INCHES.



WATER-TIGHT DETAIL

	DIMENSIONS						COVER		RING		SET
	A	B	C	D	E	F	CASTING	WEIGHT	CASTING	WEIGHT	WEIGHT
V-1600-5	38	2	36	46	6	40	41600523	365 LBS	41600510	320 LBS	685 LBS
V-1800-5	38	2	36	46	6	40	41600523	365 LBS	41600510	320 LBS	685 LBS
V-2600-5	38	2	36	46	6	40	42600523	365 LBS	41600511	320 LBS	685 LBS



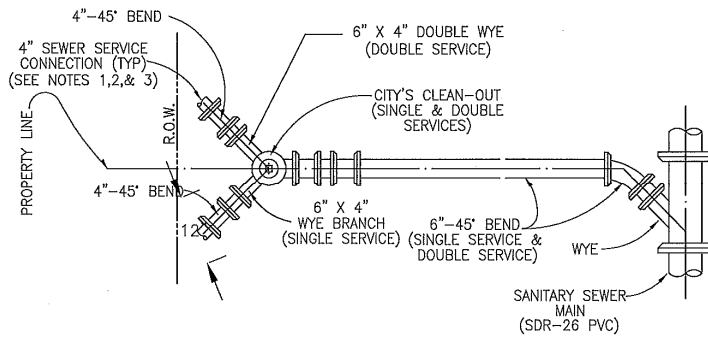
APPROVED BY: CS
DATE: JULY 2009

CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

STANDARD WASTEWATER MANHOLE
SET

STANDARD

UT 205



PLAN

NOTES:

1. FOR INSTALLATION WITHIN UTILITY EASEMENTS, SERVICE CONNECTION RISERS MAY BE LOCATED INSIDE THE PROPERTY LINE.
2. THE CLEAN-OUT SHALL BE EXTENDED 12" ABOVE FINISH GRADE.
3. EACH SERVICE CONNECTION SHALL BE PLUGGED WATER-TIGHT WITH AN APPROVED CAP OR PLUG.
4. CONNECT YARD LINE TO SERVICE LINE WITH RIGID, SOLVENT-WELDED PVC TO PVC ADAPTER.
5. SOLIDLY TAMP BACKFILL AT LEAST ONE FOOT (1'-0") ABOVE TOP OF PIPE. SERVICES UNDER PAVED AREAS SHALL BE BACKFILLED TO THE SAME SPECIFICATIONS AS SHOWN ON PAVEMENT REPLACEMENT DETAIL.
6. CONTRACTOR SHALL MARK ON A CLEAN SET OF PLANS THE FINAL STATIONING OR DISTANCE AND DIRECTION FROM MANHOLE TO EACH SERVICE LATERAL AND GIVE TO ENGINEER FOR RECORD DRAWING PURPOSES.
7. ANY DEVIATION FROM THESE METHODS MUST BE APPROVED BY THE CITY ENGINEERING DEPARTMENT.
8. SERVICE LINE MATERIAL SHALL BE P.V.C., SDR-26.
9. SEWER SERVICE SLOPE TO BE 45' OFF CENTERLINE OF MAIN.



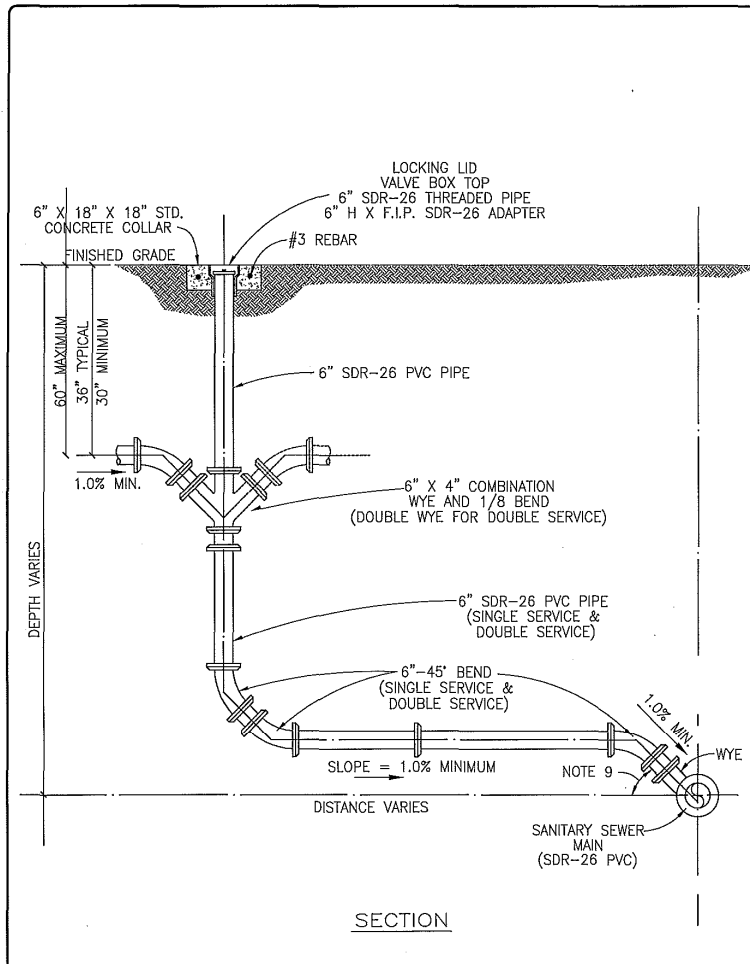
APPROVED BY: CS
DATE: JULY 2009

CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

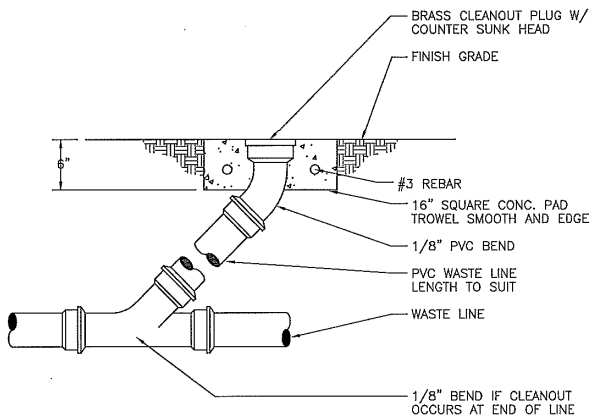
SEWER SERVICE CONNECTION
PLAN VIEW

STANDARD

UT 206



	APPROVED BY:	DATE:	CITY OF TAYLOR WILLIAMSON COUNTY, TEXAS STANDARD DETAILS SEWER SERVICE CONNECTIONS SECTION VIEW	STANDARD UT 207
	CS	JULY 2009		



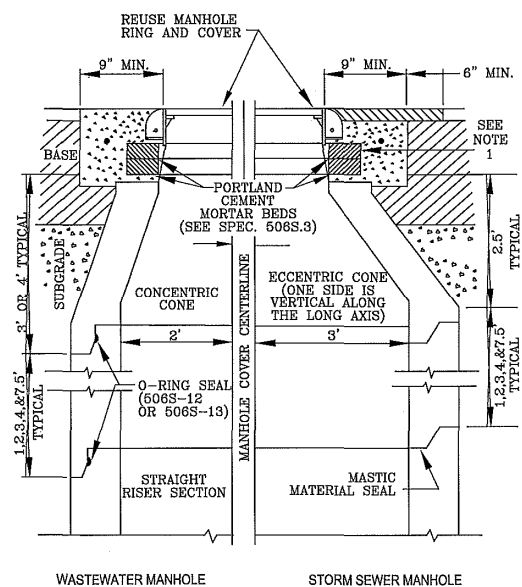
APPROVED BY: CS
DATE: JULY 2009

CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

SANITARY SEWER CLEANOUT

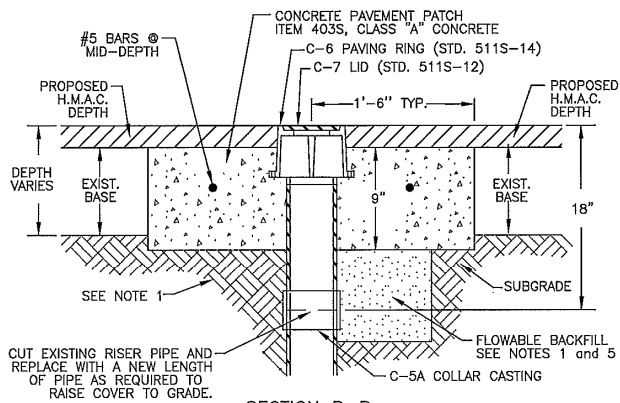
STANDARD

UT 208



1. SEE "MINOR MANHOLE ADJUSTMENTS" STANDARD 506S-4 FOR CLARITY.
2. MANHOLE SECTIONS TEMPORARILY REMOVED FOR ROADWAY CONSTRUCTION MAY BE REUSED ONLY WITH THE WRITTEN APPROVAL OF THE INSPECTOR. O-RINGS SHALL NOT BE REUSED.
3. ANY COMBINATION OF REMOVING THE CONCRETE RINGS, AND / OR THE MANHOLE CONE, AND/OR THE STRAIGHT RISER SECTION OF THE MANHOLE SHALL BE ACCEPTABLE TO TEMPORARILY LOWER THE MANHOLE GRADE FOR ROADWAY RECONSTRUCTION.
4. WHILE THE MANHOLE IS TEMPORARILY LOWERED, A SHEET OF STEEL SUITABLE TO SUPPORT ALL IMPOSED LOADS SHALL BE USED TO COVER THE OPENING. FOR WASTEWATER MANHOLES, THE STEEL PLATE SHALL BE SET IN MORTAR TO PREVENT LEAKAGE.
5. SUBGRADE AND BASE MATERIALS SHALL BE COMPACTED TO 95% AND 100% DENSITIES, RESPECTIVELY, COMPACTION SHALL BE BY MECHANICAL TAMPING TO THE DENSITIES SPECIFIED.

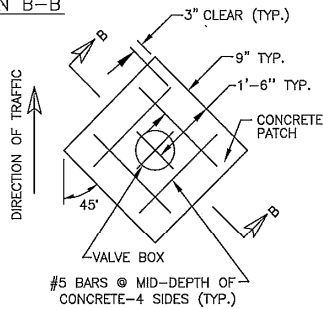
	APPROVED BY:	DATE:	CITY OF TAYLOR WILLIAMSON COUNTY, TEXAS STANDARD DETAILS	STANDARD UT 209
	CS	JULY 2009		
			MAJOR MANHOLE ADJUSTMENT	



SECTION B-B

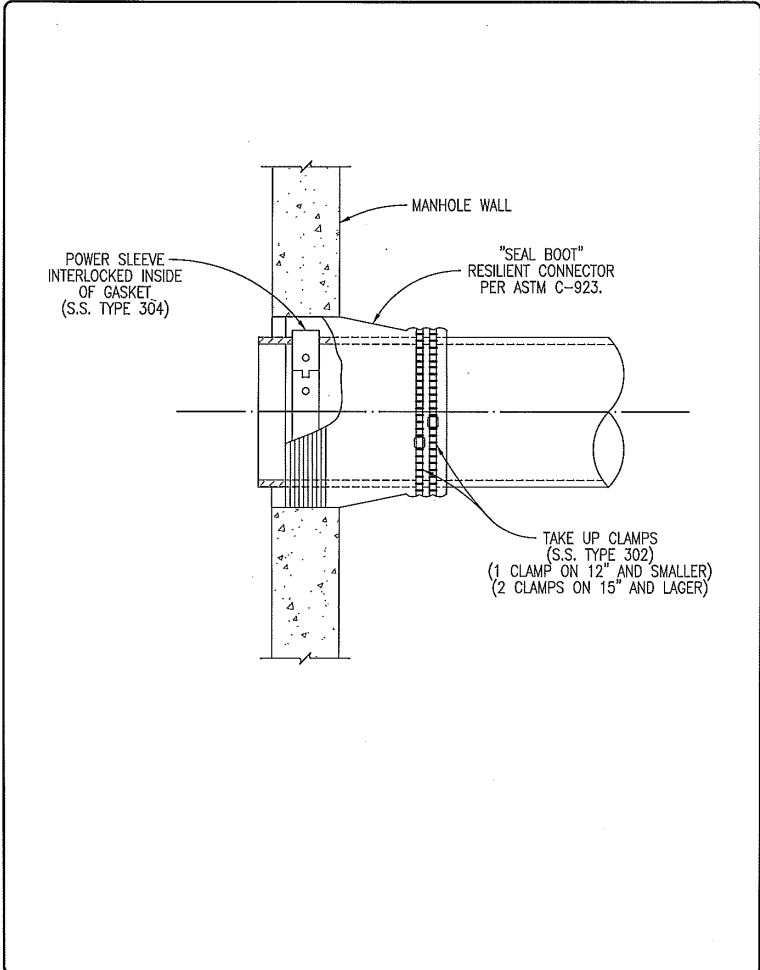
NOTES:

1. SUBGRADE SHALL BE COMPACTED AS PER ITEM 201S, SUBGRADE PREPARATION.
2. VALVE CASTINGS SHALL BE ADJUSTED TO GRADE AFTER FINAL LIFT OF OVERLAY IS IN PLACE.
3. CLEAN VALVE BOX OF ALL DEBRIS DOWN TO THE BASE OF THE VALVE.
4. REMOVE EXISTING RISER PIPE DOWN 18" AND REPLACE TO THE NEW ELEVATION NEW PIPE AND A C-5A CASTING.
5. WHERE CAST IRON CASTINGS TO BE REMOVED REQUIRE EXCAVATION GREATER THAN 20" DEEP, CONTRACTOR MAY ELECT TO FILL EXCAVATION WITH CONTROLLED LOW STRENGTH MATERIAL (ITEM 402S) TO THE UNDERSIDE OF THE CONCRETE PAVEMENT PATCH IN LIEU OF COMPACTED BACKFILL.
6. REINFORCING STEEL SHALL MEET ITEM 406S, REINFORCING STEEL.

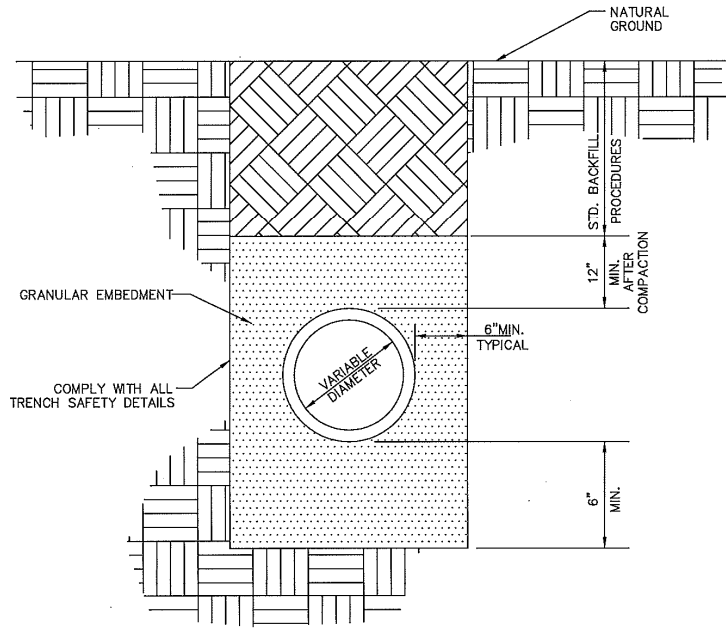


PLAN VIEW

	APPROVED BY:	DATE:	CITY OF TAYLOR WILLIAMSON COUNTY, TEXAS STANDARD DETAILS	STANDARD UT 210
	CS	JULY 2009		
			VALVE BOX ADJUSTMENT DETAIL	



	APPROVED BY:	DATE:	CITY OF TAYLOR WILLIAMSON COUNTY, TEXAS STANDARD DETAILS	STANDARD UT 211
	CS	JULY 2009		
			FLEXIBLE "SEAL BOOT" CONNECTOR	



NOTE:
COST OF GRANULAR EMBEDMENT IS INCLUDED
IN PRICE BID PER LINEAR FOOT OF SEWER
PIPE.



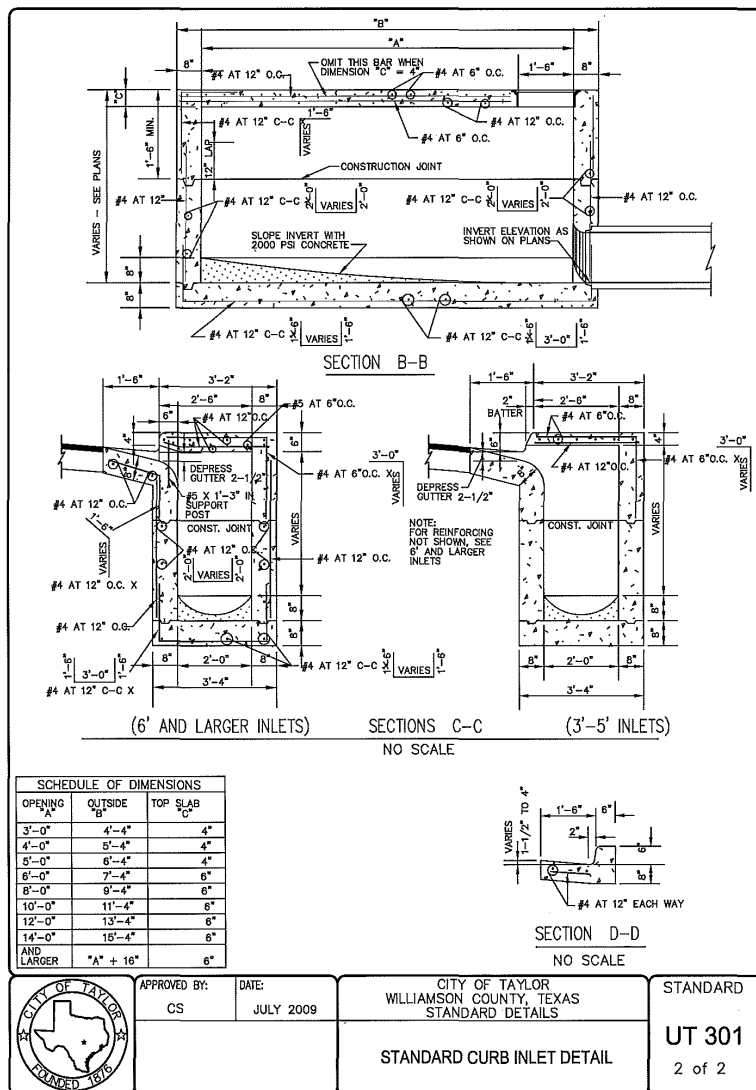
APPROVED BY: CS
DATE: JULY 2009

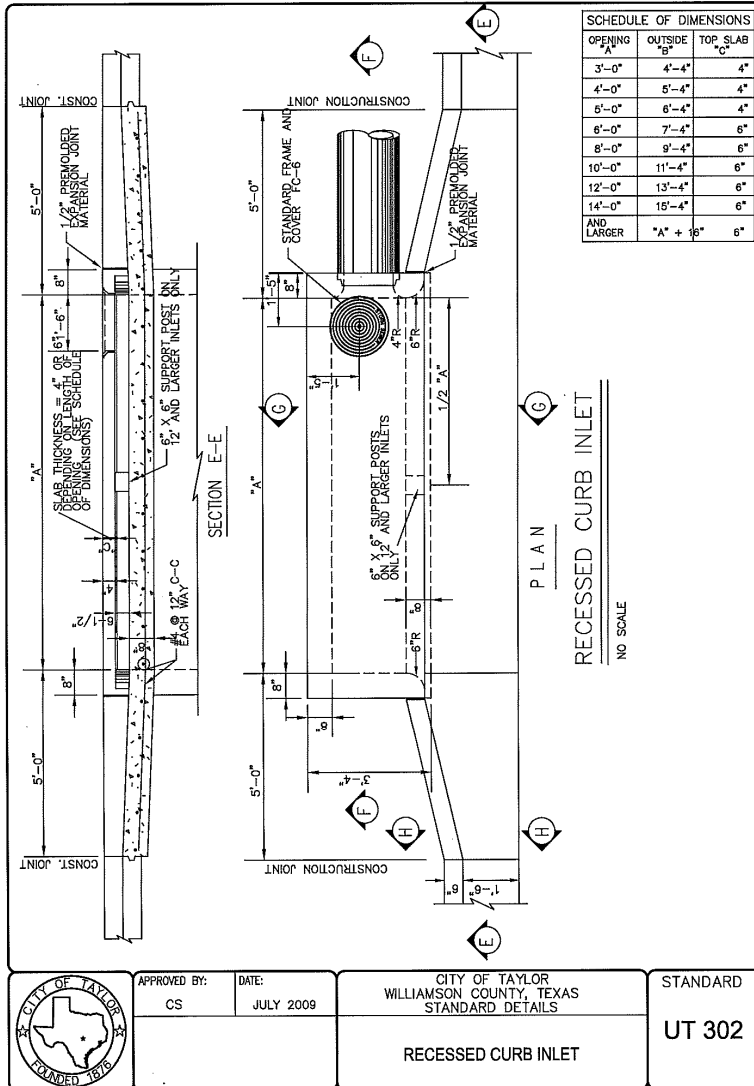
CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

STORM DRAIN PIPE EMBEDMENT
DETAIL

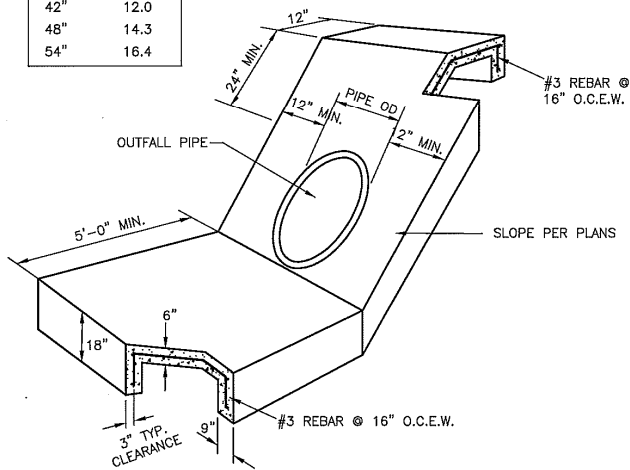
STANDARD

UT 300





MINIMUM RIP-RAP QUANTITIES	
PIPE	SQ. YDS.
18"	6.2
24"	6.9
27"	7.8
30"	9.5
36"	10.4
42"	12.0
48"	14.3
54"	16.4



NOTES:

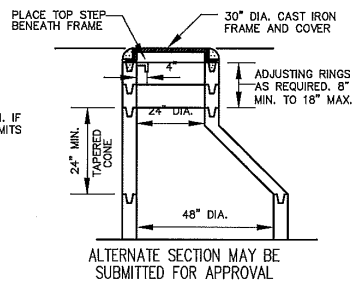
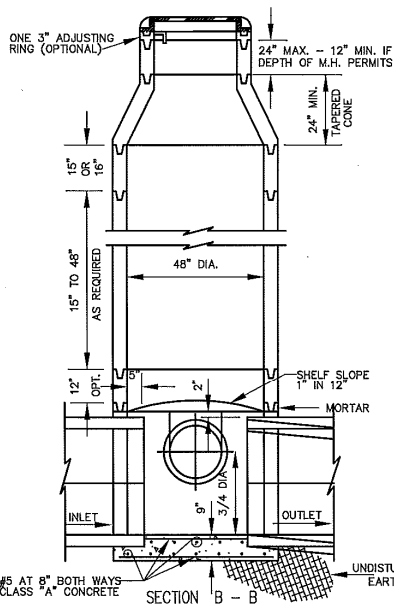
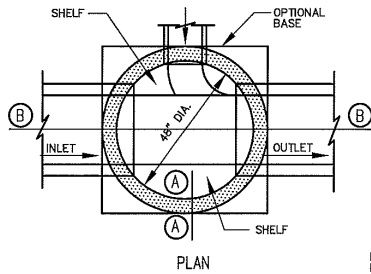
1. WHEN HEADWALLS AND WINGWALLS ARE REQUIRED, THEY SHALL CONFORM TO THE TEXAS HIGHWAY DEPARTMENT STANDARDS, OR AS DIRECTED BY THE CITY.
2. ENERGY DISSIPATERS SHALL BE INSTALLED IF PIPE VELOCITY EXCEEDS 5.0 F.P.S., OR AS DIRECTED BY THE CITY.



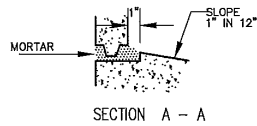
APPROVED BY:	DATE:
CS	JULY 2009

CITY OF TAYLOR WILLIAMSON COUNTY, TEXAS STANDARD DETAILS
RIP-RAP AT PIPE OUTFALL

STANDARD
UT 304



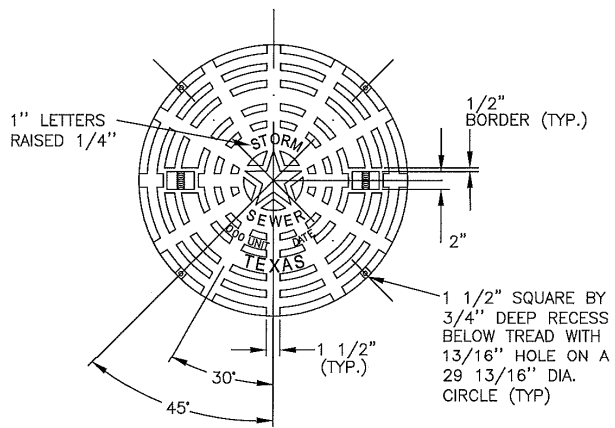
NOTES: USE 24" FRAME AND COVER
MINIMUM SIZES:
4" DIA. - 18" TO 30"
5" DIA. - 36" TO 42"
6" DIA. - 48" TO 54"
7" DIA. - 60" TO 66"
SIZES TO BE USED ARE
DEPENDENT ON SEWER
ANGLES.



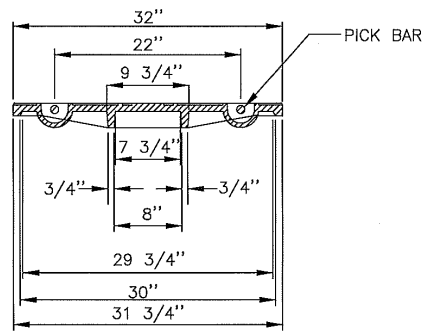
APPROVED BY: CS
DATE: JULY 2009

CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS
STORM SEWER MANHOLE - PRECAST

STANDARD
UT 305



LID PLAN VIEW



LID SECTION VIEW



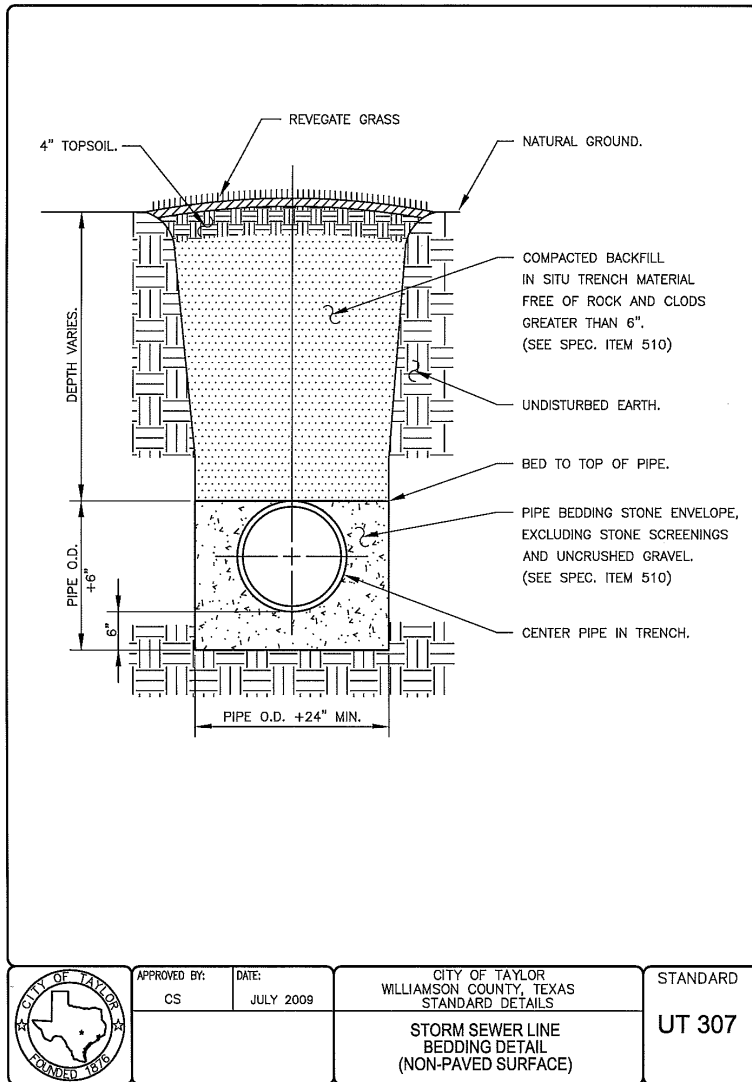
APPROVED BY: CS
DATE: JULY 2009

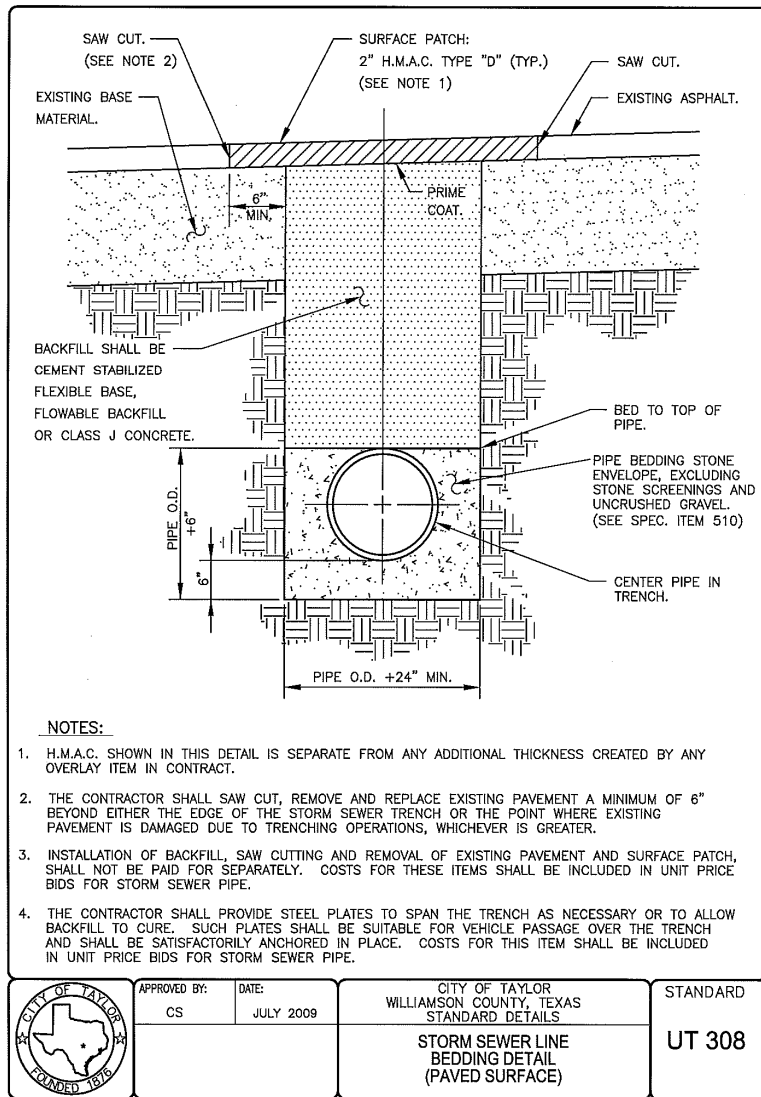
CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

STANDARD STORM SEWER
MANHOLE COVER (32")

STANDARD

UT 306





([Ord. No. 2009-37, § 3, 2-9-2010](#) ; [Ord. No. 2019-32](#), § 2(Exh. A), 12-12-2019; [Ord. No. 2020-03](#), § 2(Exh. A), 5-14-2020)

ORDINANCE NO. 2021-02

THIS ORDINANCE AMENDS ORDINANCE NO. 2009-37, ORDINANCE NO. 2019-32, AND ORDINANCE NO. 2020-03 WHEREIN AN ENGINEERING MANUAL WAS ESTABLISHED AND SUBSEQUENTLY AMENDED FOR MINIMUM STANDARDS AND CONSTRUCTION DETAILS FOR ALL PUBLIC FACILITY IMPROVEMENTS, WITH STANDARD DETAILS FOR EACH TYPE OF IMPROVEMENT; AND THIS ORDINANCE ESTABLISHES A REVISED ENGINEERING MANUAL FOR THE PURPOSES SET FORTH IN THE REVISED ENGINEERING MANUAL ATTACHED HERETO AND INCORPORATED INTO THIS ORDINANCE; PROVIDING AN EFFECTIVE DATE; PROVIDING A PENALTY CLAUSE; PROVIDING A REPEALER CLAUSE; AND PROVIDING A SAVINGS CLAUSE.

WHEREAS, the City Council of the City of Taylor desires to amend the Engineering Manual establishing new standards and construction details for all public facility improvements, with standard details for each type of improvement; and

WHEREAS, any reference to the Engineering Manual shall be a reference to the Engineering Manual attached hereto and incorporated by reference herein for all purposes;

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF TAYLOR, TEXAS, that:

SECTION 1. All of the facts recited in the preamble to this Ordinance are hereby found by the City Council to be true and correct and are incorporated by reference herein and expressly made a part hereof, as if copied herein verbatim.

SECTION 2. The City Council hereby modifies and amends the Engineering Manual as previously adopted in Ordinance 2009-37 and subsequently amended in Ordinance 2019-32 and Ordinance 2020-03 to the Engineering Manual now set forth in Exhibit "A" attached hereto and incorporated in this Ordinance as though fully transcribed herein for all purposes.

SECTION 3. Prior ordinances of the City or the Taylor City Code dealing with or applicable to the Engineering Manual are hereby amended to the extent of any conflict herewith, and all ordinances or parts thereof conflicting or inconsistent with the provisions of this Ordinance as adopted and amended herein, are hereby amended to the extent of such

conflict. In the event of a conflict or inconsistency between this Ordinance and any code or ordinance of the City, the terms and provisions of this Ordinance shall govern.

SECTION 4. This Ordinance shall take effect immediately from and after its passage and publication in accordance with the provisions of the Tex. Loc. Gov't. Code.

SECTION 5. Any person, firm or corporation violating any of the provisions or terms of this Ordinance shall be guilty of a misdemeanor and upon conviction shall be subjected to a fine not to exceed the sum of Five Hundred and No/100 Dollars (\$500.00) for each offense, except where a different penalty has been established by State law for such offense in which event the penalty shall be fixed by state law and if deemed a violation of any provision which governs fire safety, zoning or public health or sanitation shall be punished by a penalty of fine not to exceed the sum of Two Thousand and No/100 Dollars (\$2,000.00) for each offense; and each and every day such violation is continued shall be deemed to constitute a separate offense.

SECTION 6. It is hereby declared to be the intention of the City Council that the sections, paragraphs, sentences, clauses and phrases of this Ordinance are severable and, if any phrase, sentence, paragraph or section of this Ordinance should be declared invalid by the final judgment or decree of any court of competent jurisdiction, such invalidity shall not affect any of the remaining phrases , clauses, sentences, paragraphs and sections of this Ordinance, since the same would have been enacted by the City Council without the incorporation of this ordinance of any such invalid phrase, clause, sentence, paragraph or section. If any provision of this Ordinance shall be adjudged by a court of competent jurisdiction to be invalid, the invalidity shall not affect other provisions or applications of this Ordinance which can be given effect without the invalid provision, and to this end the provisions of this Ordinance are declared to be severable.

In accordance with Article VIII, Section 1 of the City Charter, Ordinance No. 2021-02 was introduced before the Taylor City Council on the 10th day of December, 2020.

PASSED, APPROVED, and ADOPTED on this _____ day of _____, 2021.

Brandt Rydell, Mayor

ATTEST:

Dianna Barker, City Clerk

APPROVED AS TO FORM:

Ted W. Hejl, City Attorney

CERTIFICATE

THE STATE OF TEXAS

COUNTY OF WILLIAMSON

I, Dianna Barker, being the current City Clerk of the City of Taylor, Texas, do hereby certify that the attached is a true and correct copy of Ordinance No. 2021-02, passed and approved by the City Council of the City of Taylor, Texas, on the ____ day of _____, 2021, and such Ordinance was duly introduced, passed, approved and adopted at meetings open to the public and notices of the meetings, giving the dates, places, and subject matter thereof, were posted as prescribed by Government Code Section 551.043.

Witness my hand and seal of office on this ____ day of _____, 2021.

Dianna Barker
City Clerk



City Council Meeting December 10, 2020 Transmittal Letter

STRATEGIC PILLAR

- ☒ Streets/Infrastructure
- ☒ Quality of Life
- ☒ Economic Vitality

Agenda Item #: 8
Agenda Title: Receive Legislative update from Texas Municipal League about the upcoming 87th Legislative Session

Council Action to be taken: Receive presentation

Department Submitted: City Management

Staff Contact: Jeff Jenkins, Deputy City Manager

1. PURPOSE/DESCRIPTION

Monty Wynn, TML Director of Grassroots and Legislative Services, will present an update on the election and upcoming legislative issues in the 87th Texas Legislature. Jessie Ancira, Jr., TML Senior Legislative Advisor, will also be present for the presentation.

2. STAFF ANALYSIS / BACKGROUND / PRIOR COUNCIL ACTIONS

It is important for the City and residents to stay informed about the current upcoming session and advocate on our behalf with the legislature.

In recent legislative sessions, Cities have been impacted significantly through legislation that has eroded some municipal authority. Further detrimental bills need to be opposed, as it will affect the overall ability for our community to self-govern in a variety of areas. Texas is a big state, and one size fits all approach at the State level does not work as each city has its own unique set of issues to manage. Cities represent the closest level of government to the people.

3. PROS and CONS

<u>PROS</u>	<u>CONS</u>
Stay informed on the upcoming session	NA

4. RECOMMENDATION

Receive the update as presented.

5. FUNDING SOURCE

N/A

6. TIMELINE

N/A

7. OTHER OPTIONS (In order of preference)
--

N/A

8. ATTACHMENTS

8a. [PowerPoint Presentation](#)

Texas Municipal League Legislative Outlook

Empowering Texas Cities to Serve their Citizens

Monty Wynn, Director of Grassroots and Legislative Services

Jesse Ancira Jr., Senior Legislative Advisor



2020 Historic Election

- Almost 2 million new registered voters
- 2.3 million more votes this election cycle than in 2016
- Little change in state legislative makeup
 - House: 83 Rs and 67 Ds
 - Senate: 18 Rs and 13 Ds



Time to Govern: Speaker's Race and 2021 Capitol Access

- New election brings new Speaker
- What does access look like in a pandemic?
 - Unprecedented session ahead
 - Capitol has been closed since March
 - Expect limited access to the capitol and members
 - Your voice matters most



State Level Issues: What will dominate legislative discussions?

- Budget
 - Decline in sales tax revenue (declining revenue across the board)
 - Increased Medicaid Healthcare Expenditures
 - Increase in public school funding
 - Original budget shortfall of \$4.6 billion but new estimates show slightly lower deficit
- Redistricting
 - Census says April Issuance of Texas numbers
- Criminal Justice Reform and Law Enforcement
 - Qualified Immunity
 - Body Camera funding
 - Big 3 pushing for legislation that would freeze property tax revenues for cities that restructure police budgets
 - Police Unions/Civil Service Statutes



Other State Issues

- Covid-19 Response and Disaster Authority
 - Public Health Costs
 - Economic Response
 - Governor/Local Government emergency response authority
 - Expect legislation that would limit the authority of the Governor and local governments during a pandemic/disaster
- Expanded Gaming and Marijuana legalization
 - Revenue generating ideas during a tight budget year



Texas Municipal League: Policy Development Process

- Lengthy policy process by which hundreds of city officials direct TML staff on what to advocate on.
- **October 2019**: TML membership considered resolutions at the 2019 Annual Conference at the business meeting.
- **June 2020**: TML President appoints delegates to TML Municipal Policy Summit.
- **August 2020**: TML Municipal Policy Summit, a two-day virtual policy briefing at which delegates make recommendations for the League's 2021-2020 legislative program.
- **October 2020**: Municipal Policy Summit report, along with any other resolutions, considered at the annual business meeting at Annual Conference.
- **December 2020**: TML Board finalizes League's 2021-2020 legislative program.



TML Legislative Philosophy

- TML membership has determined that the League's approach to the 2021 session will be guided by principals that spring from a deeply rooted TML legislative philosophy.
- The League will vigorously oppose any legislation that would erode the authority of Texas city officials to govern municipal affairs.
- Cities represent the level of government closest to the people. They bear the primary responsibility for the provision of capital infrastructure and for ensuring our citizens' health and safety. Thus, cities must be ensured of a predictable and sufficient level of revenue and must resist efforts to diminish that revenue.
- The League will oppose limitations on the ability of cities (and TML) to advocate for local decision-making in their communities.



TML Proposed Legislative Program

- The TML Board has routinely determined that TML's highest priority goal is the defeat of legislation deemed detrimental to cities. TML priorities are as follows:
- Defeat legislation that would erode municipal authority in any way, impose an unfunded mandate, or otherwise be detrimental to cities, especially legislation that would:
 - Provide for state preemption of municipal authority in general;
 - Impose further revenue and/or tax caps of any type;
 - Erode the ability of a city to issue debt;
 - Erode municipal authority related to development matters and land use decisions;
 - Erode the authority of a city to be adequately compensated for uses of ROWs; and
 - Limit the ability of city officials to use municipal funds to communicate with legislators.



TML Proposed Legislative Program

- TML Priority Package also includes the passage of any legislation that:
 - Eliminates reauthorization provisions for the collection and use of street maintenance sales and use tax and authorize cities to reimburse themselves for actual election costs required for tax implementation;
 - Promotes increased flexibility under the Texas Open Meetings Act, including flexibility for public participation, so long as the legislation doesn't mandate any new costs on local governments;
 - Allows cities the option of using either an official newspaper or website for the publication of legal notices;
 - Authorize a city to annex across a road to bring a voluntarily requested area into the city limits;
 - Makes beneficial amendments to H.B. 2439, the building materials bill;
 - Increases the maximum hiring age for firefighters in a civil service city from age 35 to 45, or eliminate the maximum hiring age altogether;



TML Proposed Legislative Program, continued

- TML Priority Package also includes the passage of any legislation that:
 - Treats broadband service similar to other critical utility infrastructure to ensure statewide availability and affordability for citizens and businesses; and
 - Modernizes the Texas Universal Service Fund through revenue sources that ensure long-term sustainability for the provision of broadband services.



Pre-filed Bills of Interest

<u>Year</u>	<u>Total Bills Introduced *</u>	<u>Total Bills Passed</u>	<u>City-Related Bills Introduced</u>	<u>City-Related Bills Passed</u>
2001	5,712	1,621	1,200+	150+
2003	5,754	1,403	1,200+	110+
2005	5,369	1,397	1,200+	105+
2007	6,374	1,495	1,200+	120+
2009	7,609	1,468	1,500+	120+
2011	6,303	1,410	1,500+	160+
2013	6,061	1,437	1,700+	220+
2015	6,476	1,329	1,600+	220+
2017	6,800	1,220	2,000+	290+
2019	7,500	1,400	2,000+	300+

* Includes bills and proposed Constitutional amendments; regular session only.

Pre-filed Bills of Interest

H.B. 447 (Moody) – Cannabis: would: (1) authorize the possession, use, cultivation, manufacture, distribution, sale, and testing of cannabis and cannabis products; (2) authorize the licensing of dispensing organizations; (3) authorize an application fee for licenses to operate a dispensing organization; (4) preempt cities from enacting, adopting, or enforcing a rule, ordinance, order, resolution, or other regulation that prohibits or unreasonably restricts the cultivation, production, processing, dispensing, transportation, or possession of cannabis or cannabis products or the operation of a cannabis grower, cannabis establishment, cannabis secure transporter, or cannabis testing facility as authorized by the bill; (5) provide that cities may adopt regulations consistent with the bill governing the hours of operation, location, manner of conducting business, and number of cannabis growers, cannabis establishments, or cannabis testing facilities; (6) provide for certain criminal penalties; and (7) provide for a tax on cannabis or cannabis products, 10% of which would go to cities in which cannabis establishments are located in proportion to number of cannabis establishments.



Pre-filed Bills of Interest

H.B. 233 (Murr) – Building Materials and Methods: would provide that the prohibition on city regulation of building products, materials, or methods passed by H.B. 2439 in 2019 does not apply to a city with a population of less than 25,000.

H.B. 425 (K. King) – Rural Broadband: would, among other things: (1) create a rural broadband service program; and (2) require the Public Utility Commission to provide financial assistance from the universal service fund for broadband service providers who elect to participate in the rural broadband service program for the purpose of offering retail broadband service in underserved rural areas of the state at rates comparable to the benchmark rates established by the Federal Communications Commission.



Pre-filed Bills of Interest

H.B. 310 (Springer) –Disease Presumption: would, among other things, provide: (1) that for purposes of reimbursement of medical expenses for public safety employees, including peace officers, firefighters, and emergency medical services personnel, who are exposed to a contagious disease, a disease is not an “ordinary disease of life” if the disease is the basis for a disaster declared by the governor for all or part of the state; (2) that a firefighter, peace officer, or emergency medical technician who contracts a disease that is the basis for a state declared disaster that results in total or partial disability is presumed to have contracted the disease during the course and scope of employment as a peace officer, firefighter, or emergency medical technician.



Pre-filed Bills of Interest

H.B. 291 (Murr) – Aggregate Production Operations: would: (1) require an aggregate production operation first required to be registered on or after January 1, 2016, that occupies at least 10 acres, and is located in the boundaries or extraterritorial jurisdiction of a city, to file a reclamation plan and provide a related performance bond; and (2) provide that the reclamation plan described in (1) may be amended with approval of the city.



Keys to Success: What's next?

- Continue to engage your delegation and community. Tell your story and provide the facts. Members need to hear from you.
- Find ways to include and increase citizen involvement.
- Find ways to include and increase business involvement.





Questions?



City Council Meeting December 10, 2020 Transmittal Letter

STRATEGIC PILLAR

- ☒ Streets/Infrastructure
- ☐ Quality of Life
- ☐ Economic Vitality

Agenda Item #: 9

Agenda Title: **Consider Authorizing Award of the Construction Contract for the Mustang Creek Wastewater Treatment Plant Improvements Project to Archer Western Construction, LLC.**

Council Action to be taken: Authorize construction contract

Department Submitted: Public Works

Staff Contact: Jacob Walker, HDR Engineering, City Engineer
Troy St. Tours, HDR Engineering, Project Manager
Jim Gray, Director of Public Works

1. PURPOSE/DESCRIPTION

This item refers to the bid proposal from Archer Western Construction, LLC. for constructing needed improvements at the Mustang Creek Wastewater Treatment Plant.

2. STAFF ANALYSIS / BACKGROUND / PRIOR COUNCIL ACTIONS

- March 14, 2019 – Infrastructure Bond included funds for replacing the Mustang Creek Wastewater Treatment Plant Influent Lift Station pumps.

The wastewater treatment plant has been in service for decades and there are several units that need rehabilitation to support continued operation and minimize risks for service failure. The Influent Lift Station pumps have been in service over twenty years and have had problems indicating they are near the end of their service life. Additionally, some of the pump suction and discharge isolation valves are not functional, which prohibits isolating a pump for service. The Base Bid item for this project includes replacing the lift station pumps, suction and discharge valves and piping and related electrical equipment.

An Alternate Bid item was included in the project for replacing the Clarifier No. 3 effluent launder (trough). The existing steel clarifier launder is severely corroded and is beyond its service life. Additionally, the launder is located away from the clarifier tank wall, which creates issues for safe access and maintenance. The Alternate Bid improvements include replacing the existing steel launder with a concrete launder, including a fiberglass weir and baffle plate, that is connected directly to the clarifier tank wall.

Three contractors submitted bid proposals for the Base and Alternate Bid Items, and Archer Western was the low responsive bidder for both items. Archer Western's Base Bid (Lift Station) is \$1,356,640 and their Alternate Bid (Clarifier No. 3) is \$226,800, for a Total Combined Bid of \$1,583,440. The Engineer's Opinion of Probable Construction Cost for the project was \$1,400,000 for the Base Bid, and \$250,000 for the Alternate Bid, for a Total of \$1,650,000.

BID SUMMARY			
Bid Item	Archer Western Construction, LLC.	Matous Construction	Legion Development, LLC.
Base Bid – Lift Station Improvements	\$1,356,640	\$1,360,140	\$1,409,440
Alternate Bid – Clarifier No. 3 Improvements	\$226,800	\$350,000	\$274,400
Total	\$1,583,440	\$1,710,140	\$1,683,840

Though the Clarifier No. 3 improvements were not included in the Bond, Staff have reviewed the remaining funds and determined there are sufficient funding to construct both the Base and Alternate Bid Items while maintaining adequate funds for completing the remaining bond project, which is recommended.

3. PROS and CONS

<u>PROS</u>	<u>CONS</u>
- There are sufficient Bond funds to include the Clarifier No. 3 Alternative Bid Item in the construction contract, rather than delaying the needed improvements. - Constructing the Clarifier No. 3 improvements will improve accessibility and maintenance for the plant operators and minimize the risk of operational failure.	- There are no Cons for constructing the improvements, since they are needed and will improve plant safety and maintenance and reduce operational risks. - The improvements do utilize a portion of the Bond.

4. RECOMMENDATION

Recommend accepting the Base and Alternate Bids of Archer Western Construction, LLC. for the combined total of \$1,583,440 for constructing the Influent Lift Station and Clarifier No. 3 improvements.

5. FUNDING SOURCE

2019 Infrastructure Bond.

6. TIMELINE

Construction Contract Execution: January 2021

Construction Duration: Eleven months (330 calendar days) to Final Completion

7. OTHER OPTIONS (In order of preference)
--

1. Accept only base bid and delay constructing the Clarifier No. 3 improvements.
2. Reject all bids.

8. ATTACHMENTS

- 9a. [Recommendation to Award Construction Contract from HDR for Archer Western Construction, LLC – includes a detailed bid tabulation as an attachment](#)
- 9b. [Mustang Creek Wastewater Treatment Plant Improvements Power Point Presentation](#)



November 24, 2020

Mr. Jim Gray
Public Works Director
City of Taylor
400 Porter Street
Taylor, Texas
Via email to: Jim.Gray@taylortx.gov

RE: Mustang Creek Wastewater Treatment Plant Improvements Project – Recommendation to Award Construction Contract

Dear Mr. Gray:

On November 17, 2020, HDR Engineering assisted the City in opening bids for the above referenced project. The bid included a base bid item for replacing the Influent Lift Station pumps and electrical equipment, and an alternate bid item for replacing the Clarifier No. 3 launder. Three responsive bid proposals were submitted for constructing the project, with total base bid prices ranging from \$1,356,640 to \$1,409,440, and alternate bid prices ranging from \$226,800 to \$350,000. A detailed Bid Tabulation is enclosed for your review. Based on our review of the bids submitted, Archer Western Construction, LLC. Of Irving, Texas is the apparent low bidder for both the base and alternate bid items.

A background check was performed on Archer Western via a telephone poll of owners for similar projects the contractor has worked on in Texas over the past several years. The overall impression from the references we spoke with was that the Archer Western provides quality work in a timely and professional manner, and that all would gladly work with them again. Additionally, the company appears to have a solid financial condition, credit rating, and payment history.

Bell Contractors plans for Mr. Luke Hill to be the construction project manager and for Mr. Paul Salazar to be the construction superintendent. These individuals were involved with the projects discussed in the background check and have extensive municipal utility construction experience.

Based on the information presented, HDR recommends the City of Taylor accept the base and alternate bids of Archer Western Construction, LLC. for the combined total of \$1,583,440. We will prepare the Notice of Award Letter and other contract documents to be forwarded to Archer Western Construction, LLC. if the City of Taylor concurs with this recommendation.

Sincerely,
HDR Engineering, Inc.

Troy St. Tours, PE
Project Manager

Enclosure: Detailed Bid Tabulation



City of Taylor, TX
Mustang Creek WWTP Improvements
Bids Opened 11/17/2020, 2:15 PM



Bidder				Archer Western		Matous Construction	
Acknowledgement of Addendum 01					✓	✓	
Bid Security					✓	✓	
Qualifications Statement Section 00 45 13					✓	✓	
Vendor Compliance to State Law Section 00 45 46					✓	✓	
Identification of Proposed Subcontractors					✓	✓	
Identification of Proposed Suppliers					✓	✓	
BASE BID ITEMS							
Bid item #	Description	Quantity	Units	Unit Price	Total Price	Unit Price	Total Price
1	Influent Lift Station Improvements (demolition, pumps, piping, appurtenances, electrical and HVAC replacement	1	LS	\$ 886,000.00	\$ 886,000.00	\$ 780,000.00	\$ 780,000.00
2	Influent Lift Station Electrical Room HVAC system demolition and replacement	1	LS	\$ 22,000.00	\$ 22,000.00	\$ 24,000.00	\$ 24,000.00
3	Temporary Wet Well Dewatering System	1	LS	\$ 50,500.00	\$ 50,500.00	\$ 100,000.00	\$ 100,000.00
4	ALLOWANCE: Headworks SCADA RTU modifications and associated PLC programming, instrumentation field wiring terminations, local control stations, recalibration of the Influent Flow, Lift Station Wet Well level and Headworks flow readings, programming updates to the PLC control system and radio telemetry system and the VTScada HIM software, related submittals and O & M manuals and training startup for specified instruments and equipment in the integrator's scope (see attached proposal with deliverables and exclusions)	1	LS	\$ 60,140.00	\$ 60,140.00	\$ 60,140.00	\$ 60,140.00
5	Electrical and instrumentation to include starters, VFDs, breakers, disconnects, conduit, wiring and all other tiems not covered in bid item 3	1	LS	\$ 338,000.00	\$ 338,000.00	\$ 396,000.00	\$ 396,000.00
TOTAL BASE BID (SUM OF ITEMS 1-5)					\$ 1,356,640.00		\$ 1,360,140.00
ALTERNATE BID ITEMS							
ALT 1	Clarifier No. 3 existing launder demolition, installing new concrete launder with fiberglass reinforced plastic weir and baffle plate, pipe connections, skimmer arm extensions and scum box relocation	1	LS		\$ 226,800.00	\$ 350,000.00	\$ 350,000.00
TOTAL ALTERNATE BID PRICE (SUM OF ITEMS ALT 1)					\$ 226,800.00		\$ 350,000.00
TOTAL BASE BID PLUS ALTERNATE BID PRICE					\$ 1,583,440.00		\$ 1,710,140.00
Bidder				Legion Development, LLC			
Acknowledgement of Addendum 01					✓		
Bid Security					✓		
Qualifications Statement Section 00 45 13					✓		
Vendor Compliance to State Law Section 00 45 46					✓		
Identification of Proposed Subcontractors					✓		
Identification of Proposed Suppliers				Not Included			
BASE BID ITEMS							
Bid item #	Description	Quantity	Units	Unit Price	Total Price		
1	Influent Lift Station Improvements (demolition, pumps, piping, appurtenances, electrical and HVAC replacement	1	LS	\$ 824,100.00	\$ 824,100.00		
2	Influent Lift Station Electrical Room HVAC system demolition and replacement	1	LS	\$ 22,800.00	\$ 22,800.00		
3	Temporary Wet Well Dewatering System	1	LS	\$ 50,100.00	\$ 50,100.00		
4	ALLOWANCE: Headworks SCADA RTU modifications and associated PLC programming, instrumentation field wiring terminations, local control stations, recalibration of the Influent Flow, Lift Station Wet Well level and Headworks flow readings, programming updates to the PLC control system and radio telemetry system and the VTScada HIM software, related submittals and O & M manuals and training startup for specified instruments and equipment in the integrator's scope (see attached proposal with deliverables and exclusions)	1	LS	\$ 60,140.00	\$ 60,140.00		
5	Electrical and instrumentation to include starters, VFDs, breakers, disconnects, conduit, wiring and all other tiems not covered in bid item 3	1	LS	\$ 452,300.00	\$ 452,300.00		
TOTAL BASE BID (SUM OF ITEMS 1-5)					\$ 1,409,440.00		
ALTERNATE BID ITEMS							
ALT 1	Clarifier No. 3 existing launder demolition, installing new concrete launder with fiberglass reinforced plastic weir and baffle plate, pipe connections, skimmer arm extensions and scum box relocation	1	LS	\$ 274,400.00	\$ 274,400.00		
TOTAL ALTERNATE BID PRICE (SUM OF ITEMS ALT 1)					\$ 274,400.00		
TOTAL BASE BID PLUS ALTERNATE BID PRICE					\$ 1,683,840.00		



I, Troy A. St. Tours, Texas PE 93972, do hereby certify this bid tabulation is accurate and true



Mustang Creek Wastewater Treatment Plant Improvements

- Influent Lift Station
 - Replace pumps, valves, piping and related electrical equipment
 - Restore isolation and pumping capabilities and reduce operational risks
- Clarifier No. 3
 - Replace launder, weir and baffle
 - Improve access, maintenance and reduce risks



Mustang Creek Wastewater Treatment Plant Infrastructure Bond Allocation

Wastewater Treatment Plant Improvements	Estimate
Wastewater Treatment Plant - Replace Influent Pumps and Valves	\$1,180,000
Wastewater Treatment Plant - Upgrade Clarifier #3	\$383,000
Total	\$1,563,000

2019 Infrastructure Bond Budget Status

CITY OF TAYLOR - 2019 INFRASTRUCTURE BOND PROGRAM				
PROJECT BUDGETS				
Status as of 11/19/2020				
PROJECT LIST	PROGRAM TOTALS			Total
	Construction	Design	CE&I	
STREETS (TUF)				
STREET RECONSTRUCTION PROJECT	\$ 5,560,514.45	\$ 983,042.91	\$ 496,802.87	\$ 7,040,360.23
N. LYNN STREET (W. Lake to Davis)				\$ -
W. LAKE DRIVE (Carlos Parker to Old Georgetown)				\$ -
ROBINSON STREET (Dead End to Frank)				\$ -
EDMOND PHASE 2 (6th St. to Cecelia)		\$ 398,485.00		\$ 398,485.00
3RD STREET PROJECT* (Shaw to Davis)	\$ 1,107,255.00			\$ 1,107,255.00
CDBG Funding	\$ (407,000.00)	\$ (82,203.00)		\$ (489,203.00)
DRAINAGE (MDUS)				
1ST/ROYAL/WALNUT**	\$ 343,950.00			\$ 343,950.00
UTILITIES				
Wastewater Treatment Plant - Replace Influent Pumps & Valves	\$ 1,586,440.00	\$ 272,600.00		\$ 1,859,040.00
W/WW Emergency Repair Project	\$ 408,025.65	\$ 62,300.00		\$ 470,325.65
Wastewater Lift Station Portable Generator	\$ 80,000.00	\$ 20,750.12		\$ 100,750.12
	\$ 8,679,185.10	\$ 1,654,975.03	\$ 496,802.87	\$ 10,830,963.00
	Project Cost Totals			\$ 10,830,963.00
	Bond Budget			\$ 11,070,000.00
	Remaining Bond Budget			\$ 239,037.00
*Uses CDBG Funding for Street Construction				
**Includes \$100,000 of property acquisition				
Estimated Cost				



City Council Meeting December 10, 2020 Transmittal Letter

STRATEGIC PILLAR

- ☒ Streets/Infrastructure
- ☒ Quality of Life
- ☒ Economic Vitality

Agenda Item #: 10
Agenda Title: Update and possible direction to staff regarding the maintenance of landscaping in public rights-of-way

Council Action to be taken: Receive update and provide direction if necessary

Department Submitted: Development Services/Public Works

Staff Contact: Tom Yantis, Assistant City Manager/Director of Development Services
Jim Gray, Public Works Director
Daniel Baum, Fire Chief

1. PURPOSE/DESCRIPTION

The purpose of this agenda item is to provide and update to the July 16 and August 27, 2020 Council discussions on right-of-way maintenance.

2. STAFF ANALYSIS / BACKGROUND / PRIOR COUNCIL ACTIONS

On July 16, 2020 staff presented information to City Council regarding the responsibility of property owners to maintain landscaping within alleys and the parkway portion of the public rights-of-way.

Following the presentation Council reaffirmed the ordinance requirements and directed staff to take the following steps:

1. Notify any property owners for whom the City had been maintaining the parkway in front of their properties that the City would no longer provide that maintenance.
2. Prepare an inventory of all alleys to identify the current condition and develop a prioritization of alley maintenance.
3. Work with the Tree Advisory Board to develop strategies for dealing with the maintenance of trees within the public rights-of-way.

On August 27th, staff provided the following update to Council on what had been accomplished since the July 16th meeting.

Property Owner Notification

- Public Works provided notice to property owners whose properties backup to Mallard Lane.

- Development Services has created a database of all property owners along Main Street (Hwy. 95) and 2nd and 4th Streets and began mailing notice last week.
- Code Enforcement will begin monitoring these corridors and notifying any property owners who do not maintain the parkway according to the ordinance requirements.

Alley Inventory

- The City Manager authorized a task order with HDR to prepare a geodatabase of all alleys in the City, perform desktop and field reconnaissance to determine the current condition of the alleys and to provide the results in a GIS format for staff to use to prioritize which alleys need to be addressed first from a maintenance standpoint.

Tree Advisory Board

- Staff met with the Tree Advisory Board on August 12, 2020.
- The Tree Advisory Board suggested the following:
 - Engage the County Extension Agent and Texas Forest Service as resource for property owners.
 - Consider hiring a consultant to prepare an inventory of public trees.
 - Consider having the Tree Board members prepare a video for property owners regarding tree care best practices.
 - Consider seeking grant funds to provide financial resources to property owners who cannot afford to maintain their trees. The Board can help identify potential grants.
 - The Tree Advisory Board could be used to review applications for financial assistance once a fund is created.
 - Utilize the City's newsletter to provide information on tree maintenance to property owners.

Since the August 27th meeting, staff has continued to enforce the right-of-way maintenance ordinances and is seeking additional feedback from City Council as to the most effective way to address this issue. The alley inventory is nearly complete with HDR make final edits to the GIS data and we will present that information at a subsequent meeting.

Staff would like the focus of this agenda item to be the mowing of major corridor rights-of-way and tree trimming of trees overhanging the street.

3. PROS and CONS

<u>PROS of current system</u>	<u>CONS of current system</u>
• City resources are not being used to mow rights-of-way and trim trees within the rights-of-way • Property owners are able to maintain the landscaping	• Major corridors do not have a consistent level of landscape maintenance leading to some unsightly areas • Code enforcement staff workload has increased significantly to deal

consistent with their overall landscape plan	with right-of-way maintenance cases (which are typically not high priority cases) • The code enforcement process is slow and does not resolve an unsightly condition quickly • Tree maintenance by individual property owners is inconsistent and in some cases harmful to the trees due to lack of knowledge of property tree care
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4. RECOMMENDATION

Staff recommends that Council consider a hybrid approach that includes the City taking responsibility for mowing major corridors on a routine basis. Staff also recommends that the City develop a funding proposal for FY 2021-22 that would provide funds for the City to use to address tree trimming needs in areas where streets are most difficult to navigate by emergency vehicles. This would allow the City to hire a contractor to properly trim trees and efficiently take care of an entire street at a time instead of having to work with each individual property owner.

5. FUNDING SOURCE

If Council is in favor of the staff recommended approach, a funding proposal will be presented at a future meeting.

6. TIMELINE

N/A

7. OTHER OPTIONS

Council could direct staff to continue with the current method of enforcement.

8. ATTACHMENTS

10a. [Code Enforcement report](#)

Code Enforcement Report Regarding Right-of-way Maintenance Cases

August 1 to November 20, 2020 (16 weeks)

	Total	%	
TOTAL new enforcement cases received	294		
New tall grass cases	86	29%	
New tall grass cases along the major corridors (these cases are included in the new tall grass cases above)	21	7%	3 cases still open
New low hanging tree cases	58	20%	14 cases still open

The images below represent an issue with enforcement where one property owner quickly addressed the notice to trim the vegetation overhanging the right-of-way while the adjacent owner did not and it took an extensive code enforcement process before compliance was achieved. (As an aside, and illustrating the importance of maintenance, there was a fire hydrant that had been hidden in the overgrown vegetation).



The image below illustrates an issue related to mowing the right-of-way on Mallard behind the houses that face Brewers Place. We were able to get most of the property owners to mow the area behind their fences, but we had to pursue six of them through enforcement and abatement. So, there was a period of time when we had tall grass and weeds in patches along this fence line until the abatement could occur.



The image below illustrates the issue of improper tree trimming.

