

AGENDA

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

APRIL 14, 2011, 6:00 P.M.

CALL TO ORDER AND DECLARE A QUORUM

INVOCATION

PLEDGE OF ALLEGIANCE

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.)

CONSENT AGENDA

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

1. Minutes for March 24, 2011. (Susan Brock)
2. Approve Ordinance 2011-12 adopting Engineering Manual and modifying the Subdivision Ordinance. (John Elsdon)
3. Approve professional services agreement with Sledge Engineering, LLC to design the Airport West Wastewater Main project. (Danny Thomas)

REGULAR AGENDA; REVIEW/DISCUSS AND CONSIDER ACTION

4. Proclamation: National Telecommunicator Week is April 10-16, 2011. (Mayor Pro Tem)
5. Proclamation: April is Fair Housing Month. (Mayor Pro Tem)
6. Proclamation: Relay for Life, April 15-16, 2011. (Mayor Pro Tem)
7. Consider awarding contract for the Bull Branch North wastewater line. (Bob vanTil)
8. Consider appointment of Associate Judge to the Taylor Municipal Court of Record. (Jim Dunaway)
9. Consider approving Resolution R11-12 creating an Assistant Fire Chief position. (Pat Ekiss)
10. Consider professional services agreement with Sledge Engineering, LLC, to manage airport runway clearing project. (Danny Thomas)
11. Consider approving Resolution R11-11 regarding temporary street closures for Main Street activities and events. (Deby Lannen)
12. Consider request from Main Street Advisory Board to sell wine and beer and to allow consumption throughout the festival area for the Zest Fest, 2011. (Deby Lannen)
13. 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.
 - Legal issues associated with November 23, 2010 City of Taylor Annexation
14. Executive Session II. The Taylor City Council will conduct a closed executive meeting pursuant to the provisions of the Open Meetings Law, Chapter 551, Government Code, and the authority contained in Section 551.087 to discuss or deliberate regarding commercial and/or financial information on a business prospect that the City of Taylor, Texas, seeks to have locate, stay, or expand in or near the City of Taylor, Texas, and with which the City of Taylor, Texas, is conducting economic development negotiations and/or deliberate the offer of financial or other incentives to the business prospect.

- Project Venture
15. Executive Session III. The Taylor City Council will hold a closed executive meeting pursuant to the provisions of the Open Meetings Law, Chapter 551, Government Code, in accordance with the authority contained in Section 551.074 to discuss personnel matters.
 - Annual evaluation of City Manager, Jim Dunaway.
 16. Consider action from either Executive Session. (Council)

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. I certify that the notice of meeting was posted in the Taylor City Hall Lobby before 6:00 pm on April 11, 2011 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 Daily Press.

Posted By: _____
Susan Brock, City Clerk



***City Council Meeting
April 14, 2011
Agenda Item Transmittal***

Agenda Item #: 1
Agenda Title: Minutes for March 24, 2011.
Council Action: Motion to approve or approve with corrections
Initiating Department: City Management/City Clerk
Staff Contact: Susan Brock, City Clerk

1. INTRODUCTION/PURPOSE

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 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. DESCRIPTION/ JUSTIFICATION

N/A

3. FINANCIAL/BUDGET

N/A

4. RECOMMENDATION

Approve as submitted or amend with changes noted.

5. REFERENCE FILES

1a. Minutes, March 24, 2011

The City Council of the City of Taylor met on March 24, 2011, at City Hall, 400 Porter St., Taylor, Texas. Mayor Pro Tem McDonald declared a quorum and called the meeting to order at 6:00 p.m. with the following present:

Council Member Chris Gonzales
Council Member Chris Osborn

Jim D. Dunaway, City Manager
Jeff Straub, Asst. City Manager
Ted Hejl, City Attorney
Susan Brock, City Clerk

INVOCATION

Jeff Straub led the group in prayer.

PLEDGE OF ALLEGIANCE

CITIZENS COMMUNICATION

Mr. Gumisindo Gonzales, 5432 FM 619 came forward during this time to encourage council to consider renaming FM 619 to Jerry Mehevec Boulevard. Mr. Bobby Eulenfeld, 2800 Thorndale Road, stated his preference to rename FM 619 to SPJST Road or leave it as it is.

CONSENT AGENDA

1. MINUTES FOR MARCH 10, 2011.
2. APPROVE ORDINANCE 2011-13 AMENDING THE INTERNATIONAL BUILDING CODE AND THE INTERNATIONAL RESIDENTIAL CODE AND ORDINANCE 2011-4 AMENDING ZONING ORDINANCE REGARDING FENCE AND SCREENING DEVICES.

ORDINANCE 2011-13

AN ORDINANCE OF THE CITY OF TAYLOR, TEXAS, AMENDING ORDINANCE 2006-16 ADOPTING VARIOUS CODES INCLUDING THE INTERNATIONAL BUILDING CODE AND THE INTERNATIONAL RESIDENTIAL CODE; DELETING A PERMIT REQUIREMENT FOR ALL FENCES WITHIN THE CITY OF TAYLOR EXCEPT FOR ANY FENCE LOCATED WITHIN A RIGHT OF WAY OR EASEMENT WHICH SHALL REQUIRE A PERMIT PRIOR TO CONSTRUCTION; AMENDING THE REQUIREMENTS IN THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL RESIDENTIAL CODE AS SET FORTH IN ORDINANCE 23006-16 BY DELETING A PERMIT REQUIREMENT FOR FENCES EXCEPT WHEN CONSTRUCTED IN A RIGHT OF WAY OR EASEMENT; HAVING A SAVINGS CLAUSE.

ORDINANCE 2011-4

AN ORDINANCE OF THE CITY OF TAYLOR, TEXAS, AMENDING ORDINANCE 2001-17, THE TAYLOR ZONING ORDINANCE , BY AMENDING SECTIONS 3.5.2, RESIDENTIAL ACCESSORY USES, AND 3.5.3, COMMERCIAL ACCESSORY USES, AND SECTION 11.1, TERMS DEFINED, IN ORDINANCE 2001-17 TO ALLOW SCREENING DEVICES TO BE ERECTED ON THE FRONT, SIDE OR REAR YARD OR ALONG ANY PROPERTY LINE; AND PROVIDING A SAVINGS CLAUSE.

3. APPROVE ORDINANCE 2011-11 VOTING DISTRICTS IN ANNEXED PROPERTIES.

ORDINANCE NO. 2011-11

AN ORDINANCE ASSIGNING ANNEXED TERRITORY TO THE CITY OF TAYLOR, TEXAS, WHICH PROPERTY IS DESCRIBED IN ORDINANCE 2010-30, ADOPTED SEPTEMBER 30, 2010, ORDINANCE 2010-45, ADOPTED NOVEMBER 23, 2010, ORDINANCE 2009-33, ADOPTED DECEMBER 17, 2009, AND ORDINANCE 2009-34, ADOPTED DECEMBER 17, 2009, TO THE VOTING DISTRICTS AFFECTED BY THE ANNEXATIONS; AND PROVIDING A SAVINGS CLAUSE.

4. CONCUR WITH PRELIMINARY FINANCIALS FOR FEBRUARY, 2011
5. APPROVE PROFESSIONAL SERVICES AGREEMENTS WITH SLEDGE ENGINEERING, LLC ASSOCIATED WITH THE SOUTHWEST WATER AND WASTEWATER PROJECTS.
6. APPROVE REIMBURSEMENT RESOLUTION R11-10 EXPRESSING OFFICIAL INTENT TO REIMBURSE CERTAIN EXPENDITURES OF THE CITY OF TAYLOR FOR MALLARD LANE DRAINAGE PROJECT.

Council Member Osborn moved to approve the consent agenda as presented and Council Member Gonzales seconded the motion. VOTE: Three voted AYE. Motion passed.

REGULAR AGENDA – REVIEW/DISCUSS & CONSIDER/ACTION:

7. CONDUCT PUBLIC HEARING AND CONSIDER APPROVING ORDINANCE 2011-8 REGARDING STREET NAMES FOR RECENTLY ANNEXED PROPERTIES.

John Elsdon, City Planner, presented the results of the thirty day comment period for renaming streets in the newly annexed areas. Mayor Pro Tem McDonald opened the public hearing and the following citizens came forward: Ronnie Rieger, President of the local SPJST Lodge and Gordon Druesdow, 5429 FM 619. Mr. Rieger read a letter sent to Council providing a history of the SPJST and urged their consideration in changing the name of FM 619 to SPJST Road. Mr. Druesdow stated his support for Mr. Rieger's suggestion. Hearing no other comments the Public Hearing was closed.

Council Member Osborn expressed his appreciation for the public submissions but stated his preference is to rename FM 619 to SPJST Road due to its long history at that location. Council Member Gonzales issued his support for staff recommendations as presented. Staff recommendations include: Continuing existing names for extensions of East Walnut, Old Thorndale Road, East 4th Street and North and South Main Streets. For the newly annexed streets: FM 619 to be

Jerry Mehevec Boulevard, for CR 404 to be Windy Ridge Road; CR 406 to be Black Waxy Road, CR 406 (east west portion) to be Buttercup Road; cutoff from CR 406 to be Buttercup Cutoff; and the North South Portion of Buttercup Road to be named Tower Lane (a water tower is located on this road). It was noted that a large number of residents asked that the name for FM 619 not be changed and should be taken into consideration.

With no further discussion, Council Member Osborn moved to approve Ordinance 2011-8 with names as presented excluding any change to FM 619 and Council Member Gonzales seconded the motion. VOTE: Three voted AYE. Motion passed.

ORDINANCE NO. 2011-08

AN ORDINANCE PROVIDING FOR THE RENAMING OF CERTAIN STREETS ANNEXED DURING 2010; PROVIDING FOR A PUBLIC HEARING; PROVIDING A REPEALING CLAUSE; AND PROVIDING A SEVERABILITY CLAUSE.

8. CONDUCT A PUBLIC HEARING AND CONSIDER INTRODUCING ORDINANCE 2011-12 TO CONSIDER ADOPTING THE ENGINEERING MANUAL AND MODIFYING THE SUBDIVISION ORDINANCE.

Mr. Elsdon asked Council to conduct a public hearing regarding the formal adoption of the engineering manual and modifying the subdivision ordinance. Mayor Pro Tem McDonald declared the Public Hearing open and Mr. Joe Naizer of 701 Sloan Street came forward to address Council. He expressed his concern for some of the language in the Ordinance not being specific enough and in need of more descriptors. In particular, he felt the phrase "built to the satisfaction of the City Staff" was too vague as it was used throughout the document. Mr. Casey Sledge, consulting city engineer, responded to his concerns and agreed to review the document further.

Hearing no further comment or discussion, Mayor Pro Tem McDonald closed the public hearing and asked Mr. Hejl to introduce the Ordinance as presented.

ORDINANCE NO. 2011-12

AN ORDINANCE OF THE CITY OF TAYLOR, TEXAS, AMENDING ORDINANCE 2001-16, ADDING A CHAPTER TO ADOPT THE ENGINEER MANUAL BY REFERENCE; AND PROVIDING A SAVINGS CLAUSE.

AN ORDINANCE OF THE CITY OF TAYLOR, TEXAS, AMENDING ORDINANCE 2001-16, ADDING A CHAPTER TO ADOPT THE ENGINEER MANUAL BY REFERENCE; AND PROVIDING A SAVINGS CLAUSE.

9. CONDUCT PUBLIC HEARING AND CONSIDER INTRODUCING ORDINANCE 2011-10 TO MODIFY THE 2003 INTERNATIONAL RESIDENTIAL CODE ADOPTED BY ORDINANCE 2006-16 TO REQUIRE

EROSION CONTROL FOR ALL SINGLE FAMILY AND DUPLEX RESIDENTIAL PROJECTS.

Mr. Elsdon presented a request to conduct a public hearing to modify the 2003 International Residential Code regarding erosion control policies. Mayor Pro Tem McDonald declared the Public Hearing open and Mr. Naizer came forward with a specific concern regarding the requirement for erosion control on all residential projects. Mr. Hejl pointed out that a list of exceptions was included in Appendix J as part of the Ordinance and that this issue has already been addressed.

Hearing no further comment or discussion, Mayor Pro Tem McDonald closed the Public Hearing and asked Mr. Hejl to introduce the Ordinance.

ORDINANCE NO. 2011-10

AN ORDINANCE OF THE CITY OF TAYLOR, TEXAS MODIFYING ORDINANCE 2006-16 ADOPTING THE 2003 FAMILY OF INTERNATIONAL BUILDING CODES, TO REQUIRE EROSION CONTROL MEASURES FOR RESIDENTIAL CONSTRUCTION.

10. CONSIDER AUTHORIZING CITY MANAGER TO NEGOTIATE AND EXECUTE A COST SHARING AGREEMENT FOR SANITARY SEWER AND OTHER ECONOMIC DEVELOPMENT INCENTIVES FOR PROJECT CHARTER.

Bob vanTil, Director of Community Development, presented a request to consider an economic development agreement with the Clark Travel company who recently purchased property within the city limits. The agreement would allow the city to contribute fifty percent of the cost of providing a sanitary sewer line with the Taylor EDC covering the remaining cost of the project. The City would also provide funding to pump the existing septic tank until the line is complete. By extending the sewer line to this property it could encourage future development in this area.

Council Member Osborn moved to authorize the City Manager to enter into negotiations with Clark Travel as directed and Council Member Gonzales seconded the motion. VOTE: Three voted AYE. Motion passed.

11. CONSIDER AMENDING LEASE AGREEMENTS FOR ACCESS TO CITY WATER TOWERS.

Mr. Dunaway presented a request from two of our cell tower tenants to consider amending their current lease agreements. Both AT&T and T-Mobile Texas have presented amendments to their existing contracts for a lower annual rate. Mr. Dunaway stated that with the addition of a guaranteed minimum number of five years that the proposed contracts offer some stability in a changing market. Council Member Osborn expressed his unwillingness to renegotiate their contracts for a lower annual rate and supported the existing contracts until they expire.

Council Member Gonzales moved to approve the amendment as presented and Mayor Pro Tem McDonald seconded the motion. VOTE: Two voted AYE; One vote NAY (Osborn). Motion passed.

12. CONSIDER APPOINTMENTS TO THE COMPREHENSIVE PLAN IMPLEMENTATION COMMITTEE.

At the March 10th council meeting Mr. Elsdon was asked to allow them additional time to consider appointments to the Comprehensive Plan Implementation Committee (CPIC). Council agreed to make the reappointments at this meeting but to bring the item back for Council Member Hill to have an opportunity to present any additional names for consideration at a future council meeting.

Council Member Gonzales moved to reappoint the eight members as presented and to appoint new member Karen Farley to the CPIC. Council Member Osborn seconded the motion. VOTE: Three voted AYE. Motion passed.

(Council adjourned into closed session at 7:40 p.m.)

13. EXECUTIVE SESSION I. The Taylor City Council will conduct a closed executive meeting pursuant to the provisions of the Open Meetings Law, Chapter 551, Government Code, and the authority contained in Section 551.087 to discuss or deliberate regarding commercial and/or financial information on a business prospect that the City of Taylor, Texas, seeks to have locate, stay, or expand in or near the City of Taylor, Texas, and with which the City of Taylor, Texas, is conducting economic development negotiations and/or deliberate the offer of financial or other incentives to the business prospect.

- Project Venture

14. 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.

- Legal issues associated with November 23, 2010 City of Taylor Annexation

15. CONSIDER ACTION FROM EITHER EXECUTIVE SESSION.

Mayor Pro Tem McDonald resumed the open meeting at 9:00 p.m. and stated that there was no action taken on any issue during either of the Executive Sessions.

ADJOURN

With no further business or action Mayor Pro Tem McDonald adjourned the meeting at 9:00 p.m.

John McDonald, Mayor Pro Tem

ATTEST:

Susan Brock, City Clerk



City Council Meeting April 14, 2011 Agenda Item Transmittal

Agenda Item #: 2

Agenda Title: Approve Ordinance 2011-12 modifying the Subdivision Ordinance to adopt the Engineering Manual by reference.

Council Action to be taken: Approve by consent

Initiating Department: Community Development

Staff Contact: John Elsdon, AICP, City Planner

1. INTRODUCTION/PURPOSE

The purpose of this item is to approve Ordinance 2011-12 modifying the Subdivision Ordinance to adopt the Engineering Manual by reference.

2. DESCRIPTION/ JUSTIFICATION

This is a housekeeping item that will adopt by reference the Engineering Manual to the Subdivision Ordinance. The Manual is intended to be an extension of the Subdivision Ordinance, containing requirements and details for public improvements. Adoption of the Manual by the Subdivision Ordinance will allow the City to apply penalties for non-compliance found within Chapter 4 of the Subdivision Ordinance.

3. FINANCIAL/BUDGET

4. TIMELINE CONSIDERATIONS

5. RECOMMENDATION

The Planning and Zoning Commission recommended approval of this item at a public hearing on March 8, 2011. Council held a Public Hearing on March 24 and this item is on the consent agenda for approval after a staff review with regards to comments from the last meeting.

6. REFERENCE FILES

- 2a. Ordinance 2011-12
- 2b. Engineering Manual

ORDINANCE NO. 2011-12

AN ORDINANCE OF THE CITY OF TAYLOR, TEXAS, AMENDING ORDINANCE 2001-16 "THE SUBDIVISION ORDINANCE OF THE CITY OF TAYLOR, TEXAS" ("ORDINANCE") BY REQUIRING COMPLIANCE WITH THE "CITY OF TAYLOR ENGINEERING AND MANUAL & DETAILS" ("MANUAL") AS A CONDITION OF COMPLIANCE WITH THE ORDINANCE; AMENDING GENERAL PROVISIONS, CHAPTER 1, SECTION 1.4 OF THE ORDINANCE BY MAKING THE MANUAL APPLICABLE TO THE ORDINANCE; BY AMENDING SECTION 1.5 OF THE ORDINANCE BY INCLUDING THE MANUAL AS PART OF THE ORDINANCE MINIMUM STANDARDS; BY AMENDING SECTION 1.6.1 OF THE ORDINANCE MAKING THE MANUAL A PART OF THE MEANINGS AND INTENT OF THE ORDINANCE; BY AMENDING SECTION 1.6.5 OF THE ORDINANCE MAKING THE MANUAL A PART OF THE NON-TECHNICAL AND TECHNICAL WORDS OF THE ORDINANCE; AMENDING CHAPTER 5, DEFINITIONS, OF THE ORDINANCE TO ADD A DEFINITION OF "THE CITY OF TAYLOR ENGINEERING MANUAL & DETAILS"; AND HAVING A SAVINGS CLAUSE.

WHEREAS, the Taylor City Council adopted Ordinance No. 2001-16 on or about April 12, 2001, as the "Subdivision Ordinance of the City of Taylor, Texas" which has heretofore been previously amended ("Ordinance"); and

WHEREAS, The Taylor Planning and Zoning Commission at its March 8, 2011, meeting considered the necessity of imposing the standards contained in the "City of Taylor Engineering Manual & Details" ("Manual") as a prerequisite and as a condition of compliance with the Ordinance; and

WHEREAS, the Taylor Planning and Zoning Commission determined it to be in the public interest that compliance with the Manual should be a condition of compliance with the Ordinance and recommended approval of the changes set forth in this Ordinance.

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

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 1, General Provisions, Sections 1.4, 1.5, 1.6.1, and 1.6.5 are hereby amended to read as follows:

1.4 Applicability:

The provisions of this Ordinance, including the "City of Taylor Engineering Manual & Details" and all appendices, shall apply to the development of all land within the City of Taylor, Texas, unless specifically provided otherwise in this Ordinance.

1.5 Minimum Standards and Conflicting Provisions:

The provisions of this Ordinance, including the "City of Taylor Engineering Manual & Details" and all appendices are the minimum standards necessary to accomplish its stated purposes. It is not the intent of this Ordinance to interfere with, abrogate or annul any private easement, covenant, deed restriction or other agreement between private parties. When the provisions of this Ordinance impose a greater restriction than imposed by such private agreements, the provisions of this Ordinance shall control. When private agreements impose a greater restriction than imposed by this Ordinance, such private agreements shall control.

1.6.1 Meanings and Intent:

All provisions, terms, phrases and expressions contained in this Ordinance shall be construed in accordance with the "City of Taylor Engineering Manual & Details" and their stated purpose.

1.6.5 Non-Technical and Technical Words:

Words and phrases shall be construed according to this Ordinance, including the "City of Taylor Engineering Manual & Details" and all appendices to this Ordinance, and then according to the common and approved usage of the language, and technical words and phrases shall also be construed according to this Ordinance, including the "City of Taylor Engineering Manual & Details" and appendices to this Ordinance, after which technical words and phrases shall be construed according to the peculiar and appropriate meaning acquired by them in the law.

SECTION 3. Chapter 5, Definitions is amended to include the following definition:

City of Taylor Engineering Manual & Details - the engineering manual adopted February 9, 2010, by Ordinance No. 2009-37, and any engineer manual adopted by the City of Taylor, Texas, by Ordinance after March 24, 2011, superseding or repealing Ordinance 2009-37.

SECTION 4. Ordinance No. 2001-16 as passed, previously amended, and as amended by this Ordinance shall otherwise remain in full force and effect.

SECTION 5. In the event any clause, phrase, provision, sentence, or part of this Ordinance or the application of the same to any person or circumstances shall for any reason be adjudged invalid or held unconstitutional by a court of competent jurisdiction, it shall not affect, impair, or invalidate this Ordinance as a whole or any part or provision hereof other than the part declared to be invalid or unconstitutional; and the City Council of the City of Taylor, Texas, declares that it would have passed each and every part of the same notwithstanding the omission of any such part thus declared to be invalid or unconstitutional, whether there be one or more parts.

In accordance with Article VIII, Section 1 of the City Charter, this Ordinance was introduced before the City Council of the City of Taylor, Texas, on the 24th day of March, 2011.

PASSED, APPROVED and ADOPTED on this the 14th day of April, 2011.

John McDonald
Mayor Pro Tem

ATTEST:

Susan Brock, City Clerk

APPROVED AS TO FORM:



Ted W. Hejl, City Attorney

THE STATE OF TEXAS

COUNTY OF WILLIAMSON

I, Susan Brock, 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. 2011-12, passed and approved by the City Council of the City of Taylor, Texas, on the 14 day of April, 2011, 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 this 14th day of April, 2011.

Susan Brock
City Clerk

City of Taylor Engineering Manual

Version - NOV 2009



City of Taylor Engineering Manual

I. Purpose / Introduction

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

II. 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 – This map should be accompanied with all drainage calculations. The Drainage Area Map must show all existing and proposed contours, existing and proposed storm sewers, and/or other drainage facilities.
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 and size 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 sewers, 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 sewers, and channels. Stationing shall be included on the plan view as well as the profile for all roads, water, sewer, storm sewer 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.
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. Plotting Drainage Features - Appropriate hydraulic grade line or water surface profile shall be plotted with all drainage design. Capacity, design discharge, velocity, and velocity head shall be noted on each segment of drainage facility in the profile whenever one or more of these parameters changes.
11. Erosion Control and Sedimentation Plan - an erosion control plan shall be submitted for all areas to be disturbed.
12. 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.
13. GIS Submittal Standards

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

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.

All parcel information must be converted to .DXF files.

One text style to be used for all.

Street Names should be in all capital letters.

No blocks or XREFS may be attached to a file to eliminate imbedded files. Detach COGO files and other survey files.

All submissions must be to scale.

No three dimensional objects

III. Testing / Inspection

All construction, such as grading, paving, drainage structures, storm sewer, 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.

- A. 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:

1. Subgrade when:

- a. All tests for subgrade have been witnessed by City and passed.
- b. The subgrade conforms to the Construction Plans.
- c. All grading, including ditches and erosion control, is complete.
- d. 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.

2. Flexible Base when:

- a. All tests for flexible base have passed.
- b. The flexible base conforms to the Construction Plans.

3. Other periodic inspections during testing; and

4. Final inspection when:

- a. All tests have passed.
- b. All improvements are complete and record drawings are revised as per construction.

- B. 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, at least one (1) business day's 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 testing **MUST** be witnessed by the City.

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. Cast in-place concrete structures with uninspected reinforcing steel will be considered defective and must be removed and replaced at Contractor's expense.

- C. 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.

D. Minimum Testing Requirements

1. Subgrade
 - a. Raw Subgrade (when lime or cement stabilized subgrade is not required for pavement design)
 - i. Soil characteristics including liquid limit, plastic limit, plasticity index, and sieve analysis.
 - ii. 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.
 - iii. Standard Proctor tests are required for each existing soil type.
 - b. Lime or Cement Stabilized Subgrade
 - i. Soil characteristics including liquid limit, plastic limit, plasticity index, and sieve analysis.
 - ii. 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.
 - iii. Standard Proctor tests are required for each existing soil type.
 - iv. 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.
 - v. Core or probe tests are required to show thickness of the subgrade every 500 feet (measured longitudinally along the roadway) with one test required in each cul-de-sac and eyebrow.
2. Base
 - a. Wet Ball Mill, Sieve Analysis, and P.I. tests shall be performed in accordance with TxDOT Standards.
 - b. 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. 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.
3. Hot Mix Asphaltic Concrete
 - a. A mix design is required to be submitted for the HMAC.
 - b. 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.
 - c. 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.
4. Portland Cement Concrete
 - a. A mix design is required to be submitted for the concrete.
 - b. Concrete shall be tested for slump, air content, and compression strength in accordance with ACI 318.
5. Storm Sewer
 - a. The compaction of backfill shall meet or exceed the requirements of the applicable details.
 - b. All storm sewer 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.
 - c. A City representative shall be present during the television inspection.
 - d. Televised Inspection Criteria
 - 1) All television equipment used shall have a minimum of two-hundred-twenty (220) lines of horizontal resolution. The picture shall be in color.
 - 2) All video information on DVD must have good picture quality.
 - 3) 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.
 - 4) 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.
 - 5) One DVD per visual televised inspection project shall be furnished to the Project Inspector.
 - 6) Recording must be done on DVD discs.
 - 7) All DVD's and run sheets shall be submitted to the City. All tapes and log sheets shall become the property of the City.
6. Water and Wastewater
- All water and wastewater testing shall comply with the City of Austin specifications for testing.

IV. 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.

A. 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*.

B. TEXAS ARCHITECTURAL BARRIERS ACT

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

C. 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.

D. CITY OF AUSTIN

The following City of Austin, TX Standard Specifications are incorporated into this Manual:
SECTION 500 – Pipe and Appurtenances

E. 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

V. Design Criteria

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.

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.

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.

DESIGN SPEED AND MAXIMUM GRADE

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

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

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.

Driveway Spacing and Design Criteria					
Description	Street Classification	Residential Driveway		Commercial Driveway	
		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'

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.
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 for roads per this manual.

STREET IMPROVEMENTS

Streets shall be constructed or reconstructed using either hot-mixed asphaltic concrete 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 report, sealed by a Licensed Professional Engineer, containing recommendations for subgrade thickness and content. The minimum subgrade and pavement thickness shall be in accordance with the specifications contained in this Section.

HOT-MIXED ASPHALTIC CONCRETE PAVEMENT SECTIONS

1. Local Streets

- Density controlled subgrade
- Fourteen (14") inches thick flexible base, Type A, Grade 2, (24") inches past the back of curb line.
- Two (2.0") inches Type "C"
- Lime Stabilized subgrade may be substituted for the above mentioned subgrade and a portion of the flexbase

2. Collector Streets

- 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

CONCRETE PAVEMENT SECTIONS

1. Local Streets

- Density 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

12. Collector Streets

- Density controlled 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

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.

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 insure 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.

STREET CONSTRUCTION

No work whatsoever will be initiated without the issuance of an Authorization of Construction letter

1. The street portion of the plat must be reviewed and approved by Fire Chief, Police Chief and City Engineer;
2. An Authorization of Construction letter must be obtained from the City before any construction is initiated;

CONCRETE PIPE

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

SUBGRADE

1. 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.

STREET SIGNS

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*.

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.

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.

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.

SIDEWALKS

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).

STREET LIGHTING

GENERAL REQUIREMENTS

1. 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:

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

2. 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.
3. Street lights shall be placed at approximately equal intervals between intersections and shall be subject to the approval of the City Engineer.
4. 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.

CUSTOM LIGHTING

1. The subdivider may elect to provide custom lighting in lieu of the required standard street lighting, subject to the approval of the city engineer.
2. 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.

WATER SYSTEM IMPROVEMENTS

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.

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.

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

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.

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

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

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:
 - 1) Mueller, Clow, American Darling and Kennedy
 - b. Approved manufacturers of sixteen (16") inch and larger butterfly valves are as follows:
 - 1) Mueller, Clow, American Darling and Kennedy

AIR RELEASE AND FLUSHING VALVES

1. 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.
2. 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.
3. A fire hydrant shall be required at high points on water lines smaller than twelve (12") inches for air relief and flushing.
4. Materials - Air release valves and air/vacuum valves shall meet or exceed the latest revision of AWWA C512.
5. 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

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.

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.

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.

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.

WASTEWATER SYSTEM IMPROVEMENTS

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".

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.

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.

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.

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.

c. 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.

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.
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.

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.
6. Installation

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

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.

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

DRAINAGE AND STORM SEWER IMPROVEMENTS

GENERAL

This section pertains to general design requirements for drainage and storm sewer construction in the City of Taylor. All drainage facilities shall be sized and designed in accordance with the City Engineer.

RUNOFF CALCULATIONS

1. 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. A unit hydrograph method is required for projects with larger drainage areas.
2. No matter which method is used to calculate runoff, 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. A developer or builder of commercial property greater than one-half (1/2) acre must follow the above guidelines.
3. Runoff computations shall be based upon fully developed watershed conditions in accordance with the land use projections in the latest comprehensive land use plan for the City of Taylor. 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.
4. Procedure for drainage areas less than one-hundred (100) acres.
 - a. Computation of storm water runoff for drainage areas less than one-hundred (100) acres shall be by the Rational Method, which 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.

The formula for calculation of runoff by the "Rational Method" is: $Q = CIA$

Where: Q = the maximum rate of discharge, expressed in cubic feet per second.

C = Coefficient of Runoff.

Park areas - No developed land	0.30
Developed Park sites	0.40
Single Family Residential	0.50
Duplex	0.60
Multiple Family	0.70
Schools	0.70
Churches	0.70
Neighborhood Commercial	0.70
Office Commercial	0.70
Commercial	0.85
Industrial	0.85

I = Intensity of Runoff in inches per hour

A = Drainage Area in acres.

- b. Time of concentration is the longest time, without interruption of flow by detention devices that a drop of water takes to flow from the farthest point of the drainage area to the point of concentration (i.e. the point

of design). The time of concentration is composed of the inlet time and the flow time in a conduit or channel to the point of design.

The inlet time shall be 10 minutes for property zoned multiple family, churches, schools, local business, central business, commercial, or industrial.

An inlet time of 15 minutes shall be used for property zoned for parks, cemeteries, agricultural, and single family residential.

When designing inlets and laterals, the time of concentration is equal to the inlet time. The design engineer will compare the above specified inlet times to the actual calculated inlet time by computing the flow time overland and along the gutter to the first inlet. Manning's Equation shall be used to determine flow time to the inlet. The design engineer may use the actual calculated or specified inlet time. In no case shall a longer inlet time be used than 10 minutes for multiple family, commercial, churches, schools, industrial and business areas and 15 minutes for parks, cemeteries, agricultural, and single-family areas.

5. Procedures for Drainage Areas greater than one-hundred (100) acres:

- a. For drainage areas in excess of one-hundred (100) acres where the use of the "Rational Method" does not provide reliable results, the use of a unit hydrograph method shall be made. The use of a unit hydrograph calculation will be based upon standard and accepted engineering principles subject to the approval of the City Engineer. Acceptable methods include the Soil Conservation Service (SCS) Technical Release Number 55 or the Corps of Engineers HEC-1 models for drainage areas one-hundred (100) acres or more.
- b. The unit hydrograph method shall be based upon fully developed watershed conditions assuming no effects from the small on-site detention facilities. The detention effects of large regional detention facilities can be taken into account in unit hydrograph methods.
- c. Circumstances that may require the use of a unit hydrograph method include sizing open channels, reclaiming floodplains, creating lakes, or building other types of drainage-related facilities on major drainage courses. Design engineers of these types of facilities should be aware that the requirement of designing for fully developed watershed conditions will mean that they may have to calculate these fully developed flows instead of using the flows calculated in certain Federal Emergency Management Agency's (FEMA) flood insurance studies or from studies performed for or approved by the City of Taylor.

DESIGN STORM FREQUENCIES

All developments submitted must provide data for the following design storm frequencies:

2-Year / 10-year / 25-Year / 100-Year

DRAINAGE FACILITY

Closed Storm Sewer Systems

Closed Storm Sewer Systems and
Inlets at Street Low Point or Sag

Culverts and Bridges

Concrete-lined Channels

Earthen Channels

DESIGN RECURRENCE INTERVAL

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 capacity.

100-year with positive overflow

100-year

100-year

100-year

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.

STREET AND ALLEY CAPACITY**1. Streets**

Streets and storm drains within new developments shall be designed so that storm water runoff resulting from a design storm of a one-hundred (100) year frequency is contained within the available right-of-way and/or drainage easement. The capacity of the street and right-of-way and/or easement and the storm sewer pipe working in combination must be designed for a capacity to safely contain a storm water from a design storm of one-hundred (100) year frequency.

2. Alleys

The flows created by the one-hundred (100) year storm shall be contained within the capacity of all paved alleys.

INLET PLACEMENT AND CAPACITY

1. The storm sewer system is to begin at the point where the storm water from a twenty-five (25) year frequency storm reaches curb depth, with the exception of collector streets on which storm sewer facilities must be designed to prevent one twelve (12') foot wide lane from ponding and on major streets on which storm sewer facilities must be designed to prevent one twelve (12') foot wide lane in each direction from ponding. At such point where the combined capacity of the street and storm drain system satisfies the twenty-five (25) year street capacity criteria (as previously described) but the one-hundred (100) year frequency storm runoff can not be contained within the right-of-way additional pick-up points (inlet capacity) shall be provided along with an increase in storm sewer capacity so that the one-hundred (100) year frequency storm runoff will be contained within the right-of-way.
2. Inlets shall be placed upstream from an intersection whenever possible. 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. The minimum inlet size shall be ten (10') feet. No more than twenty (20') feet of inlet shall be placed along one gutter at any given location. Minimum sizes of laterals shall be eighteen (18") inches.
4. Manholes are required every three hundred (300') feet. Junction boxes are required at every change in flow line direction, change in pipe size. Manholes are to be a minimum 4' in diameter and shall be precast or cast in place if approved by City Engineer.

PIPE DESIGN STANDARDS

1. Storm sewer conduit shall be sized to flow full. Manning's Equation shall be used to determine the conduit size.
2. Minimum and Maximum Velocities in Pipes
 - a. The minimum velocities in conduit shall be two and a half (2.5') feet per second.
 - b. Maximum velocity in the pipe shall not exceed fifteen (15') feet per second.
 - c. The maximum discharge velocities in the pipe 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, rip-rap protection).
3. In general, storm water shall be carried in concrete pipe conduit within the right-of-way but other types of

conduit can be used to carry storm water in areas other than the right-of-way. However, prior permission to use other conduit materials must be obtained from the City Engineer.

4. Hydraulic Gradient

- a. Conduits must be sized, and slopes must be set, such that runoff flows smoothly down the drainage system. To insure this smooth passage, the hydraulic gradient must be at the proper elevations. The hydraulic grade line shall be established and shown on the plans for all storm sewer design.
- b. The hydraulic grade line shall in no case be closer to the surface of the ground or street than one (1') foot. The HGL must not exceed the neck into the inlet.
- c. Hydraulic gradient calculations shall account for all head losses that may occur in the storm sewer line. Friction head loss shall be determined by direct application of Manning's Equation. Minor losses due to turbulence at structures shall be approved by City Engineer.

CULVERT DESIGN

1. One (1') foot of freeboard is required between the one-hundred (100) year water surface elevation and the top of curb elevation. Exceptions must be approved in writing by the City Engineer.
2. Culverts must be designed using standard engineering. Refer to the *Texas Department of Transportation (TxDOT) Hydraulic Design Manual*.
3. Culvert hydraulic grade line calculations shall consider both inlet and outlet control.
4. Culverts shall be skewed such that impacts due to the flood and normal flow angles of attack on the structure are minimized.
5. The maximum velocity through a culvert shall be fifteen (15') feet per second.
6. 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.
7. Hydraulic jumps shall not be allowed from face of culvert to fifty (50') feet from the culvert.

BRIDGES

1. Two (2') feet of freeboard is required between the one-hundred (100) year water surface elevation and the low chord of the bridge. Exceptions to this requirement must be approved by the City Engineer in writing.
2. 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.
3. Computer modeling programs used for the hydraulic analysis of bridges shall be HEC-RAS or HEC2.
4. Stream stability shall be assessed when designing the abutments and interior bents of the bridge. Scour shall be accounted for in the design.
5. Flow shall not be supercritical in an area from one-hundred (100') feet upstream from a bridge to twenty-five (25') feet downstream from a bridge.

CHANNELS

1. Open Channel Design Criteria: - either lined bottom or adjacent access easement
 - a. All open channel design must follow the Corp of Engineers Guidelines.

- b. Channels may be left in their natural state provided that the channel velocities are six (6.0') feet per second or less and that one (1') foot of freeboard is available during the design storm event.
 - c. If the natural channel is to be replaced by an improved channel, the flow from the one-hundred (100') year design flood must be contained within the improved channel while allowing for one (1') foot of freeboard.
 - d. Improved channels shall be trapezoidal shaped and include a lined section if the design velocity is greater than six feet per second. Lining types such as concrete, rock walls and gabions may be used upon approval of the City Engineer. The maximum velocity allowed in concrete lined channels is fifteen (15') feet per second.
 - e. Improved channels shall have minimum side slopes of:
 - 4 feet horizontal to 1 foot vertical for earthen, grassed-lined side slopes.
 - 2 feet horizontal to 1 foot vertical for concrete-lined side slopes.
 - f. Where practicable, all unpaved channels should have sufficient grade to avoid ponding. A minimum slope of 0.50% is required for earthen channels and swales, except those used as part of a wetlands area. In areas where 0.50% cannot be obtained a pilot channel approved by the City may be used. All lined channels are to have a minimum slope of 0.50% and natural channels a minimum slope of 1.00%.
 - g. The developer or owner shall use low maintenance vegetation for vegetative cover, as approved by the City Engineer prior to planting.
2. Manning's Equation can be used to design channels and determine water surface elevations and velocities when backwater effects are negligible. Channels where backwater effects occur must be designed using models accepted by FEMA.
 3. All channel sections must consider and account for channel 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.
 4. The design of the channel lining shall take into account the super-elevation of the water surface around curves and other changes in direction. In general a radius that is three (3) times the top width of the water surface during the design storm event is recommended for channel bends.
 5. A chain link fence six (6') feet in height, or other improvements as approved on a case by case basis by the City Engineer, shall be constructed on each side of the lined channel.
 6. Articulating Concrete Block flexible channel linings are required in lieu of reinforced concrete lining with the approval of the City Engineer.
 7. 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.

ROAD SIDE SWALE DESIGN

Road side swales may be used along all roadways to convey drainage in accordance with the following criteria.

- a. Swales shall be designed to carry a one hundred (100) year storm and the back water effects of the most restrictive culvert to be placed in the swale.
- b. Swales shall at all times maintain a minimum thirty inch (30") depth.
- c. 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.

d. The side-slopes of all swales shall be 4:1 maximum.

e. The minimum allowable bottom slope in any swales shall be 0.50%.

f. Maximum allowable roughness coefficients and velocities for ditches are shown in (Table 3) and (Table 4) respectively.

g. All plan and profile sheets for new roadways shall show the one hundred (100) year hydraulic grade line (HGL) in the profile for each swale (profiles shall be split – left and right swale, top and bottom), the existing grade at the center of each swale, the proposed pavement centerline, proposed swale flow-line, roadway centerline stationing, and elevation information at one hundred foot (100') station intervals.

TABLE 3
ROUGHNESS COEFFICIENT “n” FOR USE IN MANNING EQ.

Materials of Construction	“n”
Monolithic Concrete Structure	0.013
Concrete Pipe	0.013
Corrugated Metal Pipe	0.024
Existing Earth Lined Channels	0.035 to 0.08
New Earth lined Channels	0.035
Rock Lined Channels	0.025 to 0.04
Concrete Lined Channels	0.015 to 0.025

Maximum Velocity: The velocities shown in (Table 4) are maximum allowable in each situation. If a lower velocity cannot be achieved velocity attenuation devices must be constructed or installed. If rock rip-rap is to be used it must be six inch (6”) diameter rock or greater.

TABLE 4
MAXIMUM VELOCITY

Type of Conduit	Maximum Velocity
Culverts	15 fps
Inlet Laterals	15 fps
Storm Sewers	12 fps
Open Channels, ditches and swales	8 fps
Concrete Lined Channels	12 fps

Driveway Culverts:

(1) All driveways and driveway culverts are the responsibility of the individual lot owner or developer. It is the developer's responsibility to insure that all lot owners are aware of this requirement. Driveway culverts shall be made of corrugated metal pipe (CMP) or reinforced concrete pipe (RCP). They shall have a minimum bottom slope of 0.50% and be no less than twenty-four feet (24') in length and no greater than fifty feet (50'). The minimum allowable driveway culvert size shall be fifteen inches (15”) in diameter at the smallest diameter.

(2) Concrete-Safety-Treatments (ends) are required for all new culverts in accordance with TxDOT standard details.

(3) A minimum of six inches (6”) of cover shall be placed above all new culverts below the lowest bank of the ditch.

(4) 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.

(5) Driveway culverts shall be shown at the most restrictive section to be anticipated for each lot, in the roadway plan and profile. The Hydraulic Grade Line (HGL) shall reflect the effects of backwater in the profile. Proposed upstream and downstream elevations for proposed culverts shall be shown in the plan and profile as well.

(6) All driveway culverts must be installed prior to issuance of building permits or construction activities on the individual lot.

Crossing Culverts:

(1) Crossing culverts shall be placed to relieve drainage at all low-points and drainage crossings. They shall be constructed of Class-III or better, Reinforced Concrete Pipe (RCP).

(2) The minimum bottom slope in all crossing culverts shall be 0.50%. The minimum allowable crossing culvert size shall be eighteen inches (18") in diameter.

(3) Safety ends or headwalls shall be constructed at the ends of all Crossing Culverts to protect the embankment from erosion and culvert from displacement. 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.

(4) All crossing 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.

DETENTION DESIGN

Runoff rates from site shall be limited to the rates that would be produced from pre-develop stream. Detention/retention facilities shall be designed for the one-hundred (100) year design flood according to the following criteria:

1. The minimum amount of storage volume of the detention basin shall be that volume required to reduce runoff rate to the undeveloped rate. Dedicated detention/retention basins shall also include an additional one foot of freeboard and two feet of sediment storage. The volume of runoff storage for drainage areas greater than one-hundred (100) acres shall be computed using unit hydrograph procedures. Acceptable unit hydrograph procedures are provided in Section 14.8.B.5 of this document.

For drainage areas less than one-hundred (100) acres, the above methods are recommended; however, an approximate routing method based on the rational formula is allowable.

2. All detention facilities designed shall consider the timing of the flood peak in the main channel into which the detention facility drains. Delaying the peak from a site in lower portions of a watershed may result in a higher peak on the main channel.
3. 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 of 0.50% towards the outlet structure is required for all grass lined detention facilities.
4. Detention areas in parking lots should take into consideration flooding of vehicles.
5. Drainage easements shall be provided for all regional detention/retention facilities and for other detention/retention facilities where two or more owners are involved.
6. Detention facilities shall be designed to empty in less than twenty-four (24) hours, unless it is also serving as an erosion control facility.

7. The owner shall maintain detention/retention facilities unless the facilities. Detention facilities must be properly maintained to function as intended over a long period of time.
 - a. Facilities should be mowed at least twice a year to control weeds and discourage woody growth.
 - b. 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 outlet structures.
 - c. Detention basins designed for sediment removal shall be maintained as specified in the maintenance plan and approved by the City with construction plan submittal.

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.
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 (10) cubic feet per second during the one-hundred (100) year storm event with a slope of 1.00%.
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.

LAKES

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.

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.

LOT TO LOT DRAINAGE

Grading and drainage of all residential lots shall be designed in a manner which will allow **a maximum of one lot to drain 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.

1. Sheet flow techniques shall be used for lot to lot drainage where possible.
2. Single lots shall accommodate their own drainage into an approved structure where topographic elevations allow this to occur.

DRAINAGE STUDIES AND ENGINEERING CERTIFICATION

PRELIMINARY DRAINAGE ANALYSIS GUIDELINES

The purpose of a Preliminary Drainage Analysis is to determine the need for drainage facilities and/or drainage easements either within the proposed development or offsite. A Preliminary Drainage Analysis is required for every subdivision plat or a development requesting a building permit on a parcel which does not have a previously approved Drainage Analysis, unless the city engineer has waived this requirement due to existing conditions. The Preliminary Drainage Analysis shall consist of the following information:

1. A topographical map drawn at a scale of 1" = 200' which depicts the watershed that drains to and across the subdivision or development. The map must include the subdivision and an area extending a minimum of 200' in all directions from the proposed subdivision. Sheets shall be either 22" X 34" in size and may contain sheet to sheet match lines. The map must include contour lines at five (5') foot vertical intervals in terrain with a slope of two (2%) percent or more, or two (2') foot vertical intervals in terrain with a slope of less than two (2%) percent. Data from the City topo maps will be acceptable where available. Data from USGS Quad sheets may be acceptable only where City topo maps are not available. The datum for topography shall be that of the United States Coast and Geodetic Survey or the City of Taylor GIS datum.

The map shall indicate any offsite or adjoining areas outside the limits of the area being developed which are relevant to onsite drainage. Show all significant physical features such as proposed or existing drainage and utility easements, water bodies, streams, railroads, parks, and drainage ditches. Show location of existing utilities including gas and petroleum lines, electric, telephone and TV cable. Also, the location of any existing structures located within the area being proposed for development. The plan shall include the building footprint and parking areas when the Preliminary Drainage Analysis is prepared for a building permit.

2. Calculation of the drainage areas, time of concentration, and storm water runoff rate for the 2, 25 and 100 year frequency storms.
3. Identification of special flood hazard areas as defined by the Flood Hazard Area Regulations Ordinance and as located by the current Flood Insurance Rate Map.
4. The Preliminary Analysis shall be sealed by a Licensed professional Engineer licensed by the State of Texas.

DRAINAGE STUDY GUIDELINES

A Drainage Study is required when it has been determined by the city engineer that the area being developed will require storm water drainage facilities or drainage easements either within the development or offsite. The following criteria shall be used for the developer's engineer to prepare a Drainage Study.

1. The study shall analyze the effect of the subdivision or the development on existing downstream and upstream drainage facilities. The study shall be sufficient to verify compliance with the drainage design criteria contained in this chapter.
2. The study shall include a topographical map as defined above in "Preliminary Drainage Analysis Guidelines."
3. Delineation and calculation of drainage areas together with proposed flow arrows shall represent flow patterns from runoff after all proposed improvements have been installed. Surface water drainage patterns shall be shown for each and every lot in the proposed subdivision and for each lot adjacent to the proposed subdivision.
4. In addition to those calculations required by the Preliminary Drainage Analysis, this study shall also include:
 - a. Hydraulic calculations to each lateral, manhole, inlet and outlet structure on the pipe. Head losses shall be calculated as described elsewhere in this chapter.
 - b. Inlet calculations utilizing the minimum time of concentration for the zoning type which is contributing the largest "CA" to the inlet.

5. If any portion of the proposed subdivision or its offsite improvements (including pipes or ditches) fall within the limits of a Federal Emergency Management Agency (FEMA) floodplain, additional backwater calculations may be required. Additional calculations in the form of a Conditional Letter of Map Revision will be required if:
 - a. Any portion of the proposed subdivision is determined to be located within a FEMA Zone "A" floodplain; or
 - b. Any portion of the proposed subdivision is determined to be located within a FEMA Zone "AE" floodplain and the overall subdivision (including all phases) is 5 acres or larger; or
 - c. Any portion of the proposed improvements from a subdivision include dredging or filling within a FEMA designated floodway.

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 .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.

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.

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 (5) feet, 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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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 warranty 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

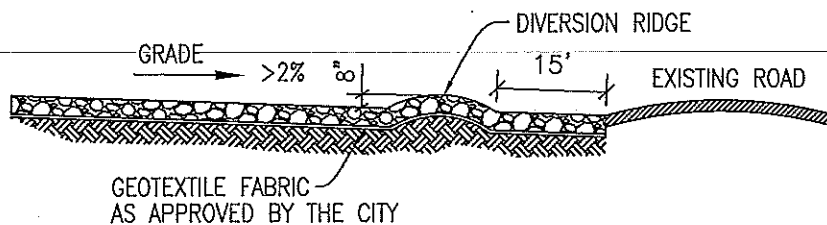
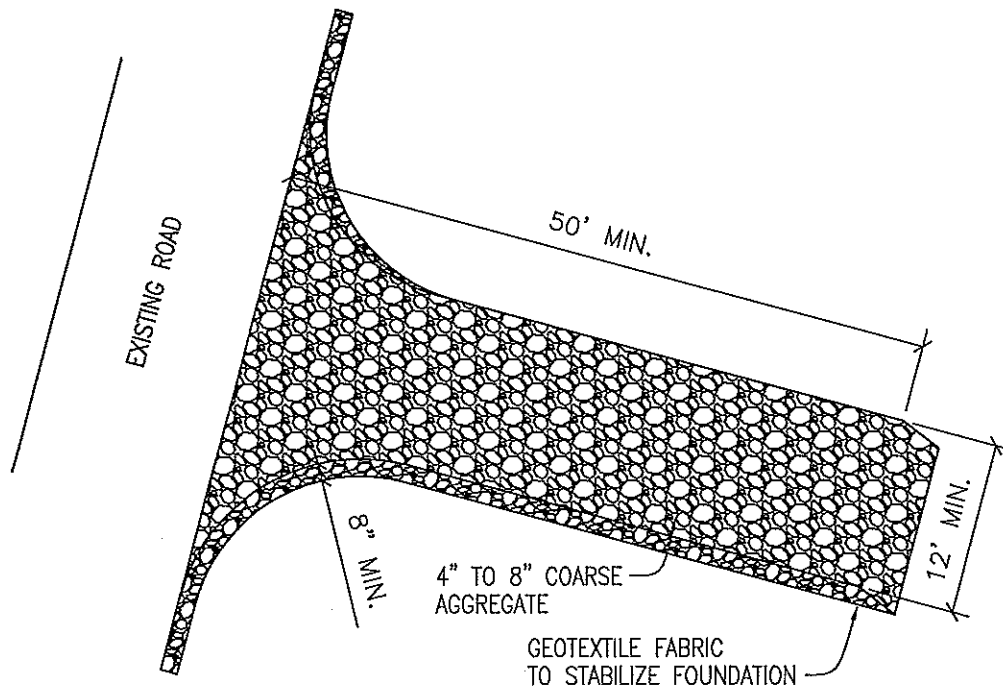
Thread)

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.



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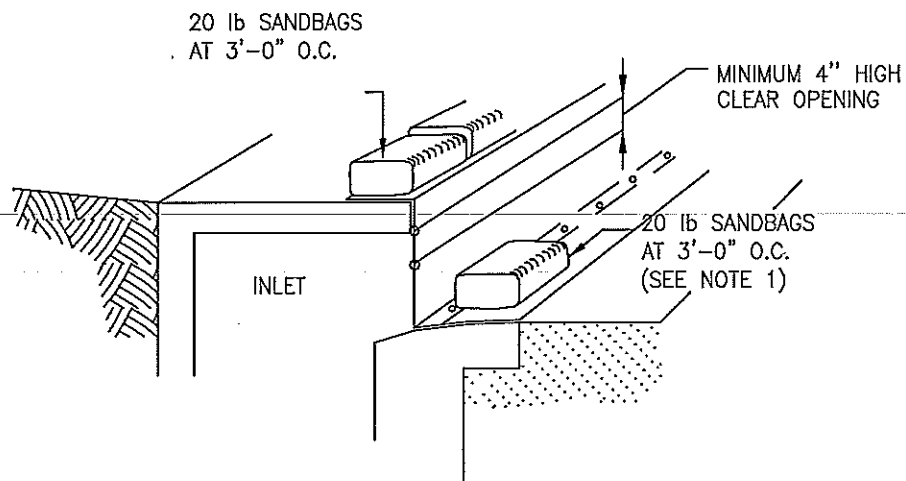
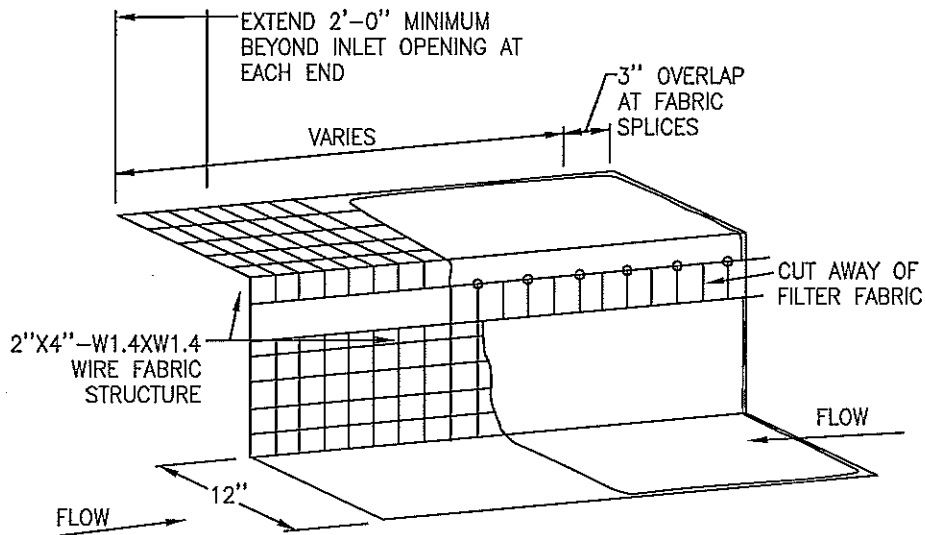
DATE:
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CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

STABILIZED CONSTRUCTION ENTRANCE

STANDARD

EN 001



NOTES:

1. WHERE MINIMUM CLEARANCES CAUSE TRAFFIC TO DRIVE IN THE GUTTER, THE CONTRACTOR MAY SUBSTITUTE A 1" X 4" BOARD SECURED WITH CONCRETE NAILS 3' O.C. NAILED INTO THE GUTTER IN LIEU OF SANDBAGS TO HOLD THE FILTER DIKE IN PLACE. UPON REMOVAL, CLEAN ANY DIRT/DEBRIS FROM NAILING LOCATIONS, APPLY CHEMICAL SANDING AGENT AND APPLY NON-SHRINK GROUT FLUSH WITH SURFACE OF GUTTER.
2. A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL OR AS DIRECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION.
3. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".
4. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REMOVE THE INLET PROTECTIONS IF THE STORM WATER BEGINS TO OVERTOP THE CURB.
5. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.



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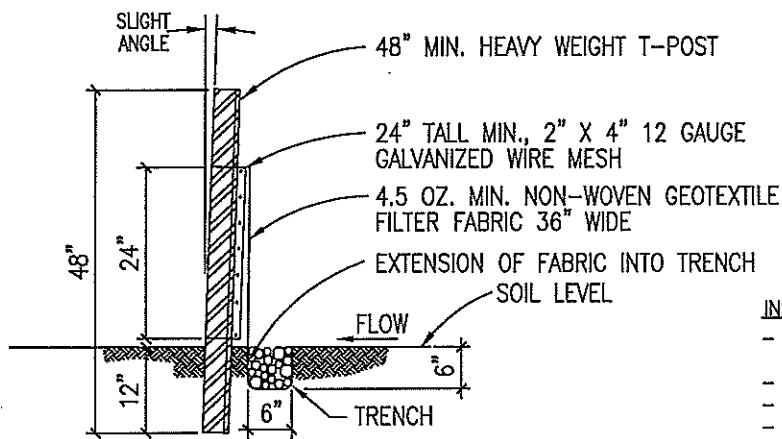
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CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

STANDARD

EN 002

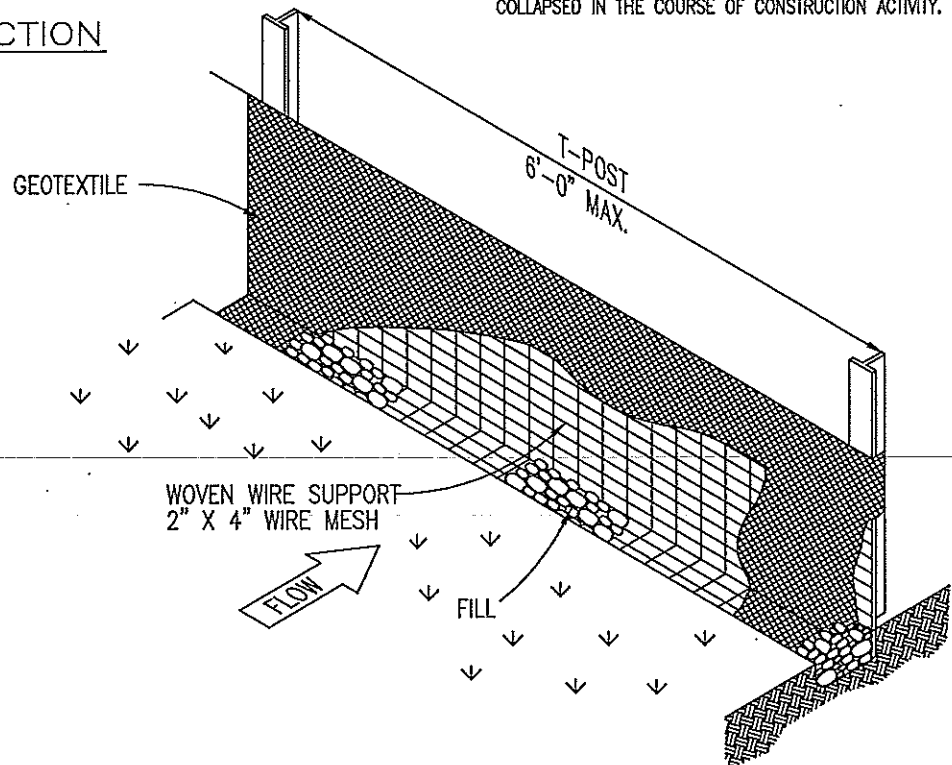
FILTER DIKE CURB INLET PROTECTION



CROSS SECTION

INSPECTION AND MAINTENANCE GUIDELINES:

- INSPECT ALL FENCING WEEKLY, AND AFTER ANY RAINFALL EVENT.
- REMOVE SEDIMENT WHEN BUILDUP REACHES 6 INCHES.
- REPLACE ANY TORN FABRIC.
- REPLACE OR REPAIR ANY SECTIONS CRUSHED OR COLLAPSED IN THE COURSE OF CONSTRUCTION ACTIVITY.



INSTALLATION:

- LAYOUT THE SILT FENCE FOLLOWING AS CLOSELY AS POSSIBLE TO THE CONTOUR.
- CLEAR THE GROUND OF DEBRIS, ROCKS, PLANTS (INCLUDING GRASSES TALLER THAN 2") TO PROVIDE A SMOOTH FLOW APPROACH SURFACE. EXCAVATE 6" DEEP X 6" WIDE TRENCH ON UPSTREAM SIDE OF FACE PER PLANS.
- DRIVE THE HEAVY DUTY T-POST AT LEAST 12 INCHES INTO THE GROUND AND AT A SLIGHT ANGLE TOWARDS THE FLOW.
- ATTACH THE 2" X 4" 12 GAUGE WELDED WIRE MESH TO THE T-POST WITH 11 1/2 GAUGE GALVANIZED T-POST CLIPS. THE TOP OF THE WIRE TO BE 24" ABOVE GROUND LEVEL. THE WELDED WIRE MESH TO BE OVERLAPPED 6" AND TIED AT LEAST 6 TIMES WITH HOG RINGS.
- THE SILT FENCE TO BE INSTALLED WITH A SKIRT A MINIMUM OF 11" WIDE PLACED ON THE UPHILL SIDE OF THE FENCE INSIDE EXCAVATED TRENCH. THE FABRIC TO OVERLAP THE TOP OF THE WIRE BY 1".
- ANCHOR THE SILT FENCE BY BACKFILLING WITH EXCAVATED DIRT AND ROCKS (NOT LARGER THAN 2").
- GEOTEXTILE SPLICES SHOULD BE A MINIMUM OF 18" WIDE ATTACHED IN AT LEAST 6 PLACES. SPLICES IN CONCENTRATED FLOW AREAS WILL NOT BE ACCEPTED.
- SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.



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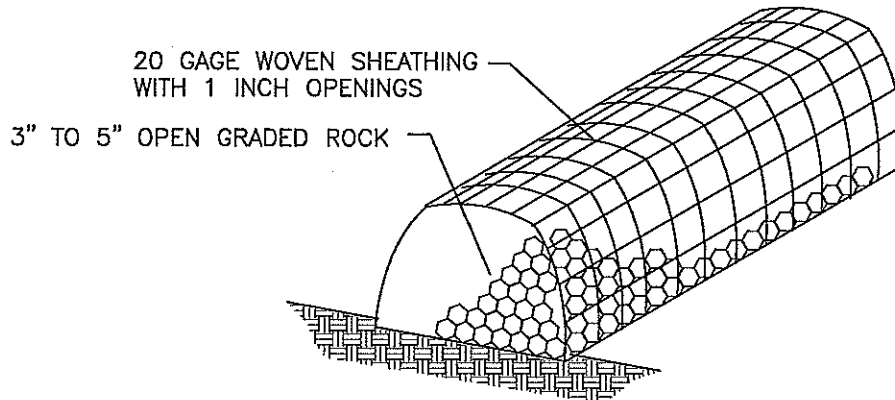
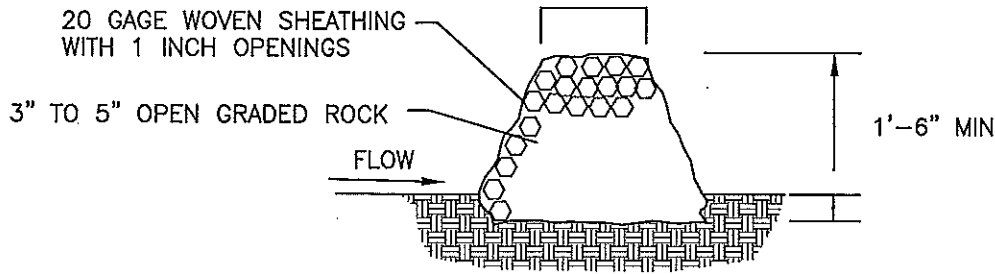
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CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

STANDARD

EN 003

SILT FENCE DETAIL



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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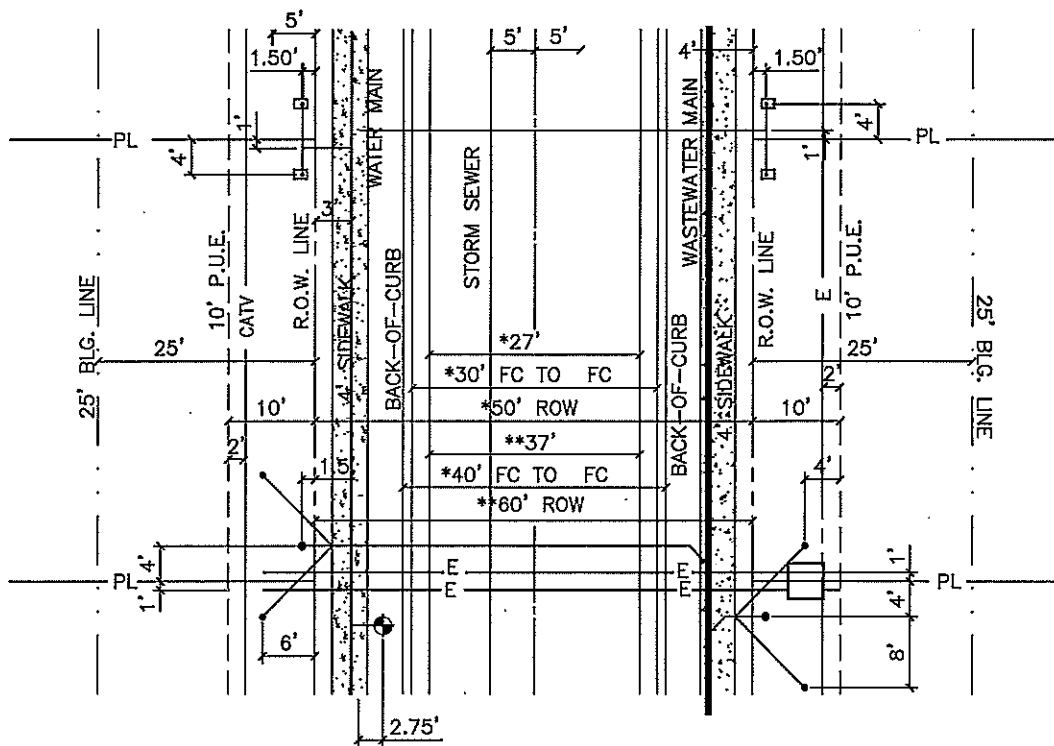
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CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

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"



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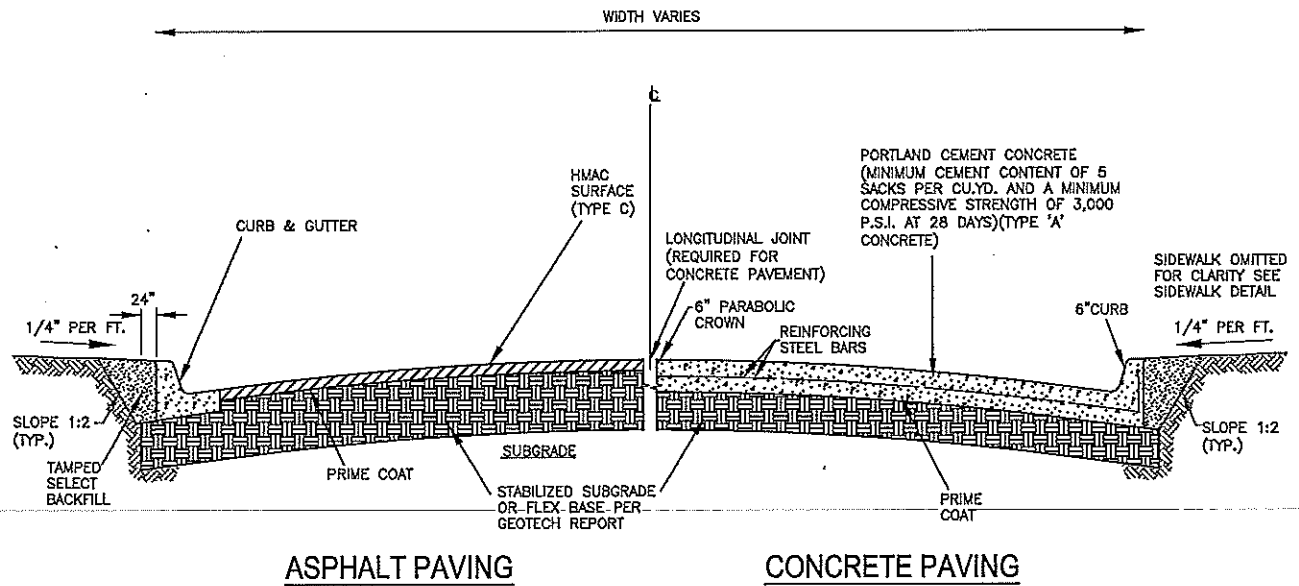
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CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

TYPICAL STREET LAYOUT
AND UTILITY ASSIGNMENTS

STANDARD

PV 001



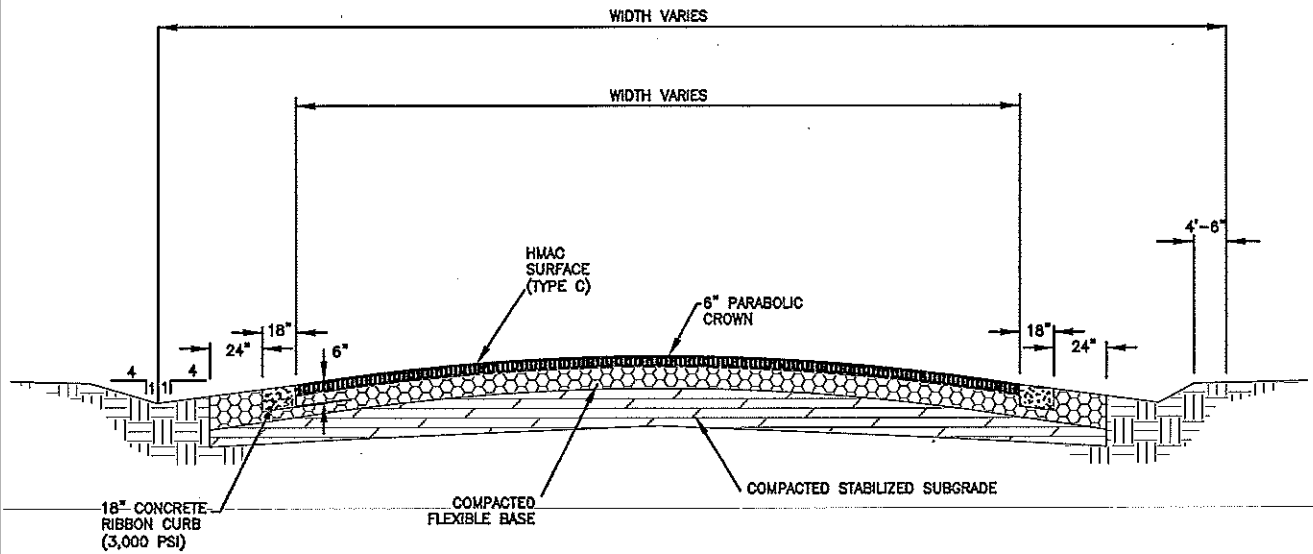
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CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

TYPICAL STREET SECTION DETAIL
W / STANDARD CURB & GUTTER

STANDARD
PV 002



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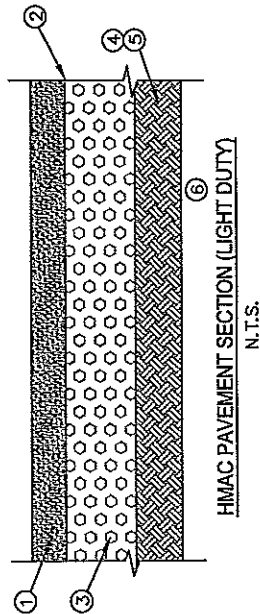
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CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

TYPICAL STREET SECTION DETAIL
W / RIBBON CURB

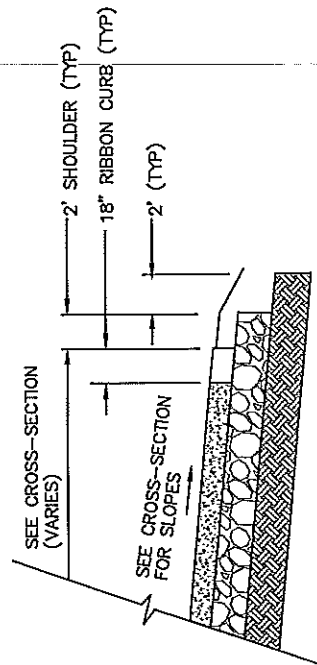
STANDARD

PV 003



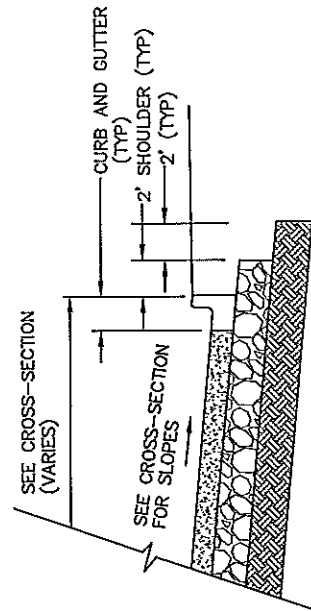
GENERAL NOTES:

1. HOT MIX ASPHALTIC CONCRETE CONFORMING TO TxDOT ITEM 340, TYPE "C"
2. MC-30 PRIME COAT MEETING THE REQUIREMENTS OF TxDOT ITEM 310 SHALL BE APPLIED AT A RATE 0.25 GALLON/SQUARE YARD. (RATE SHALL BE ADJUSTED IN THE FIELD TO PROVIDE UNIFORM COVERAGE WITHOUT RUNOFF. RATE TO BE APPROVED BY THE ENGINEER.)
3. CRUSHED AGGREGATE BASE CONFORMING TO TxDOT ITEM 247, TYPE A, GRADE 1. THE CRUSHED STONE BASE SHALL BE PLACED IN MAXIMUM 6 INCH LOOSE LIFTS AND COMPACTED TO A DENSITY EQUAL TO AT LEAST 100% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY TEST METHOD TEX-113-E AT $\pm 2\%$ OF OPTIMUM MOISTURE. THE BASE MATERIAL SHOULD EXTEND 24 INCHES BEHIND THE CURB.
4. THE EXPOSED SUBGRADE SHOULD BE PREPARED BY REMOVING ALL TREE ROOTS AND UNDESIRABLE MATERIAL SUCH AS SOFT CLAYS. THE UPPER 6 INCHES SHOULD BE COMPACTED TO A DENSITY EQUAL TO AT LEAST 98% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH STANDARD PROCTOR (ASTM D-698). SOIL MOISTURE SHOULD BE WITHIN $+3\%$ OR -1% OF OPTIMUM.
5. FILL SECTIONS SHALL BE FREE OF VEGETATION OR ORGANICS. MATERIAL SHALL CONSIST OF COHESIVE SOILS AND HAVE A MAXIMUM LIQUID LIMIT OF 40, PI BETWEEN 6 AND 20, AND A MAXIMUM PARTICAL SIZE OF 3 INCHES. FILLS SHOULD BE COMPACTED IN LIFTS NOT TO EXCEED 6 INCHES AFTER COMPACTION AND BE COMPACTED IN ACCORDANCE WITH ITEM 3, ABOVE. FILL SHALL BE TxDOT ITEM 247, TYPE "A" - GRADE 2.
6. EXISTING UNDISTURBED SOIL.



TYPICAL STREET SECTION WITH RIBBON CURB

N.T.S.



TYPICAL STREET SECTION WITH STANDARD CURB AND GUTTER

N.T.S.



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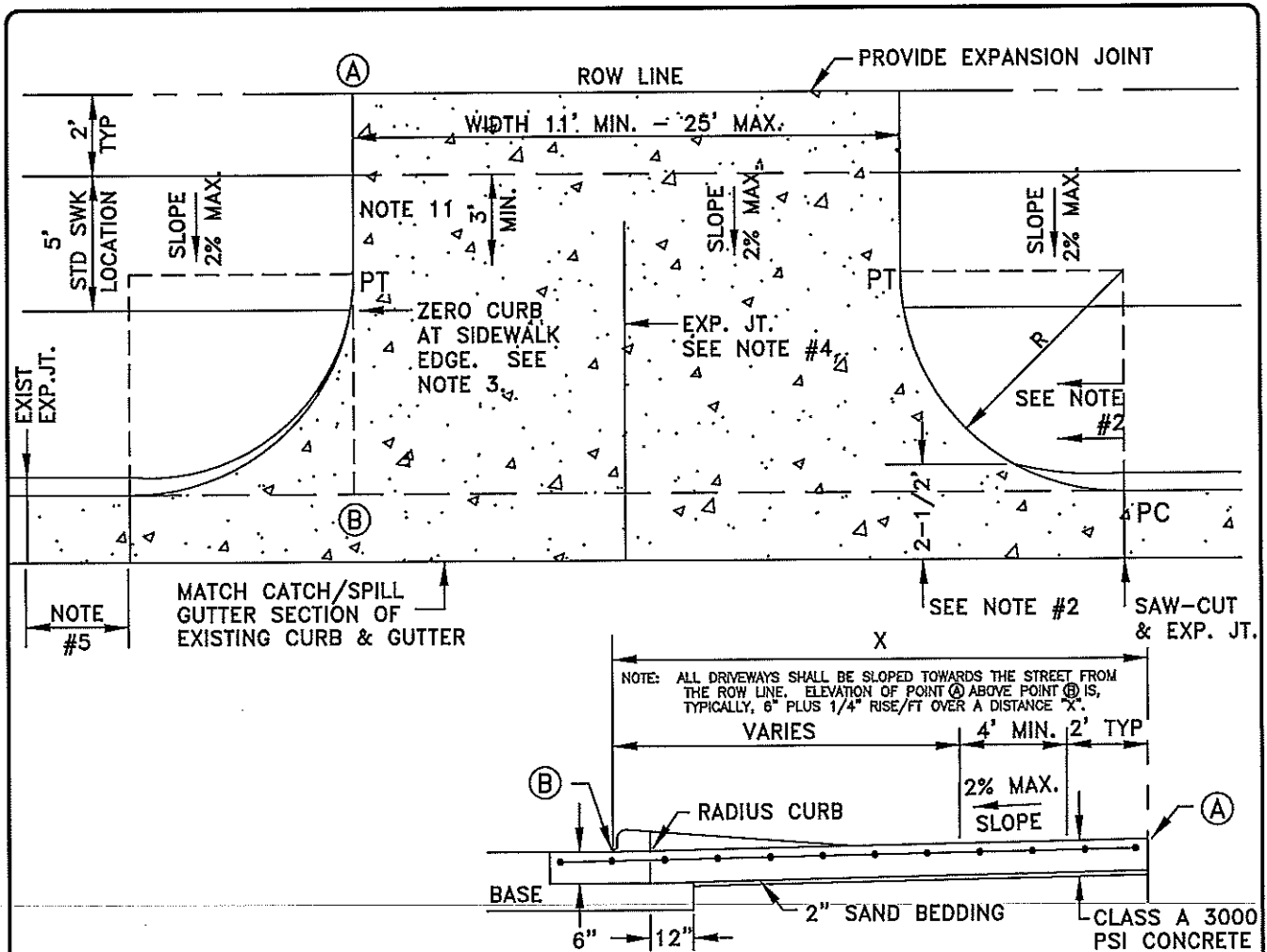
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CITY OF TAYLOR
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STANDARD DETAILS

PAVEMENT SECTIONS

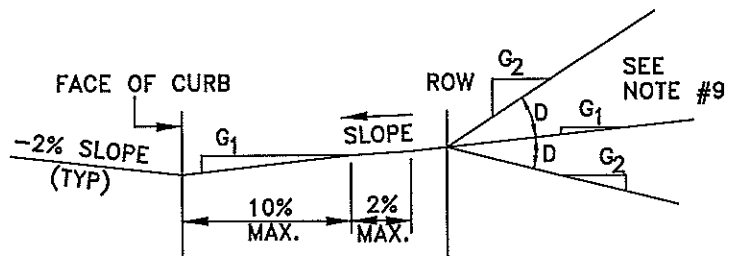
STANDARD

PV 004



NOTES:

1. ALL DRIVEWAYS SHALL HAVE RADIUS ENDS. MINIMUM 5' RADIUS.
2. THE DRIVEWAY EDGE SHALL BE SMOOTHLY TRANSITIONED INTO THE SIDEWALK BEGINNING AT THE RADIUS PC LINE.
3. "ZERO" CURB AT PT OR SIDEWALK EDGE, WHICHEVER IS ENCOUNTERED FIRST.
4. PLACE AN EXPANSION JOINT DOWN THE CENTER OF DRIVEWAY IF WIDTH IS GREATER THAN 15'.
5. IF DIMENSION IS LESS THAN FIVE FEET, REMOVE CURB & GUTTER TO EXISTING EXPANSION JOINT AND POUR MONOLITHICALLY WITH DRIVEWAY.
6. IF THE BASE IS OVER-EXCAVATED WHERE THE CURB & GUTTER WAS REMOVED, BACKFILL WITH CONCRETE MONOLITHICALLY WITH THE DRIVEWAY.
7. TYPE II DRIVEWAYS ARE TO BE LOCATED NO CLOSER TO THE CORNER OF INTERSECTING RIGHTS OF WAY THAN 60 PERCENT OF PARCEL FRONTAGE OR 100 FEET; WHICHEVER IS LESS.
8. DRIVEWAYS SHALL NOT BE CONSTRUCTED WITHIN THE CURB RETURN OF A STREET INTERSECTION.
9. WHILE THE PROPERTY OWNER REMAINS RESPONSIBLE FOR GRADE BREAKS WITHIN PRIVATE PROPERTY, THE FIRE DEPARTMENT SHOULD BE CONSULTED WHERE THE DRIVEWAY IS ESSENTIAL TO EMERGENCY VEHICLE ACCESS AND "G2" IS GREATER THAN 15%. "G1" PLUS "D" SHOULD NOT EXCEED 15%.
10. DRIVEWAYS SHALL BE 6 INCHES THICK WITH #4 REBAR @ 18" O.C.E.W.



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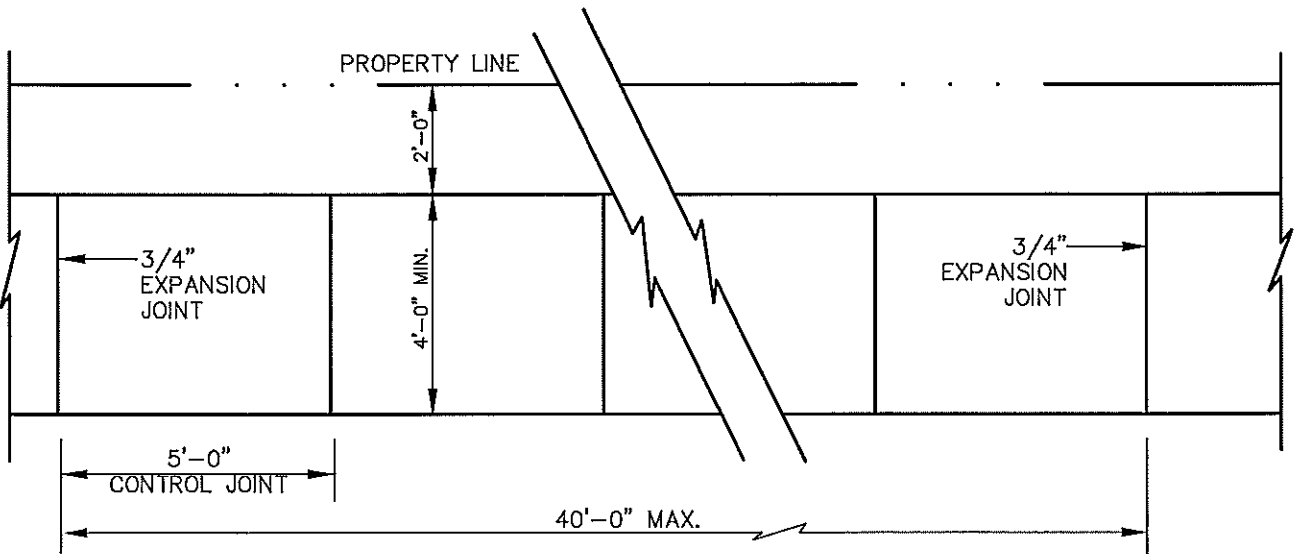
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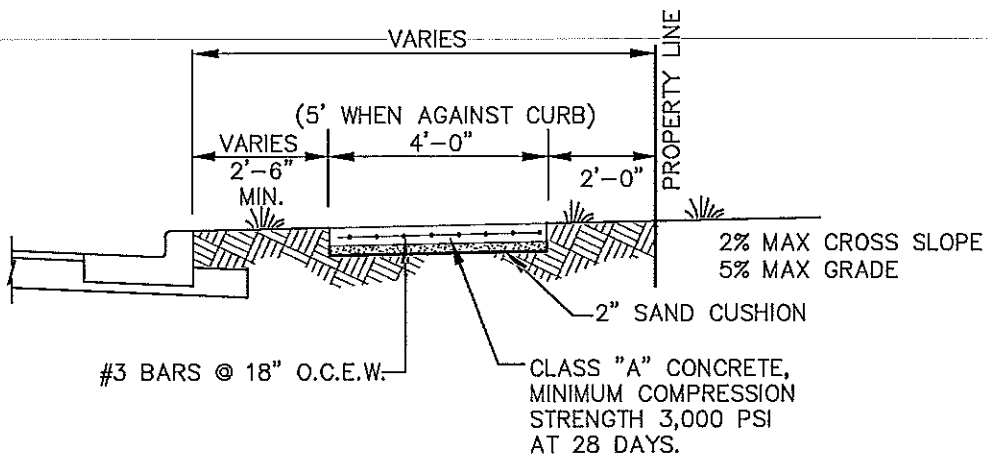
DRIVEWAY DETAIL

STANDARD

PV 005



PLAN



SECTION



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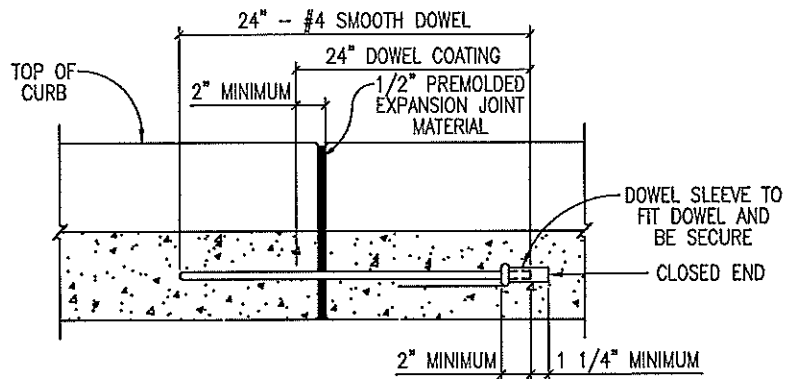
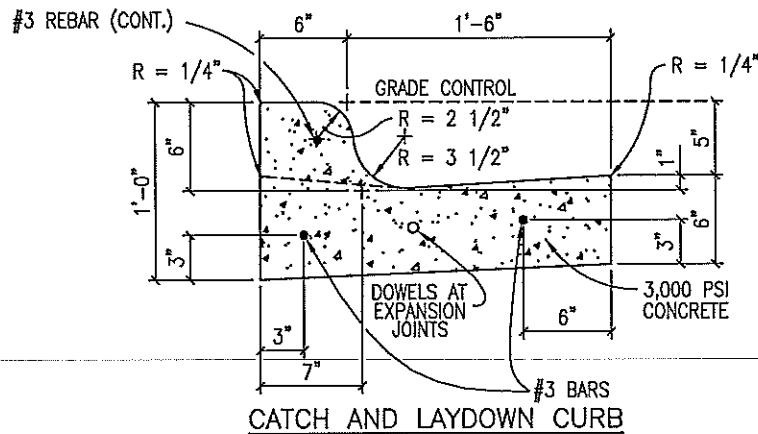
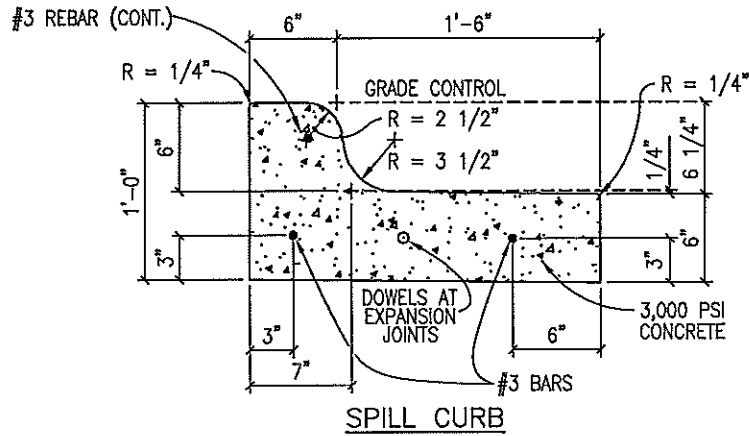
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CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

SIDEWALK DETAILS

STANDARD

PV 006



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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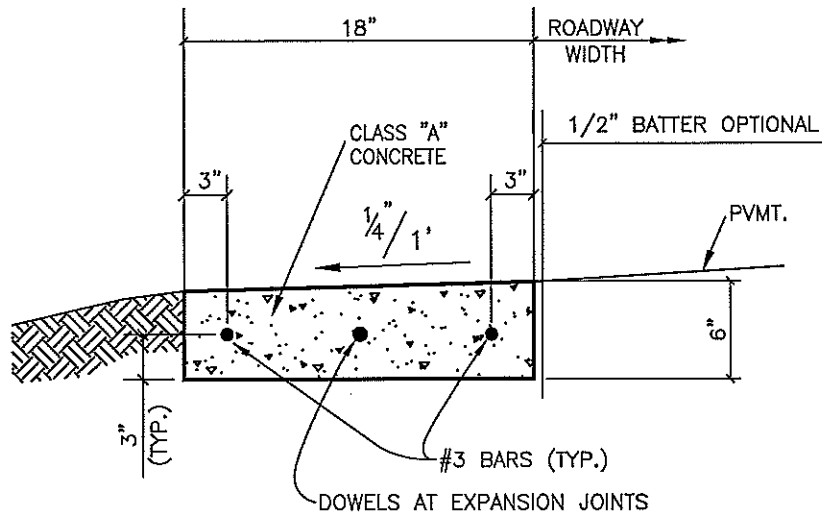
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CITY OF TAYLOR
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STANDARD DETAILS

STANDARD

PV 007

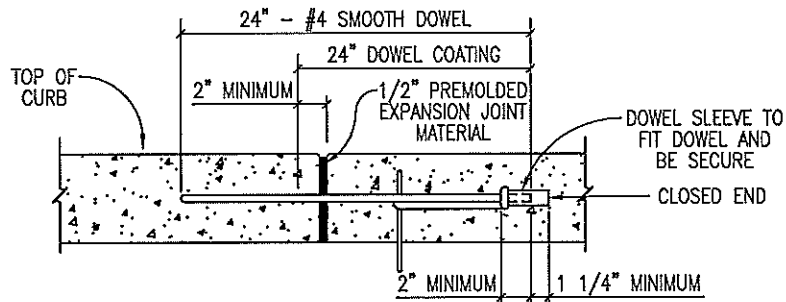
STANDARD CURB AND GUTTER DETAIL



NOTES:

1. ALL WORK AND MATERIAL SHALL CONFORM TO ASTM A615, A615M, C309, AND D1752. BROOM FINISH EXPOSED SURFACE.
2. CONTRACTION JOINT SPACING 10' MAX.
3. EXPANSION JOINTS AS PER STD. ASTM D-1752.

RIBBON CURB



NOTE:

EXPANSION JOINT INTERVALS NOT TO EXCEED 40'-0".

CURB DOWEL DETAIL



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WILLIAMSON COUNTY, TEXAS
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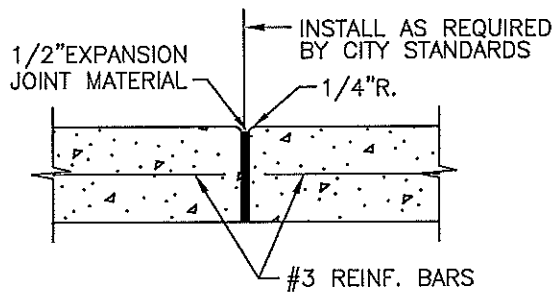
RIBBON CURB DETAILS

STANDARD

PV 008

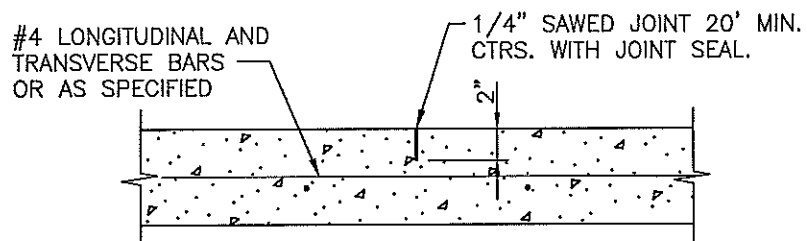
PV 009

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

STANDARD

PV 011

JOINT DETAILS (2 OF 2)

END OF CONSTRUCTION
THIS PHASE

FUTURE PHASES

END OF ROAD
BARRICADE

STOP ASPHALT 2' TO 3'
PAST PHASE LINE

ROADWAY

12"

24" MIN.

48" MIN.
ROAD BASE OVERRUN



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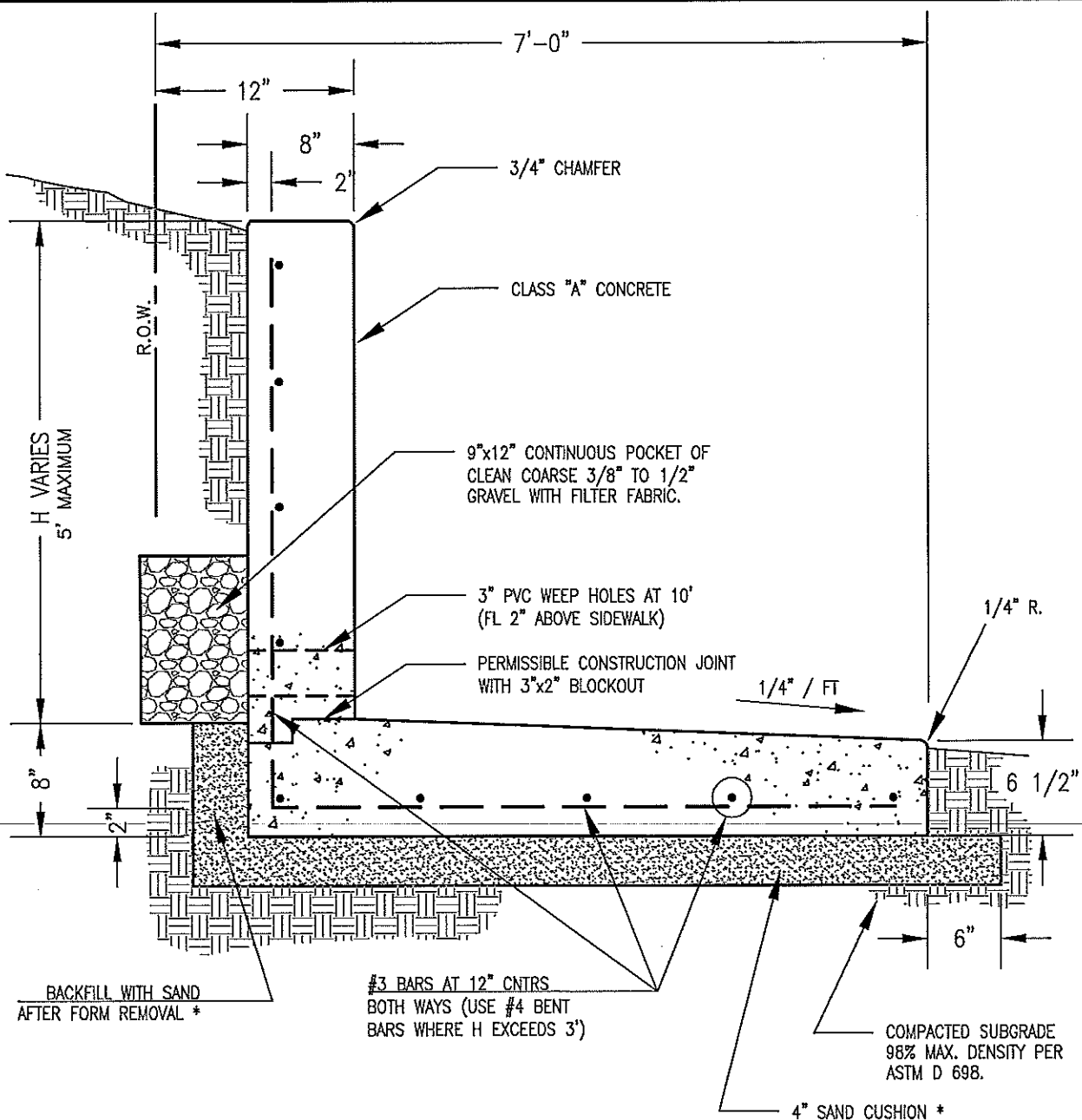
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CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

CONSTRUCTION LIMITS AT STREET
HEADER WITH BARRICADE

STANDARD

PV 012



NOTES:

1. PROVIDE VERTICAL EXPANSION IN WALL AT 25' MAXIMUM SPACING (SEE JOINT DETAILS AND MODIFY AS REQUIRED)
2. WALL DESIGN ASSUMES NO SURCHARGE. A SPECIAL ENGINEERING ANALYSIS IS REQUIRED FOR OTHER CONDITIONS.

* WHEN SPECIFIED ON PLANS



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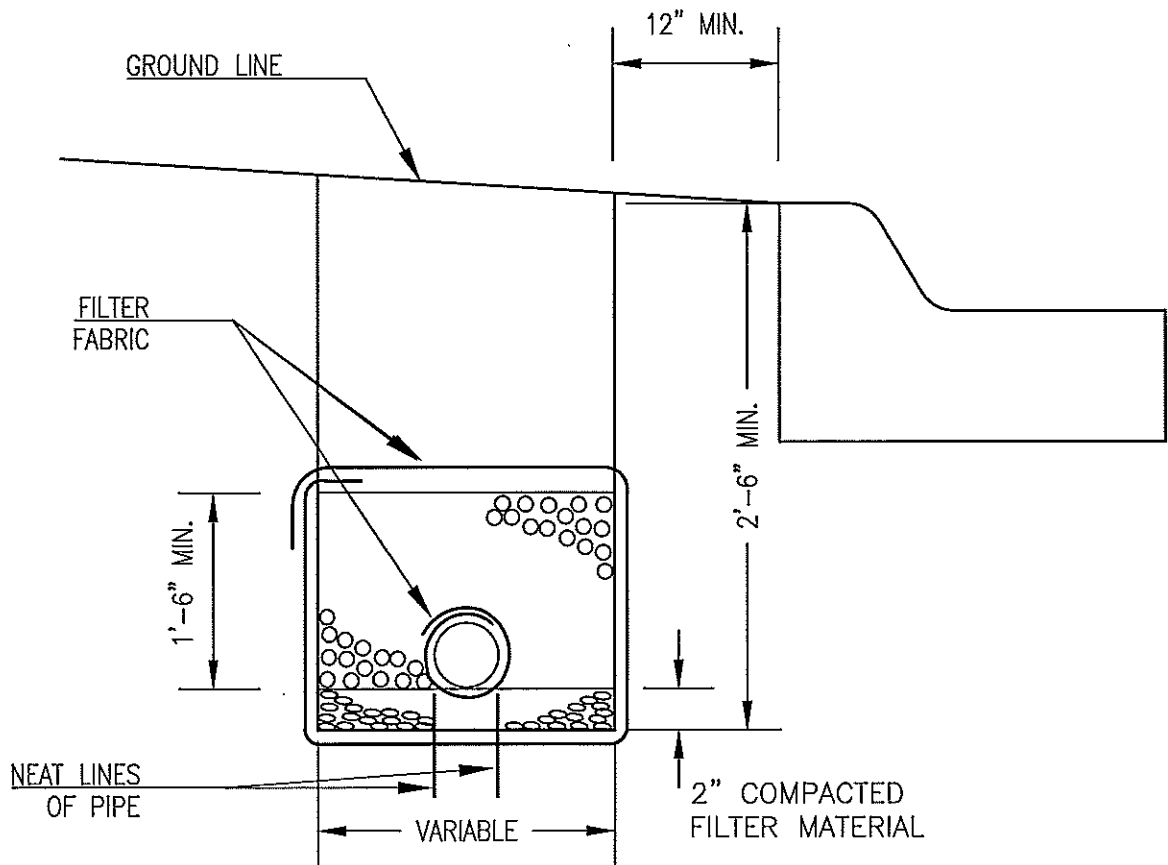
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CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

REINFORCED CONCRETE RETAINING
WALL WITH INTEGRAL SIDEWALK

STANDARD

PV 013



SECTION

LIMITS OF EXCAVATION

DEPTH OF TRENCH	DIST. IN FT. OUTSIDE NEAT LINES OF PIPE SUBDRAIN
0 TO 6	1.00
6 TO 10	1.50
10 TO 15	2.00
OVER 15	2.50

TYPES OF PIPES ACCEPTABLE FOR USE AS SUBDRAINS

1. PERFORATED PVC PIPE.
2. PERFORATED POLYETHYLENE PIPE.

FILTER MATERIAL SPECIFICATIONS

SIEVE SIZE	PERCENTAGE RETAINED ON SIEVE	
	TYPE A	TYPE B
1 1/2	---	0-10
3/4	0-10	20-40
3/8	15-35	---
No. 4	35-55	40-60

MATERIAL FINER THAN No. 4 SIEVE

4	---
20	35-65
50	75-100



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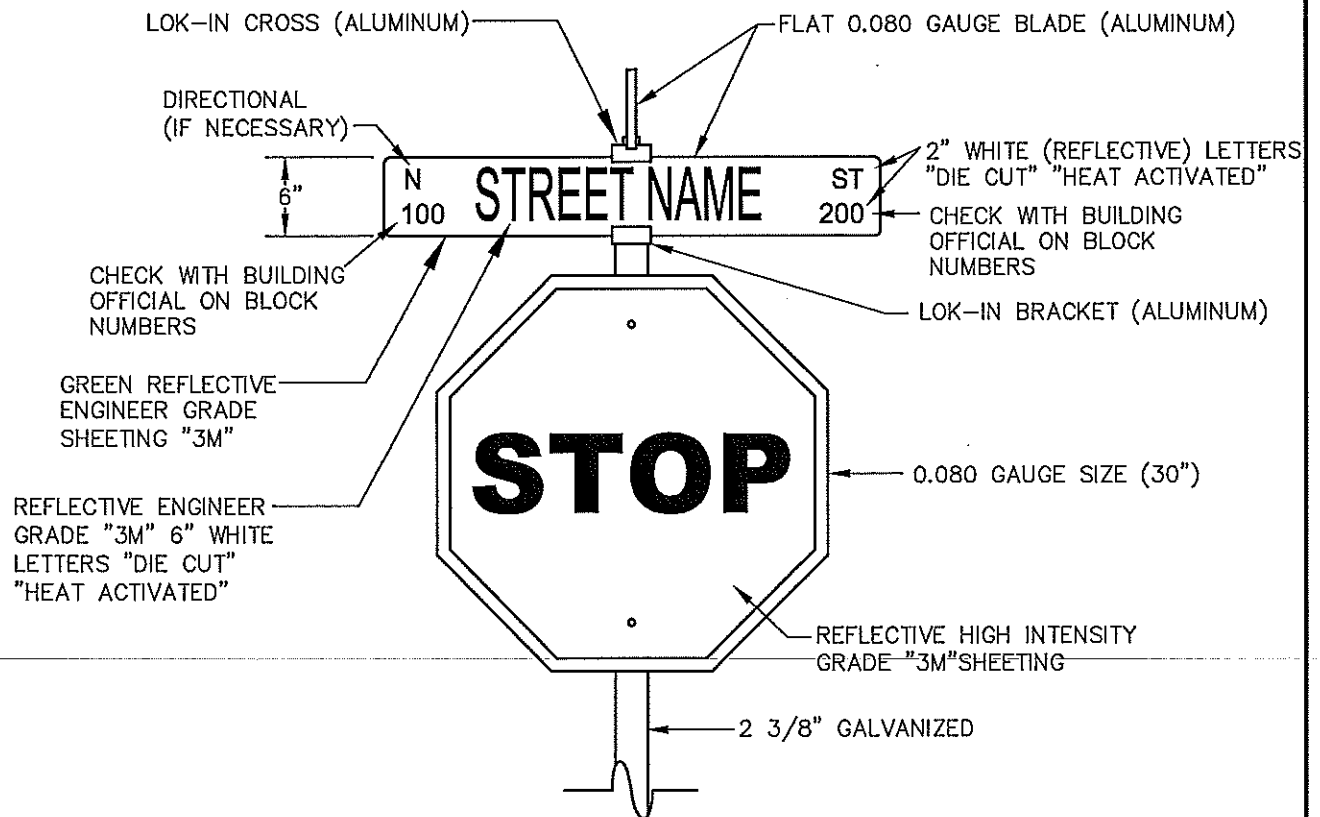
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CITY OF TAYLOR
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STANDARD DETAILS

PAVEMENT SUBDRAIN DETAIL

STANDARD

PV 014



NOTE:

1. 7-FOOT MIN. HEIGHT FROM GROUND TO BOTTOM OF LOWEST SIGN



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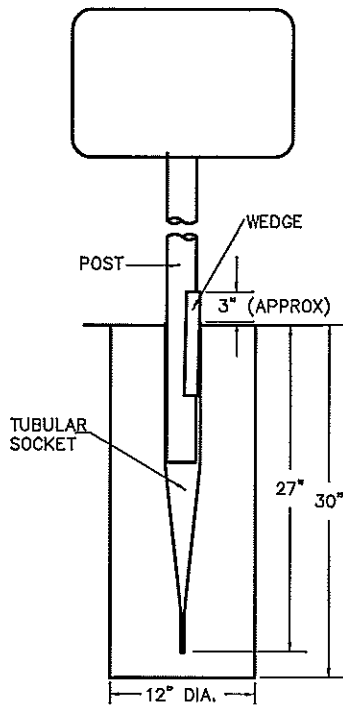
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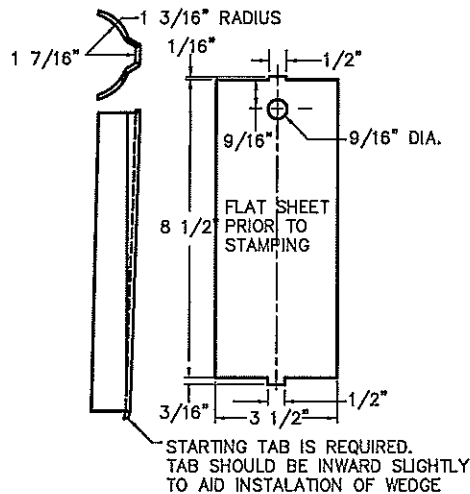
STANDARD

PV 015

STANDARD STREET SIGN DETAIL

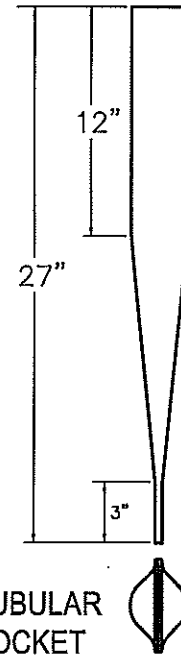


POST DETAIL



WEDGE DETAIL

WEDGE IS FABRICATED FROM 0.109\" TO 0.124\" THICK GALVANIZED SHEET STEEL PER ASTM A653 SS GRADE 40 G210 STAMPED INTO PROFILE SHOWN.



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 METALLIZING 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 METALLIZING WITH ZINC WIRE PER ASTM B833.



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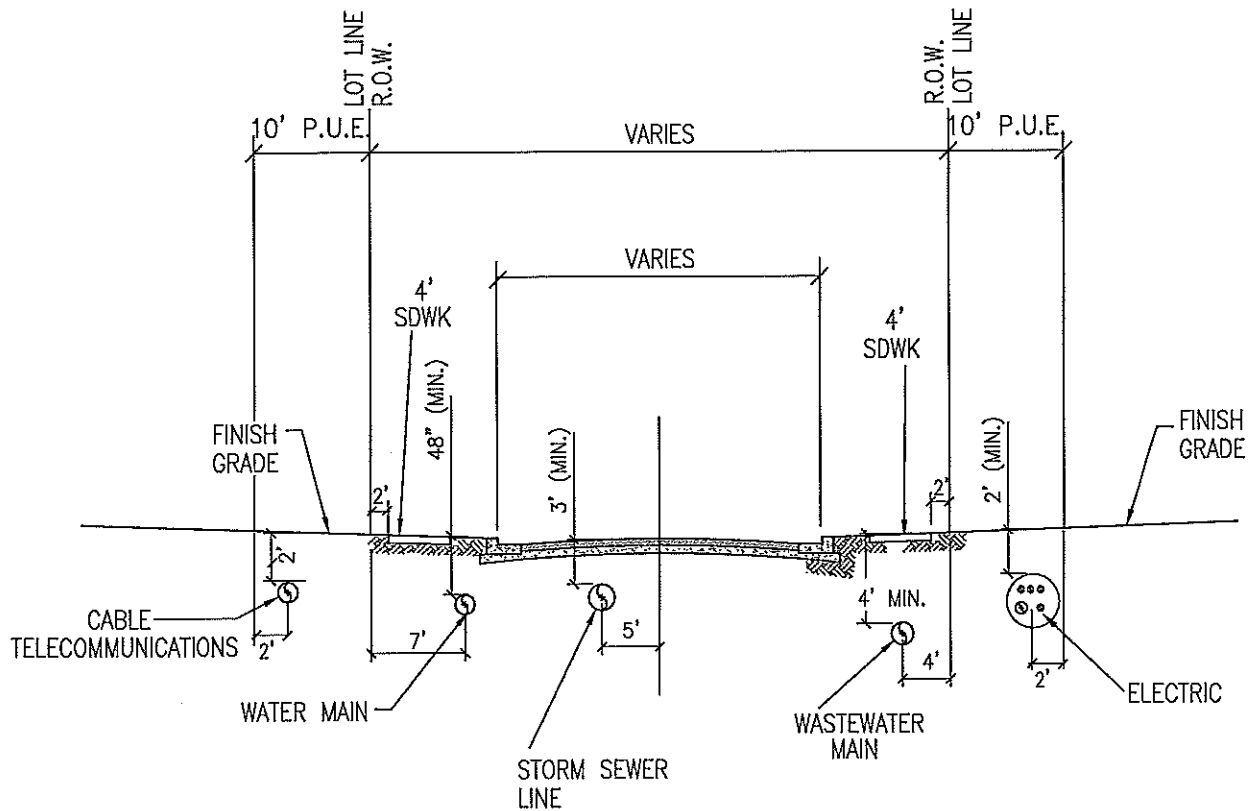
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WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

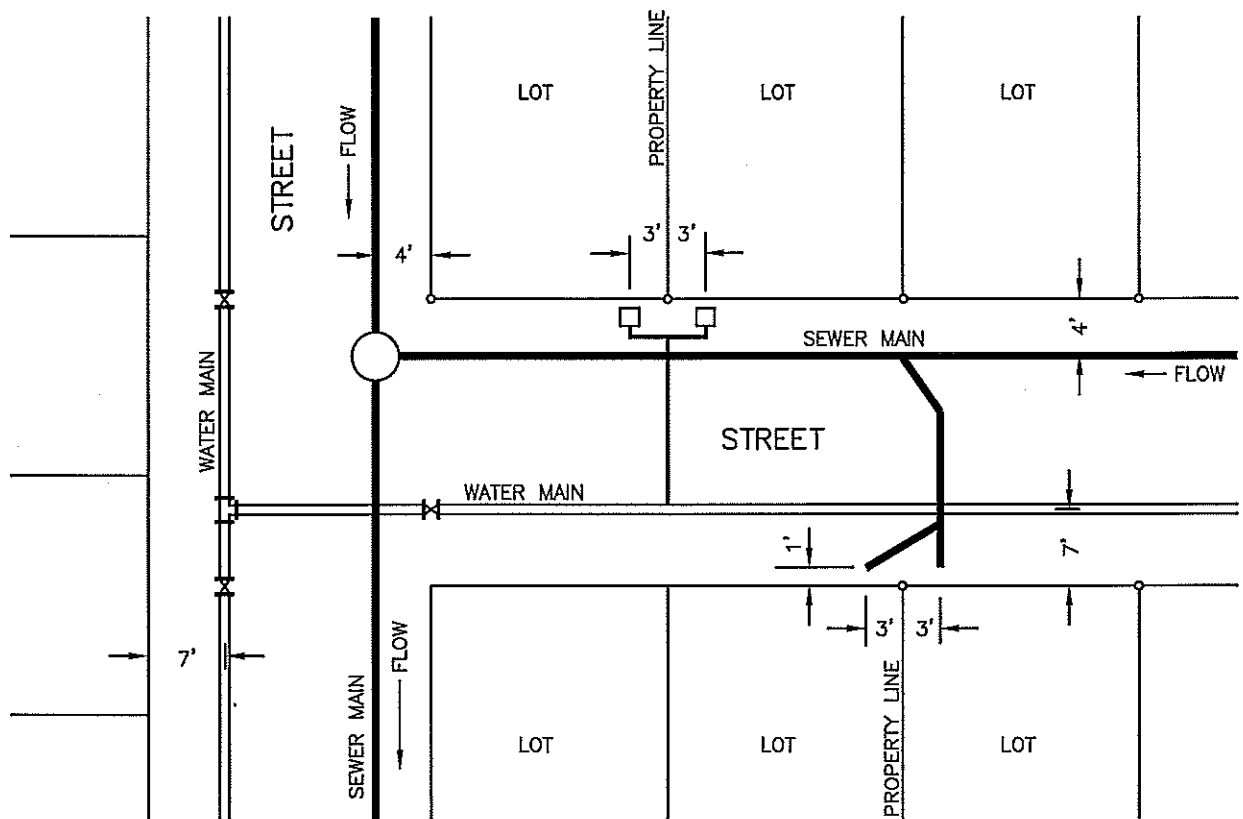
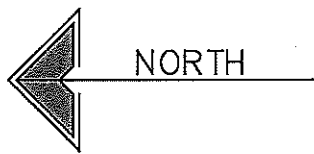
WEDGE ANCHOR SYSTEM

STANDARD

PV 016



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			TYPICAL UTILITY ASSIGNMENTS	UT 001



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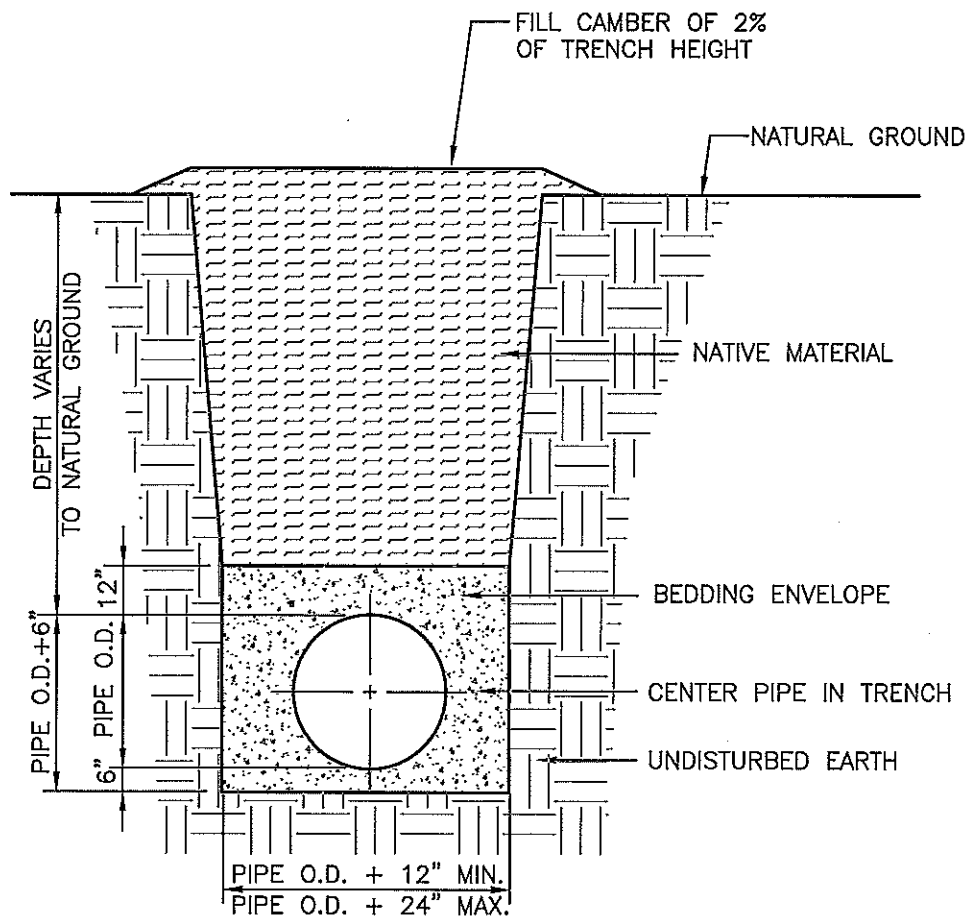
DATE:
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CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

TYPICAL MAIN & SERVICE LOCATIONS

STANDARD

UT 002



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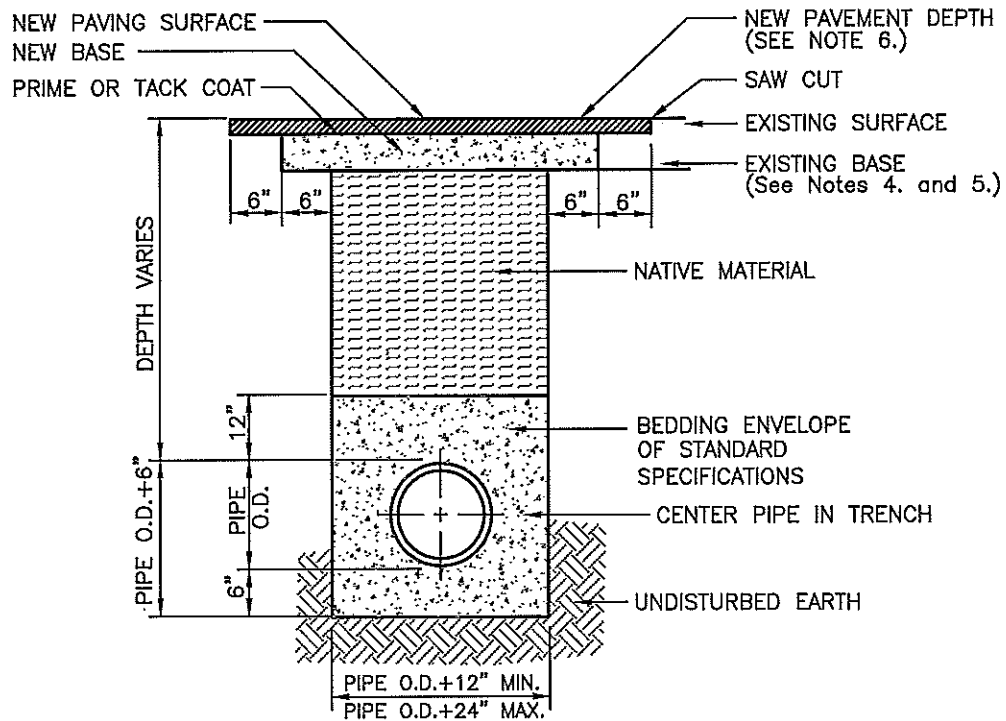
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CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

TYPICAL TRENCH
WITH UNFINISHED SURFACE

STANDARD

UT 003



NOTES:

1. THE EXISTING PAVING SURFACE SHALL BE SAW CUT IN A STRAIGHT LINE A MINIMUM OF 12" WIDER THAN THE UNDISTURBED SIDES OF THE TRENCH, SYMETRICAL ABOUT THE CENTER LINE OF THE EXCAVATION.
2. ANY CONCRETE PAVING SHALL BE SAW CUT 6" WIDER THAN UNDISTURBED SIDES OF EXCAVATION.
3. IF EXCAVATION AREA IS OPEN FOR TEMPORARY PUBLIC USE THE SURFACE SHALL BE MAINTAINED LEVEL WITH ADJACENT RIDING SURFACE WITH COLD MIX OR TEMPORARY HOT MIX.
4. ROAD BASE AND SURFACE MATERIALS IN THE TRENCH CUT SHALL BE REPLACED IN KIND OF EQUAL THICKNESS, OR MINIMUM BASE THICKNESS OF 10 INCHES, WHICHEVER IS GREATER
5. ALL DAMAGED AREAS OF PAVEMENT OUTSIDE THE TRENCH CUT SHALL BE REMOVED AND REPLACED WITH MINIMUM OF 8 INCHES OF BASE OR MATCH EXISTING, WHICHEVER IS GREATER.
6. SURFACE PAVEMENT SHALL BE OF THE KIND AND THICKNESS AS EXISTING, OR MINIMUM 2 INCHES, WHICHEVER IS GREATER
7. ALL PRESSURE PIPE SHALL BE PROVIDED WITH THRUST BLOCKS WHERE CHANGES IN DIRECTION OCCUR, AT TEES, BENDS, CROSSES, CHANGES IN SLOPE, STOPS (DEAD ENDS) VALVES AND OR AS SHOWN, ON THE PLANS OR AS DIRECTED BY THE ENGINEER.



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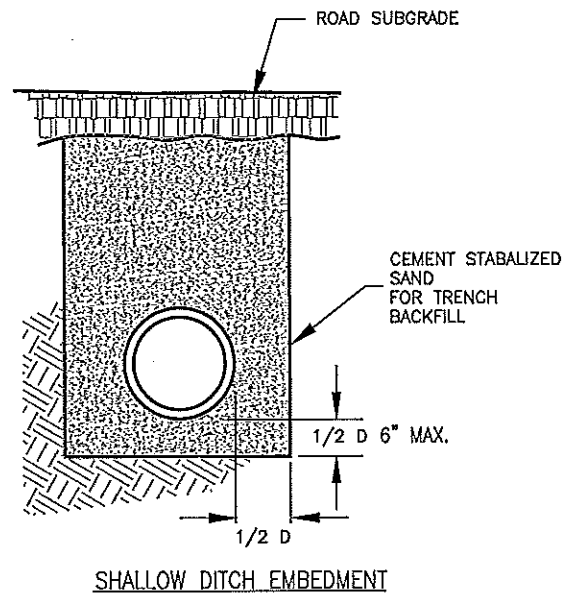
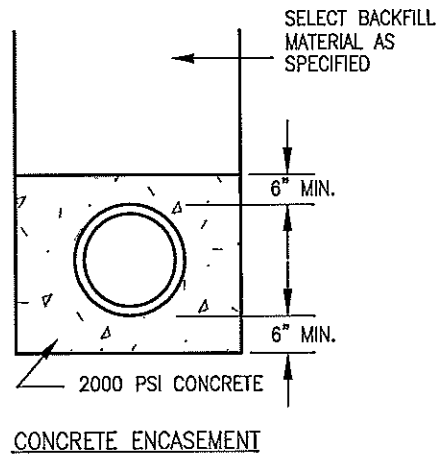
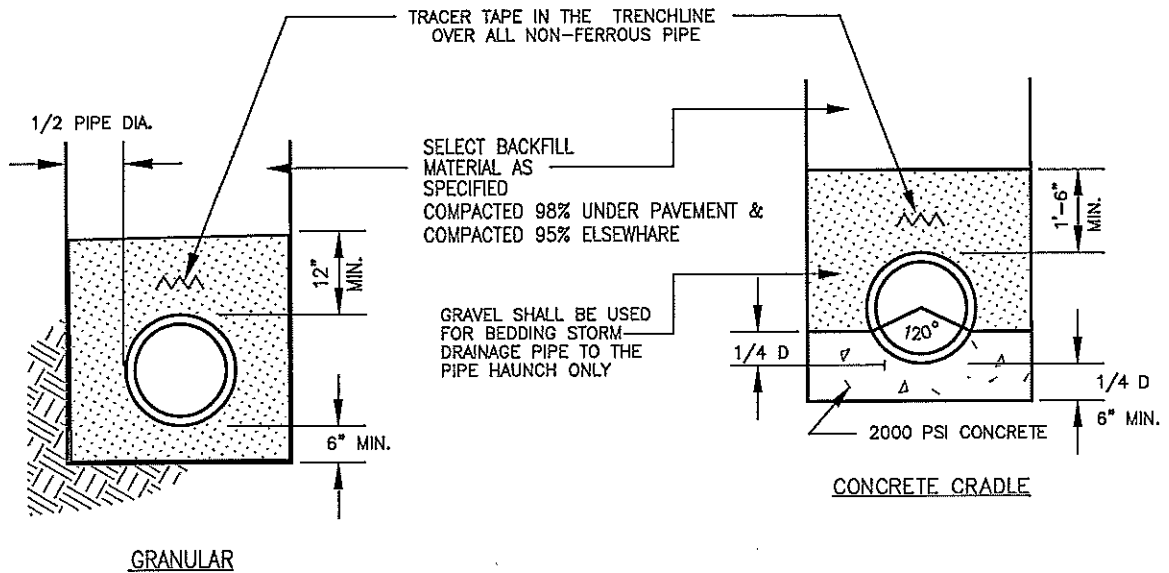
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CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

TYPICAL TRENCH
WITH PAVED SURFACE

STANDARD

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



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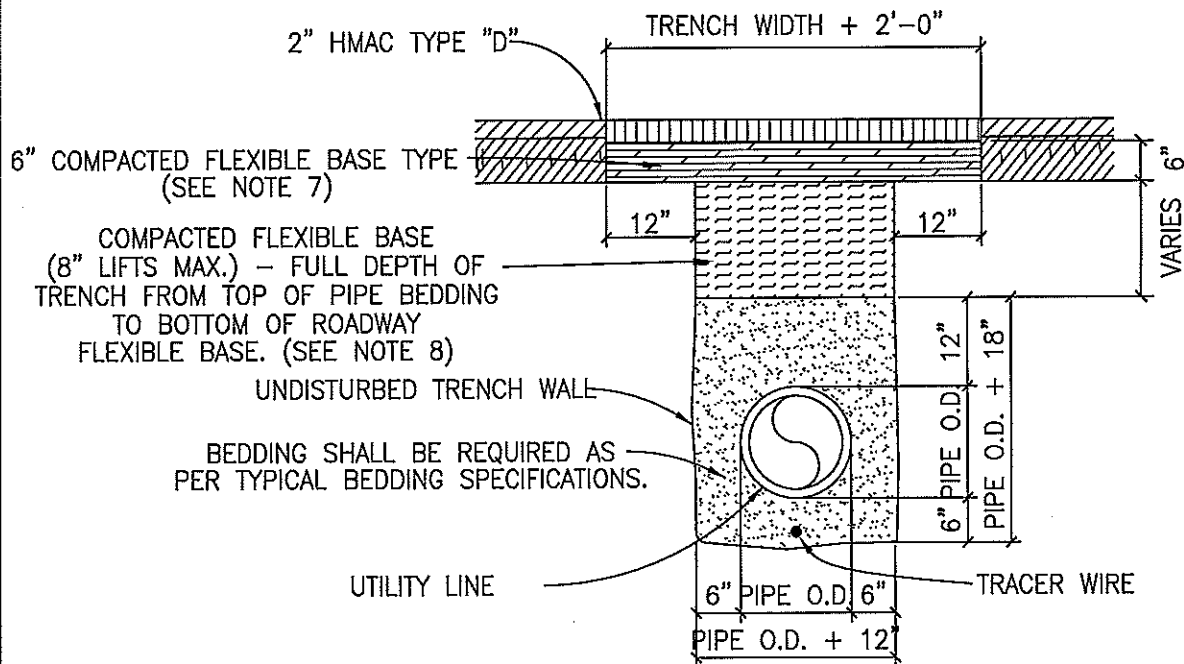
JULY 2009

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.



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CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

TRENCH DETAIL WITH PAVEMENT
REPLACEMENT UNDER
EXISTING ROADWAY

STANDARD

UT 006



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

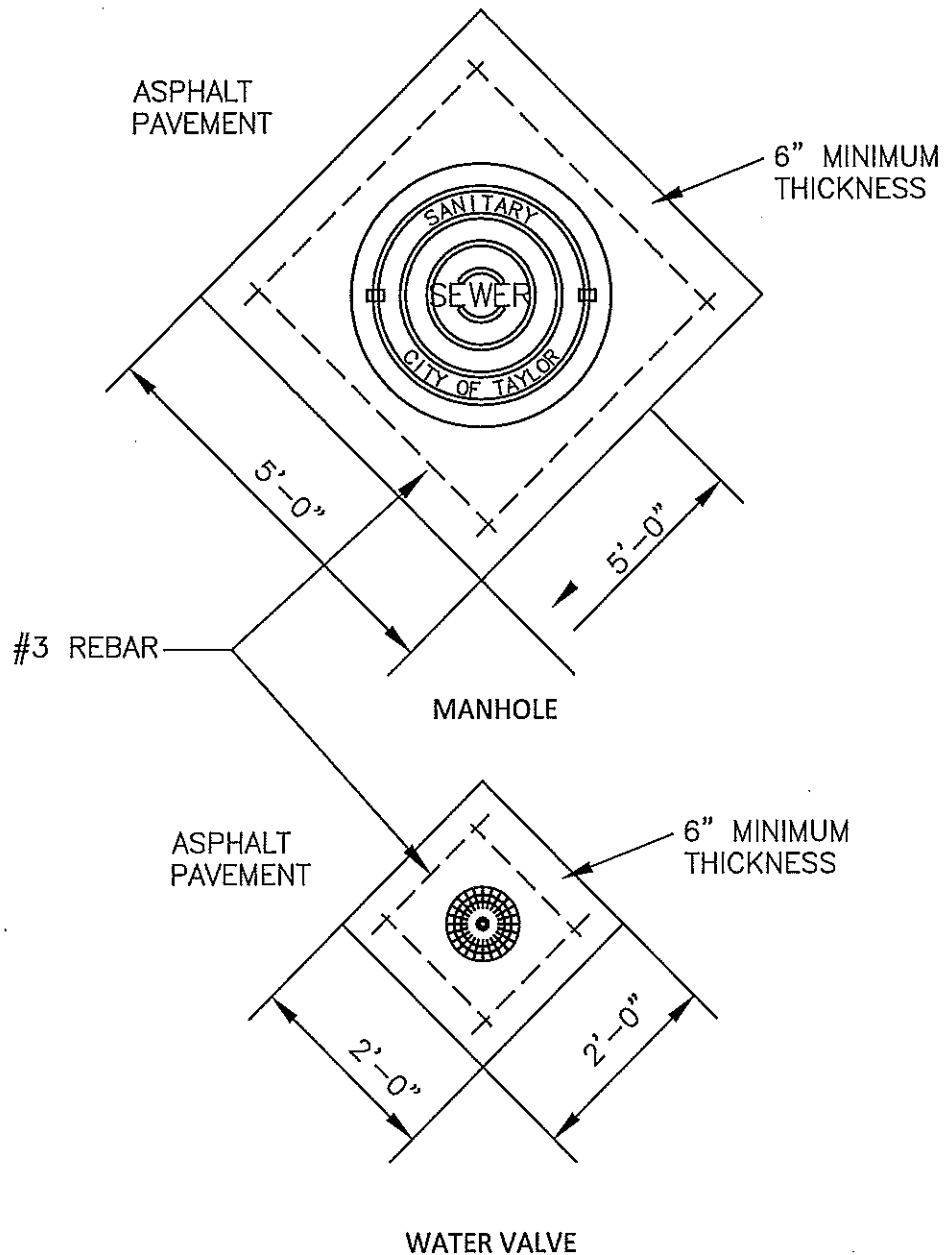


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JULY 2009

CONCRETE TRENCH CAP DETAIL

UT 007



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



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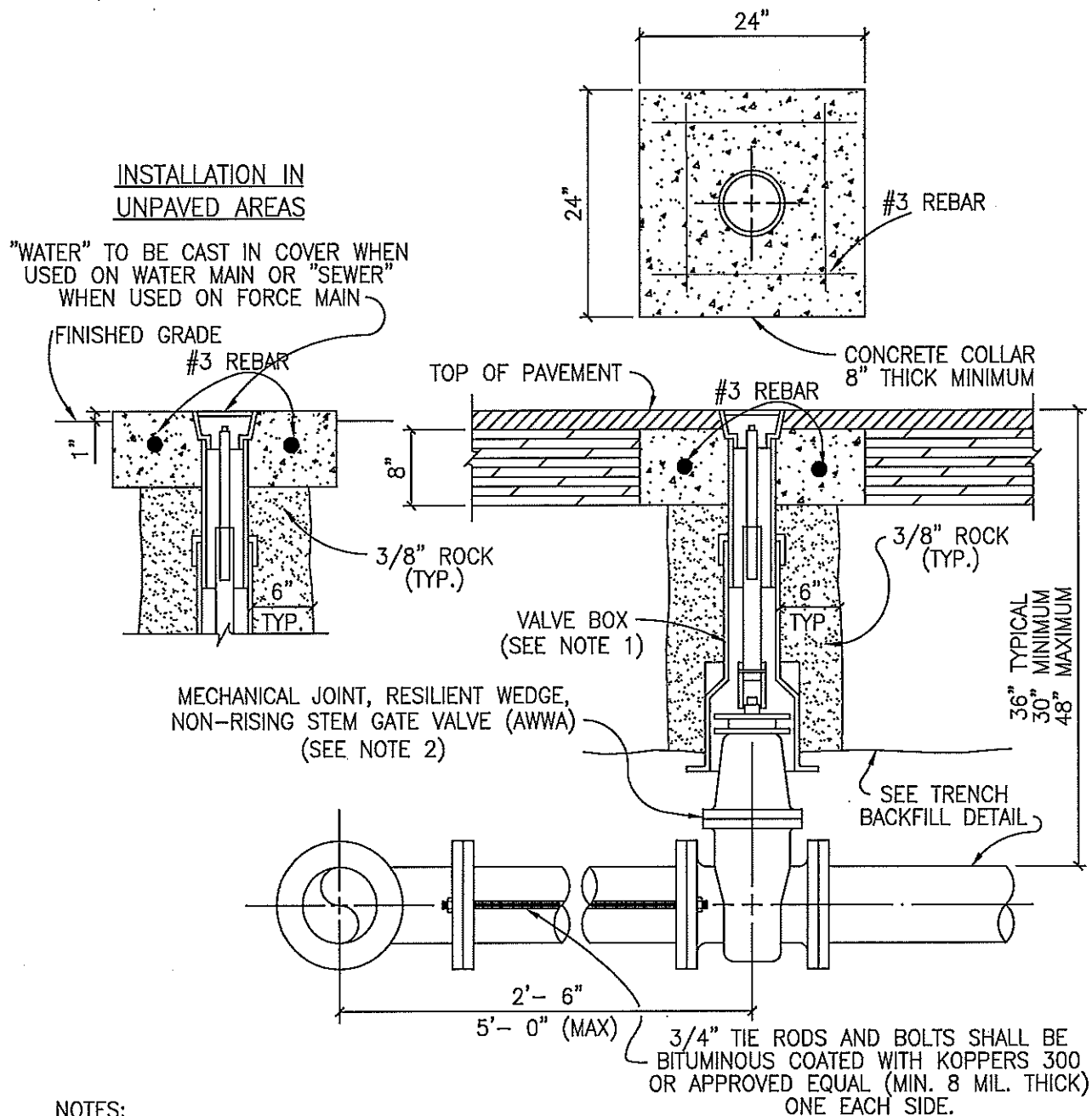
JULY 2009

CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

MANHOLE AND WATER VALVE BOXOUT

STANDARD

UT 008



NOTES:

1. VALVE BOX SHALL BE AMERICAN FLOW CONTROL TRENCH ADAPTER OR APPROVED EQUAL HAVING AN ADJUSTABLE RANGE OF + OR - 6 INCHES FROM INSTALLED FINISH GRADE.
2. ACCEPTABLE GATE VALVES ARE:
 - A. AMERICAN FLOW CONTROL - SERIES 2500
 - B. MUELLER - 2360 SERIES
 - C. CLOW



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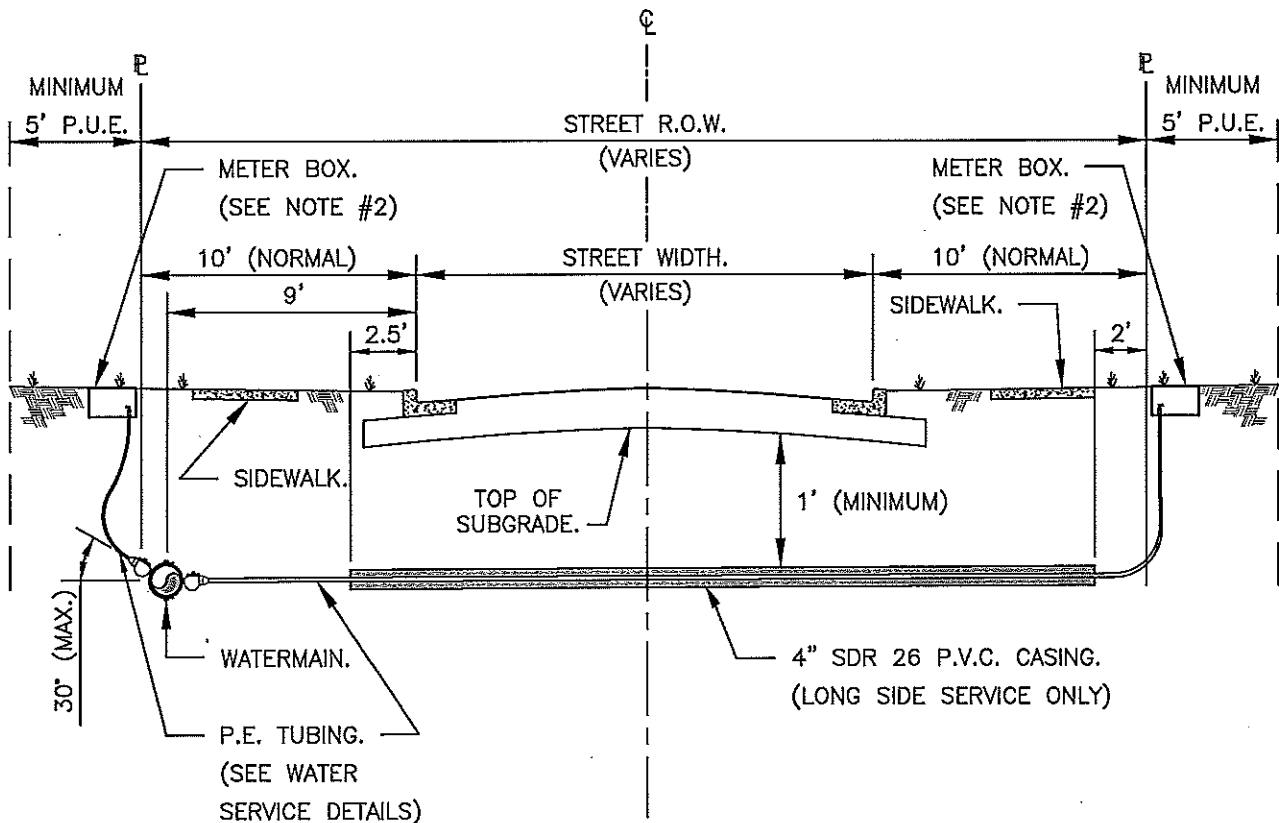
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CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

TYPICAL VALVE SETTING

STANDARD

UT 009



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. ($\mathcal{R}$) 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.



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DATE:

JULY 2009

CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

WATER SERVICE CASING DETAIL

STANDARD

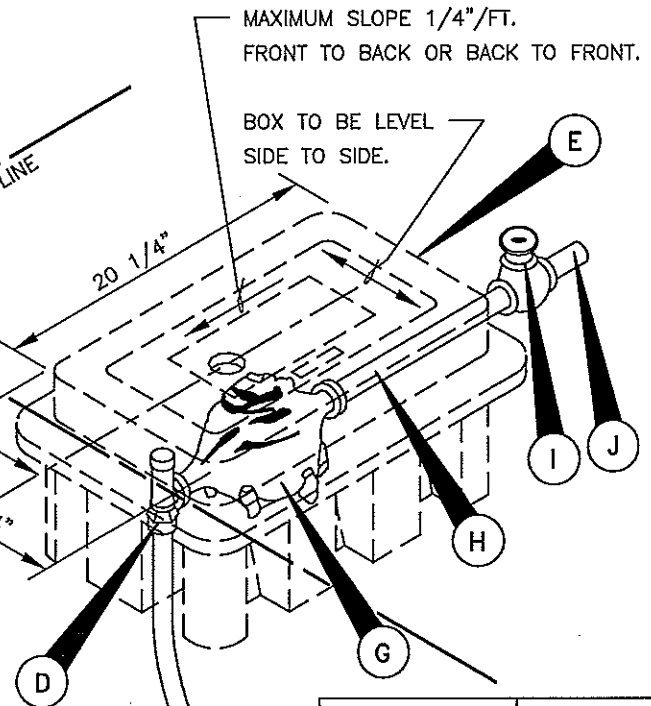
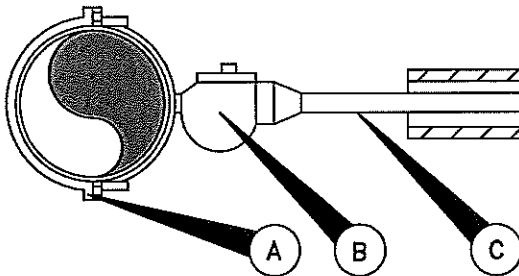
UT 010

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 SWVEL 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 SWVEL 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.



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



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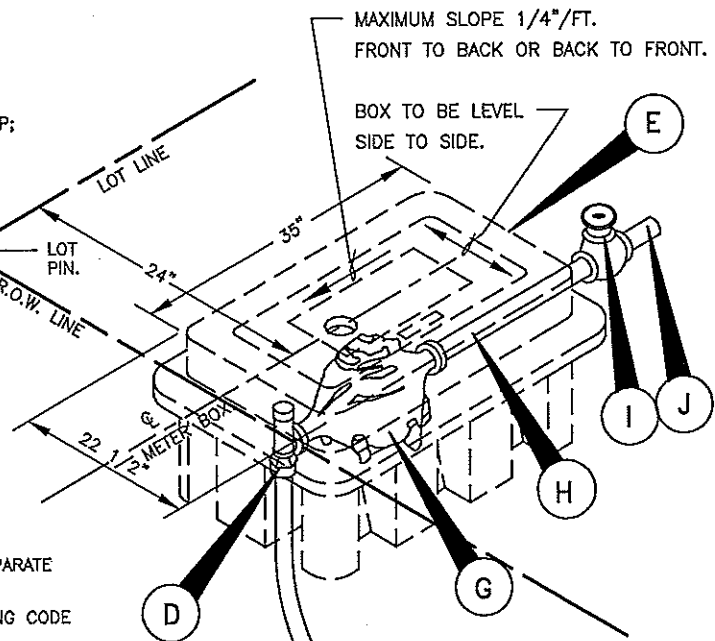
CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

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

STANDARD
UT 011

MATERIAL LIST

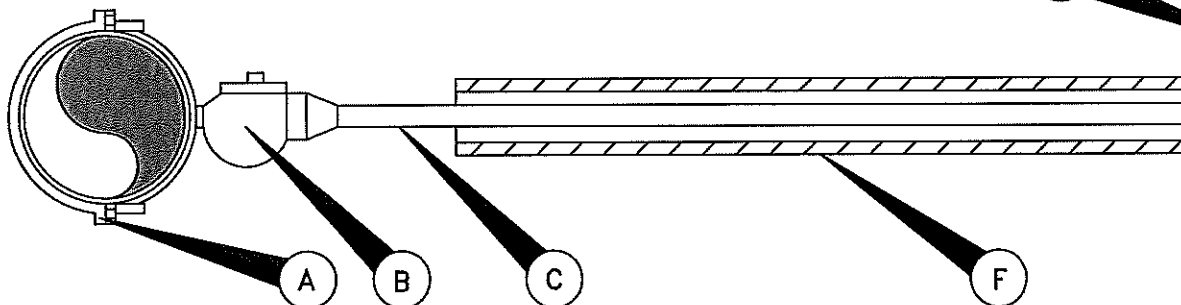
- A. SERVICE CLAMP REQUIRED.
 - B. 2" CORPORATION STOP --- SERVICE PIPE OUTLET.
 - C. 2" SERVICE PIPE.
 - D. BUSHING (IF NECESSARY) AND LOCKING ANGLE METER STOP;
SERVICE PIPE INLET X FLANGED COUPLING OUTLET:
- FOR 1 1/2" METERS: 1 1/2" X 1 1/2"
- FOR 2" METERS: 2" X 2"
 - E. PLASTIC RECTANGULAR METER BOX.
(SEE NOTE #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 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.



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

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 ROTECH, 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.



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CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

SINGLE 1 1/2" OR 2"
WATER METER DETAIL

STANDARD

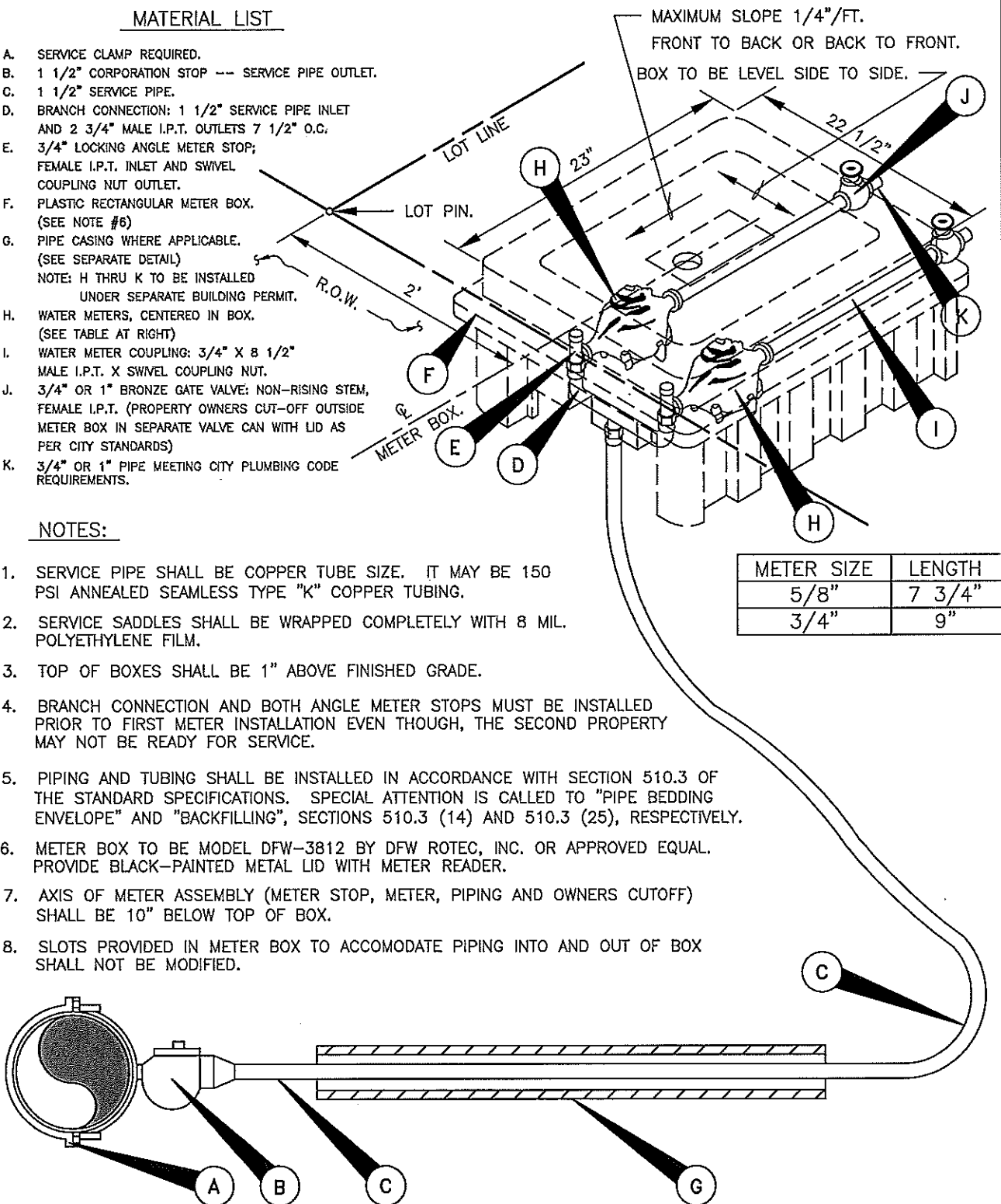
UT 012

MATERIAL LIST

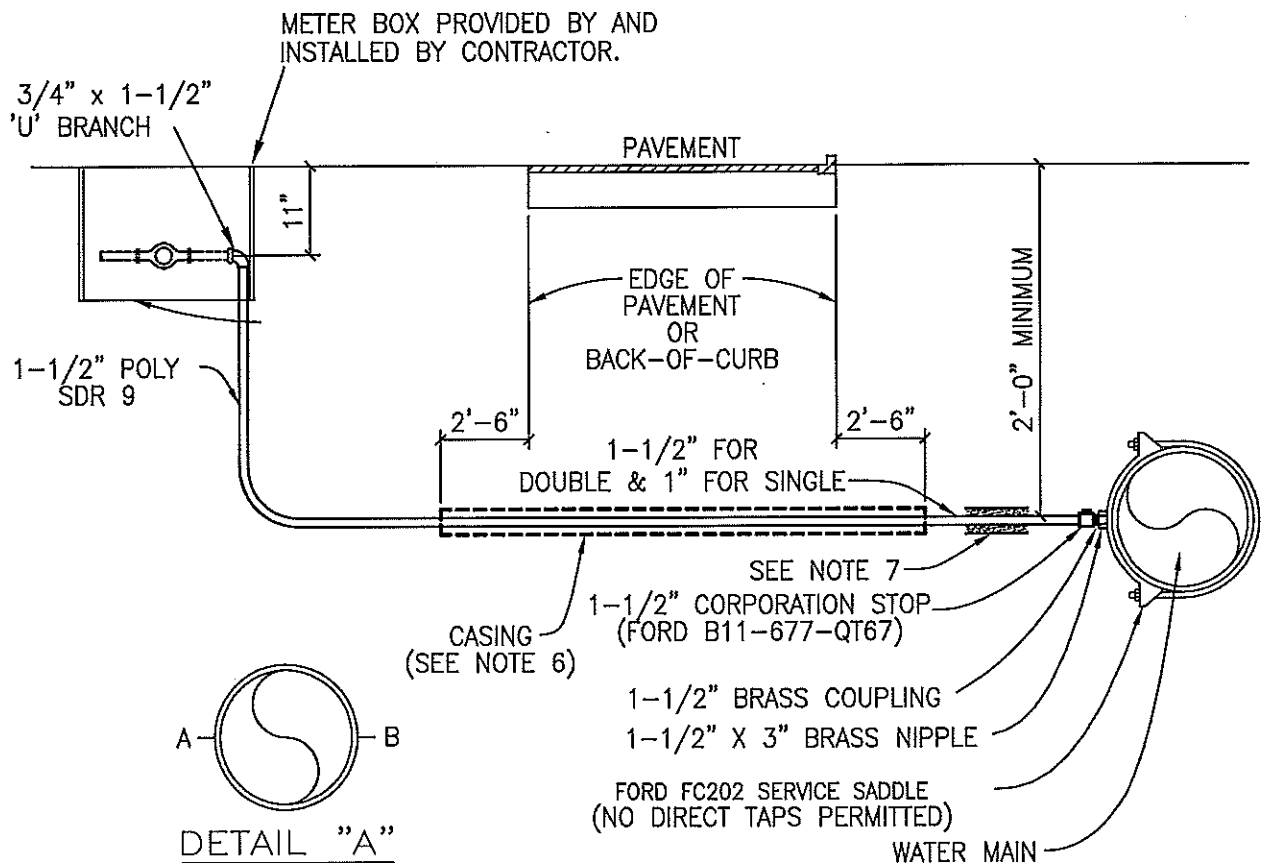
- A. SERVICE CLAMP REQUIRED.
- B. 1 1/2" CORPORATION STOP --- SERVICE PIPE OUTLET.
- C. 1 1/2" SERVICE PIPE.
- D. BRANCH CONNECTION: 1 1/2" SERVICE PIPE INLET AND 2 3/4" MALE I.P.T. OUTLETS 7 1/2" O.C.
- E. 3/4" LOCKING ANGLE METER STOP; FEMALE I.P.T. INLET AND SWIVEL COUPLING NUT OUTLET.
- F. PLASTIC RECTANGULAR METER BOX. (SEE NOTE #6)
- G. PIPE CASING WHERE APPLICABLE. (SEE SEPARATE DETAIL)
NOTE: H THRU K TO BE INSTALLED UNDER SEPARATE BUILDING PERMIT.
- H. WATER METERS, CENTERED IN BOX. (SEE TABLE AT RIGHT)
- I. WATER METER COUPLING: 3/4" X 8 1/2" MALE I.P.T. X SWIVEL COUPLING NUT.
- J. 3/4" OR 1" BRONZE GATE VALVE: NON-RISING STEM, FEMALE I.P.T. (PROPERTY OWNERS CUT-OFF OUTSIDE METER BOX IN SEPARATE VALVE CAN WITH LID AS PER CITY STANDARDS)
- K. 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. BRANCH CONNECTION AND BOTH ANGLE METER STOPS MUST BE INSTALLED PRIOR TO FIRST METER INSTALLATION EVEN THOUGH, THE SECOND PROPERTY MAY NOT BE READY FOR SERVICE.
5. 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.
6. METER BOX TO BE MODEL DFW-3812 BY DFW ROTECH, INC. OR APPROVED EQUAL. PROVIDE BLACK-PAINTED METAL LID WITH METER READER.
7. AXIS OF METER ASSEMBLY (METER STOP, METER, PIPING AND OWNERS CUTOFF) SHALL BE 10" BELOW TOP OF BOX.
8. SLOTS PROVIDED IN METER BOX TO ACCOMMODATE PIPING INTO AND OUT OF BOX SHALL NOT BE MODIFIED.



	APPROVED BY:	DATE:	CITY OF TAYLOR WILLIAMSON COUNTY, TEXAS STANDARD DETAILS	STANDARD
	CS	JULY 2009	DOUBLE 5/8" OR 3/4" WATER METERS DETAIL	UT 013



NOTES:

1. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED A MINIMUM OF 18" OFFSET AND AT THE CENTERLINE AS SHOWN ON DETAIL "A".
2. WHERE NO SIDEWALK EXISTS, METER BOXES SHALL BE SET TO CONFORM TO FINISHED GRADE.
3. AUTHORIZED SERVICE LINE MATERIAL: TYPE 'K' COPPER OR POLY SDR 9.
4. SERVICE LINES SHALL BE CONTINUOUS FROM CORPORATION STOP TO CORPORATION STOP WITH NO FITTINGS IN BETWEEN.
5. SERVICE CASING SHALL NOT BE INSTALLED BY WATER JETTING UNDER ROADWAY.
6. CASING REQUIRED FOR ALL PAVEMENT CROSSINGS. 4" SDR-26 REQUIRED FOR OPEN-CUT. STEEL CASING PIPE REQUIRED FOR JACK AND BORE. LIMITS OF CASING SHOULD EXTEND SIX FEET BEYOND THE EDGE OF PAVEMENT OR BACK-OF-CURB WHERE REASONABLE WITH 2.5' MINIMUM.
7. THERE SHALL BE A 6" ENVELOPE OF 3/8" ROCK AROUND ALL SERVICE PIPE.
8. ANY VARIATIONS ON FITTINGS MUST BE APPROVED BY THE CITY ENGINEER.
9. SINGLE METER BOX AND LID - HUGHES SUPPLY PART NO. D12-BAMR, OR APPROVED EQUAL.
DOUBLE METER BOX - HUGHES SUPPLY PART NO. D1500-DUB/O, LID - D15-BAMRL, OR APP. EQUAL.



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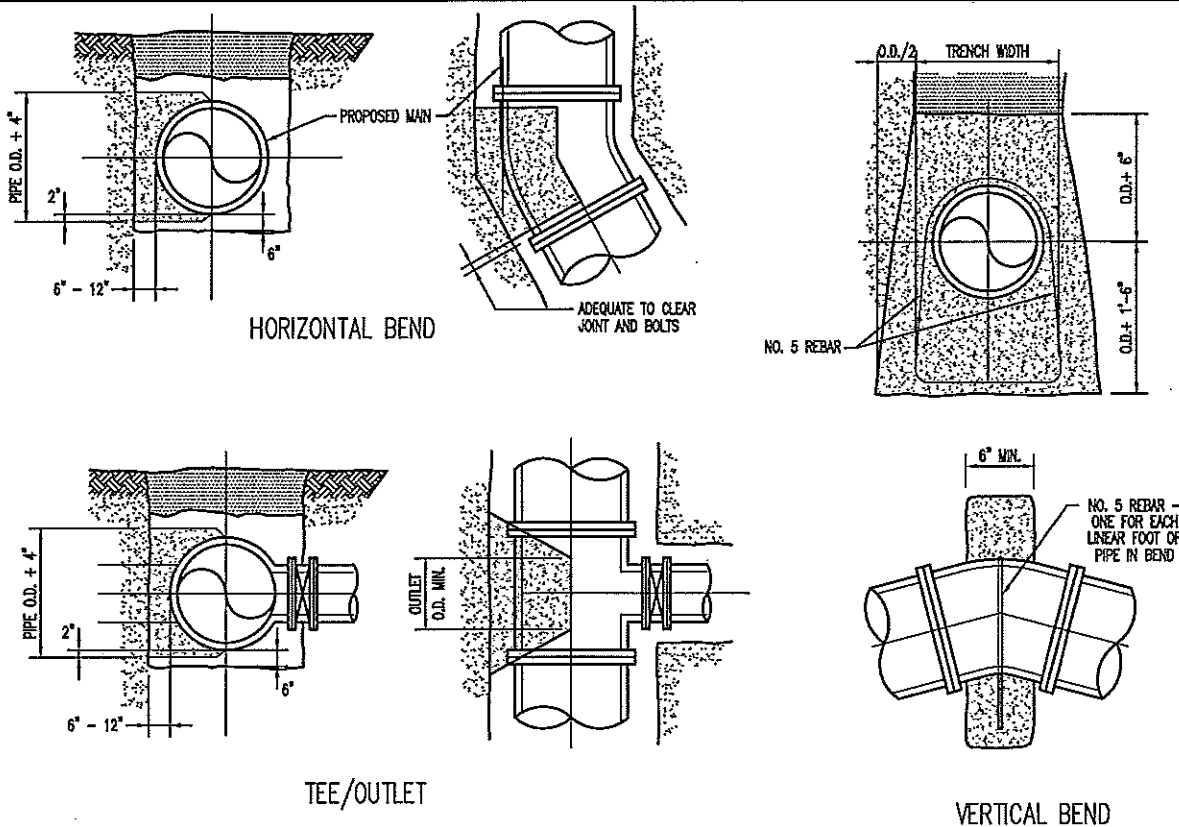
DATE:
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CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

STANDARD

UT 014

TYPICAL WATER SERVICE - ELEVATION



THRUST BLOCK DESIGN AS FOLLOWS:

A. PRESSURE OF 150 P.S.I. (ACTUAL IF HIGHER)
+ 50% 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 **

		AREA REQUIRED (SQUARE FEET) BEARING AGAINST TRENCH WALL FOR PRESSURE PIPE						
PIPE SIZE (INCHES)	THRUST (POUNDS)	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	2.51	3.55	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.



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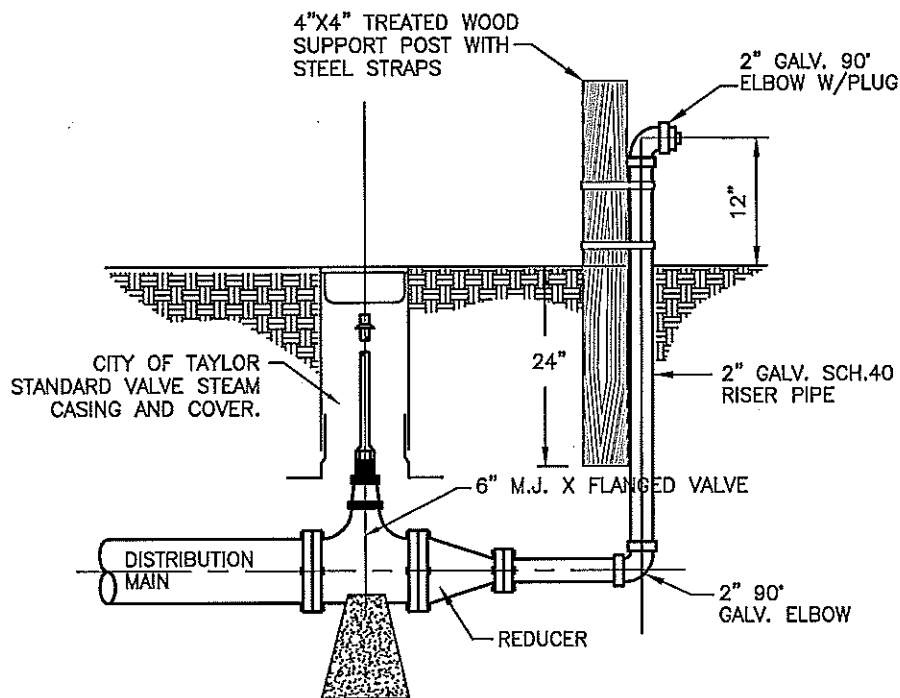
DATE:
JULY 2009

CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

CONCRETE THRUST BLOCKING

STANDARD

UT 015



FLUSHING VALVE DETAIL

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



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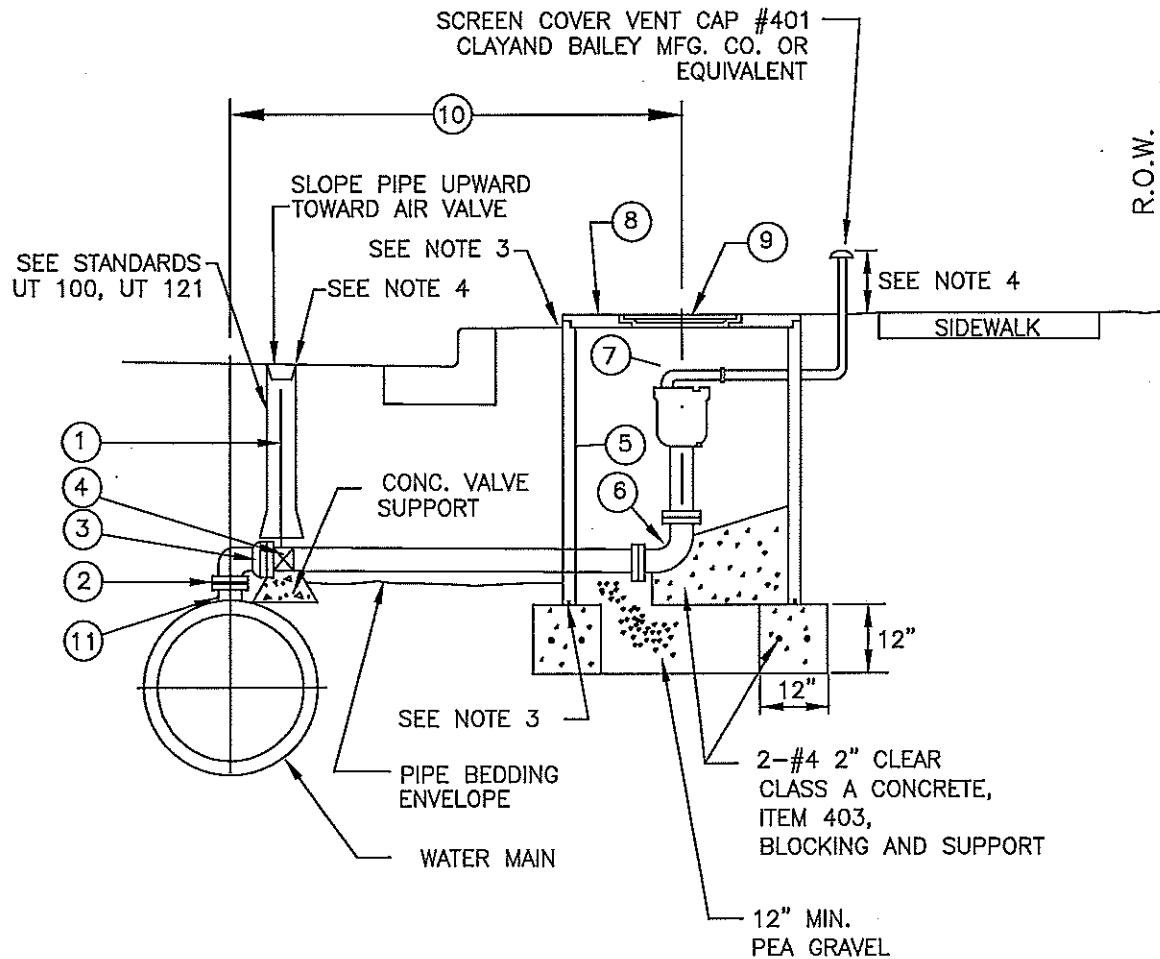
JULY 2009

CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

FLUSHING VALVE DETAIL

STANDARD

UT 016



- | | |
|--|--|
| ① STEM EXTENSION | ⑦ COMBINATION AIR RELEASE VALVE WITH GOOSNECK |
| ② INSULATED FLANGE CONNECTION | ⑧ REINFORCED PRECAST CONCRETE LID (AASHTO H-20 LOADING) |
| ③ 90° BEND (FLG X FLG) | ⑨ RING AND 32" COVER |
| ④ GATE VALVE FLG X MJ | ⑩ PER PLAN DIMENSION OR AS DETERMINED BY ENGINEER OR DESIGNATED REPRESENTATIVE |
| ⑤ CLASS III R.C.P. MANHOLE 60" MIN. I.D. | ⑪ FLANGED OUTLET PER ANSI B16.1 |
| ⑥ 90° BEND (FLG. X FLG.) | |



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JULY 2009

CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

STANDARD

UT 017

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 1½" 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'



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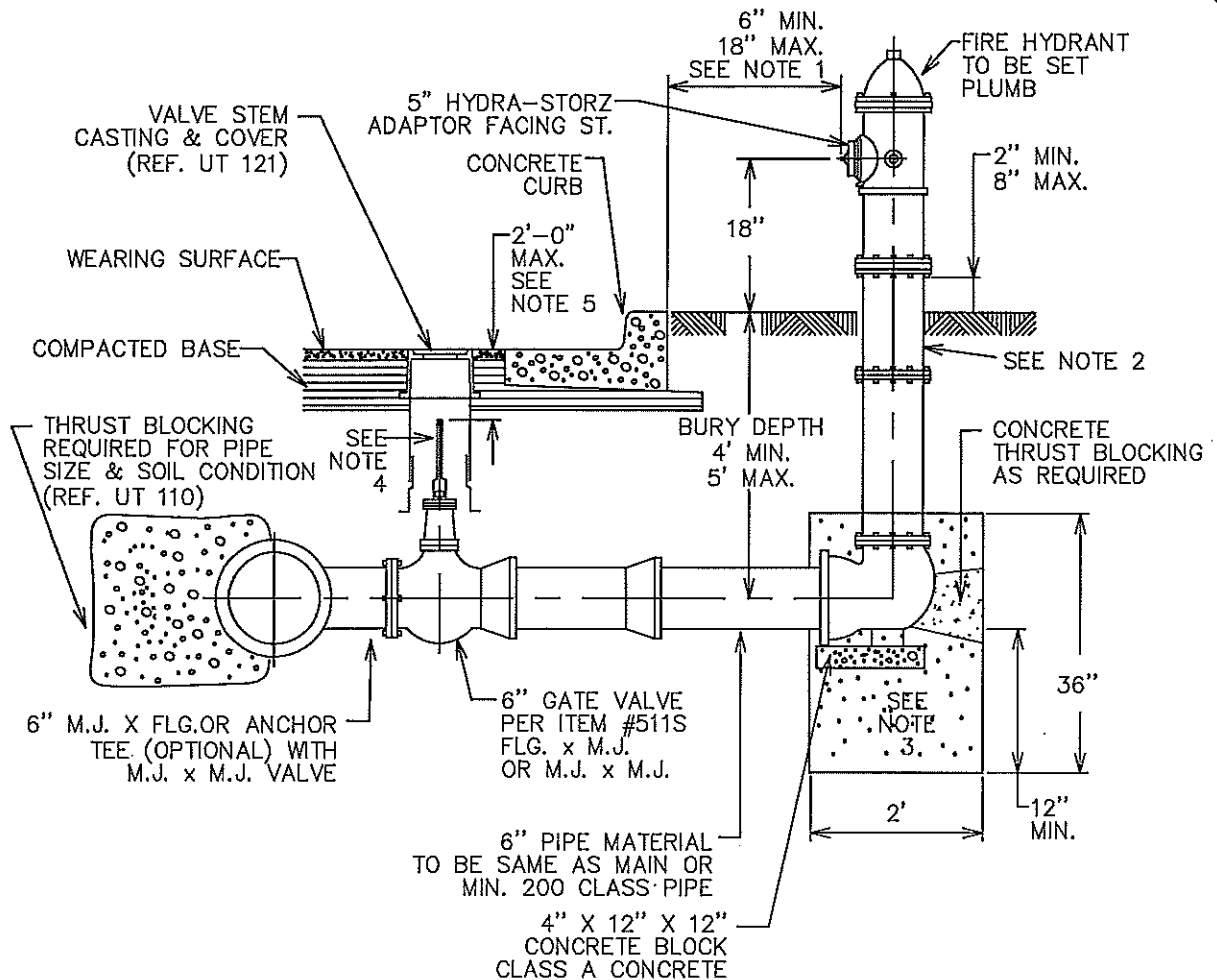
CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

3" OR LARGER VENTED
AIR / VACUUM VALVE INSTALLATION

STANDARD

UT 017

2 of 2



NOTES:

1. DIMENSIONS ARE APPLICABLE IN SPACE BETWEEN CURB AND SIDEWALK. WHERE WALK ABUTS CURB, AND IN PUBLIC OR COMMERCIAL AREAS, DIMENSION FROM BACK OF CURB SHALL BE 3' TO 6'. HYDRANTS ARE NOT TO BE PLACED IN SIDEWALK OR RAMP AREAS. SEE CITY OF TAYLOR STANDARD SPECIFICATIONS FOR LOCATION OF HYDRANT.
2. FOR BURY DEPTHS GREATER THAN 5', ONE BARREL EXTENSION NOT EXCEEDING 2' LENGTH SHALL BE INSTALLED DIRECTLY BELOW THE FIRE HYDRANT.
3. CRUSHED STONE OR GRAVEL SHALL BE PLACED AROUND THE BOTTOM OF THE HYDRANT FOR A RADIUS OF AT LEAST 12" AND EXTEND AT LEAST 12" ABOVE THE OUTLET. DO NOT BLOCK DRAIN HOLES.
4. WELD SOCKET 2½" X 2" DEEP TO 1" SCH. 40 ROUND STEM EXTENSION, FITTED ON OPERATING NUT, SCH. 80 FOR LENGTHS OVER 10'.
5. VALVE EXTENSIONS ARE REQUIRED ON ALL VALVES THAT EXCEED 3' DEEP FROM FINISHED GRADE. VALVE EXTENSIONS SHALL BE PLACED SUCH THAT THE EXTENSION NUT IS BETWEEN 18" & 24" FROM FINISHED GRADE.
6. HYDRANTS ARE TO BE PAINTED BY MANUFACTURER WITH "KEM-LUSTER" VERMILLION RED.
7. HYDRANTS ARE TO BE MUELLER "CENTURION" OR EQUIVALENT, CAPS AND CHAINS ARE NOT TO BE SUPPLIED WITH HYDRANTS.



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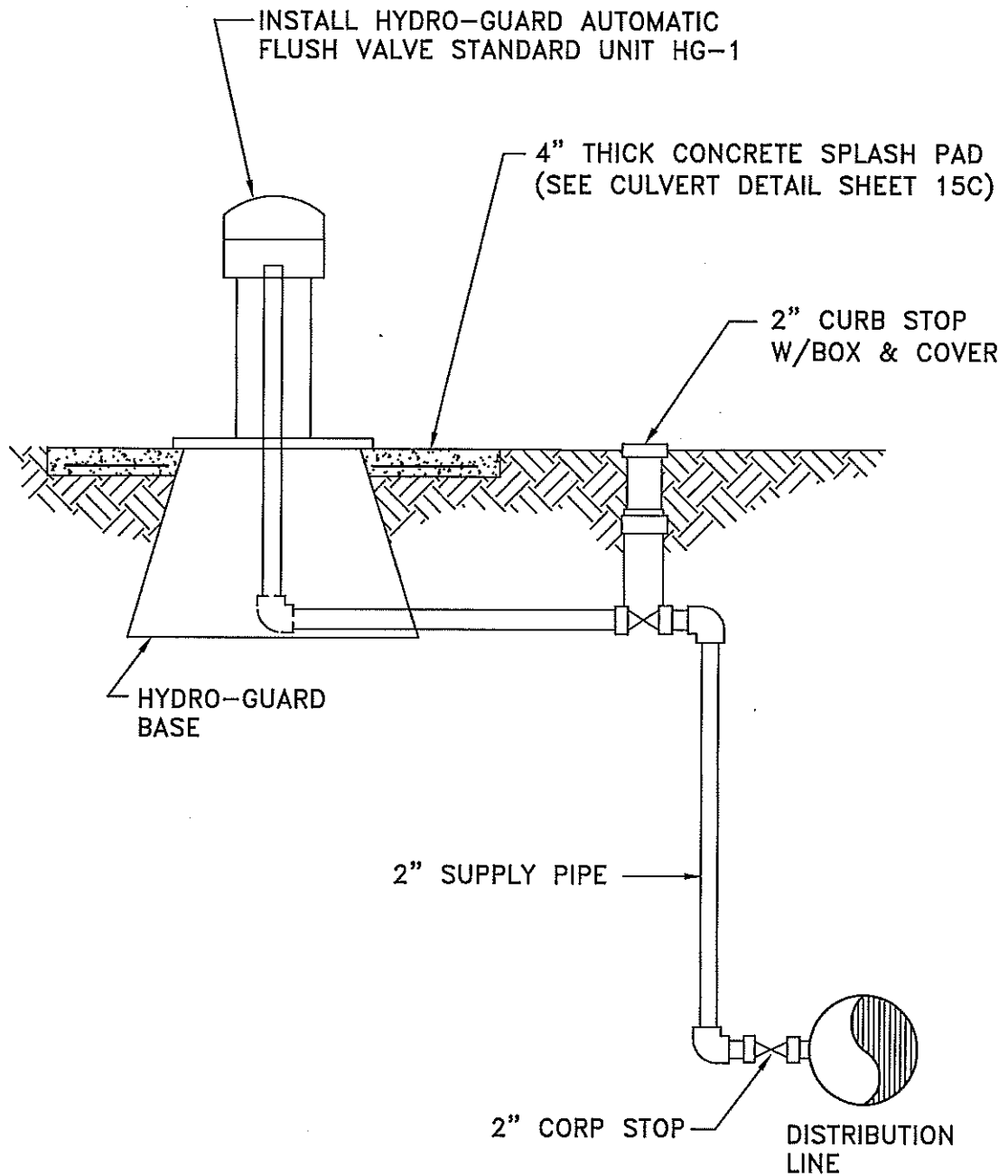
JULY 2009

CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

STANDARD FIRE HYDRANT

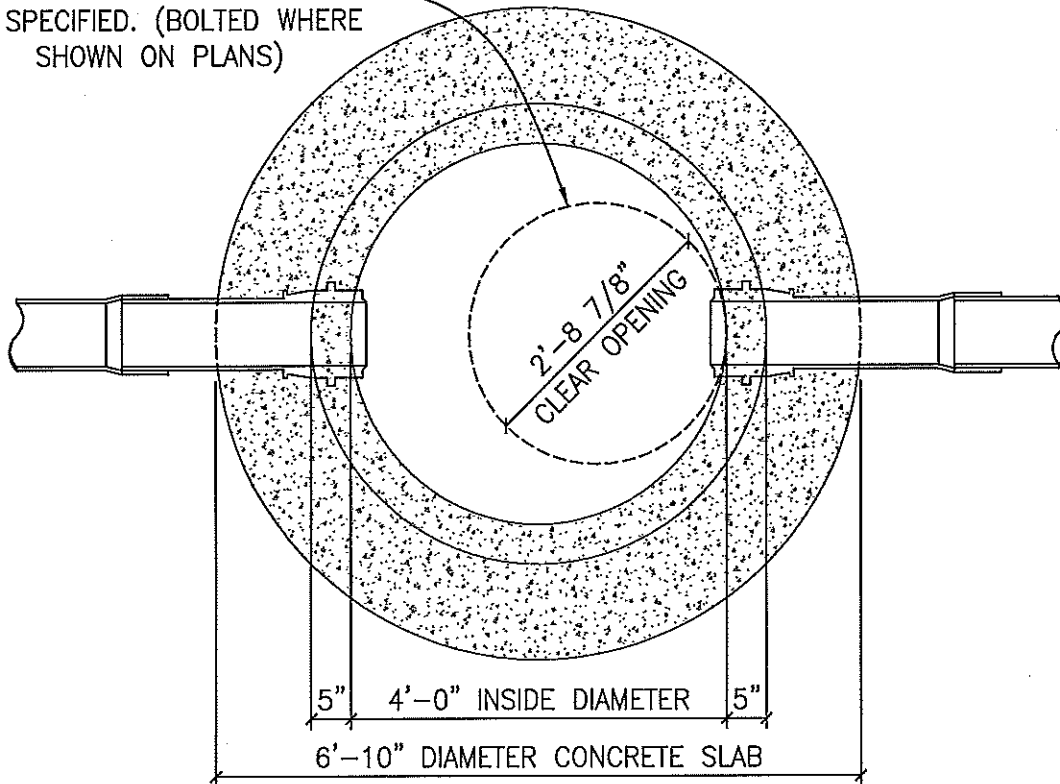
STANDARD

UT 018



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	CS	JULY 2009		UT 019
			AUTOMATIC FLUSHING VALVE	

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



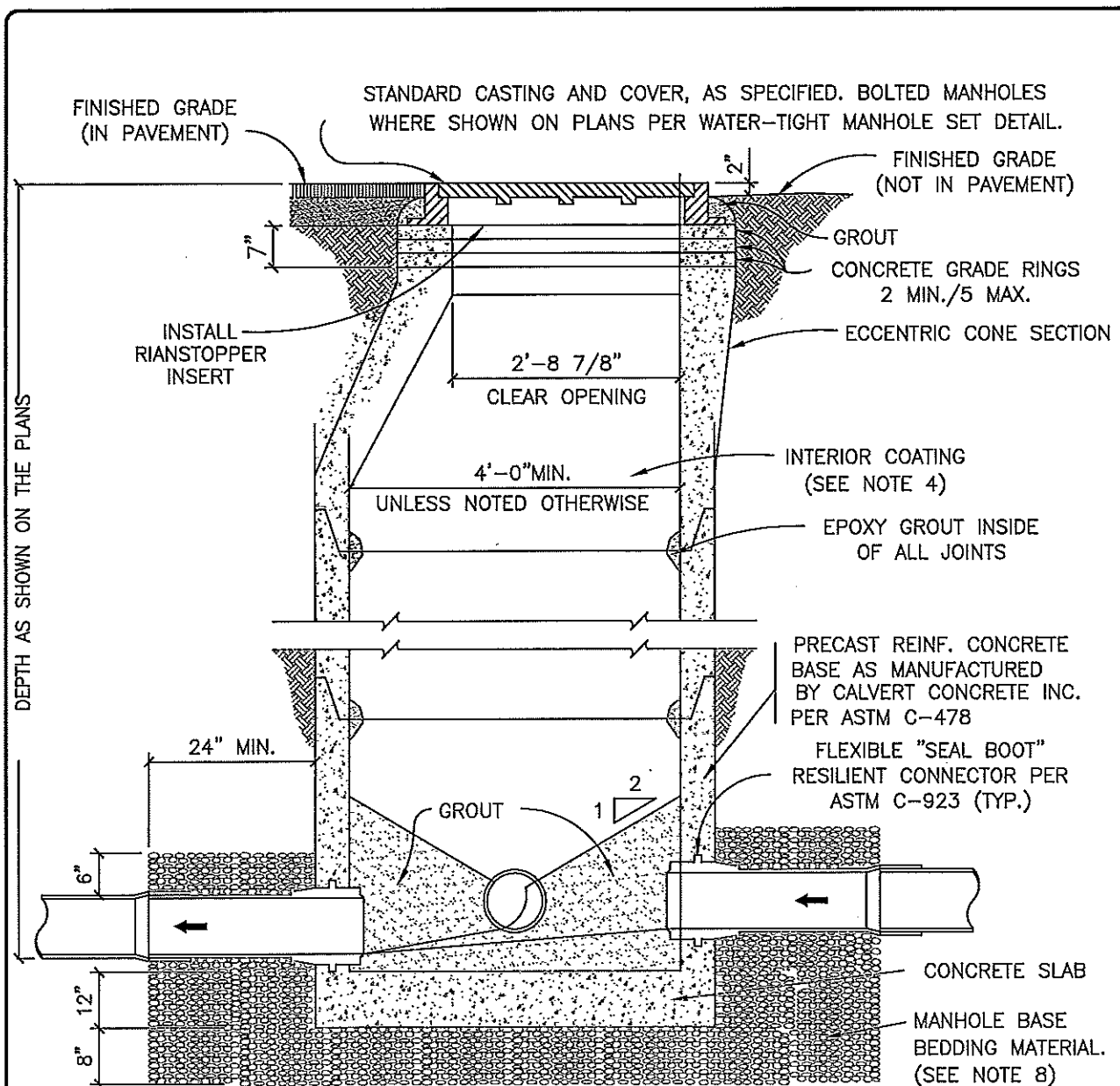
MANHOLE PLAN

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.

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	CS	JULY 2009		



NOTES:

1. MANHOLES SHALL BE PRECAST ASTM C-478 BELL AND SPIGOT WITH "O" RING JOINTS.
2. SEE PLANS AND MANHOLE SCHEDULE, FOR MANHOLE SIZE, LOCATION, CONFIGURATION, TYPE OF TOP SECTION, VENTING REQUIREMENTS, PIPE SIZE AND TYPES.
3. SEE SPECIFICATIONS ON MATERIALS AND CONSTRUCTION.
4. AN 80 MIL COAT OF RAVEN LINING SYSTEMS, RAVEN 405 ULTRA HIGH BUILD EPOXY COATING, OR APPROVED EQUAL, TO BE APPLIED TO ENTIRE INTERIOR OF EACH WASTEWATER MANHOLE AND UNDERSIDE OF FLAT TOPS.
5. ALL MANHOLE COVERS SHALL BE BOLTED AND GASKETTED WHEN MANHOLES ARE LOCATED OUT FROM PAVEMENT.
6. MANHOLES TO BE VENTED ARE IDENTIFIED ON MANHOLE SCHEDULE. REFERENCE MANHOLE VENT DETAIL.
7. MANHOLES ARE TO BE DESIGNED TO RESIST LATERAL AND VERTICAL SOIL FORCES RESULTING FROM MANHOLE DEPTH. ADDITIONALLY, MANHOLES LOCATED IN PAVEMENT TO BE DESIGNED FOR HS-20 TRAFFIC LOADS.
8. MANHOLE BASE BEDDING MATERIAL SPECS. FOR 3/4" WASHED GRAVEL:
 SIEVE SIZE 2", PERCENT (%) RETAINED 0-10
 SIEVE SIZE 1 1/2", % RETAINED 45-80
 SIEVE SIZE 1", % RETAINED 85-100
 SIEVE SIZE 3/4", % RETAINED 95-100



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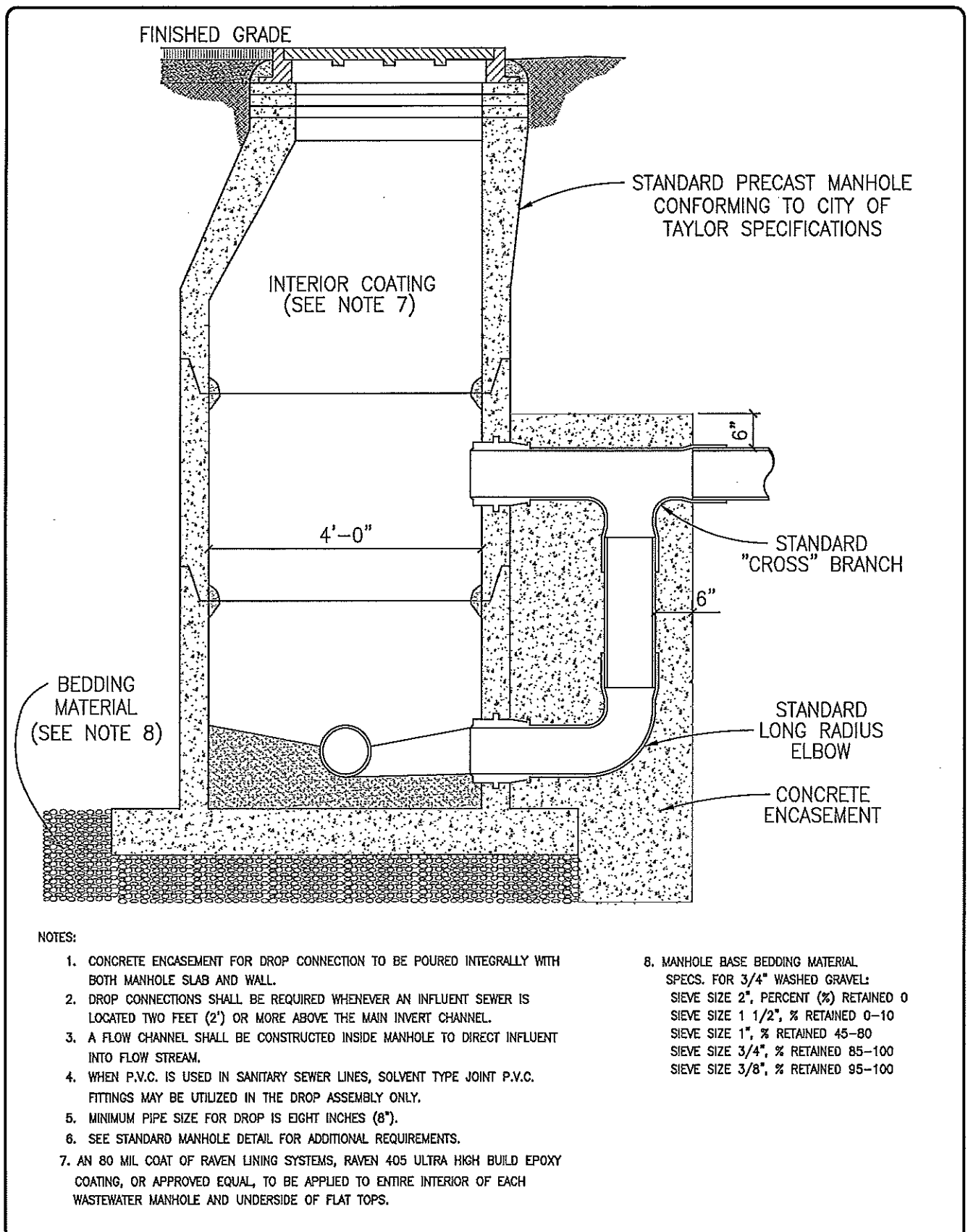
JULY 2009

CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

STANDARD

STANDARD MANHOLE - SECTION

UT 201



	APPROVED BY:	DATE:	CITY OF TAYLOR WILLIAMSON COUNTY, TEXAS STANDARD DETAILS	STANDARD UT 202
	CS	JULY 2009		

12" TO 18" NORMAL
(2" MIN-24" MAX) OF
ADJUSTMENT PRECAST
REINFORCED CONCRETE
GRADE RINGS, CONFORMING
TO ASTM C-478, OR EQUAL.
CASTING AND MANHOLE LIDS.

MANHOLE FRAME AND 24" DIA.
COVER, EQUAL TO McKINEY IRON
WORKS No. A24AM WITH PICK SLOTS.
(MUST WITHSTAND DIRECT TRAFFIC
LOADS)

WHERE MH'S ARE BUILT IN STREET
TO BE PAVED, MH RIM TO BE SET
TO PROPOSED PAVING GRADE.

T/G

3'-0"

2'-8 7/8"

MIN. 1/2" CONCRETE MORTAR
INSIDE AND OUTSIDE OF MH.

8"

MANHOLE LOCATION TO
BE STENCILED ON FACE
OF CURB "M.H."

CONCRETE - SEE STANDARD
MANHOLE DETAIL

SLOPE 1" PER
FOOT TYPICAL

VARIES

CLASS "A" (3000 PSI-28 DAY)
CONCRETE. (WHERE MH IS IN
STREET, USE CLASS "C"
(3600 PSI-28DAY) CONCRETE.

*4 FT DIA FOR SEWER PIPE
UP TO 21" DIA., 5 FT DIA.
FOR SEWER PIPE FROM 24"
DIA. TO 39" DIA.

8"

6"

CRUSHED STONE CUSHION FOUNDATION
AS DEEMED NECESSARY BY THE CITY
ENGINEER.



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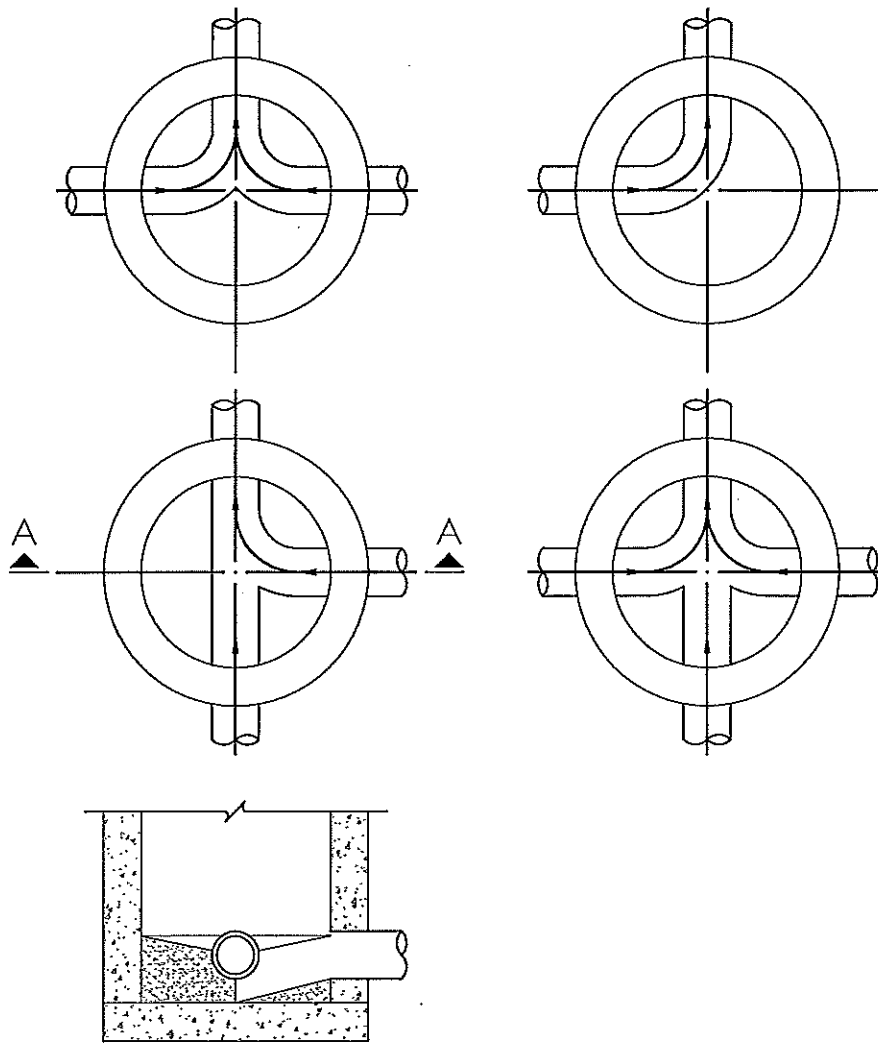
JULY 2009

CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

STANDARD

UT 203

STANDARD CAST-IN-PLACE MANHOLE



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.



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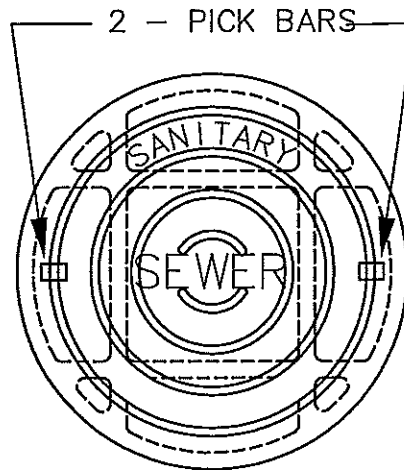
JULY 2009

CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

FLOW PATTERNS FOR
INVERT CHANNELS

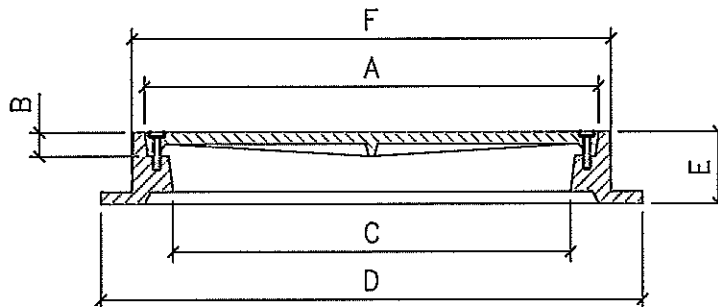
STANDARD

UT 204

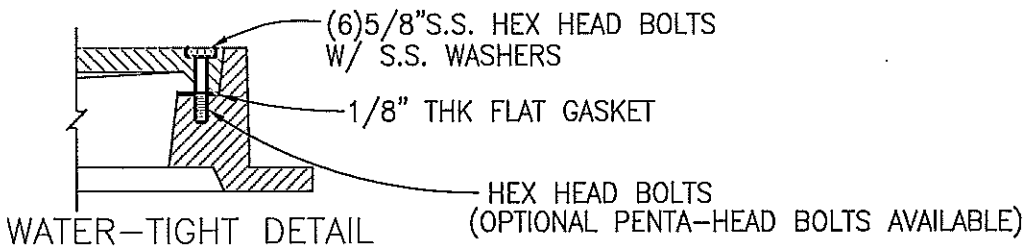


VULCAN #VM-42 OR
APPROVED EQUAL

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.



	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



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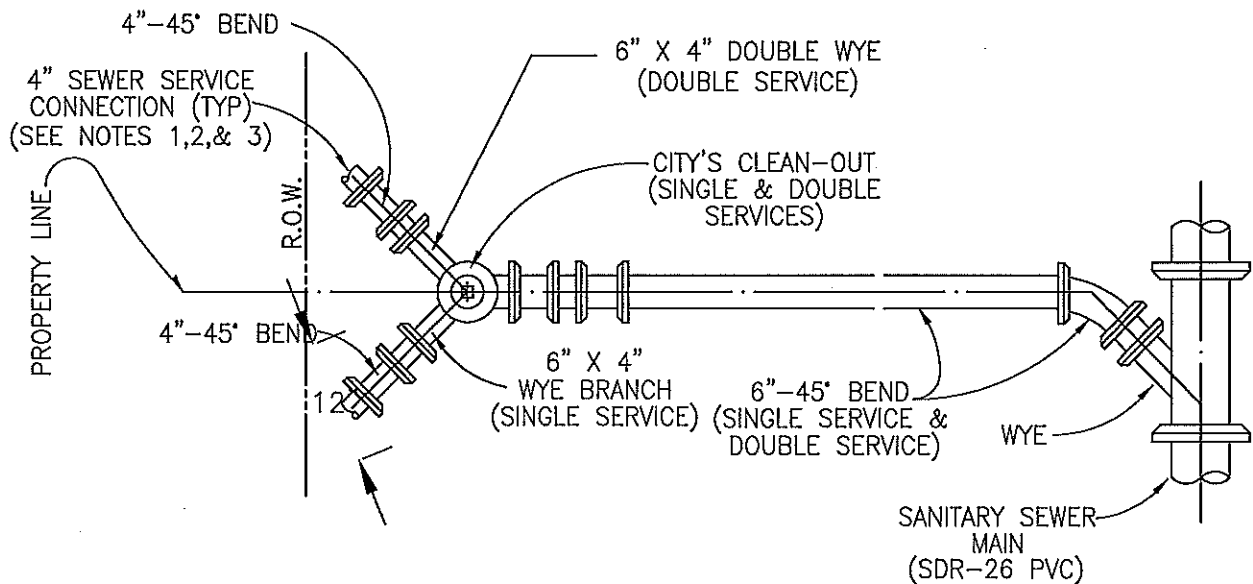
JULY 2009

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.



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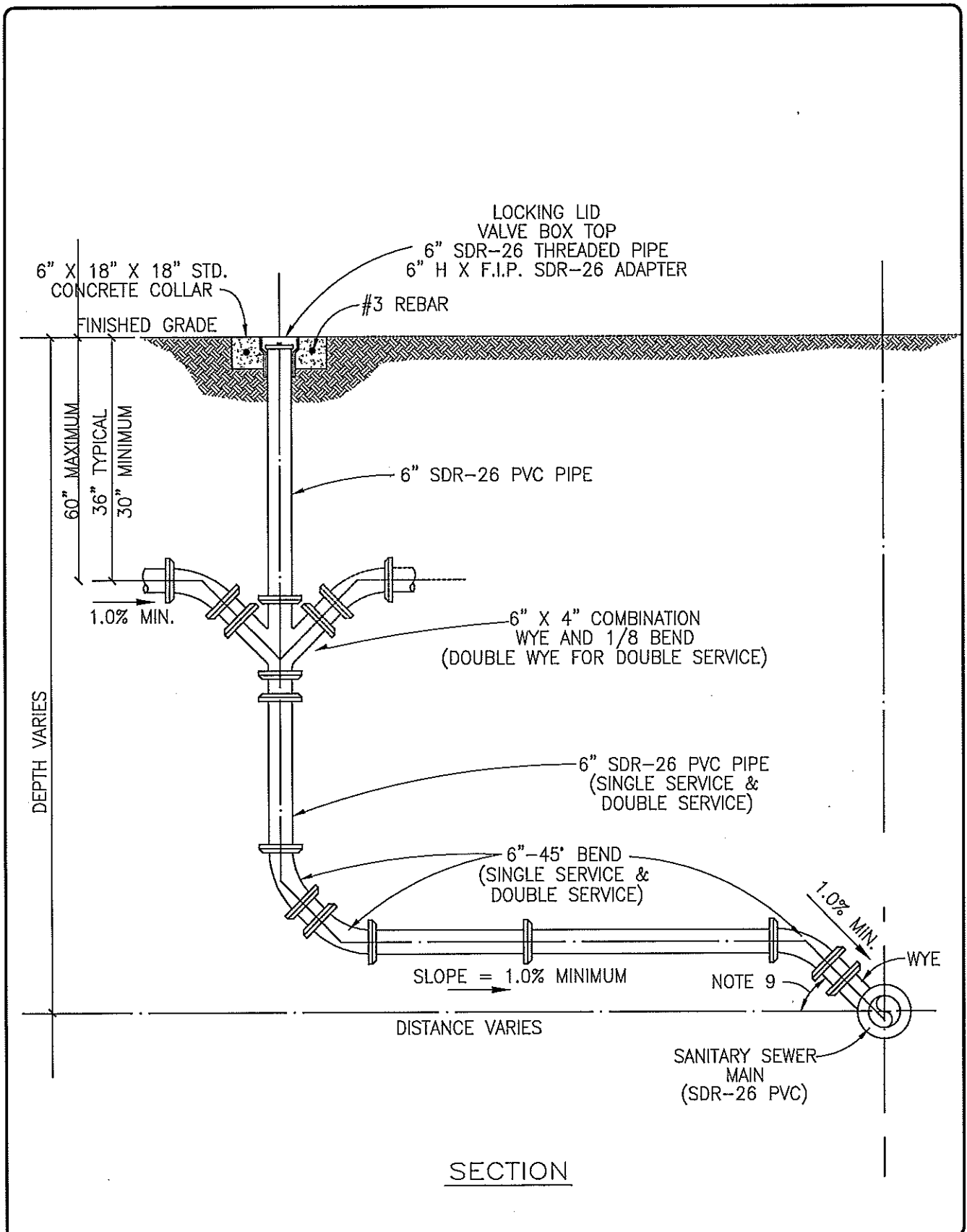
JULY 2009

CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

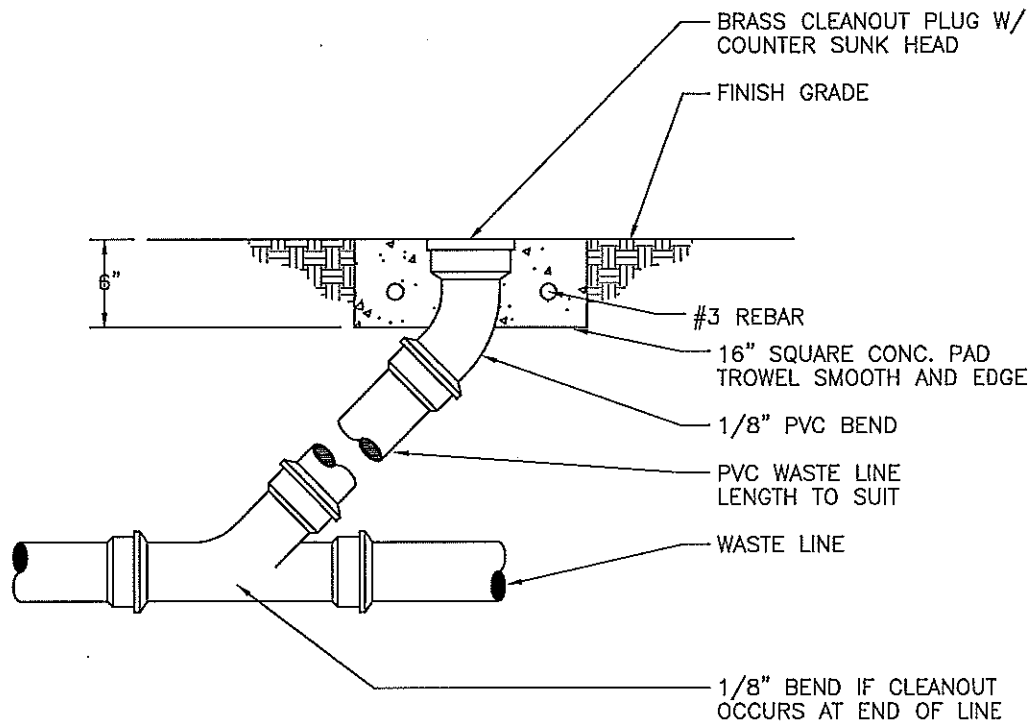
SEWER SERVICE CONNECTION
PLAN VIEW

STANDARD

UT 206



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



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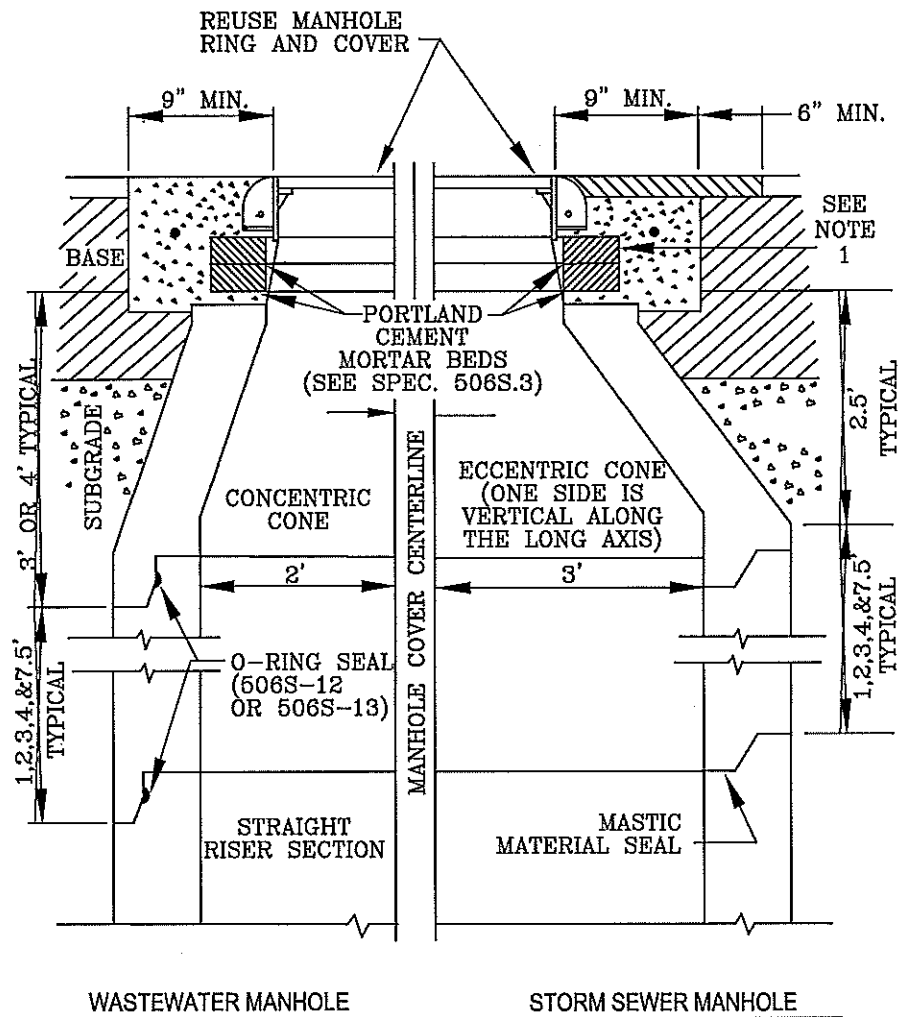
JULY 2009

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.



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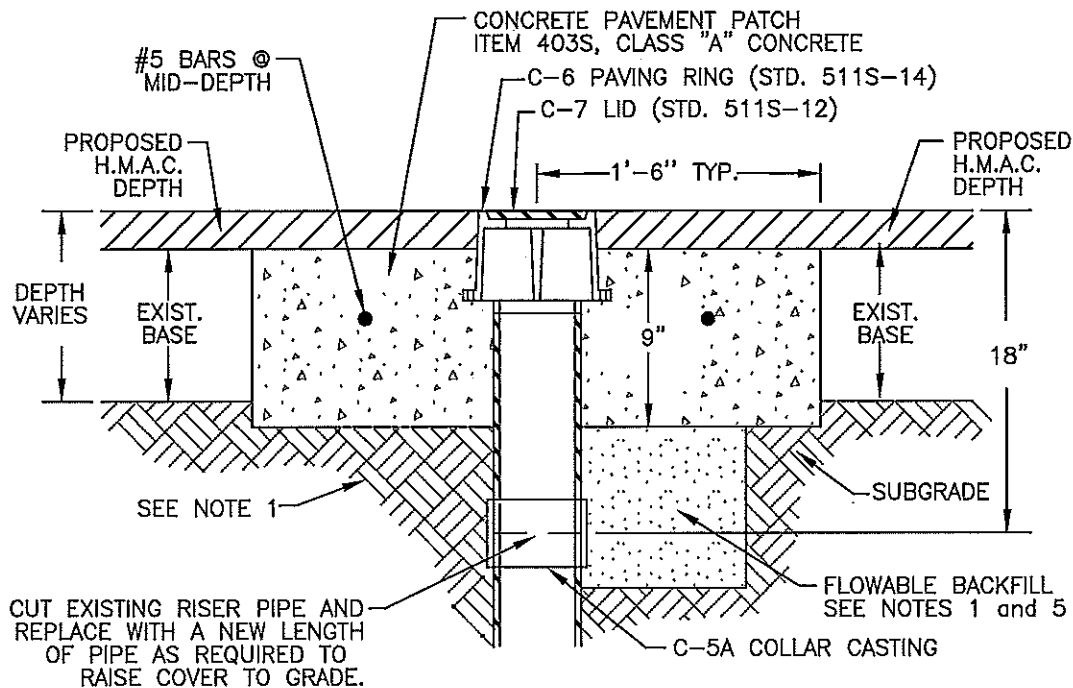
JULY 2009

CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

STANDARD

UT 209

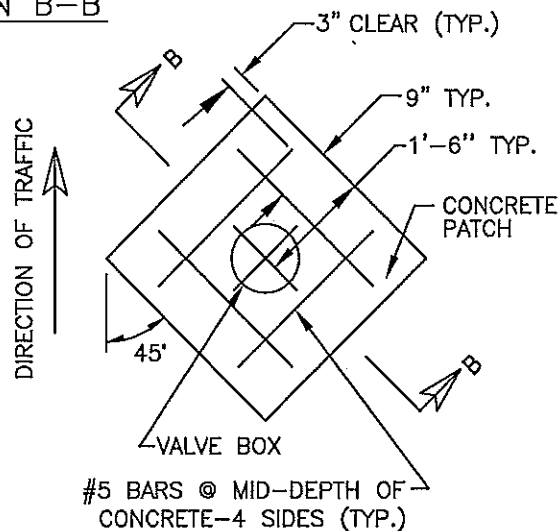
MAJOR MANHOLE ADJUSTMENT



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



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DATE:

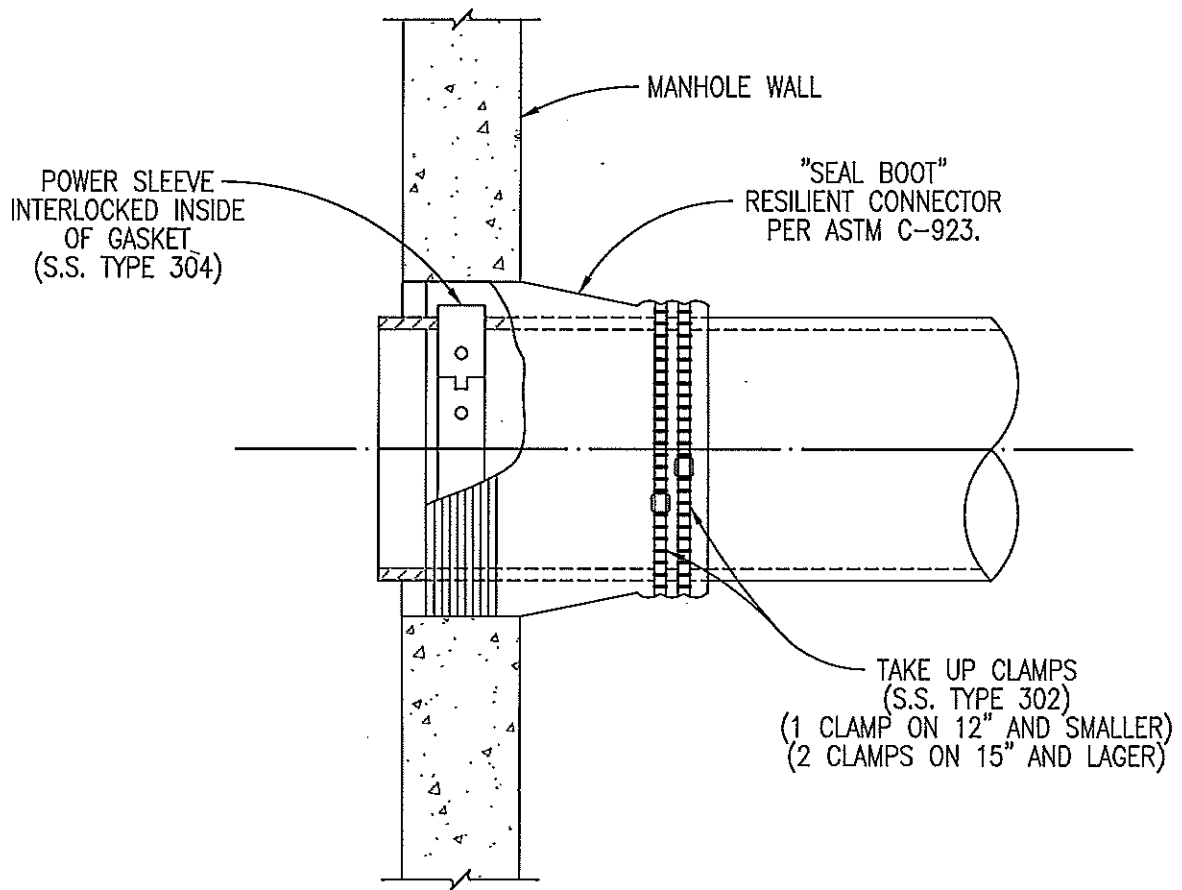
JULY 2009

CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

VALVE BOX ADJUSTMENT
DETAIL

STANDARD

UT 210



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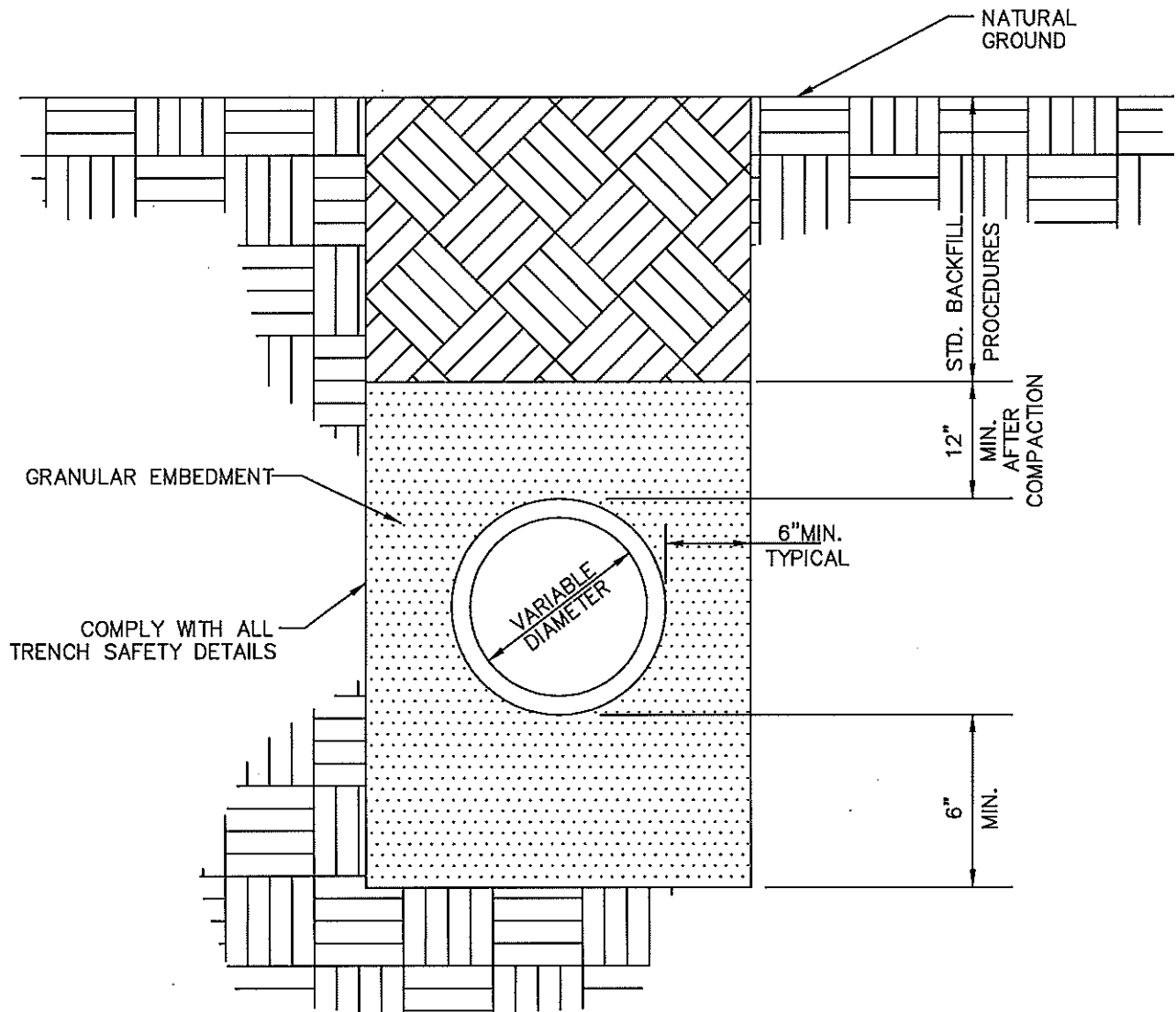
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CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

FLEXIBLE "SEAL BOOT" CONNECTOR

STANDARD

UT 211



NOTE:

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



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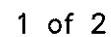
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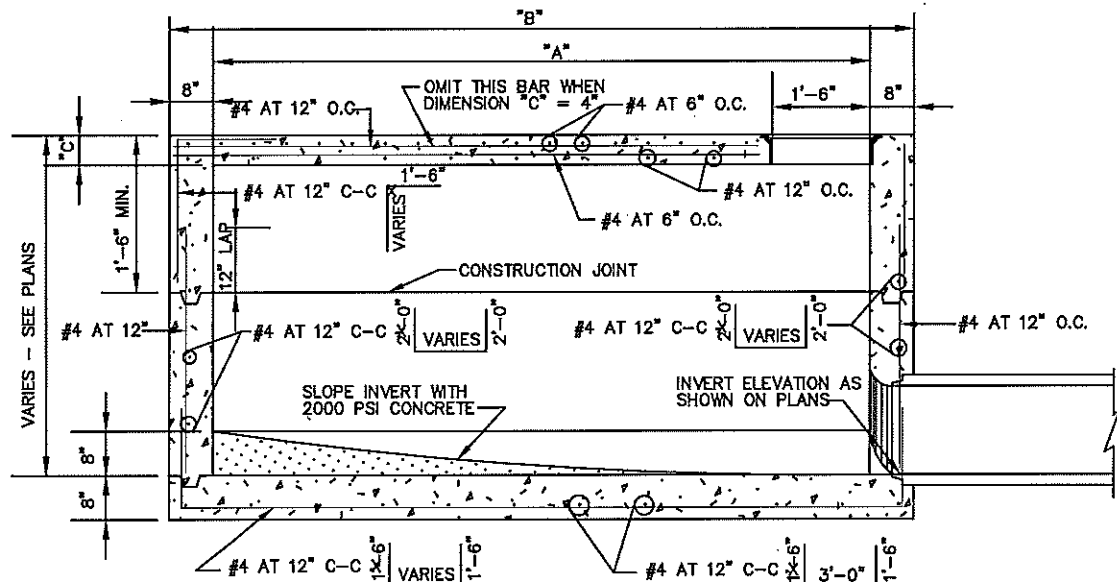
CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

STORM DRAIN PIPE EMBEDMENT
DETAIL

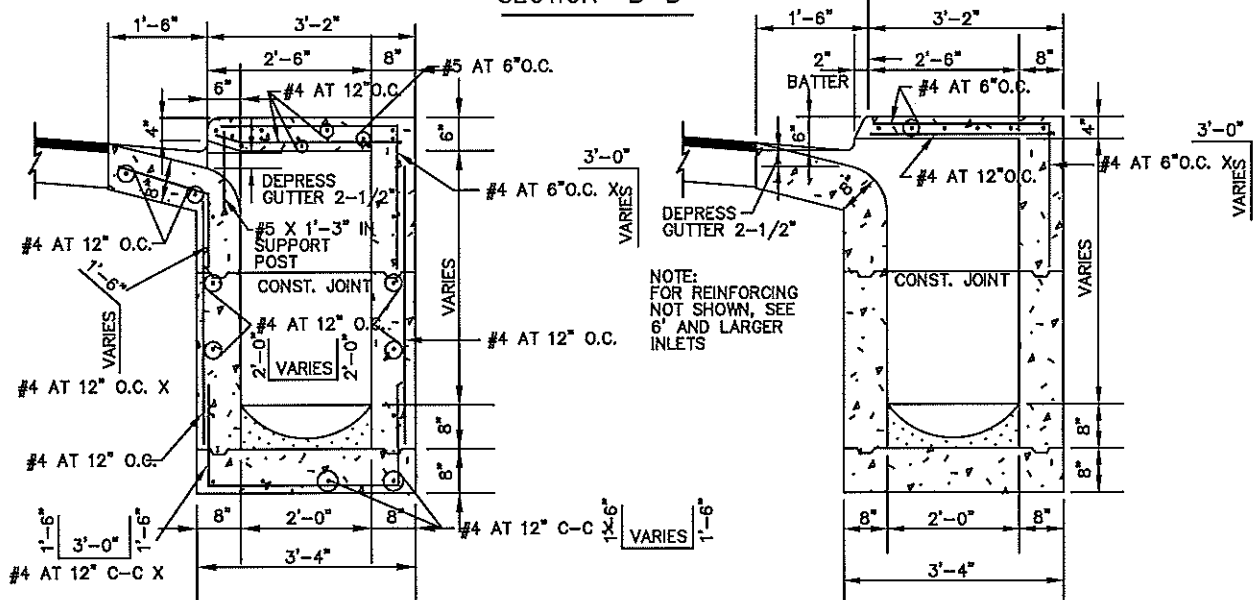
STANDARD

UT 300





SECTION B-B



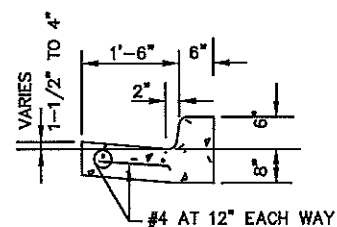
(6' AND LARGER INLETS)

SECTIONS C-C

(3'-5' INLETS)

NO SCALE

SCHEDULE OF DIMENSIONS		
OPENING "A"	OUTSIDE "B"	TOP SLAB "C"
3'-0"	4'-4"	4"
4'-0"	5'-4"	4"
5'-0"	6'-4"	4"
6'-0"	7'-4"	6"
8'-0"	9'-4"	6"
10'-0"	11'-4"	6"
12'-0"	13'-4"	6"
14'-0"	15'-4"	6"
AND LARGER	"A" + 16"	6"



SECTION D-D

NO SCALE



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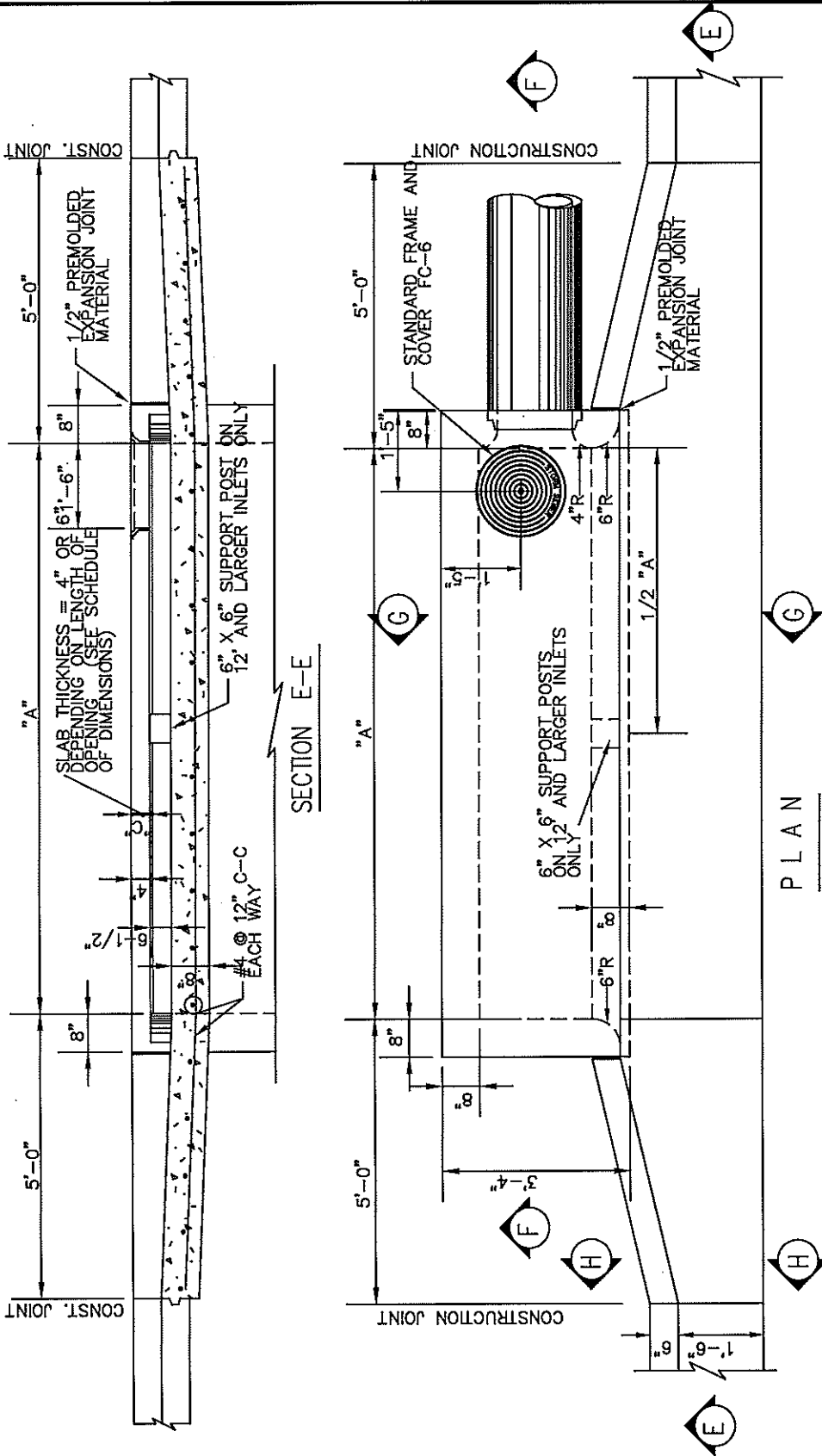
CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

STANDARD CURB INLET DETAIL

STANDARD

UT 301

2 of 2



OPENING "A"	OUTSIDE "B"	TOP SLAB "C"
3'-0"	4'-4"	4"
4'-0"	5'-4"	4"
5'-0"	6'-4"	4"
6'-0"	7'-4"	6"
8'-0"	9'-4"	6"
10'-0"	11'-4"	6"
12'-0"	13'-4"	6"
14'-0"	15'-4"	6"
AND LARGER	"A" + 16"	6"

RECESSED CURB INLET

NO SCALE



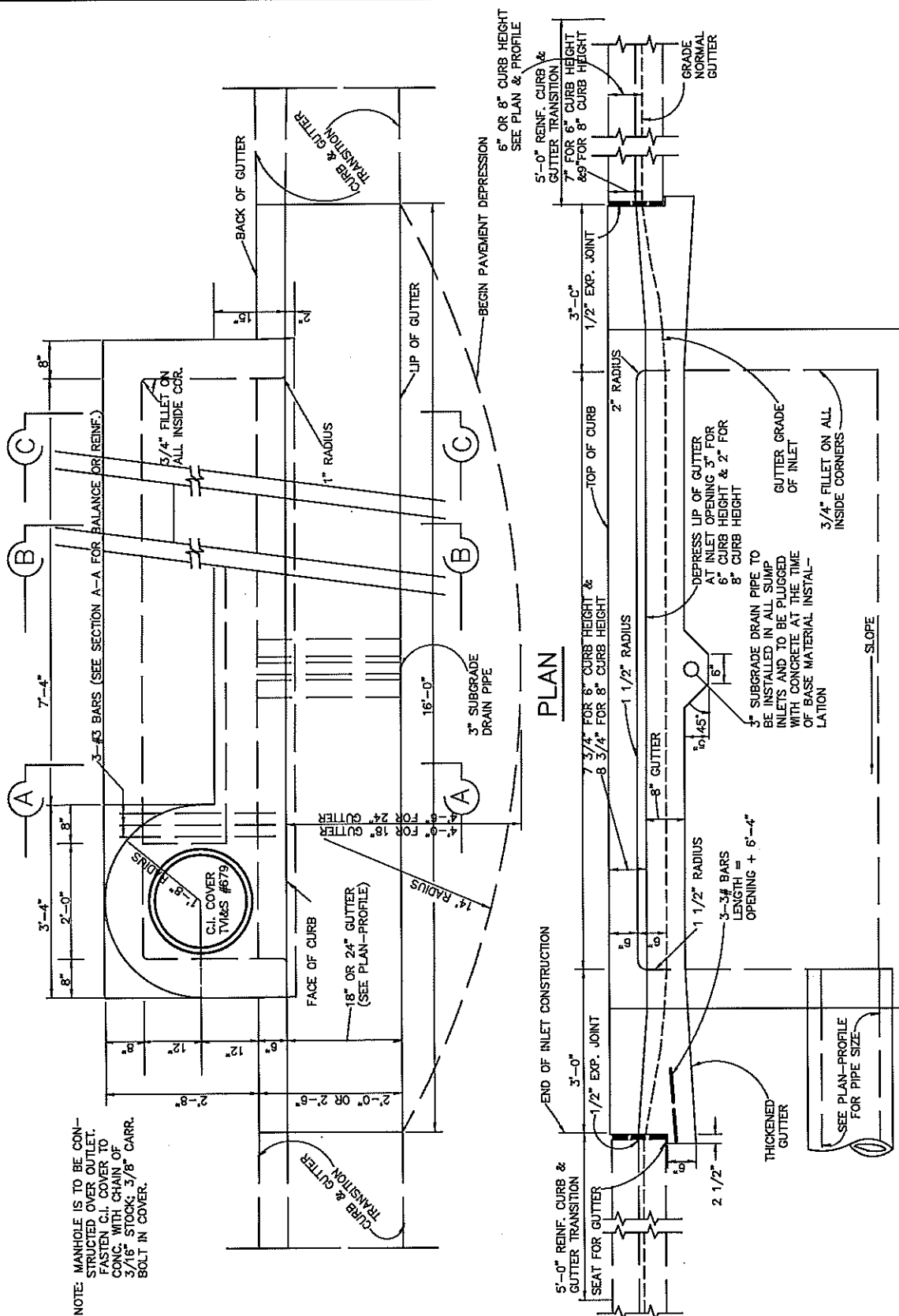
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JULY 2009

CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

RECESSED CURB INLET

STANDARD
UT 302



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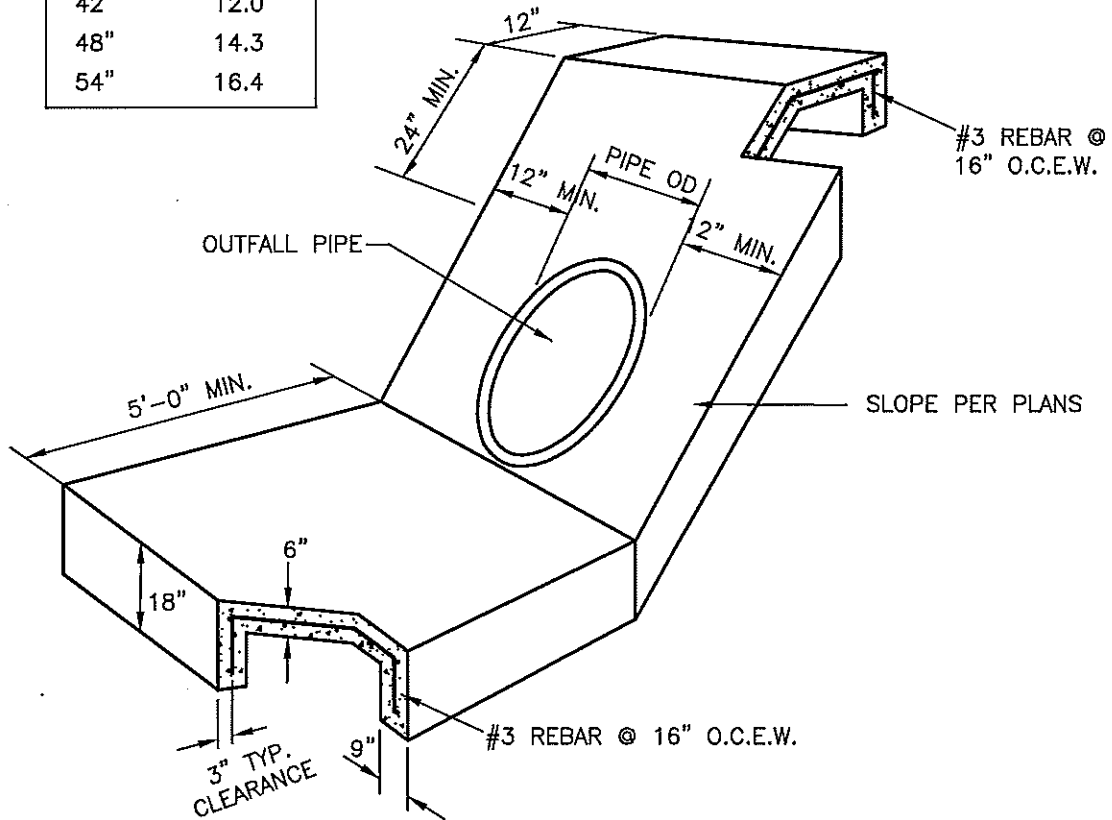
CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

STANDARD 10' CURB
INLET DETAIL

STANDARD

UT 303

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.



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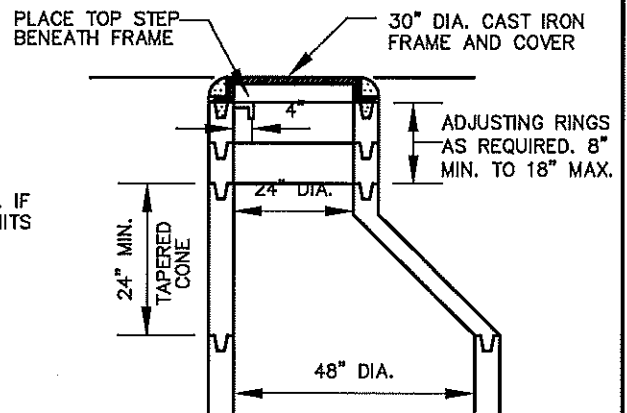
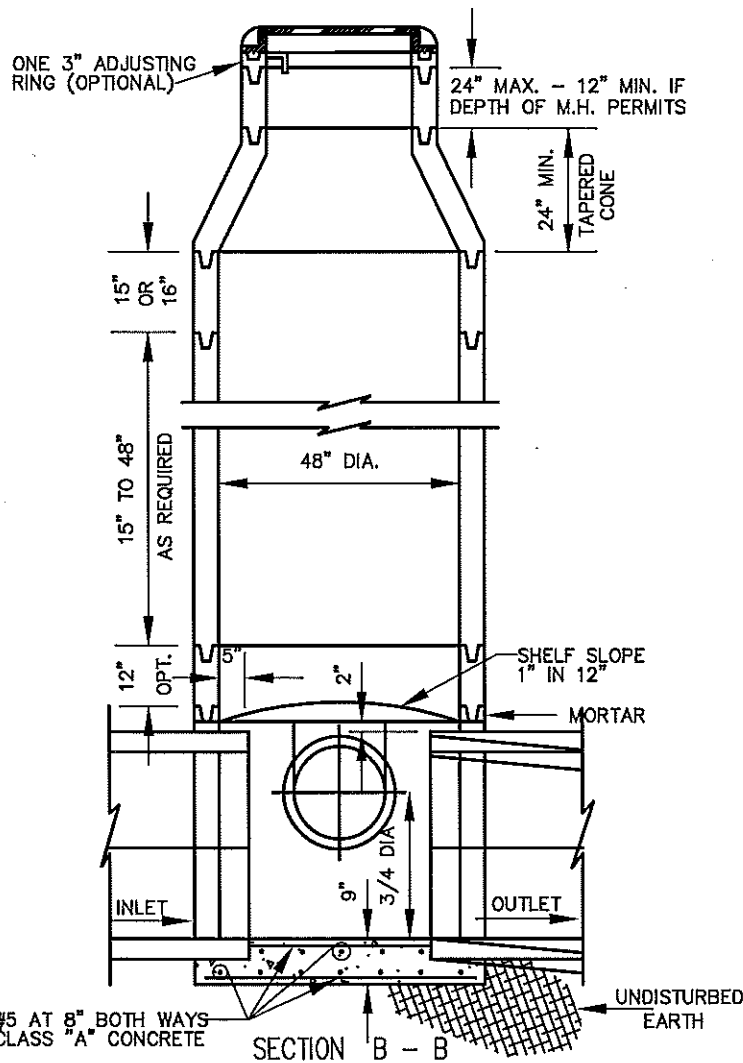
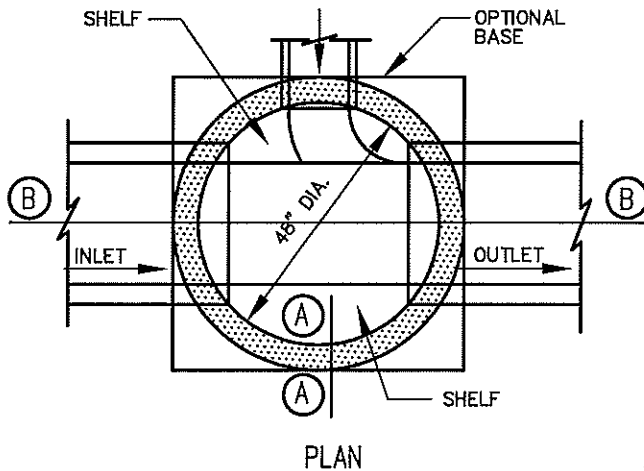
DATE:
JULY 2009

CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

RIP-RAP AT PIPE OUTFALL

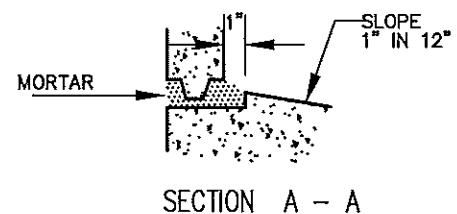
STANDARD

UT 304



ALTERNATE SECTION MAY BE
SUBMITTED FOR APPROVAL

NOTES: USE 24\"/>



APPROVED BY:	DATE:
CS	JULY 2009

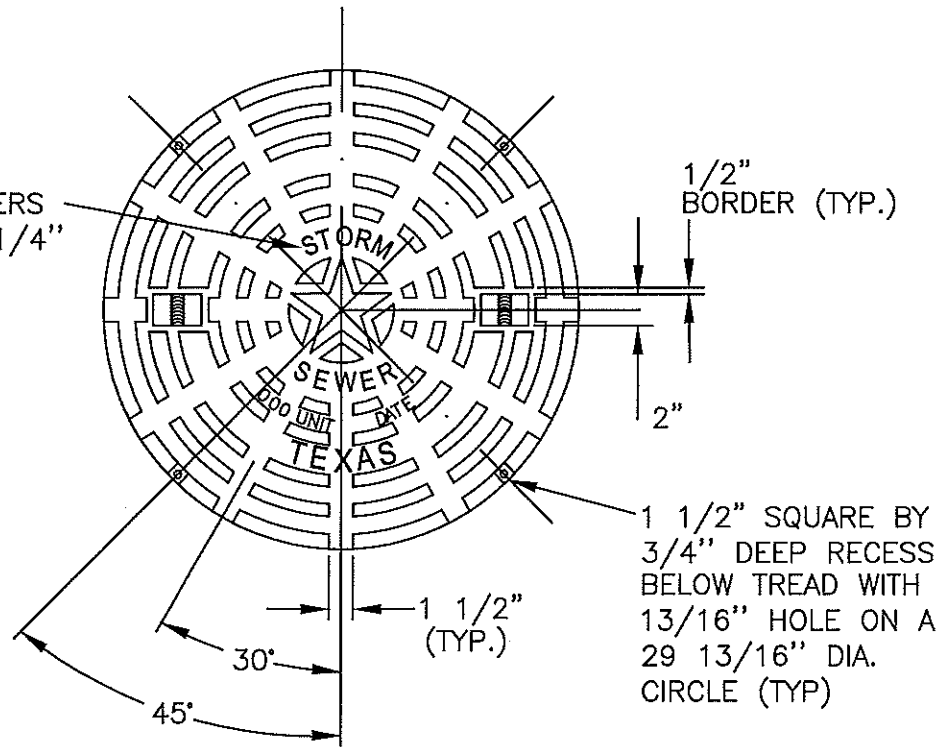
CITY OF TAYLOR
WILLIAMSON COUNTY, TEXAS
STANDARD DETAILS

STORM SEWER MANHOLE - PRECAST

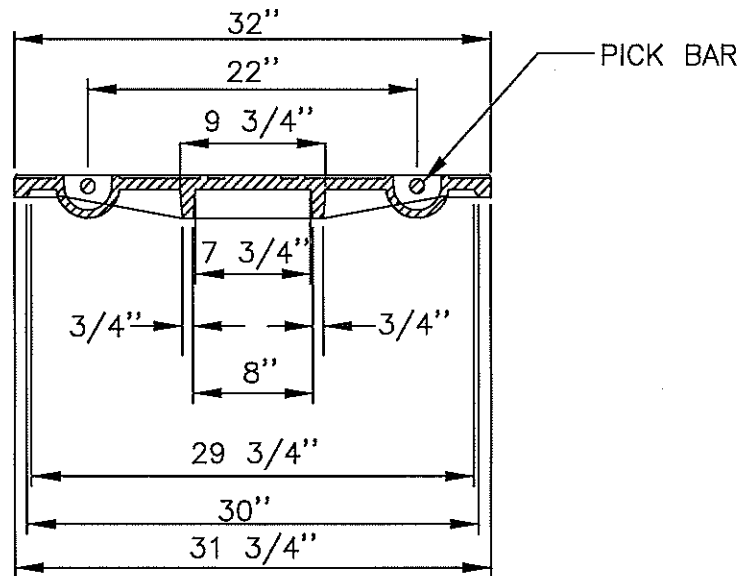
STANDARD

UT 305

1" LETTERS
RAISED 1/4"



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

STANDARD
UT 307

UT 308



***City Council Meeting
April 14, 2011
Agenda Item Transmittal***

Agenda Item #: 3
Agenda Title: Consider approving professional services agreement with Sledge Engineering, LLC to manage airport west wastewater main project.

Council Action to be taken: Approve, deny or request additional information

Initiating Department: Public Works/Utilities

Staff Contact: Danny Thomas, Director of Public Works

1. INTRODUCTION/PURPOSE

At your last meeting, you approved the installation of a wastewater main as a part of the incentive package for Project Charter (Clark Travel). The enclosed contract with Sledge Engineering, LLC provides for the design, bidding and oversight of this project.

2. DESCRIPTION/ JUSTIFICATION

3. FINANCIAL/BUDGET

The engineering fees stipulated in the contract (\$29,200) will be covered within the overall cost of the project (the City's share not exceeding \$100,000). The City's costs for this project will come from surplus Utility CO's.

4. TIMELINE CONSIDERATIONS

Since Clark Travel has acquired the property in question, this project needs to begin design as quickly as possible.

5. RECOMMENDATION

Staff recommends approval of this contract via consent.

6. REFERENCE FILES

3a. [Agreement](#) for Airport West Wastewater Main design

PROFESSIONAL SERVICES AGREEMENT

STATE OF TEXAS

COUNTY OF WILLIAMSON

OWNER/CLIENT: CITY OF TAYLOR, TX
400 Porter Street
Taylor, TX 76574
(512) 352-3633
(512) 352-8485

This AGREEMENT is entered into by the **City of Taylor**, hereinafter called "OWNER" or "CITY" and **Sledge Engineering, LLC.**, hereinafter called "SE". In consideration of the AGREEMENTS herein, the parties agree as follows:

- I. **EMPLOYMENT OF SE:** In accordance with the terms of this AGREEMENT: OWNER agrees to employ SE; SE agrees to perform professional services in connection with the Project; OWNER agrees to pay to SE compensation. The Project is described as follows:

CIP Program Management Services:

A. 2011 Airport West Wastewater Main

- II. **SCOPE OF SERVICES / COMPENSATION:** SE shall render professional services in connection with Project as follows. OWNER agrees to pay SE for all professional services rendered under this AGREEMENT in accordance with the following:

Capital Improvement Project (CIP) Program Management

A. 2011 Airport West Wastewater Main

Design and survey of approximately 2,000 linear feet of 12" wastewater main Airport Property through Clark Travel site.
Construction budget = \$260,000.

1. Project to be added to the **CIP Program Management Project List** and included in reports as existing projects. Typical CIP Program Management tasks will be performed as well.

2. Surveying

- i. 100 foot wide corridor with 100' cross sections
- ii. 1 foot contours
- iii. Utilizing City of Taylor Horizontal and Vertical Control Network and monuments
- iv. Delivered in hard copy and AutoCAD format

3. Engineering Design

- i. Design of approximately 2,000 linear feet of 12" wastewater main
- ii. Plan and profile of all wastewater mains
- iii. Final Opinion of Probable Cost
- iv. All design work to be in compliance with City of Taylor and TCEQ specifications
- v. Prepare contract documents and bid advertisement
- vi. Administer bidding process including questions, Addenda, and bid opening
- vii. Recommend Award of bid to Council
- viii. Administer bidding process through digital plan room

4. Construction Representation

- a. Conduct Pre-construction meeting
- b. Review shop drawings and submittals
- c. Review lab testing on materials
- d. Provide routine observation services and reporting
- e. Conduct periodic construction meetings as-needed with contractor & City
- f. Issue instructions from City to contractor with interpretations and clarifications of plans and specifications
- g. Prepare change orders
- h. Make recommendations as to acceptability of work
- i. Prepare sketches to resolve problems due to field conditions encountered
- j. Review progress payments / make recommendations
- k. Review contractor's Record Drawing information
- l. Make final inspections at completion
- m. Provide follow-up inspections for Maintenance Bonds

SERVICES NOT INCLUDED:

1. Environmental Assessments
2. Water system Modeling
3. Easement document preparation
4. Geotechnical engineering
5. Fees of any kind
6. Floodplain analysis
7. Other services not specifically referenced within this agreement.

LUMP SUM COMPENSATION:

1. Add to the **CIP Program Management Project List**_____included
2. **Surveying** _____**\$8,200**
3. **Engineering Design**_____ **\$16,400**
4. **Construction Representation** services_____ **\$4,600**
- Total All Tasks**_____ **\$29,200**

Progress payments may be requested by SE based on the amount of services completed. Payment for the services of SE shall be due and payable upon receipt.

III. TERMS AND CONDITIONS OF AGREEMENT:

The following Terms and Conditions of Agreement shall govern the relationship between the OWNER and SE.

- A. **INFORMATION FURNISHED BY OWNER:** Owner will assist SE by placing at SE's disposal all available information pertinent to the Project including previous reports and any other data relative to design or construction of the Project. SE shall have no liability for defects or negligence in the Services attributable to SE's reliance upon or use of data, design criteria, drawings, specifications or other information furnished by Owner. SE shall disclose to Owner, prior to use thereof, defects or omissions in the data, design criteria, drawings, specifications or other information furnished by Owner to SE that SE may reasonably discover in its review and inspection thereof.
- B. **OPINION OF PROBABLE COSTS:** SE will furnish an opinion of probable project development cost based on present day cost, but does not guarantee the accuracy of such estimates. Opinions of probable cost, financial evaluations, feasibility studies, economic analyses of alternate solutions and utilitarian considerations of operations and maintenance costs prepared by SE hereunder will be made on the basis of SE's experience and qualifications and represent SE's judgment as an experienced and qualified professional. It is recognized, however, that SE does not have control over the cost of labor, material, equipment, or services furnished by others or over market conditions or contractors' methods of determining their prices.
- C. **CONSTRUCTION REPRESENTATION:** If required by the AGREEMENT, SE will furnish Construction Representation according to the defined scope for these services. SE will observe the progress and the quality of work to determine in general if the work is proceeding in accordance with the Contract Documents. In performing these services, SE will endeavor to protect Owner against defects and deficiencies in the work of Contractors; SE will report any observed deficiencies to Owner; however, it is understood that SE does not guarantee the Contractor's performance, nor is SE responsible for the supervision of the Contractor's operation and employees. SE shall not be responsible for the means, methods, techniques, sequences, or procedures of construction selected by the Contractor, or the safety precautions and programs incident to the work of the Contractor. SE shall not be responsible for the acts or omissions of any person (except their own employees or agents) at the Project site or otherwise performing any of the work of the Project.
- D. **MEDIATION:** Prior to arbitration or litigation, the parties shall endeavor to settle disputes by mediation unless the parties mutually agree otherwise. Demand for mediation shall be filed in writing with the other party to this Agreement. A demand for mediation shall be made within a reasonable time after the claim, dispute, or other matter in question has arisen. In no event shall the demand for mediation be made after the date when institution of legal or equitable proceedings based on such claim, dispute, or other matter in question would be barred by the applicable statute of limitations.
- E. **TERMINATION:** This Agreement may be terminated with or without cause by either party upon

seven days prior written notice to the non-terminating party. If this agreement is terminated during the course of performance of the work, SE shall be paid the reasonable value of the services performed during the period prior to the effective dates of termination of the agreement. If, prior to termination of this agreement, any work designed or specified by SE during any phase of the work is suspended in whole or in part for more than three months or abandoned after written notice from the Owner, SE shall be paid for such services performed to receipt of such notice.

Nothing under this AGREEMENT shall be construed to give any rights or benefits in this AGREEMENT to anyone other than OWNER and SE, and all duties and responsibilities undertaken pursuant to this AGREEMENT will be for the sole and exclusive benefit of OWNER and SE and not for the benefit of any other party.

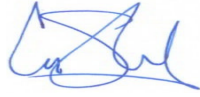
This AGREEMENT constitutes the entire AGREEMENT between OWNER and SE and supersedes all prior written or oral understandings.

This contract is executed in two counterparts. IN TESTIMONY HEREOF, they have executed this AGREEMENT:

CITY OF TAYLOR (OWNER)

SLEDGE ENGINEERING, LLC (SE)

By: _____

By:  _____

Printed Name: _____

Printed Name: Casey B. Sledge

Title: _____

Title: President

Date: _____

Date: 3/17/11



City Council Meeting April 14, 2011 Agenda Item Transmittal

Agenda Item #: 4
Agenda Title: Proclamation: National Telecommunicators Week,
April 10-16, 2011.
Council Action to be taken: Presentation of certificate by Mayor Pro Tem
Initiating Department: Police Department
Staff Contact: Dan Ramsey, Assistant Chief of Police

1. INTRODUCTION/PURPOSE

Assistant Chief Dan Ramsey, Taylor Police Department, submits this request to recognize April 10-April 16, 2011 as National Telecommunicator Week.

2. DESCRIPTION/ JUSTIFICATION

In 1991, the United States Congress designated the second full week of April as National Public Safety Telecommunications Week. This week is designed to recognize and honor the nation's "first" first responders—public safety telecommunicators or dispatchers—for their contributions to the safety and security of residents in the United States.

3. FINANCIAL/BUDGET

4. TIMELINE CONSIDERATIONS

5. RECOMMENDATION

6. REFERENCE FILES

4a. [Proclamation](#)

Proclamation

WHEREAS, the 9-1-1 telecommunicators are the critical link between people calling for help in an emergency situation and the emergency response agencies who arrive on the scene; and

WHEREAS, the safety of our law enforcement officers, firefighters, and Emergency Medical Technicians is dependent upon the quality and accuracy of information obtained from citizens who telephone the Communications Centers; and

WHEREAS, the City of Taylor recognizes the professional and unending services of the Public Safety Dispatchers who answer 9-1-1 calls on a daily basis; and,

WHEREAS, communications operators dispatchers exhibit compassion, understanding, and professionalism during the performance of their jobs every day; now, therefore, be it

Now, therefore, the City Council does hereby proclaim this 14th day of April 2011, the week of April 10 through April 16, 2011, as

National Telecommunicator Week

John McDonald, Mayor Pro Tem



***City Council Meeting
April 14, 2011
Agenda Item Transmittal***

Agenda Item #: 5
Agenda Title: Proclamation of April as Fair Housing Month
Council Action to be taken: Mayor Pro Tem will present Proclamation
Initiating Department: City Administration
Staff Contact: Susan Brock, City Clerk

1. INTRODUCTION/PURPOSE

To proclaim April, 2011 as Fair Housing Month to assist in meeting the publication requirements for federal grant funded programs for low income housing.

2. DESCRIPTION/ JUSTIFICATION

The Fair Housing Act was included in Title VIII of the Civil Rights Act and signed in April of 1968 to ensure all Americans have equal access to housing. Each year the City uses this proclamation to help meet requirements set out by the federal government for those entities who receive funding for low income housing programs.

3. FINANCIAL/BUDGET

4. TIMELINE CONSIDERATIONS

5. RECOMMENDATION

6. REFERENCE FILES

5a. [Proclamation](#)

Proclamation

WHEREAS, Title VIII of the Civil Rights Act of 1968, as amended, prohibits discrimination in housing and declares it a national policy to provide, within constitutional limits, for fair housing in the United States; and

WHEREAS, the principle of Fair Housing is not only national law and national policy, but a fundamental human concept and entitlement for all Americans; and

WHEREAS, the anniversary of this National Fair Housing Law, during the month of April, provides an opportunity for all Americans to recognize that complete success in the goal of equal housing opportunity can only be accomplished with the help and cooperation of all Americans.

NOW, THEREFORE, the City Council does hereby proclaim April as Fair Housing Month in the City of Taylor and urges all citizens of Taylor to become aware of and support the Fair Housing law.

PROCLAIMED this the 14th day of April, 2011.

John McDonald, Mayor Pro Tem



***City Council Meeting
April 14, 2011
Agenda Item Transmittal***

Agenda Item #: 6
Agenda Title: Proclamation: Relay for Life, April 15-16, 2011
Council Action to be taken: Presentation of certificate by Mayor Pro Tem
Initiating Department: City Administration
Staff Contact: Susan Brock, City Clerk

1. INTRODUCTION/PURPOSE

The City of Taylor and staff participate in the Relay for Life Event each year. The City's Team Captain will be accepting the certificate.

2. DESCRIPTION/ JUSTIFICATION

Relay for Life is an overnight team event that increases awareness of cancer in the community and raises much needed funds to fight the disease. The money raised supports life saving research, education, advocacy and patient services available in the community.

3. FINANCIAL/BUDGET

4. TIMELINE CONSIDERATIONS

The Relay for Life event is Friday April 15-Saturday April 16, 2011.

5. RECOMMENDATION

6. REFERENCE FILES

6a. [Proclamation](#)

Proclamation

WHEREAS, the Taylor Unit of the American Cancer Society and its Relay for Life Committee are proud to present the Twelfth Annual "Relay for Life" designed not only to raise money and awareness, but to remember lost struggles and celebrate with those who are winning the battle against cancer; and

WHEREAS, the Relay to be held April 15-16, 2011 at Taylor Memorial Field is an overnight cancer survivor's celebration, in which the opening lap of the event will feature cancer survivors; and

WHEREAS, the Relay Teams who have worked hard to raise funds for the fight against cancer will be represented on the track at all times during the event; and

WHEREAS, the American Cancer Society continues to search for a cure and has taken on the task of educating our community and all Americans of the risks of cancer.

NOW, THEREFORE, on this 14th day of April, 2011 as Mayor Pro Tem of the City of Taylor I do hereby proclaim April 15-16, 2011 as the Taylor

Relay for Life

John McDonald, Mayor Pro Tem



***City Council Meeting
April 14, 2011
Agenda Item Transmittal***

Agenda Item #: 7

Agenda Title: Consider awarding a bid for the construction of the Bull Branch North Sanitary Sewer Line.

Council Action to be taken: Approve, deny or table

Initiating Department(s): City Manager/Public Works – Engineering/Community Development

Staff Contact: Bob van Til, Director of Community Development

1. INTRODUCTION/PURPOSE

The purpose of this item is to consider awarding a bid to the successful contractor for the construction of the Bull Branch North Sanitary Sewer Line.

This project in part will assist the First Assembly of God to build on their property. The City will also be able provide sanitary sewer service to a significant portion of the City along Carlos G. Parker.

Since the First Assembly of God will benefit from the line, the City and the Church entered into a Developer's or Cost Sharing Agreement, whereby the Church would participate in the payment of the line. The Council approved the Developer's Agreement with First Assembly of God on January 13, 2011. The City agreed to bid and build the line. The Church previously designed the line. An adjacent property owner to the west agreed to dedicate an easement for the project also.

The Church agreed to pay \$25,000 toward the cost of the project, which in essence was the cost of a On Site Sewer Facility had they built that on their site to serve the Church.

2. DESCRIPTION/ JUSTIFICATION

On April 6, 2011 the City opened bids for this project. Seven companies submitted sealed bids. The price of the project ranged from \$158,600 down to \$90,190. The original budget was for \$146,000.

Additional background information - The First Assembly of God Church in Taylor owns an 8.35 acre tract of land on Carlos G. Parker Boulevard located west of North Drive. For

a number of years they have been planning to build a new facility at this location. One of the major obstacles to building here is the requirement for wastewater facilities.

The sanitary sewer line will not only serve the Church but also the surrounding drainage basin. This will provide facilities to property west and east of the church. This investment will facilitate private development along the Boulevard, which in turn will benefit the City with additional property being serviced and future ad valorem and sales taxes.

The project is cost effective for the City but is cost-prohibitive for the Church. In sharing the cost with the Church, the Church will be able to move forward with their project and the City will be able to promote development in this area.

The Church bore the cost to prepare the plans for the off-site and on-site facilities at an estimated cost of \$5,000. The plans were approved by the City and ready to bid.

The sanitary sewer line will connect to the sanitary sewer line that Mr. Saya built south of Carlos G. Parker Boulevard. It will extend across the Boulevard along the creek and to the east of the Church's property. There will be a 15-inch line under and across the Boulevard and a 12-inch line going east across the Church's property. The line will be entirely in easements as opposed to being in the state right-of-way.

3. FINANCIAL/BUDGET

The estimated projected cost for entire project is \$146,000. The source of the funding come from savings in the bond funds used to install the high pressure plane system.

4. TIMELINE CONSIDERATIONS

5. RECOMMENDATION

Staff recommends that the Council award the bid to Forsythe Brothers Infrastructure from Manor, Texas in the amount of \$98,147. The low bidder in this case was Austin Engineers, however their information was incomplete.

6. REFERENCE FILES

7a [Aerial exhibit](#) of the project

7b Bid tabulation

First Assembly of God Church
Wastewater Improvements
10/18/10

sledge
ENGINEERING LLC



481 TUCEK ROAD TAYLOR, TX 76574
PH 512.365.1888
FAX 512.365.1962
www.sledge.biz



Jim Dunaway - City Manager
City of Taylor
400 Porter St
Taylor, TX 76574

**RE: City of Taylor – 2011 North Bull Branch Wastewater Main
Proposal Review and Award Recommendation**

Dear Mr. Dunaway:

Competitive Sealed Proposals for the above referenced project were received at 2:00 p.m. on April 6, 2011 at the Taylor City Hall. Sledge Engineering, LLC has reviewed the proposals and prepared a Scoring Matrix and Proposal Price Tabulation indicating the results of the bid. The Tabulation is enclosed for the City's review.

Seven (7) proposals were received. All submitted the required 5% bid bond or certified check; there were no addenda issued for the project. There were only minor irregularities (math error) in the price proposals and no proposer was disqualified.

The pricing submitted was consistent and reasonable for the scope of work involved with the project. The competitive proposals assure the City of Taylor that a fair and reasonable price for the scope of work was realized in the bid process.

The highest scoring proposal was submitted by Forsythe Brothers Infrastructure of Manor, TX. The references checked for Forsythe provided no negative comments as to their quality of work or their fairness in negotiating change orders. They are ready to move forward and successfully complete this project in accordance with Plans and Specifications if awarded the project.

It is respectfully recommended that the City of Taylor award the construction contract to Forsythe Brothers Infrastructure of Manor, Texas for the Total Amount of \$98,147.50.

481 TUCEK ROAD TAYLOR, TX 76574
PH 512.365.1888
FAX 512.365.1962
www.sledge.biz



Once the City awards this contract, our office will issue a Notice of Award and prepare Contract Documents for execution by the Contractor and the City of Taylor. If you have any questions about the Tabulation or this Award Letter, please contact me at (512) 484-2932.

Sincerely,
SLEDGE ENGINEERING, LLC

A handwritten signature in blue ink, appearing to read "Casey B. Sledge", is written over a horizontal line.

Casey B. Sledge, P.E., AICP, CFM
President

2011 North Bull Branch Wastewater



SELECTION CRITERIA SCORING SHEET

SCORER = CASEY SLEDGE, P.E.

#	CRITERIA	Forsythe Brothers	Santa Clara Construction	Austin Engineering	JKB Construction	McLean Construction	Whitney Underground	Patin Construction
1	Background, Experience, Qualifications, Safety (30 points)	29	29	0	20	0	0	0
2	Proposed Plan, Schedule, Quality Control Program (30 points)	29	29	0	0	0	0	0
3	Price (40 points)	31.2	0.0	40	0.0	17.2	8.2	0.0
TOTAL (100 points max)		89	58	40	20	17	8	0

PRICE	\$ 98,148	\$ 158,660	\$ 90,190	\$ 133,104	\$ 110,725	\$ 118,865	\$ 143,230
% higher than lowest proposal price	8.82%	75.92%	n/a	47.58%	22.77%	31.79%	58.81%

2011 North Bull Branch Wastewater

4/11/2011 BID TABULATION



Item No.	No. of Units	Unit	Description of Item	Sledge Eng Estimate		Forsythe Brothers		Santa Clara Construction		JKB Construction		Austin Engineering	
				Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
1	1	LS	Preparing Right-of-way, Mobilization	\$ 6,000	\$ 6,000	\$ 1,000.00	\$ 1,000	\$ 11,600.00	\$ 11,600	\$ 14,850.00	\$ 14,850	\$ 4,500.00	\$ 4,500
2	1	LS	Barricades, Signs, and Traffic Handling	\$ 4,000	\$ 4,000	\$ 2,000.00	\$ 2,000	\$ 3,500.00	\$ 3,500	\$ 3,000.00	\$ 3,000	\$ 4,000.00	\$ 4,000
3	700	LF	Silt Fence	\$ 3	\$ 1,750	\$ 1.50	\$ 1,050	\$ 2.00	\$ 1,400	\$ 1.80	\$ 1,260	\$ 2.00	\$ 1,400
4	70	LF	Rock Berm	\$ 80	\$ 5,600	\$ 10.00	\$ 700	\$ 20.00	\$ 1,400	\$ 18.00	\$ 1,260	\$ 20.00	\$ 1,400
5	140	SY	Stabilized Construction Entrance	\$ 20	\$ 2,800	\$ 10.00	\$ 1,400	\$ 22.00	\$ 3,080	\$ 6.35	\$ 889	\$ 14.00	\$ 1,960
6	1	LS	Fine Grading and Seeding	\$ 6,000	\$ 6,000	\$ 2,000.00	\$ 2,000	\$ 1,500.00	\$ 1,500	\$ 3,500.00	\$ 3,500	\$ 1,800.00	\$ 1,800
7	450	LF	15" SDR26 PVC Wastewater line	\$ 65	\$ 29,250	\$ 48.00	\$ 21,600	\$ 86.00	\$ 38,700	\$ 55.10	\$ 24,795	\$ 35.00	\$ 15,750
8	550	LF	12" SDR26 PVC Wastewater line	\$ 55	\$ 30,250	\$ 40.00	\$ 22,000	\$ 78.00	\$ 42,900	\$ 46.00	\$ 25,300	\$ 27.00	\$ 14,850
9	80	LF	24" Steel Casing	\$ 350	\$ 28,000	\$ 250.00	\$ 20,000	\$ 300.00	\$ 24,000	\$ 370.00	\$ 29,600	\$ 265.00	\$ 21,200
10	4	EA	6" Wastewater Service	\$ 700	\$ 2,800	\$ 600.00	\$ 2,400	\$ 1,200.00	\$ 4,800	\$ 800.00	\$ 3,200	\$ 600.00	\$ 2,400
11	3	EA	4' Diameter Concrete Manhole	\$ 5,000	\$ 15,000	\$ 4,000.00	\$ 12,000	\$ 4,500.00	\$ 13,500	\$ 3,630.00	\$ 10,890	\$ 2,600.00	\$ 7,800
12	1	EA	Connect to Existing Manhole	\$ 4,000	\$ 4,000	\$ 1,000.00	\$ 1,000	\$ 1,000.00	\$ 1,000	\$ 2,100.00	\$ 2,100	\$ 1,500.00	\$ 1,500
13	1	EA	4" Cleanout on main	\$ 800	\$ 800	\$ 300.00	\$ 300	\$ 350.00	\$ 350	\$ 600.00	\$ 600	\$ 700.00	\$ 700
14	930	LF	Trench Safety Protection	\$ 3	\$ 2,325	\$ 0.75	\$ 698	\$ 1.00	\$ 930	\$ 2.00	\$ 1,860	\$ 1.00	\$ 930
15	1	LS	Owner Allowance	\$ 10,000	\$ 10,000	\$ 10,000.00	\$ 10,000	\$ 10,000.00	\$ 10,000	\$ 10,000.00	\$ 10,000	\$ 10,000.00	\$ 10,000
SUBTOTAL:				\$	148,575	\$	98,147.50	\$	158,660	\$	133,104	\$	90,190
								61.65%		35.62%		-8.11%	

2011 North Bull Branch Wastewater

4/11/2011

BID TABULATION



Item No.	No. of Units	Unit	Description of Item	Whitney Underground		Patin Construction		McLean Construction	
				Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
1	1	LS	Preparing Right-of-way, Mobilization	\$ 5,925.00	\$ 5,925	\$ 10,000.00	\$ 10,000	\$ 8,284.00	\$ 8,284
2	1	LS	Barricades, Signs, and Traffic Handling	\$ 2,200.00	\$ 2,200	\$ 1,800.00	\$ 1,800	\$ 2,313.00	\$ 2,313
3	700	LF	Silt Fence	\$ 2.00	\$ 1,400	\$ 2.50	\$ 1,750	\$ 1.90	\$ 1,330
4	70	LF	Rock Berm	\$ 8.00	\$ 560	\$ 30.00	\$ 2,100	\$ 22.00	\$ 1,540
5	140	SY	Stabilized Construction Entrance	\$ 20.00	\$ 2,800	\$ 5.00	\$ 700	\$ 9.00	\$ 1,260
6	1	LS	Fine Grading and Seeding	\$ 1,000.00	\$ 1,000	\$ 2,500.00	\$ 2,500	\$ 2,415.00	\$ 2,415
7	450	LF	15" SDR26 PVC Wastewater line	\$ 40.00	\$ 18,000	\$ 90.00	\$ 40,500	\$ 40.70	\$ 18,315
8	550	LF	12" SDR26 PVC Wastewater line	\$ 33.00	\$ 18,150	\$ 73.00	\$ 40,150	\$ 32.40	\$ 17,820
9	80	LF	24" Steel Casing	\$ 365.00	\$ 29,200	\$ 250.00	\$ 20,000	\$ 333.00	\$ 26,640
10	4	EA	6" Wastewater Service	\$ 2,500.00	\$ 10,000	\$ 1,250.00	\$ 5,000	\$ 1,069.00	\$ 4,276
11	3	EA	4' Diameter Concrete Manhole	\$ 5,400.00	\$ 16,200	\$ 1,500.00	\$ 4,500	\$ 3,551.00	\$ 10,653
12	1	EA	Connect to Existing Manhole	\$ 2,000.00	\$ 2,000	\$ 2,500.00	\$ 2,500	\$ 1,366.00	\$ 1,366
13	1	EA	4" Cleanout on main	\$ 500.00	\$ 500	\$ 800.00	\$ 800	\$ 886.00	\$ 886
14	930	LF	Trench Safety Protection	\$ 1.00	\$ 930	\$ 1.00	\$ 930	\$ 3.90	\$ 3,627
15	1	LS	Owner Allowance	\$ 10,000.00	\$ 10,000	\$ 10,000.00	\$ 10,000	\$ 10,000.00	\$ 10,000
SUBTOTAL:				\$	118,865	\$	143,230	\$	110,725
				21.11%		45.93%		12.81%	



City Council Meeting April 14, 2011 Agenda Item Transmittal

Agenda Item #: 8
Agenda Title: Consider appointment of the Associate Judge of the Municipal Court of Record.

Council Action to be taken: Approve appointment

Initiating Department: City Administration

Staff Contact: Jim D. Dunaway, City Manager

1. INTRODUCTION/PURPOSE

We have officially made the switch of our Municipal Court to a Municipal Court of Record and the Associate Judge must be an attorney, as is required of our Presiding Judge.

2. DESCRIPTION/ JUSTIFICATION

In the past, we have used Mr. David Darnell in the absence of Judge Pick and would like your consideration in appointing Mr. Darnell as the Associate Judge to serve in Judge Pick's absence. Mr. Darnell meets all of the requirements to serve as a Municipal Judge.

3. FINANCIAL/BUDGET

Previously we paid Mr. Darnell \$100.00 per appearance (regardless of time per appearance) for his services; we ask that his pay be set at \$150.00 appearance for the term of this appointment.

4. TIMELINE CONSIDERATIONS

Judge Pick is scheduled to attend mandatory training shortly and Staff would like to have an attorney judge lined up to perform in Judge Pick's absence as soon as possible.

5. RECOMMENDATION

Staff recommends appointment of Mr. David Darnell as Associate Judge of the Municipal Court of Record for a two year period to begin immediately upon appointment.

6. REFERENCE FILES

None

City Council Meeting
April 14, 2011
Agenda Item Transmittal

Agenda Item #: 9

Agenda Title: Consider Resolution 2011-12 creating an Assistant Fire Chief/Fire Marshal position.

Council Action to be taken: Approve or Deny Approval of Resolution

Initiating Department: Fire Administration

Staff Contact: Pat Ekiss, Fire Chief

1. INTRODUCTION/PURPOSE

Texas Local Government Code Chapter 143 (civil service, in 0.14) authorizes the Fire Chief (with governmental body approval by ordinance or resolution) to appoint individuals to the position immediately below department head.

2. DESCRIPTION/ JUSTIFICATION

Having evaluated the operation and staff of the Fire Department for 10 months, I have a strong confidence in the department's staff, especially our line-level personnel performing fire department functions on a daily basis.

However, for several reasons, there exists a need to reorganize our staffing structure within the department. A memo describing the need, funding plan and final result is attached to assist with your review. This request is identical in form to that which was recently approved for the Police Department. Approval of this position would provide for continued oversight of the duties of the Fire Marshal which is the primary objective of this proposal. However, it would also provide additional departmental oversight in the Chief's absence as well as allowing the Fire Chief to devote his full attention to the administrative matters of the organization.

Ideally, the best way to streamline operations, enhance accountability and strengthen the office of the Fire Marshal would be for me to appoint an Assistant Fire Chief pursuant to Local Government Code 143.014.

3. FINANCIAL/BUDGET

As described in the attached memo, there is actually a savings recognized by postponing filling the two Firefighter positions that are currently vacant and re-appropriating the funding for those positions to fund the new Assistant Chief position. Savings have already been realized from the vacant positions for this fiscal year. This will remain to be the case after the

promotion is made and a competitive salary applied to the position. Anticipated savings for future budget years would be roughly that of one and one half firefighter's base salary.

4. TIMELINE CONSIDERATIONS

Promotion would be made within 90 days of approval per Civil Service guidelines.

5. RECOMMENDATION

Staff recommends approval of Resolution 2011-12.

6. REFERENCE FILES

- 9a. [Resolution 2011-12](#)
- 9b. [Memo](#) from Pat Ekiss to Jim Dunaway and Jeff Straub
- 9c. [Organizational Flow Charts](#)

RESOLUTION 2011-12

A RESOLUTION TO CREATE THE POSITION OF “ASSISTANT FIRE CHIEF/FIRE MARSHAL” WITHIN THE CITY OF TAYLOR FIRE DEPARTMENT AND PROVIDING AN EFFECTIVE DATE FOR THIS RESOLUTION.

WHEREAS, the City of Taylor has adopted Chapter 143 of the Texas Local Government Code for its fire department;

WHEREAS, there is a need for the fire chief to be able to select and appoint an individual to assist in administration of the fire department;

WHEREAS, § 143.014 (b) of the Texas Local Government Code states that the governing body of a municipality may by ordinance or resolution authorize the head of a fire or police department in the municipality in which at least four classifications exist below the classification of department head may appoint each person occupying an authorized position in the classification immediately below that of department head;

WHEREAS, the Taylor Fire Department’s rank structure has at least four classifications that exist below the classification of department head;

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

SECTION 1.

That the matters and facts set forth in the preamble are hereby found to be true and are incorporated by reference into this Resolution.

SECTION 2.

The position of assistant fire chief/fire marshal is hereby approved and created within the Taylor Fire Department. This position shall be an authorized position in the classification immediately below that of the fire chief. The fire chief shall appoint the assistant fire chief/fire marshal in accordance with the requirements and qualification as set forth in the Texas Local Government Code 143.014 (d). An individual appointed to the position of assistant fire chief/fire marshal serves at the pleasure of the fire chief and may be removed according the procedures set forth in Texas Local Government Code 143.014 and as otherwise provided by Chapter 143 of the Texas Local Government Code.

SECTION 3.

The effective date of this resolution is April 14, 2011.

PASSED, APPROVED, and ADOPTED on the _____ day of _____ 2011.

APPROVED

John McDonald, Mayor Pro Tem

ATTEST

Susan Brock, City Clerk

MEMO

City of Taylor Fire Department, Administration

DATE: March 22, 2011

TO: Jim Dunaway, City Manager
Jeff Straub, Assistant City Manager

FROM: Pat Ekiss, Fire Chief

RE: Reorganization Request

After several months' review, it is clear there exists a need within our Department to reorganize our staff. I believe that the proposed changes will increase productivity, allow for defined roles and functions of each division within our organization, and provide a working chain of command and span of control that meet current standards of the fire service.

The duties of the Fire Chief include functions normally performed by a Fire Marshal. Such duties include, but are not limited to, attending Development Review Committee meetings and reviewing any and all construction plans requiring a permit. This would include construction, sprinkler and detection plans for new and remodel projects. During construction, ongoing inspections are made at certain benchmarks and a final inspection is made upon completion of the project. Additional duties include inspection and approval of all occupancies requiring a certificate of occupancy and an occupancy load calculation. This consumes a great deal of time and is easily a full-time job in itself. As we continue to grow and attract development, the Fire Marshal will play an extremely important role in ensuring compliance to codes and ordinances as well as the safety and wellbeing of our citizens and business owners. I also firmly believe a timely review and response guarantees customer satisfaction as we begin to develop positive working relationships with developers.

Currently time is not adequately afforded to the oversight of our Fire Prevention program. This is one of our most critical areas and its importance should not be overlooked. The program includes fire safety presentations to our youth through cooperation with area schools as well as home fire safety programs for our senior citizens. It also includes pre-fire planning and risk assessment functions. This is an area that was quickly recognized as deficient in our recent preparations for an Insurance Services Office review. Furthermore, our current organization structure does not provide a back-up to the Fire Chief – meaning, when the Fire Chief is out of town or unavailable, there is no one individual who is able to step into that role

without sacrificing another. There is no real provision for the development of a plan for succession, nor is there assistance available for daily suppression level operations. Because of this there is no opportunity to grow and develop a second-in-command for the top leadership position. I committed to our department that I would do everything within my power to assure that the next Fire Chief would “come from within.” I cannot do that by seeing an individual every third day. We need to begin strategic planning for future growth, get a firm handle on daily operations, and continually evaluate the service provided to our citizens. Simply put, to effectively do this I need a “right hand man.”

I have included an organization flow chart that depicts our current structuring as well as one that describes the proposed reorganization. So what is the process? How do we fund the changes and what is the final cost or savings, if any?

- Due to recent resignations there are currently two vacant positions: one Firefighter and one Driver/Engineer. A promotional exam will be given in April and if successful, the Firefighter with the highest passing score will promote into the vacant Driver’s position. This will leave two vacant Firefighter positions.
- Request that Council and the Civil Service Commission approve the creation of the position of Assistant Chief/Fire Marshal. *Note: We are NOT proposing an increase in staffing at this time. We ARE requesting a re-classification. The approved staffing levels for the department will remain 25 suppression and one administrative but we will fund only 23 suppression positions.*
- Forego hiring the two Firefighters at this time and re-appropriate the funding for those positions to fund the new Assistant Chief position. *Note: There would be a monetary savings here, roughly that of one and one half firefighters base salary annually. A portion of these savings should be utilized within the Fire Department if possible.*
- Eliminate the position of Shift Commander. This position has never been clearly defined and is therefore not reaping the benefits for the organization that were originally intended. I am also concerned that we might be challenged as to whether or not the position is even possible in Civil Service organizations by its current design and structure.
- Chapter 143 of the Local Government Code allows the Department Head to name a second-in-command. Eligible candidates must meet certain criteria to be eligible and serve at the pleasure of the Department Head. Acceptance of the position does not cause the employee to lose Civil Service protection or benefits. Eligible persons within our department include any and all individuals currently holding the rank of Driver/Engineer through that of Lieutenant (11 personnel total).
- This would be a selective process based on the best and most competent individual for the job *and* the future direction of our department.

Assignment pay is also given to individuals who perform specialized duties within or for the department. These positions include Fire Investigator, Training Officer and Medical Officer. No change is proposed at this time to these positions. However, it is my intent in the very near future to move toward elimination of assignment pay for these duties. Many if not all of these classifications will be absorbed within Administration. The Company Officer has been and will continue to be held accountable for daily and monthly shift training. Monies saved when this change takes effect will be utilized for special training programs that pertain to specific hazards within our profession and professional development programs. I have already delivered three such classes and will continue to be involved with educating our members. Relevant, quality training is and will remain a priority and major component in our department.

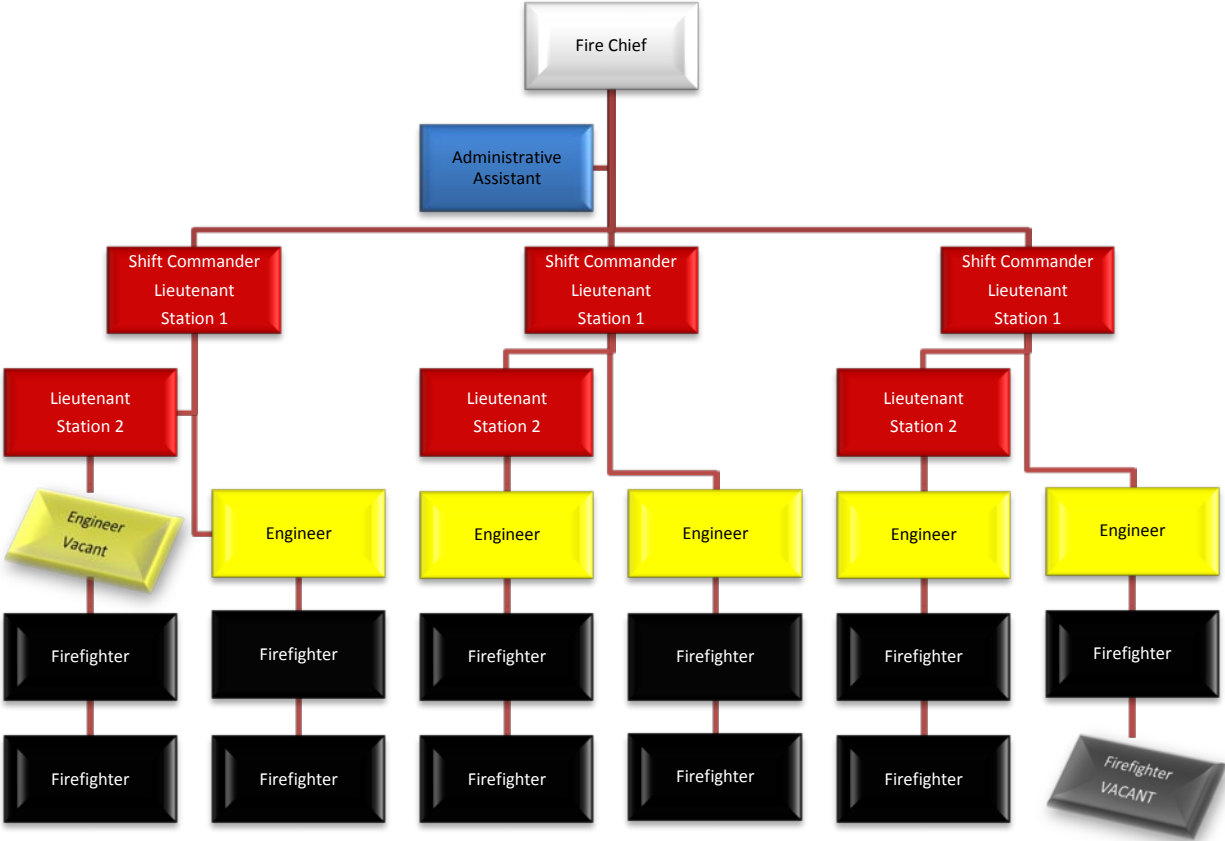
Once complete, the number of members assigned to each shift will be seven. This is a reduction from the current eight. However, the department currently allows up to two members off at a time for vacation or holiday. Therefore, the minimum daily staffing is six. I propose reducing the number of members allowed off at a time to one, therefore *NOT* reducing minimum staffing. The addition of the Assistant Chief position actually has the potential to increase the number of personnel on the fire ground by one. Currently our minimum staffing is six members who are available to respond to emergencies with one Chief Officer. The addition of the Assistant Chief would provide an additional Fire Commander many days and assure a minimum of one Chief Officer on every working incident, something that is not guaranteed with the current configuration.

The reorganization proposed can be accomplished with existing personnel at no additional cost to the city. In fact, a savings is recognized by doing so. I respectfully request your approval of this proposal and remain available to address any concerns.

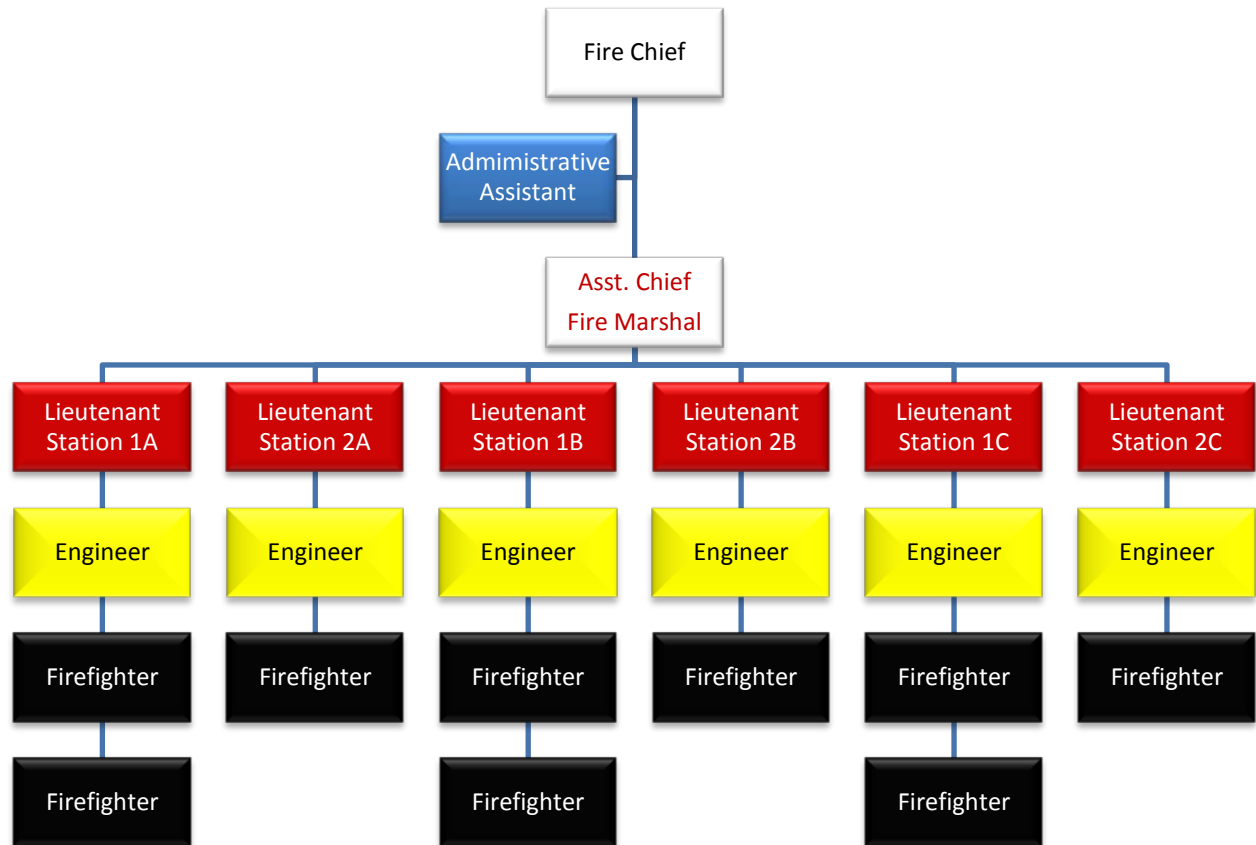
See attachments.



Current Organizational Chart



Proposed Organizational Chart





City Council Meeting April 14, 2011 Agenda Item Transmittal

Agenda Item #: 10
Agenda Title: Consider approving professional services agreement with Sledge Engineering, LLC to manage airport clearing project.

Council Action to be taken: Approve, deny or request additional information

Initiating Department: Public Works

Staff Contact: Danny Thomas, Director of Public Works

1. INTRODUCTION/PURPOSE

As part of the Airport Clearing Project, for the identified penetrations to be removed, this request is for consideration that Sledge Engineering LLC be approved for a professional services agreement to serve as project manager.

2. DESCRIPTION/ JUSTIFICATION

In order to have the FAA approve and activate Global Positioning System (GPS) at our airport, objects existing in the airport 'penetrations' must be removed in accordance with the Airport Layout Plan. The Taylor Municipal Airport was awarded a \$250,000.00 grant from the Texas Department of Transportation Aviation Division, with the City of Taylor's match of \$25,000.00 in 2010, for the Airport Layout plan. This project will allow the removal of penetrations identified by KSA Engineering. We are requesting that Sledge Engineering, LLC be retained for project management for this endeavor. This will be paid out of the Engineering General Fund unless KSA approves a Sledge Engineering partnership. In that case, the amount to S.E. LLC will be paid through the grant.

3. FINANCIAL/BUDGET

\$250,000.00 TEXDOT Grant.....S.E. LLC Airport Clearing Project total... \$6,500.00

4. TIMELINE CONSIDERATIONS

5. RECOMMENDATION

6. REFERENCE FILES

10a. [Project Mgmt agreement](#) for airport runway clearing

PROFESSIONAL SERVICES AGREEMENT

STATE OF TEXAS

COUNTY OF WILLIAMSON

OWNER/CLIENT: CITY OF TAYLOR, TX
400 Porter Street
Taylor, TX 76574
(512) 352-3633
(512) 352-8485

This AGREEMENT is entered into by the **City of Taylor**, hereinafter called "OWNER" or "CITY" and **Sledge Engineering, LLC.**, hereinafter called "SE". In consideration of the AGREEMENTS herein, the parties agree as follows:

- I. **EMPLOYMENT OF SE:** In accordance with the terms of this AGREEMENT: OWNER agrees to employ SE; SE agrees to perform professional services in connection with the Project; OWNER agrees to pay to SE compensation. The Project is described as follows:

CIP Program Management Services:

A. Airport Runway Clearing Project Management

- II. **SCOPE OF SERVICES / COMPENSATION:** SE shall render professional services in connection with Project as follows. OWNER agrees to pay SE for all professional services rendered under this AGREEMENT in accordance with the following:

A. Airport Runway Clearing Project Management

Project to be added to the **CIP Program Management Project List** and included in reports as existing projects. Typical CIP Program Management tasks will be performed as well. Tasks Include:

Project Budget of \$260,000

- a. Oversee design, review plans at 30%, 50%, 90%, and 100%
- b. Conduct Public Meetings on behalf of Owner
- c. Advise at project bid openings
- d. Attend Pre-construction meetings
- e. Review lab testing on materials
- f. Provide routine observation services and reporting
- g. Conduct periodic construction meetings as-needed with contractor & City

- h. Issue instructions from City to contractor with interpretations and clarifications of plans and specifications
- i. Advise design team and contractor regarding change orders, RFIs
- j. Make recommendations as to acceptability of work
- k. Review progress payments / make recommendations
- l. Review contractor's Record Drawing information
- m. Make final inspections at completion, submit punchlist on behalf of City
- n. Provide follow-up inspections for Maintenance Bonds

SERVICES NOT INCLUDED:

- 1. Engineering Design
- 2. Environmental Assessments
- 3. Easement document preparation
- 4. Fees of any kind
- 5. Other services not specifically referenced within this agreement.

LUMP SUM COMPENSATION:

B. Airport Runway Clearing Project Management _____\$6,500

Progress payments may be requested by SE based on the amount of services completed. Payment for the services of SE shall be due and payable upon receipt.

III. TERMS AND CONDITIONS OF AGREEMENT:

The following Terms and Conditions of Agreement shall govern the relationship between the OWNER and SE.

- A. **INFORMATION FURNISHED BY OWNER:** Owner will assist SE by placing at SE's disposal all available information pertinent to the Project including previous reports and any other data relative to design or construction of the Project. SE shall have no liability for defects or negligence in the Services attributable to SE's reliance upon or use of data, design criteria, drawings, specifications or other information furnished by Owner. SE shall disclose to Owner, prior to use thereof, defects or omissions in the data, design criteria, drawings, specifications or other information furnished by Owner to SE that SE may reasonably discover in its review and inspection thereof.
- B. **OPINION OF PROBABLE COSTS:** Any submitted or reviewed opinions of probable project development cost will be based on present day cost, but SE does not guarantee the accuracy of such estimates. Opinions of probable cost, financial evaluations, feasibility studies, economic analyses of alternate solutions and utilitarian considerations of operations and maintenance costs prepared or reviewed by SE hereunder will be made on the basis of SE's experience and qualifications and represent SE's judgment as an experienced and qualified professional. It is recognized, however, that SE does not have control over the cost of labor, material, equipment, or services furnished by others or over market conditions or contractors' methods of determining their prices.
- C. **CONSTRUCTION REPRESENTATION:** If required by the AGREEMENT, SE will furnish Construction Representation according to the defined scope for these services. SE will observe

the progress and the quality of work to determine in general if the work is proceeding in accordance with the Contract Documents. In performing these services, SE will endeavor to protect Owner against defects and deficiencies in the work of Contractors; SE will report any observed deficiencies to Owner; however, it is understood that SE does not guarantee the Contractor's performance, nor is SE responsible for the supervision of the Contractor's operation and employees. SE shall not be responsible for the means, methods, techniques, sequences, or procedures of construction selected by the Contractor, or the safety precautions and programs incident to the work of the Contractor. SE shall not be responsible for the acts or omissions of any person (except their own employees or agents) at the Project site or otherwise performing any of the work of the Project.

- D. **MEDIATION:** Prior to arbitration or litigation, the parties shall endeavor to settle disputes by mediation unless the parties mutually agree otherwise. Demand for mediation shall be filed in writing with the other party to this Agreement. A demand for mediation shall be made within a reasonable time after the claim, dispute, or other matter in question has arisen. In no event shall the demand for mediation be made after the date when institution of legal or equitable proceedings based on such claim, dispute, or other matter in question would be barred by the applicable statute of limitations.
- E. **TERMINATION:** This Agreement may be terminated with or without cause by either party upon seven days prior written notice to the non-terminating party. If this agreement is terminated during the course of performance of the work, SE shall be paid the reasonable value of the services performed during the period prior to the effective dates of termination of the agreement. If, prior to termination of this agreement, any work designed or specified by SE during any phase of the work is suspended in whole or in part for more than three months or abandoned after written notice from the Owner, SE shall be paid for such services performed to receipt of such notice.

Nothing under this AGREEMENT shall be construed to give any rights or benefits in this AGREEMENT to anyone other than OWNER and SE, and all duties and responsibilities undertaken pursuant to this AGREEMENT will be for the sole and exclusive benefit of OWNER and SE and not for the benefit of any other party.

This AGREEMENT constitutes the entire AGREEMENT between OWNER and SE and supersedes all prior written or oral understandings.

This contract is executed in two counterparts. IN TESTIMONY HEREOF, they have executed this AGREEMENT:

CITY OF TAYLOR (OWNER)

SLEDGE ENGINEERING, LLC (SE)

By: _____

By:  _____

Printed Name: _____

Printed Name: Casey B. Sledge

Title: _____

Title: President

Date: _____

Date: 3/15/11



City Council Meeting April 14, 2011 Agenda Item Transmittal

Agenda Item #: 11
Agenda Title: Consider approving Resolution R11-11 requesting temporary street closures for Main Street activities and events.

Council Action to be taken: Approve, deny or table

Initiating Department: Main Street Program

Staff Contact: Deby Lannen, Main Street Manager

1. INTRODUCTION/PURPOSE

Consider Resolution R11-11 to close selected streets in the Main Street district for City sponsored events throughout the year. This resolution is required annually by TDOT for closing Main Street (Highway 95).

2. DESCRIPTION/ JUSTIFICATION

The closing of the Main Street district for community events has been very successful. It adds a special dimension that seems to build attendance and provides a higher degree of safety for event crowds. We are requesting approval to close the Main Street district for City-sponsored events to include the annual Taylor Zest Fest scheduled for May 7, 2011, and the Halloween Spooktacular held on or around October 31 each year. Also requested is that the City Manager be authorized to approve these street closures as well as street closures that may arise from unplanned events for the rest of the year. The Main Street district includes closing Main Street from Second to Fifth Streets and Third and Fourth Streets between Porter and Talbot Streets.

All City-sponsored events will follow protocols required by the Texas Department of Transportation for road closures that includes an updated traffic control plan prepared by a professional engineer. Events will meet the liability insurance coverage requirements of the Texas Municipal League. An application will be made internally to close the streets for each event that is approved by the City Manager, the Police Chief, and the Fire Chief. This is standard procedure for any street closure.

3. FINANCIAL/BUDGET

Costs incurred in closing the streets will be planned for within the City's operational budget and may be subsidized by fundraising efforts of the Main Street Program.

4. TIMELINE CONSIDERATIONS

Approval is requested for the following Main Street Program events:

May 7, 2011	Taylor Zest Fest
October 31, 2011	Halloween Spooktacular

Other events that may be planned throughout the year.

5. RECOMMENDATION

Staff recommends approval of Resolution 11-11 authorizing the temporary closure of North Main Street between Second and Fifth Streets and Third and Fourth Streets between Talbot and Porter Streets.

6. REFERENCE FILES

11a. [Resolution R11-11](#)

RESOLUTION R11-11

A RESOLUTION AUTHORIZING TEMPORARY CLOSURE OF NORTH MAIN STREET (NORTH HIGHWAY 95) BETWEEN SECOND STREET (HIGHWAY 79) AND FIFTH STREET AND THIRD AND FOURTH STREETS BETWEEN PORTER AND TALBOT STREETS.

WHEREAS, The City of Taylor City Council supports community events hosted by the City of Taylor and the Taylor Main Street Department; and

WHEREAS, such temporary street closures of the Main Street district add to the containment of community events and promotes public safety for attendees and participants and provides a venue for events that enhances the quality of life for the community and

WHEREAS, a request for planned events for 2011 that include Taylor Zest Fest on May 7, 2011, and the 2011 Halloween Spooktacular on or around October 31, 2011, has been received and a request for city Manager approval of any other yet to be planned events requiring street closure in the downtown area throughout the year;

NOW, THEREFORE, BE IT RESOLVED that the City of Taylor City Council approves this request for the Texas Department of Transportation to temporarily close North Main Street (North Highway 95) from Second Street to Fifth Street and Third Street and Fourth Street between Talbot and Porter Streets and the City Manager is authorized to enter into an agreement with the State to affect the temporary closure of the above highway and streets on the aforementioned dates requested and for any other events that may be planned throughout the year.

INTRODUCED, PASSED and APPROVED this the 14th day of April, 2011.

John McDonald, Mayor Pro-Tem

ATTEST:

Susan Brock, City Clerk



City Council Meeting
April 14, 2011
Agenda Item Transmittal

Agenda Item #: 12

Agenda Title: Consider request from Main Street Board to sell wine and beer and to allow consumption throughout the festival area for the Zest Fest 2011.

Council Action to be taken: Approve, deny or table

Initiating Department: Main Street Program

Staff Contact: Deby Lannen, Main Street Manager

1. INTRODUCTION/PURPOSE

The purpose of this item is for the Council to consider allowing wine and/or beer sales at the Zest Fest. This will enhance the revenue generated for the Main Street Program that will be used in revitalization efforts of the downtown area.

2. DESCRIPTION/ JUSTIFICATION

Taylor Zest Fest is an annual event sponsored by the Main Street Program. The original purpose of the event was to create a downtown event to celebrate the community's heritage and to bring people to the downtown area. The festival's purpose today is two-fold: 1) to host a downtown event that attracts traffic to the downtown area with activities for people of all ages that includes arts & crafts and retail shopping, food and entertainment throughout the day; and 2) to serve as a fundraiser for the Main Street Program.

In an effort to maximize the opportunity to generate revenue again this year, the Main Street Board is working hard to promote sponsorships and vendor booth rentals and would like to sell beer and possibly wine coolers. These alcoholic beverage sales during the festival would generate additional revenues. This is the third year we have requested this authorization.

The Zest Fest Committee would like to sell beer and possibly wine coolers Saturday, May 7, 2011 from 10 am – 6 pm at a central concession on Heritage Square. The Committee request approval for attendees to consume the drinks throughout the festival area (this being defined as the area between 2nd and 5th Streets and between Porter and Talbot Street) rather than containing beverage consumption in a single area. This request

has been reviewed with Agent Mike Hunter, Texas Alcoholic Beverage Commission, along with City Manager Jim Dunaway, and Chief Jeff Straub. All concurred that considering the hours of the festival and through diligent ticket sales, the ability to consume alcoholic beverages throughout the festival area is very manageable. Further, Mr. Hunter agreed to do a training session with the volunteers that sell the tickets and beverages.

The authority from Texas Alcoholic Beverage Commission is a daily temporary license (3days) at a cost of \$201, requiring letters demonstrating that the Taylor Police Department and the Williamson County Sheriff's office have been advised. Training the sellers is optional for the license, but the Taylor Main Street office will require it for the event.

Liability insurance is provided by the City's coverage under the Texas Municipal League Intergovernmental Risk Pool insurance policy at no additional cost. We have correspondence from the TML-IRP offices that the festival activities, including the sale of beer, are not excluded from our policy.

3. FINANCIAL/BUDGET

Amount requested: \$201
(Daily temporary license)

Fund/Account No: 123-615-236
(Main Street's Festival Rev.)

4. TIMELINE CONSIDERATIONS

The application should be made within two weeks of the event, including the notification to public safety officials.

5. RECOMMENDATION

Staff recommends the City Council authorize the sale of wine and beer in the downtown area, specifically for the Taylor Zest Fest sponsored by the Main Street Program of the City of Taylor, to be held May 7, 2011, and for permission allowing attendees to consume alcoholic beverages sold throughout the festival area.

6. REFERENCE FILES

- 12a. [TML Intergovernmental Risk Pool insurance](#) and TxDot Cert of Insurance regarding liquor liability.
- 12b. [City Code](#) related to alcohol in downtown district.



Certificate of Coverage

TML-IRP Contract Number:	3204
Member: Taylor Mr Jim Dunaway City Manager 400 Porter St Taylor, Texas 76574-3600	Company Affording Coverage: Texas Municipal League Intergovernmental Risk Pool PO Box 149194 Austin, TX 78714-9194 (512) 491-2300 or (800) 537-6655 Fax: (512) 491-2404

Certificate Holder: Taylor Parks Foundation 400 Porter St. Taylor, Texas 76574
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This is to certify that the coverages listed below have been provided to the member and are in effect at this time. Notwithstanding any requirements, terms, or conditions of any other contract or agreement with respect to which this certificate may be issued or may pertain, the coverage afforded by the Texas Municipal League Intergovernmental Risk Pool (TML-IRP) described herein is subject only to the terms, exclusions and additions of TML-IRP's coverage contracts between TML-IRP and its member(s). Coverage is continuous until canceled.

General Liability Effective Date: 10/01/10 Anniversary Date: 10/01/11 Limits of Liability (Each Occurrence): \$1,000,000 Sudden Events Involving Pollution (Each Occurrence): \$1,000,000 Annual Aggregate: \$2,000,000 Deductible per Occurrence: \$1,000	Real & Personal Property Effective Date: _____ Anniversary Date: _____ Limits of Coverage: _____ Deductible per Occurrence: _____																											
Law Enforcement Liability Effective Date: _____ Anniversary Date: _____ Limits of Liability (Each Occurrence): _____ Annual Aggregate: _____ Deductible per Occurrence: _____	Mobile Equipment Effective Date: _____ Anniversary Date: _____ Limits of Coverage: _____ Deductible per Occurrence: _____																											
Errors and Omissions Liability Effective Date: _____ Anniversary Date: _____ Limits of Liability (Each Wrongful Act): _____ Annual Aggregate: _____ Deductible per Occurrence: _____	Boiler & Machinery - Broad Form Effective Date: _____ Anniversary Date: _____ Per Accident Limit: _____ Deductible per Occurrence: _____																											
Auto Liability Effective Date: _____ Anniversary Date: _____ Limits of Liability (Each Occurrence): _____ Deductible per Occurrence: _____	<table border="1"> <thead> <tr> <th></th> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr> <td>Mortgagee</td> <td></td> <td></td> </tr> <tr> <td>Loss Payee</td> <td></td> <td></td> </tr> <tr> <td>Loan Number:</td> <td colspan="2"></td> </tr> </tbody> </table>		Yes	No	Mortgagee			Loss Payee			Loan Number:																	
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Yes No Loss Payee: _____	Loan Number: _____																											

DESCRIPTION:
Evidence of coverage for Taylor Zest Fest to be held on May 7, 2011.

Cancellation: Should any of the above described coverages be canceled before the anniversary date thereof, TML-IRP will endeavor to mail 30 days written notice to the above named certificate holder, but failure to mail such notice shall impose no obligation or liability of any kind upon TML-IRP.

Authorized Representative

Date Issued

03/28/11

X102
10/15/08

City Code of Ordinances

Chapter 3 ALCOHOLIC BEVERAGES

Sec. 3-2. Alcoholic beverages prohibited in central business district.

(a) Subject to subsection (b) hereof the city does hereby prohibit the possession of an open container or consumption of alcoholic beverages in its central business district as such district is described in the resolution adopted by the City of Taylor establishing same on December 28, 1993 which shall be consistent with the provisions of the order adopted by the Texas Alcoholic Beverage Commission on March 7, 1994 and section 109.35 of the Alcoholic Beverage Code V.A.T.S., as amended.

(b) This section does not prohibit the legal possession of an open container or the consumption of alcoholic beverages in motor vehicles, buildings not owned or controlled by the city, residential structures or licensed premises located within the central business district.

(c) As used herein "open container" means any alcoholic beverage container that is no longer sealed.

(d) If any part of this section should be held to be invalid by a court of competent jurisdiction same shall not affect the remainder of this section and all portions of this section not held to be invalid shall continue and remain in full force and effect.

(e) Any person violating the provisions of this section shall be deemed guilty of a class C misdemeanor and upon conviction shall be fined in any amount not less than one hundred dollars (\$100.00) nor more than five hundred dollars (\$500.00).
(Ord. No. 01-03-94, §§ 1--5, 3-22-94)



***City Council Meeting
April 14, 2011
Agenda Item Transmittal***

Agenda Item #: 13

Agenda Title: Executive Session.

Council Action to be taken: Consult with City Attorney

Initiating Department: City Administration

Staff Contact: Jim D. Dunaway, City Manager
Ted Hejl, City Attorney

1. INTRODUCTION/PURPOSE

This Executive Session is called to consult with City Attorney.

2. DESCRIPTION/ JUSTIFICATION

The Taylor City Council will conduct a closed 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.

3. FINANCIAL/BUDGET

4. TIMELINE CONSIDERATIONS

5. RECOMMENDATION

6. REFERENCE FILES

13a. [Executive Session form](#)

**TAYLOR CITY COUNCIL
CERTIFIED AGENDA - EXECUTIVE SESSION**

1. OPEN MEETING ANNOUNCEMENT

The City of Taylor City Council convened in Open Session, declared a quorum on April 14 24, 2011 and has posted an Official Agenda indicating the need for an Executive Session. The Council will now adjourn into Executive Session pursuant to the Texas Open Meetings Act, Government Code Section:

- | | | |
|-------------------------------------|---------|--|
| ☒ | 551.071 | To consult with its attorney regarding a matter in which the duty of the attorney to the City conflicts with the Open Meetings Act. |
| ☐ | 551.072 | To conduct deliberations regarding the purchase, exchange, lease, or value of real property. |
| ☒ | 551.074 | Regarding personnel matters |
| ☒ | 551.087 | Regarding economic development negotiations and considering financial or other incentives to a business prospect that the City seeks to have locate in or near the City of Taylor. |

Any action resulting from the Executive Session will be taken in Open Session immediately following the Executive Session.

2. BACK TO OPEN SESSION

The time is now _____ and we will reconvene into Open Session. No action or vote was taken on any matter discussed in Executive Session.

CERTIFICATION

I, John McDonald, Mayor Pro Tem of the City of Taylor, do hereby certify that this Agenda of an Executive Session of the City Council is a true and correct record of the proceedings.

WITNESS my hand this the _____ day of _____, 2011

John McDonald, Mayor Pro Tem



***City Council Meeting
April 14, 2011
Agenda Item Transmittal***

Agenda Item #: 14
Agenda Title: Executive Session. (Economic Development)
Council Action to be taken: Adjourn into Closed session.
Initiating Department: City Administration
Staff Contact: Jim D. Dunaway, City Manager

1. INTRODUCTION/PURPOSE

2. DESCRIPTION/ JUSTIFICATION

The Taylor City Council will conduct a closed meeting under Section 551.087 of the Texas Government Code which allows such a closed meeting and which Rules conflict with the Texas Open Meetings Act.

3. FINANCIAL/BUDGET

4. TIMELINE CONSIDERATIONS

5. RECOMMENDATION

6. REFERENCE FILES

13a. [Executive Session form](#)

**TAYLOR CITY COUNCIL
CERTIFIED AGENDA - EXECUTIVE SESSION**

1. OPEN MEETING ANNOUNCEMENT

The City of Taylor City Council convened in Open Session, declared a quorum on April 14, 2011 and has posted an Official Agenda indicating the need for an Executive Session. The Council will now adjourn into Executive Session pursuant to the Texas Open Meetings Act, Government Code Section:

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| ☒ | 551.087 | Regarding economic development negotiations and considering financial or other incentives to a business prospect that the City seeks to have locate in or near the City of Taylor. |

Any action resulting from the Executive Session will be taken in Open Session immediately following the Executive Session.

2. BACK TO OPEN SESSION

The time is now _____ and we will reconvene into Open Session. No action or vote was taken on any matter discussed in Executive Session.

CERTIFICATION

I, John McDonald, Mayor Pro Tem of the City of Taylor, do hereby certify that this Agenda of an Executive Session of the City Council is a true and correct record of the proceedings.

WITNESS my hand this the _____ day of _____, 2011

John McDonald, Mayor Pro Tem



***City Council Meeting
April 14, 2011
Agenda Item Transmittal***

Agenda Item #: 15
Agenda Title: Executive Session.
Council Action to be taken: City Manager Evaluation
Initiating Department: City Council
Staff Contact: John McDonald, Mayor Pro Tem

1. INTRODUCTION/PURPOSE

2. DESCRIPTION/ JUSTIFICATION

The Taylor City Council will conduct a closed meeting under Section 551.074 of the Texas Government Code in order to discuss and evaluate the City Manager.

3. FINANCIAL/BUDGET

4. TIMELINE CONSIDERATIONS

5. RECOMMENDATION

6. REFERENCE FILES

13a. [Executive Session form](#)

**TAYLOR CITY COUNCIL
CERTIFIED AGENDA - EXECUTIVE SESSION**

1. OPEN MEETING ANNOUNCEMENT

The City of Taylor City Council convened in Open Session, declared a quorum on April 14 24, 2011 and has posted an Official Agenda indicating the need for an Executive Session. The Council will now adjourn into Executive Session pursuant to the Texas Open Meetings Act, Government Code Section:

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| ☒ | 551.071 | To consult with its attorney regarding a matter in which the duty of the attorney to the City conflicts with the Open Meetings Act. |
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| ☒ | 551.074 | Regarding personnel matters |
| ☒ | 551.087 | Regarding economic development negotiations and considering financial or other incentives to a business prospect that the City seeks to have locate in or near the City of Taylor. |

Any action resulting from the Executive Session will be taken in Open Session immediately following the Executive Session.

2. BACK TO OPEN SESSION

The time is now _____ and we will reconvene into Open Session. No action or vote was taken on any matter discussed in Executive Session.

CERTIFICATION

I, John McDonald, Mayor Pro Tem of the City of Taylor, do hereby certify that this Agenda of an Executive Session of the City Council is a true and correct record of the proceedings.

WITNESS my hand this the _____ day of _____, 2011

John McDonald, Mayor Pro Tem