

# NOTICE OF REGULAR MEETING AGENDA LANCASTER CITY COUNCIL MUNICIPAL CENTER CITY COUNCIL CHAMBERS 211 N. HENRY STREET, LANCASTER, TEXAS



Monday, February 14, 2022 - 7:00 PM

While one or more City Council Members may be present via video or audio link, a quorum of the City Council will be at the Municipal Center-City Council Chambers, as required by the Texas Open Meetings Act.

#### Please click the link below for forms:

https://www.lancaster-tx.com/1413/Notice-Regarding-Public-Participation

## Please click the link below to join the webinar:

https://us02web.zoom.us/meeting/register/tZ0tdOCogDkgGtB5eg\_ErBlOoWJxzIIICub1

The meeting will be broadcast live via video at the following address:

http://www.lancaster-tx.com/324/Watch-Meetings

#### 7:00 P.M. REGULAR MEETING:

**CALL TO ORDER** 

**INVOCATION:** Ministerial Alliance

PLEDGE OF ALLEGIANCE: Councilmember Keithsha Wheaton

**PROCLAMATION:** National School Week

#### **PUBLIC TESTIMONY/CITIZENS COMMENTS:**

At this time, citizens who have pre-registered before the call to order will be allowed to speak on any matter for a length of time not to exceed three minutes. No Council action or discussion may take place on a matter until such matter has been placed on an agenda and posted in accordance with law. Anyone desiring to speak on an item scheduled for a public hearing is requested to hold their comments until the public hearing on that item.

# **CONSENT AGENDA:**

Items listed under the consent agenda are considered routine and are generally enacted in one motion. The exception to this rule is that a Council Member may request one or more items to be removed from the consent agenda for separate discussion and action.

 Consider a resolution ratifying the Mayor's Declaration of Local Disaster for the City of Lancaster, Texas; providing for the implementation of the City's Emergency Management Plan and adopting state and county emergency orders regarding severe weather; providing for a disaster period; and providing an effective date.

- 2. Consider a resolution ordering a General Election to be held on Saturday, May 7, 2022, for the election of one councilmember for District 1, one councilmember for District 3, and one councilmember for District 5 for a three-year term; providing for the publication and posting of notice; and providing for early voting dates, times and locations.
  - Considerar una resolución ordenardo una elección general la cual se llevará a cabob el Sábado, 7 de Mayo del 2022, para la elección de lost siguientes: Miembro del consejo del Distrito 1, Miembro del consejo del Distrito 3, y Miembro del consejo del Distrito 5 para un período de tres años; se dispone la publicación de la notificación; y el ofrecimiento de fechas, horarios y locaciones para votar de manera temprana.
- 3. Consider a resolution approving the terms and conditions of a Joint Election Contract and Election Services Agreement with Dallas County Elections to conduct a municipal General Election for the election of one councilmember for District 1, one councilmember for District 3, and one councilmember for District 5 to be held on Saturday, May 7, 2022.
  - Considere una resolución aprobando los términos y condiciones del Contrato Elección Conjunta y servicios de la elección con las elecciones del condado de Dallas para llevar a cabo una elección general municipal para la elección de los distritos 1, 3 y 5 que se celebrará el Sábado, 7 de Mayo 2022.
- 4. Consider a resolution approving the terms and conditions of an agreement with Environmental Reconstruction Services, Inc. (ERS) for relocation of the propane fuel tank in an amount not to exceed fifty-five thousand, eight hundred, seventeen dollars (\$55,817.00).
- 5. Consider a resolution designating representatives of the City of Lancaster authorized to transmit and withdraw funds and take all other actions deemed necessary or appropriate for the investment of local funds in TexPool/TexPool Prime; providing for the addition and deletion of an authorized representative.

#### **ACTION:**

- 6. Discuss and consider confirmation of nominations made by the Mayor for appointments to the North Central Texas Housing Finance Corporation Board (NCTHFC).
- 7. Discuss and consider an ordinance approving the updated General Design Manual and Standard Construction Details.

EXECUTIVE SESSION: The City Council reserves the right to convene into executive session on any posted agenda item pursuant to Section 551.071(2) of the Texas Government Code to seek legal advice concerning such subject.

ACCESSIBILITY STATEMENT: Meetings of the City Council are held in municipal facilities that are wheelchair-accessible. For sign interpretive services, call the City Secretary's office, 972-218-1311, or TDD 1-800-735-2989, at least 72 hours prior to the meeting. Reasonable accommodation will be made to assist your needs.

PURSUANT TO SECTION 30.06 PENAL CODE (TRESPASS BY HOLDER WITH A CONCEALED HANDGUN), A PERSON LICENSED UNDER SUBCHAPTER H, CHAPTER 411, GOVERNMENT CODE (HANDGUN LICENSING LAW), MAY NOT ENTER THIS PROPERTY WITH A CONCEALED HANDGUN.

CONFORME A LA SECCION 30.06 DEL CODIGO PENAL (TRASPASAR PORTANDO ARMAS DE FUEGO CON LICENCIA) PERSONAS CON LICENCIA BAJO DEL SUB-CAPITULO 411, CODIGO DEL GOBIERNO (LEY DE PORTAR ARMAS), NO DEBEN ENTRAR A ESTA PROPIEDAD PORTANDO UN ARMA DE FUEGO OCULTADA.

PURSUANT TO SECTION 30.07 PENAL CODE (TRESPASS BY HOLDER WITH AN OPENLY CARRIED HANDGUN), A PERSON LICENSED UNDER SUBCHAPTER H, CHAPTER 411, GOVERNMENT CODE (HANDGUN LICENSING LAW), MAY NOT ENTER THIS PROPERTY WITH A HANDGUN THAT IS CARRIED OPENLY.

CONFORME A LA SECCION 30.07 DEL CODIGO PENAL (TRASPASAR PORTANDO ARMAS DE FUEGO AL AIRE LIBRE CON LICENCIA) PERSONAS CON LICENCIA BAJO DEL SUB-CAPITULO H, CAPITULO 411, CODIGO DE GOBIERNO (LEY DE PORTAR ARMAS), NO DEBEN ENTRAR A ESTA PROPIEDAD PORTANDO UN ARMA DE FUEGO AL AIRE LIBRE.

#### Certificate

I hereby certify the above Notice of Meeting was posted at Lancaster City Hall on February 10, 2022 @ 10 p.m. and copies thereof were provided to the Mayor, Mayor Pro-Tempore, Deputy Mayor Pro-Tempore and Council members.

Carey D<mark></mark>УNeal, Jr.

**Assistant City Manager** 

#### CITY OF LANCASTER CITY COUNCIL

# **City Council Regular Meeting**

1.

**Meeting Date:** 02/14/2022

Policy Statement: This request supports the City Council 2021-2022 Policy Agenda

Goal(s): Healthy, Safe & Engaged Community

Professional and Committed City Workforce

**Submitted by:** Opal Mauldin-Jones, City Manager

#### **Agenda Caption:**

Consider a resolution ratifying the Mayor's Declaration of Local Disaster for the City of Lancaster, Texas; providing for the implementation of the City's Emergency Management Plan and adopting state and county emergency orders regarding severe weather; providing for a disaster period; and providing an effective date.

# **Background:**

On February 2, 2022, the City of Lancaster, Texas experienced an imminent threat of severe weather which had the potential to cause roadways to be treacherous as well as widespread or severe damage, injury, or loss of life or property resulting from a severe snow and ice storm coupled with extremely cold temperatures.

On February 2, 2022, Dallas County Judge Clay Jenkins provided a local declaration of disaster to take effect immediately from and after its issuance, for a period of not more than seven days from the date of declaration unless continued or renewed by the Commissioners Court of Dallas County, Texas. Dallas County Judge Clay Jenkins determined that extraordinary measures must be taken to alleviate the suffering of people and to protect or rehabilitate property.

Judge Jenkins ordered the following, effective immediately on February 2, 2022, which is continued until rescinded or expired by operation of law:

- 1. That a local state of disaster is hereby declared for Dallas County, pursuant to section 418.108(a) of the Texas Government Code.
- 2. Pursuant to section 418.108(b) of the Texas Government Code, the state of disaster shall continue for a period of not more than seven days from the date of this declaration unless continued or renewed by the Commissioners Court of Dallas County, Texas.
- 3. Pursuant to section 418.108(c) of the Texas Government Code, this Local Declaration of Disaster shall be given prompt and general publicity and shall be filed promptly with the County Clerk.
- 4. Pursuant to section 418.108(d) of the Texas Government Code, this Local Declaration of Disaster activates the Dallas County emergency management plans.
- 5. That this proclamation shall take effect immediately from and after its issuance.

On February 3, 2022, Governor Greg L. Abbott, declared a state of disaster for 17 Texas counties, including Dallas County, due to ice storms posing an imminent threat of severe property damage, injury or loss of life.

- 1. Pursuant to Section 418.017 of the code, authorizing the use of all available resources of the state government and of political subdivisions that are reasonably necessary to cope with this disaster.
- 2. Pursuant to Section 418.016 of the code, any regulatory statute prescribing the procedures for

conduct of state business or any order or rule of a state agency that would in any way prevent, hinder, or delay necessary action in coping with this disaster shall be suspended upon written approval of the Office of the Governor. However, to the extent that the enforcement of any state statute or administrative rule regarding contracting or procurement would impede any state agency's emergency response that is necessary to protect life or property threatened by this declared disaster, authorizing the suspension of such statutes and rules for the duration of this declared disaster for that limited purpose.

3. Pursuant to 49 C.F.R. Section 390.23 and Chapter 644 of the Texas Transportation Code, declare a regional emergency due to this ice storm that justifies an exemption from the hours-of-service regulations in 49 C.F.R. Section 395.3 for motor carriers providing power line repairs to assist disaster relief in Texas.

As a City within Dallas County, Mayor Hairston executed a Disaster Declaration for the City of Lancaster, Texas which took effect on Wednesday, February 2, 2022, and included the following:

- 1. That a local state of disaster is hereby declared for the City of Lancaster, Texas, a Dallas County city, pursuant to section 418.108(a) of the Texas Government Code.
- 2. Pursuant to section 418.108(b) of the Texas Government Code, the state of disaster shall continue for a period of not more than seven days from the date of this declaration unless continued or renewed by executive order.
- 3. Pursuant to section 418.108(c) of the Texas Government Code, this Local Declaration of Disaster shall be given prompt and general publicity and shall be filed promptly with the City Secretary.
- 4. Pursuant to section 418.108(d) of the Texas Government Code, this Local Declaration of Disaster activates the City of Lancaster emergency management plans.
- 5. That this declaration shall take effect immediately from and after its issuance.

## **Legal Considerations:**

This resolution has been reviewed and approved as to form by the City Attorney.

#### **Public Information Considerations:**

This item is being considered at a Regular Meeting of the City Council and noticed in accordance with the Texas Open Meetings Act.

#### **Options/Alternatives:**

- 1. City Council may approve the resolution, as presented.
- 2. City Council may deny the item, as presented.

#### Recommendation:

Staff recommends approval of resolution, as presented.

#### **Attachments**

Resolution

Exhibit A - Emergency Declaration

#### **RESOLUTION NO.**

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF LANCASTER, TEXAS, DECLARING A LOCAL DISASTER; PROVIDING FOR IMPLEMETATION OF THE CITY'S EMERGENCY MANAGEMENT PLAN; PROVIDING PROMPT AND GENERAL PUBLICITY; ADOPTING THE DALLAS COUNTY FEBRUARY 2, 2022, ORDER ATTACHED HERETO; GRANTING THE MAYOR THE POWER AND AUTHORITY TO REVIEW, ADOPT, RATIFY, AND EXECUTE ANY SUBSEQUENT DALLAS COUNTY EMERGENCY ORDERS ON BEHALF OF THE CITY COUNCIL; AND PROVIDING FOR AN EFFECTIVE DATE.

**WHEREAS**, on February 2, 2022, the City of Lancaster, Texas experienced an imminent threat of severe weather which had the potential to cause roadways to be treacherous as well as widespread or severe damage, injury, or loss of life or property resulting from a severe snow and ice storm coupled with extremely cold temperatures;

**WHEREAS**, due to the current weather event, Lancaster Mayor Clyde C. Hairston has determined that extraordinary measures must be taken to alleviate the suffering of people and to protect or rehabilitate property and has issued a Local Declaration of Disaster;

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

- **SECTION 1.** That a local state of disaster is hereby declared for the City of Lancaster, Texas, pursuant to section 418.108(a) of the Texas Government Code.
- **SECTION 2.** Pursuant to section 418.108(b) of the Texas Government Code, the state of disaster shall continue for a period of not more than seven days from the date of this declaration unless continued or renewed by executive order.
- **SECTION 3.** Pursuant to section 418.108(c) of the Texas Government Code, this Local Declaration of Disaster shall be given prompt and general publicity and shall be filed promptly with the City Secretary.
- **SECTION 4.** Pursuant to section 418.108(d) of the Texas Government Code, this Local Declaration of Disaster activates the City of Lancaster emergency management plans.
  - **SECTION 5.** That this declaration shall take effect immediately from and after its issuance.
- **SECTION 6**. That the City's Emergency Management plan has been implemented in accordance with the Code of Ordinances.
- **SECTION 7**. That the February 2, 2022, Emergency Orders (Local, County and State) attached hereto as Exhibit "A" are hereby ratified and adopted as orders of the City of Lancaster, Texas.
- **SECTION 8**. That the Mayor be delegated and given the full power and authority of the City Council to review, ratify, and adopt any subsequent City of Lancaster emergency orders relating to the local disaster, and that the Mayor may execute any resolution or other document to ratify and adopt any such order.

**SECTION 9**. That the City Secretary shall give prompt and general publicity to this order declaring a local state of disaster.

**DULY PASSED** and approved by the City Council of the City of Lancaster, Texas on this the 14<sup>th</sup> day of February, 2022.

ATTEST:	APPROVED:	
Sorangel O. Arenas, City Secretary	Clyde C. Hairston, Mayor	
APPROVED AS TO FORM:		
David T. Ritter, City Attorney		

#### **EXHIBIT A**



## THE CITY OF LANCASTER



#### ORDER OF MAYOR CLYDE C. HAIRSTON

DATE ORDER ISSUED: February 2, 2022

**WHEREAS**, on February 2, 2022, the City of Lancaster, Texas is experiencing an imminent threat of severe weather which may cause roadways to be treacherous as well as widespread or severe damage, injury, or loss of life or property resulting from a severe snow and ice storm coupled with extremely cold temperatures, and:

**WHEREAS**, due to the current weather event, Lancaster Mayor Clyde C. Hairston has determined that extraordinary measures must be taken to alleviate the suffering of people and to protect or rehabilitate property and has issued a Local Declaration of Disaster, and;

**WHEREAS**, pursuant to this current *Local Declaration of Disaster*, Lancaster Mayor Clyde C. Hairston issues the following executive orders:

# UNDER THE AUTHORITY OF TEXAS GOVERNMENT CODE SECTION 418.108, LANCASTER MAYOR CLYDE C. HAIRSTON ORDERS:

DECLARED this the 2nd day of February, 2022, effective immediately from and after its issuance continuing until rescinded or expires by operation of law:

- 1. That a local state of disaster is hereby declared for the City of Lancaster, Texas, pursuant to section 418.108(a) of the Texas Government Code.
- 2. Pursuant to section 418.108(b) of the Texas Government Code, the state of disaster shall continue for a period of not more than seven days from the date of this declaration unless continued or renewed by the Commissioners Court of Dallas County, Texas.
- 3. Pursuant to section 418.108(c) of the Texas Government Code, this Local Declaration of Disaster shall be given prompt and general publicity and shall be filed promptly with the City Secretary.
- 4. Pursuant to section 418.108(d) of the Texas Government Code, this Local Declaration of Disaster activates the City of Lancaster emergency management plans.
- 5. That this proclamation shall take effect immediately from and after its issuance.

IT IS SO ORDERED

CLYDE C. HAIRSTON CITY OF LANCASTER, MAYOR



#### DALLAS COUNTY JUDGE CLAY LEWIS JENKINS

# LOCAL DECLARATION OF DISASTER

WHEREAS, the County of Dallas, Texas on the 2nd day of February, 2022, is experiencing an imminent threat of severe weather which may cause roadways to be treacherous as well as widespread or severe damage, injury, or loss of life or property resulting from a severe snow and ice storm coupled with extremely cold temperatures and,

WHEREAS, Clay Lewis Jenkins, the County Judge of Dallas County, Texas has determined that extraordinary measures must be taken to alleviate the suffering of people and to protect or rehabilitate property.

# NOW, THEREFORE, BE IT PROCLAIMED BY THE COUNTY JUDGE OF DALLAS COUNTY, TEXAS:

- That a local state of disaster is hereby declared for Dallas County, Texas, pursuant to section 418.108(a) of the Texas Government Code.
- Pursuant to section 418.108(b) of the Texas Government Code, the state of disaster shall continue for a period of not more than seven days from the date of this declaration unless continued or renewed by the Commissioners Court of Dallas County, Texas.
- Pursuant to section 418.108(c) of the Texas Government Code, this Local Declaration of Disaster shall be given prompt and general publicity and shall be filed promptly with the County Clerk.
- 4. Pursuant to section 418.108(d) of the Texas Government Code, this Local Declaration of Disaster activates the Dallas County emergency management plans.
  - 5. That this proclamation shall take effect immediately from and after its issuance.

DECLARED this the 2nd day of February, 2022.

Clay Lewis Jenkins

Dallas County Judge



# GOVERNOR GREG ABBOTT

February 3, 2022

The Honorable John B. Scott Secretary of State State Capitol Room 1E.8 Austin, Texas 78701

Dear Mr. Secretary:

FILED IN THE OFFICE OF THE SECRETARY OF STATE

12:150m0'CLOCK

FEB 0 3 2022

Secretary of State

Pursuant to his powers as Governor of the State of Texas, Greg Abbott has issued the following:

A proclamation concerning the possibility of inclement winter weather including a widespread freezing rain, ice, and snow event in many Texas counties.

The original proclamation is attached to this letter of transmittal.

Respectfully submitted,

Gregory S. Davidson

Executive Clerk to the Governor

GSD/gsd

Attachment

# **PROCLAMATION**

**RY THE** 

# Governor of the State of Texas

#### TO ALL TO WHOM THESE PRESENTS SHALL COME:

WHEREAS, the National Weather Service is predicting at least a quarter-inch of ice for Bosque, Dallas, Delta, Denton, Ellis, Fannin, Grayson, Hopkins, Hunt, Johnson, Kaufman, Lamar, Navarro, Rains, Red River, Rockwall, and Williamson counties; and

WHEREAS, the previously listed counties have issued or are planning to issue local disaster declarations in response to this ice storm;

NOW, THEREFORE, I, GREG ABBOTT, Governor of the State of Texas, do hereby certify that this ice storm poses an imminent threat of severe property damage, injury, or loss of life in Bosque, Dallas, Delta, Denton, Ellis, Fannin, Grayson, Hopkins, Hunt, Johnson, Kaufman, Lamar, Navarro, Rains, Red River, Rockwall, and Williamson counties. In accordance with the authority vested in me by Section 418.014 of the Texas Government Code, I do hereby declare a state of disaster in the previously listed counties based on the existence of such threat.

Pursuant to Section 418.017 of the code, I authorize the use of all available resources of state government and of political subdivisions that are reasonably necessary to cope with this disaster.

Pursuant to Section 418.016 of the code, any regulatory statute prescribing the procedures for conduct of state business or any order or rule of a state agency that would in any way prevent, hinder, or delay necessary action in coping with this disaster shall be suspended upon written approval of the Office of the Governor. However, to the extent that the enforcement of any state statute or administrative rule regarding contracting or procurement would impede any state agency's emergency response that is necessary to protect life or property threatened by this declared disaster, I hereby authorize the suspension of such statutes and rules for the duration of this declared disaster for that limited purpose.

Pursuant to 49 C.F.R. Section 390.23 and Chapter 644 of the Texas Transportation Code, I hereby declare a regional emergency due to this ice storm that justifies an exemption from the hours-of-service regulations in 49 C.F.R. Section 395.3 for motor carriers providing power line repairs to assist disaster relief in Texas.

In accordance with the statutory requirements, copies of this proclamation shall be filed with the applicable authorities.

IN TESTIMONY WHEREOF, I have hereunto signed my name and have officially caused the Seal of State to be affixed at my office in the City of



Austin, Texas, this the 3rd day of February, 2022.

GREG ABBOTT Governor

ATTESTED BY:

JOHN B. SCOTT Secretary of State

#### CITY OF LANCASTER CITY COUNCIL

# **City Council Regular Meeting**

2.

**Meeting Date:** 02/14/2022

**Policy Statement:** This request supports the City Council 2021-2022 Policy Agenda

**Goal(s):** Healthy, Safe & Engaged Community

**Submitted by:** Sorangel O. Arenas, City Secretary

## **Agenda Caption:**

Consider a resolution ordering a General Election to be held on Saturday, May 7, 2022, for the election of one councilmember for District 1, one councilmember for District 3, and one councilmember for District 5 for a three-year term; providing for the publication and posting of notice; and providing for early voting dates, times and locations.

Considerar una resolución ordenardo una elección general la cual se llevará a cabob el Sábado, 7 de Mayo del 2022, para la elección de lost siguientes: Miembro del consejo del Distrito 1, Miembro del consejo del Distrito 3, y Miembro del consejo del Distrito 5 para un período de tres años; se dispone la publicación de la notificación; y el ofrecimiento de fechas, horarios y locaciones para votar de manera temprana.

#### **Background:**

The municipal General Election for City officers this year includes councilmembers for Districts 1, 3 and 5. The designated uniform Election Day is Saturday, May 7, 2022.

# **Operational Considerations:**

To conduct the election, the City of Lancaster will participate in a joint election with other governing entities in Dallas County administered by Dallas County Elections. Participating in a joint election with other cities and school districts greatly reduces election costs for all participants. The joint election agreement is a companion item to this agenda item.

Early voting will be held at the Lancaster Veterans Memorial Library. This location best serves the election process by offering sufficient space for the voters, easy entry/exit from the room (without entering the Library itself) and offers the necessary technology access for use by Dallas County Elections personnel. This location is familiar to our voters and has consistently been used in recent elections for early voting as well as for Election Day voting. During early voting, registered voters may vote at any Dallas County early voting polling location.

Election day voting for the joint election will be held on May 7, 2022, and will be conducted at various branch voting polling locations. A list of all Dallas County voting locations is available at <a href="https://www.dallascountyvotes.org">www.dallascountyvotes.org</a>.

# **Legal Considerations:**

The City Attorney has reviewed the resolution ordering the election. The statutory last day for City Council to order the election is February 18, 2022.

Pursuant to state and federal laws, the resolution (Election Order) is provided in English and Spanish. In addition, the caption on the City's agenda for this meeting for the election order is in English and Spanish.

The 82nd Texas Legislature revised the requirements for notice of early voting locations contained in the election order. Election law only requires the main early voting location to be listed in the election order. The main early voting location (Dallas County Records Building) and the Lancaster early voting location (Veterans Memorial Library) are included in the election order.

#### **Public Information Considerations:**

All requirements for the posting and publishing of the election order will be completed as outlined in the election order. This resolution is being considered at a regular meeting of the City Council noticed in accordance with the Texas Open Meeting Act.

# **Fiscal Impact:**

The City's cost will depend on the number of entities contracting with Dallas County for election services. There will be further details regarding estimated election costs in the future agenda item on the joint election agreement. If a run-off election is required, the City will incur additional costs.

#### **Options/Alternatives:**

- 1. City Council may approve the resolution, as presented
- 2. City Council may deny the resolution requiring the City to incur the full cost and responsibility of conducting a standalone election.

#### Recommendation:

Staff recommends approval of the resolution as presented ordering the General Election for municipal officers on Saturday, May 7, 2022.

#### **Attachments**

Resolution- English Resolution- Spanish

#### **RESOLUTION NO.**

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF LANCASTER, TEXAS, ORDERING A GENERAL ELECTION TO BE HELD ON MAY 7, 2022 FOR THE ELECTION OF ONE COUNCILMEMBER FOR DISTRICT 1, ONE COUNCILMEMBER FOR DISTRICT 3, AND ONE COUNCILMEMBER FOR DISTRICT 5 FOR A THREE YEAR TERM; PROVIDING FOR THE PUBLICATION AND POSTING OF NOTICE; PROVIDING FOR EARLY VOTING DATES, TIMES AND LOCATIONS; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, the City Charter requires that a councilmember for Districts 1, 3 and 5 shall be elected this year at a General Election to be held on May 7, 2022, under the Texas Election Code and the City's Home Rule Charter; and

**WHEREAS,** by law it becomes the ministerial duty of the City Council to call for such municipal election;

**NOW, THEREFORE, BE IT REMEMBERED THAT** on this the 14th day of February, 2022, at a duly convened meeting of the City Council of the City of Lancaster, Texas, a quorum being present, the Council issued the following order:

**IT IS HEREBY ORDERED** that a General Election be held in the City of Lancaster, Texas, on the 7<sup>th</sup> day of May, 2022, the same being the first Saturday of the month, 7:00 a.m. to 7:00 p.m., for the purpose of electing one councilmember for District 1 for a three (3) year term, one councilmember for District 3 for a three (3) year term, and one councilmember for District 5 for a three (3) year term; and,

IT IS FURTHER ORDERED: That such general election shall be held as a Joint Election administered by the Dallas County Elections Administrator in accordance with the provisions of the Texas Election Code and a Joint Election Agreement; and,

None but legally qualified voters of District 1 shall be entitled to vote for the Councilmember for District 1; none but legally qualified voters of District 3 shall be entitled to vote for the Councilmember for District 3; and none but legally qualified voters of District 5 shall be entitled to vote for the Councilmember for District 5; and,

The candidate for each such office receiving a majority of all votes cast for all candidates for such office shall be elected to serve such term or until his or her successor is duly elected and qualified; and,

In the event any candidate for any one of said offices fails to receive a majority of all votes cast for all the candidates for such office, a run-off election shall be held. If a run-off election becomes necessary, the run-off election shall be held on Saturday, June 4, 2022. The Dallas County Elections Administrator will conduct the run-off election; and.

A Presiding Election Judge and an Alternate Presiding Election Judge shall be appointed in accordance with the Joint Election Agreement; and,

Notice of said election shall be published once in the official newspaper of the City not earlier than April 7, 2022, the 30<sup>th</sup> day before Election Day, and not later than April 27, 2022, the 10<sup>th</sup> day before Election Day. Such notice shall also be posted on the Bulletin Board used to publish notice of City Council Meetings not later than April 16, 2022, the last business day prior to the 21<sup>st</sup> day before Election Day; and,

A copy of the published notice that contains the name of the newspaper and the date of publication shall be retained as a record of such notice, and the person posting the notice shall make a record at the time of posting stating the date and place of posting and deliver a copy of said notice posted to the Mayor of the City of Lancaster after the posting is made; and,

## **EARLY VOTING**

Michael Scarpello, Dallas County Elections Administrator, is the appointed early voting clerk in compliance with Section 271.006 of the Texas Election Code. Other deputy early voting clerks will be appointed as needed to process early voting mail and to conduct early voting at the branch locations.

Early voting by personal appearance will be conducted at the main and branch locations beginning Monday, April 25, 2022 through Friday, April 29, 2022, between 8:00 a.m. to 5:00 p.m.; Saturday, April 30, 2022, between 8:00 a.m. to 5:00 p.m.; Sunday, May 1, 2022, between 1:00 p.m. to 6:00 p.m.; and Monday, May 2, 2022 through Tuesday, May 3, 2022, between 7:00 a.m. to 7:00 p.m.; and,

Any qualified voter of Lancaster may vote early for the Joint Election by personal appearance at either the main early voting location or at any Dallas County Branch Early Voting location;

MAIN EARLY VOTING POLLING PLACE: Dallas County Records Building

## **BRANCH EARLY VOTING POLLING PLACES:**

Branch early voting for the joint election to be held on April 25, 2022, will be conducted at various branch early voting polling locations including the Lancaster Veterans Memorial Library at 1600 Veterans Memorial Parkway, Lancaster, Texas 75134. A list of all Dallas County Early Voting Polling locations is available at: <a href="https://www.dallascountyvotes.org">www.dallascountyvotes.org</a>.

#### **EARLY VOTING BY MAIL**

Application for a ballot by mail shall be mailed to: Michael Scarpello - Early Voting Clerk Office of the Elections Department 1520 Round Table Drive Dallas, Texas 75247

Application for ballot by mail must be received no later than the close of business on April 26, 2021; and,

## **BRANCH ELECTION DAY VOTING POLLING PLACES:**

Branch voting for the joint election to be held on May 7, 2022, will be conducted at various branch voting polling locations. A list of all Dallas County Voting Polling locations is available at <a href="https://www.dallascountyvotes.org">www.dallascountyvotes.org</a>.

The City Secretary shall present such returns to the City Council for the canvassing of said elections; and,

The canvass of said election returns for the election of officers shall be conducted by the City Council not earlier than the 3rd day nor later than the 11th day after the election.

ATTEST:	APPROVED:
Sorangel O. Arenas, City Secretary	Clyde C. Hairston, Mayor
APPROVED AS TO FORM:	
David T. Ritter, City Attorney	

## RESOLUCIÓN NO.

RESOLUCIÓN DEL CONSEJO MUNICIPAL DE LA CIUDAD DE LANCASTER, TEXAS, QUE ORDENA UNA ELECCIÓN GENERAL QUE SE CELEBRARA EL 7 de Mayo DE 2022, PARA LA ELECCIÓN DE UN CONCEJO DE DISTRITO 1, UN CONCEJO DE DISTRITO 3, Y UN CONCEJO DE DISTRITO 5 PARA UN TÉRMINO DE TRES AÑOS; QUE CONTEMPLA LA PUBLICACIÓN Y PUBLICACIÓN DEL AVISO, LA PRESTACIÓN PARA VOTACIÓN TEMPRANA FECHAS, HORAS Y LUGARES; Y PROPORCIONAR UNA FECHA DE VIGENCIA.

**CONSIDERANDO,** que la Carta exige que los concejales de la ciudad para los distritos 1, 3 y 5 serán elegidos este año en una elección general que se celebrará el 7 de Mayo de 2022, en el marco del Código Electoral de Texas y

**CONSIDERANDO**, que, por ley se convierte en el deber ministerial del Consejo de la Ciudad para solicitar tales elecciones municipals

**AHORA, POR LO TANTO**, debe recordarse que en este día el 14 de Febrero 2022, en una reunión debidamente convocada del Consejo Municipal de la Ciudad de Lancaster, Texas, el quórum está presente, el Consejo emitió el siguiente orden:

**SE ORDENA** que las elecciones generales se celebrarán en la ciudad de Lancaster, Texas, el día 7 de Mayo 2022, el mismo ser el primer sábado del mes, de 7:00 a.m. - 7:00 p.m. con el fin de elegir a un Concejal para el Distrito 1, para un período tres (3) años, un Concejal del distrito 3, para un período de tres (3) años, y un Concejal para el Distrito 5, para un período de tres (3) años y,

**SE ORDENA ADEMÁS**: Que las elecciones generales se llevará a cabo como una elección conjunta administrado por el Administrador de Elecciones del Condado de Dallas, de conformidad con las disposiciones del Código Electoral de Texas y un acuerdo electoral mixto y,

Ninguno, pero está legalmente calificado votantes del Distrito 1, tendrá derecho a votar por el concejal para el Distrito 1, ninguna formación jurídica, pero los votantes del Distrito 3, tendrá derecho a votar por el Concejal del distrito 3, ninguna formación jurídica, pero los votantes del Distrito 5 se derecho a votar por el concejal para el Distrito 5 y,

El candidato para cada oficina, que recibe la mayoría de los votos emitidos para todos los candidatos a cargos serán elegidos para servir a dicho término o hasta que su sucesor sea debidamente elegido y calificado y,

En el caso de que cualquier candidato a cualquiera de dichos oficios no recibe una mayoría de los votos emitidos a favor de todos los candidatos a dicho cargo, una vuelta de las elecciones se celebrarán. Si una segunda vuelta de las elecciones se hace necesario, la vuelta de las elecciones se celebrará el Sábado, 4 de Junio 2022. El Administrador de Elecciones del Condado de Dallas llevará a cabo la segunda vuelta electoral y,

Un Juez de Elección Presidente y un Suplente Elección Juez Presidente será nombrado de conformidad con el acuerdo electoral mixto y,

Aviso de dicha elección se publicará una vez en el periódico oficial de la ciudad no antes del 7 de Abril 2022, 30 días antes de las elecciones, ya más tardar el 27 de Abril 2022, el día 10 antes de las elecciones. Dicho aviso también se publicará en el tablón de anuncios utilizado para publicar un anuncio de reuniones del Concejo Municipal a más tardar el 16 de Abril 2022, el último día hábil antes del día 21 antes de las elecciones y,

Una copia del anuncio publicado que contenga el nombre del periódico y la fecha de publicación se mantiene como un registro de tal notificación, y la persona que envía el anuncio deberá hacer un registro en el momento del anuncio indicando la fecha y lugar de envío y entregar una copia de dicho aviso enviado a el Alcalde de la ciudad de Lancaster, después de que se haga la publicación y,

#### **VOTACIÓN TEMPRANA**

Michael Scarpello, Dallas County Elections Administrator, es el designado secretario de votación anticipada en cumplimiento con la Sección 271.006 del Código Electoral de Texas. Otros empleados de la votación anticipada Adjunto será designado como sea necesario para el proceso electrónico de votación temprana y llevar a cabo la votación anticipada en las sucursales.

La votación anticipada en persona se llevará a cabo a partir Lunes, 25 de Abril 2022 hasta el Viernes, 29 de Abril 2022, entre 8:00 a.m. - 5:00 p.m.; Sábado, 30 de Abril 2022, entre las 8:00 a.m. - 5:00 p.m., Domingo, 1 de Mayo 2020, entre las 1:00 p.m. - 6:00 p.m., y Lunes, 2 de Mayo 2022 hasta el Martes, 3 de Mayo 2022, entre las 7:00 a.m. - 7:00 p.m. y,

Cualquier votante calificado de Lancaster puede votar por adelantado para la elección conjunta de comparecencia personal en cualquier lugar principal de votación anticipada o en cualquier lugar del condado de Dallas lugar de votación temprana:

**LUGARE PRINCIPAL DE VOTACIÓN TEMPRANA ELECTORAL:** Dallas County Records Building

#### **LUGARES DE VOTACIÓN TEMPRANA:**

Lugares de votación temprana para la elección conjunta que se celebrará el 25 de Abril de 2022, se llevará a cabo en varios lugares de votación temprana, incluyendo la Biblioteca Lancaster Veterans Memorial Library at 1600 Veterans Memorial Parkway, Lancaster, Texas 75134. Una lista de todos los lugares del condado de Dallas votación temprana están disponible en:

www.dallascountyvotes.org.

## **VOTACIÓN TEMPRANA POR CORREO**

Solicitud para votar por correo deberán enviarse a: Michael Scarpello - Early Voting Clerk Office of the Elections Department 1520 Round Table Drive Dallas, Texas 75247

Solicitud de boleta por correo deberán recibirse a más tardar al cierre de actividades el 26 de Abril de 2022 y,

## LUGARES DE VOTACIÓN DEL DÍA DE LA ELECCIÓN DE SUCURSAL:

La votación de las sucursales para la elección conjunta que se llevará a cabo el 7 de Mayo de 2022 se llevará a cabo en varios lugares de votación de las sucursales. Una lista de todos los lugares de votación del condado de Dallas está disponible en <a href="https://www.dallascountyvotes.org">www.dallascountyvotes.org</a>.

El Secretario de la Ciudad deberá presentar estas declaraciones al Ayuntamiento para la captación de dicha elección y,

El Concejo Municipal llevará a cabo el escrutinio de dichos resultados electorales para la elección de funcionarios no antes del 3 día ni después del 11 día después de la elección.

ATTEST:	APPROVED:
Sorangel O. Arenas, City Secretary	Clyde C. Hairston, Mayor
APPROVED AS TO FORM:	

#### CITY OF LANCASTER CITY COUNCIL

# **City Council Regular Meeting**

3.

**Meeting Date:** 02/14/2022

Policy Statement: This request supports the City Council 2021-2022 Policy Agenda

**Goal(s):** Financially Sound Government

Professional and Committed City Workforce

**Submitted by:** Sorangel O. Arenas, City Secretary

#### **Agenda Caption:**

Consider a resolution approving the terms and conditions of a Joint Election Contract and Election Services Agreement with Dallas County Elections to conduct a municipal General Election for the election of one councilmember for District 1, one councilmember for District 3, and one councilmember for District 5 to be held on Saturday, May 7, 2022.

Considere una resolución aprobando los términos y condiciones del Contrato Elección Conjunta y servicios de la elección con las elecciones del condado de Dallas para llevar a cabo una elección general municipal para la elección de los distritos 1, 3 y 5 que se celebrará el Sábado, 7 de Mayo 2022.

#### **Background:**

On May 7, 2022, the City will conduct a municipal General Election to elect councilmembers for Districts 1, 3, and 5 for a three-year term.

#### **Operational Considerations:**

Dallas County Elections has the staff, equipment, and expertise to efficiently conduct elections. Participating with other municipalities and school districts helps defray the cost of the election and streamlines the voting process for residents.

# **Legal Considerations:**

The election services agreement is attached. The City Attorney has reviewed and approved the resolution as to form.

#### **Public Information Considerations:**

This item is being considered at a Regular Meeting of the City Council noticed in accordance with the Texas Open Meetings Act.

#### Fiscal Impact:

The City's final cost depends on how many entities contract with Dallas County for election services. Recent general municipal election costs are outlined below.

Election Year	Costs
May 2022	\$19,328.49
May 2021	\$0.00 (election canceled)
May 2020	\$10,153.88
May 2019	\$22,391.76

May 2018	\$30, 310.76	

Estimated costs for the City's election are calculated by Dallas County Elections based on various factors including shared polling locations and total number of governing entities that participate in the election. If a run-off election is required, the City will incur additional costs.

# **Options/Alternatives:**

- 1. City Council may approve the resolution, as presented.
- 2. City Council may deny the resolution and direct staff.

## **Recommendation:**

Staff recommends approval of the resolution contracting with Dallas County Elections for election services, as presented.

## **Attachments**

Resolution

**Election Contract** 

#### RESOLUTION NO.

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF LANCASTER, TEXAS, APPROVING THE TERMS AND CONDITIONS OF A JOINT ELECTION CONTRACT AND ELECTION SERVICES AGREEMENT WITH DALLAS COUNTY ELECTIONS TO CONDUCT A MUNICIPAL GENERAL ELECTION FOR THE ELECTION OF ONE COUNCILMEMBER FOR DISTRICT 1, ONE COUNCILMEMBER FOR DISTRICT 3 AND ONE COUNCILMEMBER FOR DISTRICT 5 TO BE HELD ON SATURDAY, MAY 7, 2022; AUTHORIZING THE CITY MANAGER TO EXECUTE SAID CONTRACT; AND PROVIDING AN EFFECTIVE DATE.

**WHEREAS**, the City of Lancaster will hold a municipal General Election for the election of a councilmember for Districts 1, 3, and 5 to be held on Saturday, May 7, 2022; and

WHEREAS, the City of Lancaster desires to participate with other municipalities and entities in Dallas County to help defray the costs of such elections and streamline the voting process for residents; and

**WHEREAS,** it is the desire of the City of Lancaster to secure election services from Dallas County Elections;

**NOW, THEREFORE, BE IT REMEMBERED THAT** on this the 14th day of February, 2022, at a duly convened meeting of the City Council of the City of Lancaster, Texas, a quorum being present, the Council issued the following order:

**SECTION 1.** That the Dallas County Joint Election Contract and Election Services Agreement attached hereto and incorporated herein by reference as Exhibit "1", having been reviewed by the City Council of the City of Lancaster, Texas, and found to be acceptable and in the best interest of the City and its citizens, be, and the same is hereby, in all things approved.

**SECTION 2**. That the City Manager is hereby authorized to execute the Joint Election Contract and Election Services Agreement with Dallas County Elections to conduct a general and special election.

**SECTION 3.** This resolution shall become effective immediately from and after its passage, as the law and charter in such cases provide.

**DULY PASSED** and approved by the City Council of the City of Lancaster, Texas on this the 14th day of February, 2022.

ATTEST:	APPROVED:	
Sorangel O. Arenas, City Secretary	Clyde C. Hairston, Mayor	

**APPROVED AS TO FORM:** 

David T. Ritter, City Attorney

#### **ELECTION SERVICES CONTRACT ("Election Services Contract") BETWEEN**

## DALLAS COUNTY ON BEHALF OF THE DALLAS COUNTY ELECTIONS ADMINISTRATOR AND

FOR THE CONDUCT OF A AMENDMENT, JOINT, TO BE HELD SATURDAY, TO BE ADMINISTERED BY **ELECTIONS** 

#### 1) STATUTORY AUTHORITY **ELECTION SERVICES**

- a) Michael Scarpello is **Elections** Administrator") ("County") and the **Dallas** County ("DCED"). As such, County's Voter Officer of Dallas authorized bν of Title 3 and Chapter Election Code upon Commissioners Court Services Contract or "Contract") with the **Participating** "Attachment F" of Contract. DCED acts Elections Elections Participating Political referred to individually
- b) The contracting Participating Political participating in this are listed on the face "Attachment F" of Contract and are each other in this

Town of Addison Town of Highland Park Town of Sunnyvale City of Balch Springs City of Combine City of Carrollton City of Cockrell Hill City of DeSoto City of Duncanville City of Farmers Branch City of Garland City of Grand Prairie City of Hutchins City of Irving City of Lancaster City of Lewisville **Dallas County Park Cities** Municipal Utilities District City of Rowlett City of Sachse City of Seagoville City of University Park City of Wilmer City of Wylie City of Cedar Hill Coppell ISD Carrollton-Farmers Branch ISD Cedar Hill ISD Dallas College Dallas ISD DeSoto ISD

Duncanville ISD

Garland ISD

**Grand Prairie ISD** 

Ferris ISD

**Highland Park ISD** 

Irving ISD

Mesquite ISD

Richardson ISD

CONSTITUTIONAL AND SPECIAL ELECTION MAY 7, 2022 THE DALLAS COUNTY **DEPARTMENT** 

# FOR AND PARTIES TO THIS CONTRACT

the duly appointed County Administrator ("Elections Dallas County, Texas Department Head of the Elections Department Michael Scarpello is the Registrar and the Election County, Texas and Subchapter D of Chapter 31 271 of Title 16 of the Texas approval of the Dallas County to enter into this Election ("Election Services Contract" the contracting authorities of Political Subdivisions listed in this Election Services at the direction of the Administrator. The County Administrator, DCED, and the Subdivisions together may be collectively as "Parties" or "Party."

authorities of the Subdivisions that are Election Services Contract page of this agreement and in this Election Services hereby participating with Constitutional Amendment,

as

Joint, and Special Election to be held in Dallas County, Texas on Saturday, May 7th, 2022 under Chapter 271 of Title 16 of the Texas Election Code ("Joint Election"); and are hereby contracting with the Elections Administrator of Dallas County, Texas to perform the election services set forth in this Election Services Contract under Subchapter D of Chapter 31 of Title 3 of the Texas Election Code. The Participating Political Subdivisions acknowledge that they are participating in this Joint Election with each other to the extent that they have candidates and/or propositions on the ballot in this Joint Election. The terms and conditions of this Elections Services Contract also apply to any run-off election or re-count related to this Joint Election, unless otherwise agreed in writing.

- c) The Elections Administrator will coordinate, supervise, and handle all aspects of administering this Joint Election in accordance with the provisions of the Texas Election Code and as outlined in this Election Services Contract. Each contracting authority of each Participating Political Subdivision will pay its share of the Election Costs to the Elections Administrator for the equipment, supplies, services, and administrative costs outlined in this Election Services Contract. The Elections Administrator will administer the election; however, each Participating Political Subdivision will be responsible for the duties directly administered by the Participating Political Subdivision. Pursuant to Texas Election Code §§ 31.093, and 31.098, the Elections Administrator may enter into a contract to furnish the election services requested within this Election Services Contract.
- d) If applicable and in the event a runoff election is necessary, the date of the runoff for this Joint election would be **June 18, 2022**. This Elections Services Contract and its terms will be automatically extended to cover the Joint Runoff Election, unless a Participating Political Subdivision states in writing **on or before May 20, 2022** that it does not wish to participate in a joint runoff election contemplated herein. DCED will provide each Participating Political Subdivision to which this Section 1(d) applies an estimated cost required to be deposited into a special and separate Joint Runoff Election account. The funds must be deposited within seven (7) days after DCED provides uncertified results.
- 2) **ATTACHMENTS** The following attachments are hereby incorporated into this Election Services Contract as if set forth herein in their entirety. The Participating Political Subdivisions acknowledge that the following attachments are subject to reasonable changes by the Dallas County Elections Administrator before, during, and after Election Day and any runoff election(s), if any runoff election(s) are required by law to be held.
  - a) "Attachment A" is an itemized list of the estimated election expenses for this Joint Election and the amounts that each Participating Political Subdivision must deposit with the Dallas County Elections Department. It also includes the Deposit Detail for each entity. The Elections Administrator will amend "Attachment A" to reflect the changing estimates of election expenses that are caused by changing circumstances and by the withdrawal of Participating Political Subdivision(s), if any, from this Election Services Contract.
  - b) "Attachment B" is a list of the early voting polling places for this Joint Election. ("early voting vote center(s), or "early voting polling place(s)"

- c) "Attachment C" is a list of the Election Day Countywide polling places ("vote center(s)") for this Joint Election.
- d) "Attachment D" is a list of the people that the Dallas County Elections Administrator will appoint as deputy early voting clerks for this Joint Election.
- e) "Attachment E" is a list of the presiding election judges and alternate election judges for Election Day for this Joint Election.
- f) "Attachment F" is a list of the Participating Political Subdivisions that will be holding elections in Dallas County election precincts and sub-precincts and the number of registered voters in each of those election precincts or partial election precincts. "Attachment F" will be amended if any of the Participating Political Subdivisions withdraw from this Election Services Contract. "Attachment F" will be amended to reflect the number of registered voters in each election precinct and sub-precinct as of the statutory deadline of April 7, 2022 for voters to submit applications to register to vote or changes of address in this Joint Election.
- g) "Attachment G" is a list of the Participating Political Subdivisions & Ballot Details
- h) "Attachment H" will contain, for each Participating Political Subdivision, the full name of the person serving as a point of contact, the physical address, the mailing address, a facsimile number, and an email address. "Attachment H" will be amended if any of the Participating Political Subdivisions withdraw from this Election Services Contract.
- i) Within five (5) business days after any of the foregoing attachments are amended by the Elections Administrator, the Elections Administrator will send each Participating Political Subdivision an amended version of the amended attachment by email to the email address provided by each Participating Political Subdivision in "Attachment F."

#### 3) **LEGAL DOCUMENTS**

- a) Each Participating Political Subdivision will prepare, adopt, and publish all legally required election orders, resolutions, notices, and other documents that are required by, or of, their governing bodies. Each Participating Political Subdivision must send the Elections Administrator a copy of any election order, resolution, or notice related to this Joint Election within three (3) business days of publishing, adopting, or ordering it. Such documents can be sent to the attention of: Michael Scarpello, Elections Administrator at 1520 Round Table Drive, Dallas, Texas 75247; or, emailed to DCECommunications@dallascounty.org, with a copy sent to Michael.Scarpello@dallascounty.org on all communications related to legal documents and questions regarding this election.
- Each Participating Political Subdivision is responsible for having its own election orders, resolutions, notices, or official ballot wording translated into the Spanish and Vietnamese languages.

# 4) **VOTING SYSTEMS**

- a) Each Participating Political Subdivision agrees that, during this Joint Election, voters will cast their ballots on the following voting systems, that are approved by the Texas Secretary of State in accordance with the Texas Election Code and the Texas Administrative Code: the ES&S ExpressVote Universal Voting System Ballot Marking Devices ("BMD(s)"), and the ES&S DS200 Digital Vote Center Scanner ("Tabulators"). Each of these systems are accessible to voters with physical disabilities. **On March 23, 2022, beginning at 10:00 A.M.**, until completed, at the County Elections Department at 1520 Round Table Drive, Dallas, Texas 75247, the Elections Administrator will test the BMDs and Tabulators used for counting ballots at the central counting station. At least 48 hours before the date and hour of each test, the Elections Administrator will publish a newspaper notice with the date, hour, and place of the testing.
- b) The Elections Administrator will provide Electronic Poll Books, BMDs, Tabulators, and any other necessary equipment for this Joint Election. For Early Voting and on Election Day, the Elections Administrator will allocate voting equipment to the vote centers in amounts reasonably sufficient for the anticipated turnout of voters.
- c) The itemized list of the estimated election expenses for this Joint Election are in "Attachment A," which includes, but may not be limited to the number of Electronic Poll Books, BMDs, Tabulators, and any other necessary equipment.

#### 5) POLLING PLACES/VOTE CENTERS

- a) The Elections Administrator will select and arrange for the use of and payment for all of the early voting vote centers listed in "Attachment B" and the Election Day vote centers listed in "Attachment C". Early voting polling places and vote centers identified in Attachments "B" and "C" cannot be changed by a Participating Political Subdivision, but the Elections Administrator may consider changes requested by a Participating Political Subdivision. Any changes to vote centers are subject to the procedures outlined in Section 43.007 of the Texas Election Code. The Elections Administrator will finalize the vote centers as soon as possible before this joint election.
- b) Whenever possible, previously used vote centers that voters are accustomed to using will be used in this Joint Election; however, the Participating Political Subdivisions acknowledge that sometimes previously used vote centers are not available or appropriate for every election. Accessibility under the Americans with Disabilities Act is an important consideration for all vote centers in this Joint Election.
- c) In accordance with Section 43.007(o) of the Texas Election Code, the Elections Administrator will post a notice at each vote center of the four nearest vote centers by driving distance. The Participating Political Subdivisions shall be responsible for any notices required under Section 43.062 of the Texas Election Code.
- 6) PRESIDING ELECTION JUDGES, ALTERNATE PRESIDING ELECTION JUDGES, ELECTION CLERKS, AND OTHER ELECTION DAY PERSONNEL

a) In accordance with Sections 32.002 and 32.005 of the Texas Election Code, the Parties are responsible for the appointment of the presiding election judges and alternate election judges listed in "Attachment E" for each vote center listed in "Attachment C" subject to the eligibility requirement found in the Texas Election Code Subchapter C, Chapter 32 and Subchapter A, Chapter 83. The Parties acknowledge that approval of this Election Services Contract by the Participating Political Subdivisions shall constitute approval and appointment of the Judges and Alternate Judges listed in "Attachment E" by the Participating Political Subdivisions. The Elections Administrator will be responsible for the administration of the election judges listed in "Attachment E".

# b) [This provision is intentionally deleted].

- c) If a person appointed as a presiding election judge or alternate election judge becomes ineligible to serve as such in this Joint Election, then the Election Administrator will name a replacement presiding election judge or alternate election judge, amend "Attachment E" accordingly, and send each Participating Political Subdivision the amended "Attachment E" by email within five (5) business days after naming a replacement presiding judge or alternate presiding judge.
- d) If a person is unable or unwilling to serve as a presiding election judge or an alternate election judge, then the Elections Administrator will name a replacement presiding election judge or alternate presiding judge, and send each Participating Political Subdivision the amended "Attachment E" by email within five (5) business days after naming a replacement presiding judge or alternate presiding judge.
- e) The Elections Administrator will provide county training programs and applicable notice of such training programs, in keeping with Section 32.114 of the Texas Election Code, for all of the presiding election judges, alternate election judges, and election clerks for this Joint Election. Pursuant to Section 32.114(b), the training programs will be open to the public free of charge.
- f) To serve in this Joint Election, each presiding election judge and alternate election judge must have attended either an online or in-person training class which includes information regarding recent law changes, court rulings, Voter ID laws, Poll Watcher rules, Election Equipment, election procedures, and COVID-19 safety procedures. New judges and election clerks must attend an in-person training class.
- g) The Elections Administrator will notify the Participating Political Subdivisions by email and post on the DCED's website the dates, times, and locations of training classes for both Early Voting and Election Day Workers.
- h) To comply with the Federal Voting Rights Act of 1965, as amended, vote centers are required to have interpreter assistance. If a presiding election judge of such a vote center is not bilingual and is unable to hire a bilingual election clerk, the Elections Administrator may recommend an individual to provide interpreter assistance. If the Elections Administrator is unable to recommend an individual to provide interpreter assistance for such a vote center, the Elections Administrator will notify the Participating Political Subdivision and request assistance in identifying an interpreter. In the event that a

bilingual election clerk is hired by the Elections Administrator for a vote center required to have interpreter assistance, the bilingual clerk will be paid according to a rate set by the Elections Administrator. The Elections Administrator will charge that expense to the funds deposited with the Dallas County Elections Department for the conduct of the elections listed in this Election Services Contract. A Participating Political Subdivision may pay more money to a bilingual clerk than the rate set by the Elections Administrator, however that expense will be borne by that Participating Political Subdivision individually and that extra expense will not be charged to the funds deposited with the Dallas County Elections Department for the conduct of the elections listed in this Election Services Contract.

- The Elections Administrator will notify all presiding election judges and alternate election judges about the eligibility requirements of Subchapter C of Chapter 32 of Title 3 of the Texas Election Code and Section 271.005 of the Texas Election Code. The Elections Administrator will take the necessary steps to ensure that all of the presiding election judges, and alternate election judges appointed to serve during this Joint Election are eligible to serve and qualified to serve in this Joint Election. Under Section 32.031 of the Texas Election Code, the presiding election judge for each vote center shall appoint the election clerks to assist the presiding election judge in the conduct of the election at the vote center served by the presiding election judge on Election Day.
- j) The presiding election judges are responsible for picking up election supplies at the time and place determined by the Elections Administrator, which will be set forth in the letter to the presiding election judges requesting service for this election. Payments for the presiding election judge will be specified in "Attachment A."
- k) Any Participating Political Subdivision electing to pay their election workers for attending a training class must bear that expense separately from the funds deposited into this Joint Election account.
- The Elections Administrator will employ and or contract for other personnel necessary for the proper administration of the election, including such part-time help as is necessary to prepare for the election, to ensure the timely delivery of services, supplies, assistance, and equipment, during the period of Early Voting and on Election Day, and for the efficient tabulation of ballots at the central counting station.

# 7) SUPPLIES AND PRINTING

- a) The Elections Administrator will obtain and distribute all of the election supplies and election printing necessary for this Joint Election, including, but not limited to, all forms, signs, and other materials used by the presiding election judges and clerks at the vote centers.
- b) The Elections Administrator will provide maps, if necessary, instructions, and other information that the presiding election judges need to conduct this Joint Election.
- c) Each Participating Political Subdivision must deliver a list to the Elections Administrator of candidates and propositions for their elections. The list must be in English, Spanish, and

Vietnamese. The list must include the ballot positions for the candidates and the propositions. The list must include the correct spelling of each candidate's name and the precise wording of all the propositions. The Elections Administrator will email each Participating Political Subdivision a form for their use to create the required list. As soon as possible after each Participating Political Subdivision has determined its ballot positions for the candidates and propositions in its election, the Participating Political Subdivision must email the completed form to the Elections Administrator. The Elections Administrator will use the forms received from the Participating Political Subdivisions to create the ballot styles for this Joint Election. The Elections Administrator will deliver the proposed ballots to the Participating Political Subdivisions for approval. Each Participating Political Subdivision will be responsible for proofreading the proposed ballots and notifying the Elections Administrator of any corrections that are required for their particular ballots. The Elections Administrator is responsible for implementing the corrections made by the Participating Political Subdivisions to their ballots and then producing the ballots for this Joint Election.

#### 8) OPTICAL SCAN CARD BALLOTS

- a) The Elections Administrator will supply a sufficient number of ballots to assure that there will be more than enough ballots for the expected turnout for the Joint Election. The ballots will be allocated based on an analysis of voter turnout for comparable elections at each vote center.
- b) Ballot usage shall be monitored by the Elections Administrator on an hourly and daily basis during early voting and on Election Day and additional ballots will be allocated if necessary.

#### 9) **RETURNS OF ELECTIONS**

- a) The County and the Elections Administrator will establish a central counting station to receive and tabulate ballots cast in this Joint Election under Chapter 127 of Title 8 of the Texas Election Code. The Participating Political Subdivisions will designate the central counting station established by the County and Elections Administrator in accordance with Section 127.001(b) of the Texas Election Code.
- b) The County and the Elections Administrator hereby, in accordance with Sections 127.002, 127.003 and 127.005 of the Texas Election Code, appoint the following central counting station officials:

Central Count Station Manager: Michael Scarpello, Dallas County Elections

Administrator

Tabulation Supervisor: Danielle Grant, Central Count Station

Manager

Assistant Tabulation Supervisor: Angelica Munoz Central Count Station Lead

#### Clerk

The Parties hereby, in accordance with Sections 127.005 of the Texas Election Code, appoint the following central counting station officials:

Presiding Judge: Louis Bedford, Appointed by the Parties

Alternate Presiding Judge: Mike Slaton, Appointed by the Parties

The Parties acknowledge that approval of this Election Services Contract by the Participating Political Subdivisions shall constitute approval and appointment of the Presiding and Alternate Presiding Judge for the central counting station.

- c) The Central Count Station Manager or their representative will deliver timely, cumulative reports of the election results as vote centers are tabulated. The Central Count Station Manager will be responsible for releasing cumulative totals and vote center election returns from the election to the Participating Political Subdivisions, candidates, press, and the general public by the distribution of hard copies or electronic transmittals (where accessible). The Elections Administrator will operate an election result center to release election results in the Dallas County Elections Operations Facility, 1520 Round Table Dr., Dallas, Texas 75247.
- d) The Elections Administrator will link any Participating Political Subdivision's website to DCED's website. Participating Political Subdivisions that want such website linkage should deliver their website address to the Tabulation Supervisor at DCED.
- e) The Elections Administrator will prepare the unofficial canvass report after the results from all vote centers have been counted and will email a copy of the unofficial canvass to each Participating Political Subdivision as soon as possible after all returns, provisional ballots, and late overseas ballots have been tabulated, but no later than **May 18, 2022.** All Participating Political Subdivisions will be responsible for the official canvass of their respective elections.
- f) The Elections Administrator will be responsible for conducting the post-election manual recount, unless the Texas Secretary of State grants a waiver under Section 127.201 of the Texas Election Code. If no such waiver is given, the Elections Administrator will provide notice and copies of the recount to each Participating Political Subdivision and the Secretary of State's Office. Each Participating Political Subdivision must notify the Elections Administrator if such a waiver has been granted or denied as soon as possible, but no later than five (5) calendar days before Election Day.

#### **10) ELECTION EXPENSES**

a) The Participating Political Subdivisions agree to share the costs of administering this Joint Election as specified in "Attachment A." The Election Administrator will charge a general supervisory fee not to exceed ten (10%) percent of the total cost of this Joint Election as authorized by Section 31.100 of the Texas Election Code. In no event will the

ten (10%) percent general supervisory fee be refunded to any Participating Political Subdivision. If the ballot, candidates, or propositions supplied by the Participating Political Subdivision are changed after their initial programming and/or printing by the Elections Administrator due to a court order from a court of competent jurisdiction, the affected Participating Political Subdivision(s) agrees to pay all expenses associated with re-printing and re-programming the ballots pursuant to a court order including expenses for expedited services and "Attachment A" will be amended by the Election Administrator.

- b) Allocation of costs among the Participating Political Subdivisions will be according to a formula based on the total cost of the Joint Election multiplied by the Participating Political Subdivision's percentage of the total current, and active registered voters for the Joint Election ("Election Costs"). Any Participating Political Subdivision that requests additional vote centers, personnel, or equipment that exceeds the Election Costs will be billed directly for any excess expenditures (e.g. supplies, equipment, personnel, etc.). The cost of any special request from a Participating Political Subdivision, which is not agreed upon by all Participating Political Subdivisions, will be borne by the Participating Political Subdivision making the special request.
- c) The expenses for early voting by mail and personal appearance will be paid by each Participating Political Subdivision as set forth in "Attachment A."
- d) The Elections Administrator will determine the final election expenses to the extent practicable within one hundred and eighty (180) business days after the final canvass of this Joint Election or the runoff election, if any. The Elections Administrator will provide each Participating Political Subdivision with a final, written accounting of all money that was deposited into, and payments that were made from, the Joint Election account(s) maintained by the Dallas County Elections Department for this Joint Election and the runoff election, if any.
- e) If the Elections Administrator requires additional money to perform their obligations under this Election Services Contract, then the Elections Administrator will bill each Participating Political Subdivision using the same method used to determine each Participating Political Subdivision's required deposit in "Attachment A" of this Election Services Contract ("Final Bill"). The Participating Political Subdivision shall pay the Final Bill within thirty (30) days of receipt except for any amount the Participating Political Subdivision files a timely good faith dispute under Section 17 of this Election Services Contract. After all of the expenses of this Joint Election are paid and disputes, if any, resolved, any monies that remain in the account maintained by the Dallas County Elections Department for this Election Services Contract will be refunded to the Participating Political Subdivisions (the "Refund") as soon as practicable.

#### 11) DEPOSIT OF FUNDS

a) Attachment A: Cost Audit details the cost and expenses anticipated for this election;

Participating Political Subdivisions will initially receive an estimate cost audit. The Final Bill will be distributed as soon as all cost and expenses for the election can be determined. Each Participating Political Subdivision hereby agrees to deposit with the Dallas County Elections Department one hundred (100%) percent of the full balance of money listed for their entity in "Attachment A: Deposit of Funds Detail" of this Election Services Contract by the due date of (on or before) February 18, 2022. The Dallas County Elections Department will place the money deposited by the Participating Political Subdivisions in a Joint Election account.

- b) The deposit of funds by each Participating Political Subdivision is an express condition precedent to the participation of each Participating Political Subdivision in this Election Services Contract. A Participating Political Subdivision may seek an extension from the Elections Administrator as to the due date for the deposit of funds. Such an extension must be sought in writing and prior to due date for such deposit by the Participating Political Subdivision. Any decision(s) made by the Elections Administrator will be provided in writing to the Participating Political Subdivision. The Elections Administrator, however, shall not be required to grant an extension for the deposit of funds by a Participating Political Subdivision. For any Participating Political Subdivision that fails to deposit the total amounts specified in "Attachment A" by the dates specified in this Election Services Contract or any extension granted by the Elections Administrator, the Elections Administrator will be relieved from the responsibility to perform under this Election Services Contract for such Participating Political Subdivision.
- c) The Elections Administrator will only draw money from this Joint Election account to pay for election expenses that are included in "Attachment A" to this Election Services Contract and for other expenses that the Participating Political Subdivisions agree to in writing.
- d) If a Participating Political Subdivision withdraws completely from this Joint Election by March 4, 2022, or by March 11, 2022 for any special election, then the Elections Administrator will refund (as soon as practicable) that Participating Political Subdivision's deposit, less any money already expended before the withdrawal and less the general supervisory fee authorized by Section 31.100 of the Texas Election Code. In the event of a partial withdrawal from this Joint Election, deposits will not be refunded to the Participating Political Subdivisions.
- e) The Elections Administrator will not make partial refunds to a Participating Political Subdivision if any candidate(s) or propositions do not appear on the ballot for that Participating Political Subdivision.
- f) <u>Deposits should be made out to Dallas County Elections Department and delivered within</u> the mandatory time frame to:

# Michael Scarpello Dallas County Elections Administrator 1520 Round Table Drive Dallas, Texas 75247

In the "memo" section of check place Election Escrow Account: 91474

## 12) RECORDS OF THE ELECTION

- a) The Elections Administrator is hereby appointed the general custodian of the voted ballots and all election records of this Joint Election to the extent authorized by Sections 31.094, 31.095, 31.096, and 31.097 of the Texas Election Code.
- b) Access to the election records will be available to each Participating Political Subdivision as well as to the public in accordance with the Texas Public Information Act, Chapter 552, Government Code, at the Dallas County Elections Department, 1520 Round Table Drive, Dallas, Texas 75247 at any time during normal business hours. The Elections Administrator will ensure that the records are maintained in an orderly manner, so that records are clearly identifiable and retrievable per records storage container. However, access to election records that contain confidential information that must be redacted pursuant to federal or state law may be provided at the offices of the Civil Division of the Criminal District Attorney's Office of Dallas County, Texas at 500 Elm Street, Suite 6300, Dallas, Texas 75202.
- c) Pursuant to Section 66.058 of the Texas Election Code, the Elections Administrator will retain the precinct election records that are distributed to the Elections Administrator at the Elections Administrator's main offices and Elections Warehouse for sixty (60) days after the date of this Joint Election. Sixty (60) days after the date of this Joint Election, the Elections Administrator may arrange for transport of this precinct election records to the Dallas County Record Storage facility. If so, the precinct election records will then become the responsibility of Dallas County Record Storage for the remainder of the twenty-two (22) month preservation period. If the Elections Administrator does not transport the precinct election records to the Dallas County Records Storage facility, then the precinct election records will remain the responsibility of the Elections Administrator for the remainder of the twenty-two (22) month preservation period. Dallas County Record Storage will be responsible for the destruction of this Joint Election records after the preservation period. The Participating Political Subdivisions agree the Elections Administrator may destroy the records from this Joint Election after the twenty-two (22) month preservation period without further notice to the Participating Political Subdivisions, unless the events in Section 12 (d) occur.
- d) The Participating Political Subdivisions must notify the Elections Administrator in writing within three (3) business days after any official or employee of any Participating Political Subdivision becomes aware of any election contest in connection with this Joint Election. In accordance with Section 1.013 of the Texas Election Code, the election records must be preserved until any election contest is completed and a judgment, if any, becomes final. Also, the election records will be maintained by the Elections Administrator if there

- is an active criminal investigation, proceeding, or a pending request for public information, related to the election records until such investigation, proceeding, or request for public information is finally concluded.
- e) The Participating Political Subdivisions acknowledge and agree that the Elections Administrator reserves the right to intervene in any election contest or litigation in connection with this Joint Election in order to preserve any available remedies at law, and to preserve the Elections Administrator's obligations under this Contract and the Texas Election Code.
- f) If the Participating Political Subdivisions have changed their single member districts since their last election, the Subdivisions must submit new boundaries by **February 4, 2022**.
- g) The Elections Administrator will provide each Participating Political Subdivision records that indicate the jurisdictional boundaries of each Participating Political Subdivision by February 21, 2022. Each Participating Political Subdivision will have until February 25, 2022 to verify in writing that the jurisdictional boundaries provided by the Elections Administrator are correct.

#### 13) EARLY VOTING

- a) Under Sections 31.094 and 271.006 of the Texas Election Code, the Participating Political Subdivisions hereby appoint the Elections Administrator to be the early voting clerk for all of the political subdivisions participating in this Joint Election. The deputy early voting clerks that will be appointed by the Elections Administrator are listed in "Attachment D."
- b) [This provision is intentionally deleted]
- c) Any qualified voter for this Joint Election may vote early by personal appearance at the main early voting polling place or at one of the early voting branch polling places listed in Attachment B. Early voting will be conducted as follows:

Monday-Friday, April 25-29, 2022 from 8:00 a.m. to 5:00 p.m.

Saturday, April 30, 2022 from 8:00 a.m. to 5:00 p.m.

Sunday, May 1, 2022 from 12:00 p.m. to 6:00 p.m.

Monday-Tuesday, May 2-3, 2022 from 7:00 a.m. to 7:00 p.m.

- d) All requests for early voting ballots by mail that are received by a Participating Political Subdivision must be transported by runner on the day of receipt to the Dallas County Elections Department, Elections Operations Facility at 1520 Round Table Drive, Dallas, Texas 75247 for processing. Persons voting by mail must send their voted ballots to the Dallas County Elections Department.
- e) All early voting ballots will be prepared for counting by an Early Voting Ballot Board appointed under Subchapter A of Chapter 87 of the Texas Election Code. The Parties may submit one individual for consideration by the presiding judge to be appointed as a member of the Early Voting Ballot Board and will notify DCED of the individual's name,

telephone number, mailing address, and email address, if any, no later than **April 1, 2022**. The Parties agree to appoint **Chaka Terrell\_**as the presiding judge and **Patty Clapp** as alternate presiding judge of the Early Voting Ballot Board. In accordance with Section 87.002(c) of the Texas Election Code, the presiding judge will appoint at least one or more members to the Early Voting Ballot Board. A list of Early Voting Ballot Board members will be furnished to each Participating Political Subdivision by April 8, 2022.

- f) A signature verification committee will be appointed in accordance with Section 87.027 of the Texas Election Code. A list of the members of the signature verification committee will be furnished to each Participating Political Subdivision.
- g) The presiding judge of the Early Voting Ballot Board shall deliver notices of rejected ballots in compliance with Section 87.0431, Texas Election Code.

### 14) CRIMINAL BACKGROUND CHECKS

The Elections Administrator, their agent or assignee will conduct a criminal background check (in accordance with statutory requirements) of any person who is expected to or scheduled to serve or work in this Joint Election at either the Elections Department or an Early Voting location. Any person that does not satisfactorily pass the criminal background check will be ineligible to serve or work in this Joint Election. Failure to obtain a criminal background check does not release the participating entity's obligation to pay for service rendered in good faith. Additionally, DCED will conduct a review of all poll workers against the Texas Public Sex Offender Registry and provide the results to the Parties.

#### **15) ELECTION REPORTS**

During the early voting period for this Joint Election, the Elections Administrator will deliver daily reports to each Participating Political Subdivision of the Early Voting Location Turnout Totals and Early Voting Roster. The day after the early voting period ends, the Elections Administrator will deliver to each Participating Political Subdivision, a Daily Early Voting Roster by vote center report that includes the entire Early Voting period. Pursuant to the Texas Election Code Section 87.121, the Elections Administrator will deliver these election reports by providing a link to a website posting.

#### 16) WITHDRAWAL FROM CONTRACT

- a) No deposits will be refunded after the deadline to withdraw from this Election Services Contract has passed.
- b) In order to withdraw from this Election Services Contract, a Participating Political Subdivision must deliver to the Elections Administrator any certifications and declarations that are required under Subchapter C or Subchapter D of Chapter 2 of Title 1 of the Texas Election Code.
- c) The Elections Administrator will bill any Participating Political Subdivision that withdraws from this Election Services Contract for any expenses incurred prior to the Elections Administrator receiving copies of the certifications and declarations that are required under Subchapter C or Subchapter D of Chapter 2 of Title 1 of the Texas Election Code.

- d) If there are any withdrawals from this Joint Election, within ten (10) business days after the deadline for Participating Political Subdivisions to make declarations under Subchapter C or Subchapter D of Chapter 2 of Title 1 of the Texas Election Code, said deadline being March 4, 2022, or by March 11, 2022 for any special election, the Elections Administrator will amend the attachments to this Election Services Contract as appropriate and provide updated copies of the amended attachments to all of the remaining Participating Political Subdivisions.
- e) The general supervisory fee authorized by Section 31.100 of the Texas Election Code will not be refunded.

#### 17) AUDITING AND PROHIBITION ON WITHHOLDING OF DEPOSITS

- a) The Dallas County Auditor will conduct a review of the deposits and expenditures related to this Election Services Contract before the Final Bill or Refund is submitted to the Participating Political Subdivisions. Refunds will be submitted as soon as practicable.
- b) The Participating Political Subdivisions may request a financial audit of the Final Bill or Refund or dispute the Final Bill or Refund under this Section, if: 1) the Final Bill exceeds ten percent (10%) of the amount of the Participating Political Subdivision's initial deposit as required in "Attachment A" to this Election Services Contract; or 2) the accounting accompanying the Refund is ten percent (10%) less than the amount the Participating Political Subdivision determines, should be refunded, after its good faith review. The request for a financial audit or dispute must be done in accordance with Section 17 (d) below.
- c) Should the events in Section 17 (b) occur, in lieu of an audit or dispute, the Participating Political Subdivision may make a request that the Elections Administrator ask the Dallas County Auditor to review the cost allocation methodology for the Participating Political Subdivision's Final Bill or Refund ("Review Request"). Participating Political Subdivisions must submit a Review Request to the Elections Administrator within five (5) business days of receipt of the Final Bill or the Refund, whichever is later. The Review Request must set forth, in detail, the basis for any challenge to the Final Bill or Refund. Corrections to the Participating Political Subdivision's Final Bill or the Refund, based on a Review Request, will be determined at the sole discretion of the Elections Administrator. A Review Request does not extend the timeframe in Section 17(d).
- d) Should the circumstances giving rise to an audit or dispute in Section 17 (b) occur, the Participating Political Subdivision may send a formal written notice of dispute of the Final Bill or Refund ("Dispute Notice") to the Elections Administrator. This Dispute Notice must be received by the Elections Administrator no later than thirty (30) calendar days from the date the Participating Political Subdivision receives the Final Bill or Refund. This Dispute Notice must provide: 1) an itemization of the disputed charge(s) by the Participating Political Subdivision; 2) the basis for the dispute; 3) the methodology showing how the Participating Political Subdivision arrived at the amount disputed; and 4) documentation in support thereof. The Participating Political Subdivision will have no right to withhold any undisputed amounts set forth in this Election Services Contract or

- reflected in the Final Bill. Payment of undisputed amounts in the Final Bill must be made by the Participating Political Subdivision as set forth in Section 10 (e) of this Election Services Contract.
- e) Failure of the Participating Political Subdivision to submit a timely Dispute Notice, as set forth in Section 17(d), shall waive any and all disputes, claims, or challenges to the Final Bill or Refund by the Participating Political Subdivision. The entire amount of the Participating Political Subdivision's Final Bill shall be due immediately; or, any estimated refund amounts will become final.
- If the Participating Political Subdivision files a timely Dispute Notice in compliance with Section 17(d), the Participating Political Subdivision will have the right to conduct a good faith financial audit ("Financial Audit") for the deposits and expenditures related to this Elections Services Contract. In conducting the Financial Audit, the Participating Political Subdivision will have no greater right to demand access to or copies of the County's governmental or election records than those rights specified in the Texas Election Code and the Texas Public Information Act. The cost of any Financial Audit conducted by the Participating Political Subdivision shall be borne by the requesting Participating Political Subdivision and may not be paid for with funds deposited with the Dallas County Elections Department under this Election Services Contract. Further, the Participating Political Subdivision conducting the Financial Audit shall pay the Elections Administrator the reasonable costs for time expended and copies provided in order to perform the Financial Audit. If the Financial Audit identifies overcharges by the Elections Administrator of more than ten percent (10%) of the initial deposit amount required by "Attachment A", the Elections Administrator will review and assess the findings of the Financial Audit and will negotiate, in good faith, to resolve any disputes for overcharges with the Participating Political Subdivision. The Elections Administrator shall not be bound by the findings or recommendations of the Participating Political Subdivision's Financial Audit. The financial records will be retained at the County Election Administrator's office until the conclusion of the Financial Audit and resolution of all outstanding audit disputes.
- g) In the event the representatives of the Participating Political Subdivision and the Elections Administrator cannot agree on the amount of the disputed Final Bill as set forth in this Section, then the Parties may agree to submit to non-binding mediation. If mediation is acceptable to both parties to resolve a dispute concerning the disputed Final Bill, the Parties will agree to use a mutually agreed-upon mediator. Unless the Parties come to a written agreement at mediation, the mediation will not constitute a final and binding resolution of the dispute.
- h) The Participating Political Subdivision acknowledges that the practical effect of the Participating Political Subdivision withholding undisputed funds that are required under this Election Services Contract would result in breach of this Elections Services Contract and the other Participating Political Subdivisions' taxpayers subsidizing the withholding Participating Political Subdivision's election expenses.

#### 18) NOTICE

Any addendum to, change/modification of, clarification of, and/or withdrawal from this contract requires written notice to and written approval by Dallas County. Whenever this Election Services Contract requires any consent, approval, notice, request, or demand, it must be in writing to be effective and must be delivered to the party intended to receive it as shown below:

#### Address for notice to the Elections Administrator:

Michael Scarpello
Dallas County Elections Administrator
1520 Round Table Drive
Dallas, Texas 75247
(214) 819-6334 telephone
(214) 819-6301 facsimile

and, to the physical addresses and facsimile numbers for notice to the Participating Political Subdivisions are in "Attachment F" to this Election Services Contract. Any written notice required under this Contract shall be deemed to have been given when personally delivered, or if mailed, seventy-two (72) hours after deposit of the same in the United States Mail, postage prepaid, certified, or registered, return receipt requested, properly addressed to the contact person shown at the respective addresses set forth above, or at such other addresses as shall be specified by written notice delivered in accordance this notice section.

#### 19) LIABILITY FOR NEGLIGENCE

ALL PARTIES TO THIS ELECTION SERVICES CONTRACT AGREE TO BE RESPONSIBLE, IN ACCORDANCE WITH APPLICABLE STATE OR FEDERAL LAW, EACH FOR THEIR OWN NEGLIGENT ACTS OR OMISSIONS, OR OTHER TORTIOUS CONDUCT IN THE COURSE OF PERFORMANCE OF THIS ELECTION SERVICES CONTRACT WITHOUT WAIVING ANY SOVEREIGN IMMUNITY, GOVERNMENTAL IMMUNITY, STATUTORY IMMUNITY, OR OTHER DEFENSES AVAILABLE TO THE PARTIES UNDER FEDERAL OR STATE LAW. NOTHING IN THIS PARAGRAPH SHALL BE CONSTRUED TO CREATE OR GRANT ANY RIGHTS, CONTRACTUAL OR OTHERWISE, IN OR TO ANY THIRD PERSONS OR ENTITIES. ALL PARTIES AGREE THAT ANY SUCH LIABILITY OR DAMAGES OCCURRING DURING THE PERFORMANCE OF THIS ELECTION SERVICES CONTRACT CAUSED BY THE JOINT OR COMPARATIVE NEGLIGENCE OF THE PARTIES, OR THEIR EMPLOYEES, AGENTS OR OFFICERS WILL BE DETERMINED IN ACCORDANCE WITH COMPARATIVE RESPONSIBILITY LAWS OF TEXAS, BUT ONLY TO THE EXTENT SUCH LAWS ARE APPLICABLE TO THE PARTY.

TO THE EXTENT PERMITTED BY LAW, IF LEGAL ACTION IS FILED AGAINST A PARTY TO THIS ELECTION SERVICES CONTRACT, THAT PARTY SHALL BE SOLELY RESPONSIBLE FOR THEIR OWN RESPECTIVE COSTS AND DEFENSE OF THAT SUIT.

#### 20) CHOICE OF LAW

This Election Services Contract will be governed and interpreted by the laws of the State

of Texas.

### 21) VENUE AND JURISDICTION

The courts of the State of Texas and the United States of America that are physically located in Dallas, Dallas County, Texas are the exclusive jurisdiction and venue for any lawsuit, cause of action, temporary restraining order, temporary injunction, injunction, petition for extraordinary relief, mandamus, or any other legal proceeding or claim arising out of the performance of this Election Services Contract.

### 22) SEVERABILITY

If any term of this Election Services Contract is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remainder of the terms of this Election Services Contract will remain in full force and effect and will in no way be affected, impaired, or invalidated.

#### 23) ENTIRE CONTRACT

This Election Services Contract, including any exhibits or attachments, contains the entire agreement between the Elections Administrator and the Participating Political Subdivisions concerning the duties required by this Election Services Contract. The Elections Administrator of Dallas County, Texas and each Participating Political Subdivision hereby expressly warrant and represent that they are not relying on any promises or agreements that are not contained in this Election Services Contract concerning any of the terms in this Election Services Contract. Except otherwise specified in this Election Services Contract, no modification, amendment, novation, renewal, or other alteration of this Election Services Contract shall be effective unless mutually agreed upon in writing and executed by the Parties hereto.

#### 24) PLURALITY, GENDER, AND HEADINGS

In this Election Services Contract, words in the singular number include the plural, and those in the plural include the singular. Words of any gender also refer to any other gender. Headings in this Election Services Contract are terms of inclusion, not exclusion.

#### **25) RELATIONSHIP OF PARTIES**

The Participating Political Subdivisions, including their agents, or employees, are not an agent, servant, joint enterpriser, joint venturer, or employee of the County Elections Administrator, the County or DCED, and are responsible for their own acts, forbearance, negligence and deeds, and for those of their agents, or employees in conjunction with the performance of services covered under this Election Services Contract. The Participating Political Subdivisions represent that they have, or will secure at their own expense, all personnel and consultants required in performing the duties directly administered by the Participating Political Subdivision. Such personnel and consultants shall not be employees of or have any contractual relationship with the County, the County Elections Administrator, or DCED.

#### **26) FORCE MAJEURE**

No Party shall be in default or responsible for delays or failures in performance resulting from causes beyond its control. Such causes include but are not limited to acts of God, fire, storm, flood, earthquake, natural disaster, pandemic, epidemic, nuclear accident, strike, air traffic disruption, lockout, riot, freight embargo, public regulated utility, or governmental statutes, orders, or regulations superimposed after the fact. Any Party delayed by force majeure shall as soon as reasonably possible give the other Party written notice of the delay. The Party delayed shall use reasonable diligence to correct the cause of the delay, if correctable, and if the condition that caused the delay is corrected, the Party delayed shall immediately give the other Parties written notice thereof and shall resume performance under this Election Services Contract as soon as practicable. The date of delivery or of performance shall be extended for at least a minimum time period equal to the time lost by reason of the delay.

### 27) DEFAULT/CUMULATIVE RIGHTS/MITIGATION.

It is not a waiver of default if the non-defaulting Party fails to immediately declare a default or delays in taking any action. The rights and remedies provided by this Election Services Contract are cumulative, and no Party's use of any right or remedy will preclude or waive its right to any other remedy. These rights and remedies are in addition to any other rights the Parties may have by law, statute, ordinance or otherwise. All Parties have a duty to mitigate damages.

#### 28) CONTRA PROFERENTEM

The legal doctrine of contra proferentem will not apply to this Election Services Contract. Consequently, any ambiguity that may exist in this Election Services Contract will not be construed against the Party who drafted this Election Services Contract.

#### 29) ORDER OF PRECEDENCE

Any inconsistencies in this Election Services Contract will be resolved by reviewing and considering this Election Services Contract and Attachments A through G to this Election Services Contract together in context with each other.

#### **30) SIGNATORY WARRANTY**

Dallas County and the Elections Administrator of Dallas County, Texas and all of the contracting authorities of all of the Participating Political Subdivisions listed in "Attachment F" of this Election Services Contract represent that each has the full right, power and authority to enter into and perform this Election Services Contract in accordance with all of its terms and conditions, and that the execution and delivery of this Election Services Contract has been made by authorized representatives of the Participating Political Subdivisions to validly and legally bind the Participating Political Subdivisions to all terms, performances, and provisions set forth in this Election Services Contract.

#### 31) COUNTERPARTS.

This Election Services Contract may be executed in any number of counterparts with the

same effect as if all signatory parties had signed the same document. All counterparts will be construed together and will constitute one and the same instrument.

# [Signatures on following page]

WITNESS HEREOF, the	parties hereto have executed in tri	plicate originals this Election Services
Contract on this	day of	2022. ("Effective Date")
C		
DALLAS COUNTY:	- D.	
	9	
CLAY JENKINS		
DALLAS COUNTY JUDG	E	

**RECOMMENDED AND APPROVED:** 

**APPROVED AS TO FORM\*** 

MICHAEL SCARPELLO COUNTY ELECTIONS ADMINISTRATOR DALLAS COUNTY, TEXAS James R. Palomo
ASSISTANT DISTRICT ATTORNEY,
DISTRICT ATTORNEY
DALLAS COUNTY CRIMINAL ATTORNEY'S
OFFICE, CIVIL DIVISION

\*By law, the Criminal District Attorney's Office may only advise or approve contracts or legal documents on behalf of its clients. It may not advise or approve a contract or legal document on behalf of other parties. Our review of this document was conducted solely from the legal perspective of our client. Our approval of this document was offered solely for the benefit of our client. Other parties should not rely on this approval, and should seek review and approval by their own respective attorney(s).

ACCEPTED TO AND AGREED TO BY THE	:
APPROVED	10
	,
[INSERT NAME AND POSITION]	
× × O o.	



# Dallas County Elections Department 1520 Round Table Drive

Dallas. Texas 75247

May 7, 2022 Joint Election

### **ESTIMATED COST INVOICE**

#### **ENTITY ESTIMATE**

# **EXHIBIT - A**

**37** Entities

**47** EV Locations

**469 ED Vote Centers** 

#### **Subject to Change**

Registered Voter Split	TOTAL	COL
Total Number of Registered Voters	4,159,861	25,024
Cost Per Registered Voter (w/o ESF)	\$0.70	\$0.70
Total Cost	\$2,920,971.80	\$17,571.36
% of Units	100%	0.60%

	TOTAL COL
Election Total	\$2,920,971.80 \$17,571.36
Exceptional Cost	\$0.00 \$0.00
Election Services Fee (ESF)	\$194,782.03 \$1,757.14
Total Cost	\$3,115,753.83 \$19,328.49
Cost Per Registered Voter (w. ESF)	\$0.75 \$0.75
Amount of Deposit	\$0.00
(Overpaid)/Underpaid	\$3,115,753.83 \$19,328.49

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EXP. CODE	EARLY VOTING	UNITS	UNIT COST	ESTIMATED	COL
POSTAGE	EARLY COME	3.13	ONIT COST	ESTIMATED	COL
2180	Printing of Mail Ballots (AC)	10,000	\$0.45	\$4,500.00	\$27.07
2180	Mail Ballot Kits (AC)	10,000	\$3.25	\$32,500.00	\$195.51
2180	Mail Bad Mail Kits (AC)	3,000	\$3.20	\$9,600.00	\$57.75
2170	Postage Ballots Mailed	10,000	\$1.63	\$16,300.00	\$98.05
2170	Postage for Non-Returned Mailed Ballots	3,000 \$1.21		\$3,630.00	\$21.84
2170	Postage for Returned Mailed Ballots	7,000	\$1.21	\$8,470.00	\$50.95
2170	Postage Rejected / Incomplete Mail Ballots	56	\$1.62	\$90.72	\$0.55
<b>EQUIPMENT REN</b>					
7030	EV Furniture Rental			\$8,000.00	\$48.12
7040	EV Model DS200 (Tabulator/Scanner)	47	\$464.10	\$21,812.70	\$131.22
7040	EV ExpressVote Ballot Marking Device (ADA)	47	\$295.00	\$13,865.00	\$83.41
7040	EV EPB Printer	141	\$27.73	\$3,909.93	\$23.52
7040 7040	EV ExpressVote Booth	400 47	\$89.50 \$5.00	\$35,800.00 \$235.00	\$215.36 \$1.41
7050	EV Provisional Bags EV Van / Car Rental	47	Mini-Vans (Techs)	\$8,500.00	\$51.13
7211	Sprint/Frontier (Landline Charges)	Use of Service During	` '	\$6,000.00	\$36.09
7213	Cell Phones/Phone Lines/Internet access	Tech Regional Sites - Po		\$1,500.00	\$9.02
RENTAL BUILDING		reem Regionar Sites 10	linig Edeations	<b>\$1,300.00</b>	ψ3.0 <u>2</u>
7010	Building Rental	Various Location	ons	\$55,000.00	\$330.86
5590	Custodial Charges	Various Location		\$25,000.00	\$150.39
PERSONNEL					
1020	EV Election Department FT (OT Reg.)	Various		\$1,500.00	\$9.02
1050	EV Clerks (OT) 30 Hrs	169	\$24.06	\$122,003.14	\$733.92
1050	EV Election Department FT (OT)	Various		\$15,000.00	\$90.23
1050	EV Election Department FT - Central Count (OT)	3	Staffs	\$1,500.00	\$9.02
1050	EV Election Department FT - Warehouse (OT)	6	Staffs	\$9,500.00	\$57.15
1050	EV Election Department PT (OT)	Various		\$7,500.00	\$45.12
1050	EV Election Department PT - Warehouse (OT)	Various	Ć2F 40	\$2,500.00	\$15.04
1050 1050	EV Judges (OT) 30 Hrs EV Mail Clerks PT (OT)	47 Various	\$25.49	\$35,939.88 \$800.00	\$216.20 \$4.81
1050	EV Building Security (OT)	Various		\$1,500.00	\$9.02
1050	EV Techs (OT) 49 Hrs	7	\$24.68	\$9,000.00	\$54.14
1050	EV Training Trainers (OT)	5	\$27.54	\$6,500.00	\$39.10
1050	EV Ballot Board Committee (OT)	4	\$27.00	\$500.00	\$3.01
1050	EV Ballot Board Judge (OT)	12 days	\$27.00	\$500.00	\$3.01
1050	EV Signature Verification Committee (OT)	6	\$27.00	\$500.00	\$3.01
1050	EV Signature Verification Supervisor (OT)	12 days	\$27.00	\$500.00	\$3.01
1060	EV Ballot Board Committee (ST)	17	\$18.00	\$7,500.00	\$45.12
1060	EV Ballot Board Judge (ST)	12 days	\$18.00	\$1,500.00	\$9.02
1060	EV Central Count (ST)	4	Staffs	\$1,000.00	\$6.02
1060	EV Clerks (ST)	271	\$16.04	\$347,801.18	\$2,092.23
1060	EV Election Department PT (ST)	Various		\$15,000.00	\$90.23
1060	EV Election Department PT - Warehouse (ST)	Various	\$16.00	\$11,000.00	\$66.17
1060 1060	EV Judges (ST) EV Mail Clerks PT (ST)	47 Various	\$16.99	\$63,893.12 \$5,000.00	\$384.35 \$30.08
1060	EV Signature Verification Committee (ST)		\$18.00	\$3,000.00	\$30.08
1060	EV Signature Verification Supervisor (ST)	12 days	\$18.00	\$1,000.00	\$6.02
1060	EV Techs (ST)	7	\$16.45	\$10,000.00	\$60.16
1060	EV Training Trainers (ST)	6	\$18.36	\$13,000.00	\$78.20
1111	EV FICA	6.2%	·	\$5,563.87	\$33.47
1112	EV Medicare	1.45%		\$1,301.23	\$7.83
1113	EV PARS	1.3%		\$8,845.69	\$53.21
1150	EV Retirement Chargeback	13.93%		\$12,500.76	\$75.20
5590	EV Temp. Employees	Various Temp. Ag	encies	\$20,000.00	\$120.31
SUPPLY EXPENSE		1.0==	40		4
2180	Sample Ballots Hand Out for Voters 8.5x11in.	1,275	\$0.77	\$981.75	\$5.91
2180	Sample Ballots Large for Posting 11x17in.	1,038	\$0.748	\$776.42	\$4.67
2180 2880	Official ExpressVote Ballots 14"	29,000 Misc./Forms/Bir	\$0.13	\$3,625.00 \$2,500.00	\$21.81 \$15.04
2180	Supplies for Early Voting Judges Kits	47	\$80.00	\$2,500.00	\$15.04
SERVICE EXPENSE		4/	<b>γου.υυ</b>	\$3,700.00	٧٤.٥٤
2013	Legal Notice	Legal Notice		\$5,000.00	\$30.08
5590	ES&S EV Support	1	\$1,650.00	\$1,650.00	\$9.93
3333	outport	<u>*</u>	ψ=,000.00	Ç1,030.00	75.55

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5590	IT Services (QNET)			\$3,750.00	\$22.56
	PrintMailPro Services for EV Polling Location				
5590	Change Cards			\$5,000.00	\$30.08
PREPARATION AN	ND TRANSPORTATION OF VOTING EQUIPMENT				
2910	Equipment Delivery and Pickup Warehouse	94		\$7,350.00	\$44.21
MILEAGE / FUEL					
3095	Fuel		\$0.585	\$2,500.00	\$15.04
	EARLY VOTING TOTAL			\$1,034,755.39	\$6,224.66

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	EXP. CODE	Election Day	UNITS	UNIT COST	ESTIMATED	COL
Total	EQUIPMENT RENT	•				
Total   District   D	-				\$8.000.00	\$48.12
Total   CD   Express/vote Ballot Marking Device (ADA)   469   \$395.00   \$138,355.00   \$832		ED Model DS200 (Tabulator/Scanner)	469	\$464.10		\$1,309.37
TOPAD   CD   Express/Vote Booth   1,876   \$89.50   \$167,902.00   \$5,107.00   \$5,000   \$2,345.00   \$5,000   \$2,345.00   \$5,000   \$2,345.00   \$5,000   \$2,345.00   \$5,000   \$2,345.00   \$5,000   \$2,345.00   \$5,000   \$2,345.00   \$5,000   \$2,345.00   \$5,000   \$2,345.00   \$5,000   \$2,345.00   \$5,000   \$2,345.00   \$5,000   \$2,345.00   \$5,000   \$2,345.00   \$5,000   \$2,345.00   \$5,000   \$2,345.00   \$5,000   \$2,345.00   \$5,000   \$2,345.00   \$5,000   \$2,345.00   \$5,000   \$2,345.00   \$5,000   \$5,000   \$6			469	\$295.00		\$832.29
TOPA			1,876	\$27.73		\$312.94
TOM   ED Provisional Bage   469   \$5.00   \$2,345.00   \$3.14	7040	ED ExpressVote Booth	1,876	\$89.50	\$167,902.00	\$1,010.03
P050   ED Truck Rental/Van Bental   Runners / Regional Sites   \$1,000.00   \$50	7040	ED Election Supply Carts (ESC)	469	\$199.80	\$93,706.20	\$563.70
RETITAL BUILDINGS	7040	ED Provisional Bags	469	\$5.00	\$2,345.00	\$14.11
RENTAL BUILDINGS	7050	ED Truck Rental/Van Rental	Runners /Regiona	l Sites	\$10,000.00	\$60.16
	7213	Cell Phones/Phone Lines/Internet access	Tech Regional Sites - Po	lling Locations	\$1,500.00	\$9.02
SS99	RENTAL BUILDING	GS .				
PERSONNEL	7010	Location Rental	Various Locations		\$50,000.00	\$300.78
1020   ED County Employees (ST)   Various   \$700.00   \$4	5590	Custodial Charges	Various Locations		\$60,000.00	\$360.94
1020	PERSONNEL					
1020   ED Election Department FT (OT Reg.)   Various   \$2,000.00   \$32	1020	ED County Employees (ST)	Various		\$700.00	\$4.21
1020   ED Resh (ST)   S   S   S   S   S   S   S   S   S	1020	ED Sheriff Deputies (ST)	14	Various		\$42.11
1020   ED Techs (ST)   14 hrs   1,876   516,00   5420,224,00   52,527	1020	ED Election Department FT (OT Reg.)	Various		\$2,000.00	\$12.03
1020   ED Clerk (ST) 1.4 Hrs   1.876   \$15.00   \$420,224.00   \$2,527   \$1020   ED Louges Delivery (Can Money)   469   \$25.00   \$11,725.00   \$70   \$1020   ED Emergency Response (Judges & Clerks) (ST)   36   \$280.00   \$14,000.00   \$98   \$1020   ED Louges (ST) 1.4 Hrs   469   \$18.00   \$118.188.00   \$710   \$1020   ED Louges (ST) 1.4 Hrs   469   \$18.00   \$18.00   \$118.188.00   \$710   \$1020   ED Phone Bank (ST)   18   \$370.00   \$6,660.00   \$40   \$1020   ED Phone Bank (ST)   18   \$370.00   \$5,500.00   \$33   \$1020   ED Phone Bank (ST)   10   \$73   \$70						\$2.41
1020   ED Judges Delivery (Can Money)   469   \$25.00   \$11,725.00   \$57.00   \$59.00   \$11,725.00   \$59.00   \$11,725.00   \$59.00   \$12,000.00   \$59.00   \$10.00   \$1		` '		·		\$60.16
1020   ED Emergency Response (Judges & Clerks) (ST)   36   \$280.00   \$314,000.00   \$34     1020   ED Ploadges (ST) 14 Hrs   4699   \$18.00   \$518,00   \$5118,180.00   \$711		,	· · · · · · · · · · · · · · · · · · ·	<u> </u>	' ''	\$2,527.89
1020   ED Judges (ST) 14 Hrs   469   \$18.00   \$118,188.00   \$710     1020   ED Phone Bank (ST)   18   \$370.00   \$6,660.00   \$44     1020   ED Regional Site Support (ST)   22   \$20.00   \$5,500.00   \$33     1020   ED Traffic Control Officers (ST)   10   Various   \$6,000.00   \$35     1020   ED Traffic Control Officers (ST)   10   Various   \$5,500.00   \$31     1020   ED Tabulation (ST)   37   Various   \$5,500.00   \$21     1020   ED Training Trainer (ST)   8   Various   \$5,500.00   \$30     1020   ED S.U.A.T (ST)? Hrs   35   \$20.00   \$3,000.00   \$12     1020   ED S.U.A.T (ST)? Hrs   35   \$20.00   \$3,400.00   \$220     1030   ED S.U.A.T (ST)? Hrs   35   \$25.00   \$34,000.00   \$221     1050   ED County Employees (OT)   Various   \$3,500.00   \$21     1050   ED Sheriff Deputies (OT)   28   Various   \$3,500.00   \$21     1050   ED Sheriff Deputies (OT)   Various   \$19,000.00   \$114     1050   ED Election Department PT (OT)   Various   \$5,000.00   \$42     1050   ED Election Department PT (OT)   Various   \$5,000.00   \$42     1050   ED Election Department PT (OT)   Various   \$5,000.00   \$42     1050   ED Election Department PT (OT)   Various   \$5,000.00   \$42     1050   ED Election Department PT (OT)   Various   \$5,000.00   \$43     1050   ED Election Department PT (OT)   Various   \$5,000.00   \$30     1050   ED Election Department PT (ST)   Various   \$5,000.00   \$30     1050   ED Election Department PT (ST)   Various   \$5,000.00   \$30     1050   ED Election Department PT (ST)   Various   \$5,000.00   \$30     1050   ED Election Department PT (ST)   Various   \$5,000.00   \$30     1050   ED Election Department PT (ST)   Various   \$5,000.00   \$30     1050   ED Election Department PT (ST)   Various   \$5,000.00   \$30     1050   ED Election Department PT (ST)   Various   \$5,000.00   \$30     1050   ED Election Department PT (ST)   Various   \$5,000.00   \$30     1050   ED Election Department PT (ST)   Various   \$5,000.00   \$30     1050   ED Election Department PT (ST)   Various   \$5,000.00   \$30     1050   ED Election Department PT (ST)				· '	· · · · · · · · · · · · · · · · · · ·	\$70.53
1020   ED Phone Bank (ST)   18   \$370.00   \$6,660.00   \$40	1020	ED Emergency Response (Judges & Clerks) (ST)		\$280.00		\$84.22
1020   ED Regional Site Support (ST)   22   \$20.00   \$5,500.00   \$33     1020   ED Traffic Control Officers (ST)   10   Various   \$6,000.00   \$36     1020   ED Training Trainer (ST)   37   Various   \$3,500.00   \$21     1020   ED Training Trainer (ST)   8   Various   \$5,000.00   \$30     1020   ED SULAT (ST) 2 Hrs   35   \$20.00   \$2,000.00   \$32     1020   ED SULAT (ST) 2 Hrs   35   \$20.00   \$34,000.00   \$204     1050   ED County Employees (OT)   Various   \$3,500.00   \$22     1050   ED County Employees (OT)   28   Various   \$3,500.00   \$21     1050   ED Sheriff Deputies (OT)   28   Various   \$3,000.00   \$120     1050   ED Election Department FT (OT)   Various   \$19,000.00   \$124     1050   ED Election Department FT (OT)   Various   \$7,000.00   \$34     1050   ED Election Department FT (Warehouse (OT)   Various   \$5,000.00   \$30     1050   ED Election Department FT - Warehouse (OT)   Various   \$5,000.00   \$30     1050   ED Election Department FT - Warehouse (OT)   Various   \$3,000.00   \$30     1050   ED Election Department FT - Warehouse (OT)   Various   \$3,000.00   \$30     1050   ED Election Department FT - Warehouse (OT)   Various   \$3,000.00   \$30     1050   ED Election Department FT - Warehouse (ST)   Various   \$3,000.00   \$30     1050   ED Election Department FT (ST)   Various   \$3,000.00   \$32     1106   ED Election Department FT - Warehouse (ST)   Various   \$3,000.00   \$32     1111   ED FICA   6.2%   \$4,3071.21   \$525     1112   ED Medicare   1.45%   \$10,073.11   \$60     1113   ED PARS   1.33%   \$403.00   \$2.25     1114   ED Medicare   1.45%   \$10,073.11   \$60     1115   ED Retirement Chargeback   13.93%   \$96,771.29   \$582     1580   ED Retirement Chargeback   13.93%   \$96,771.29   \$582     1590   ED Retirement Chargeback   13.93%   \$96,770.00     15			469		· · · · · · · · · · · · · · · · · · ·	\$710.97
1020   ED Traffic Control Officers (ST)   10   Various   \$6,000.00   \$36     1020   ED Tabulation (ST)   37   Various   \$5,000.00   \$21     1020   ED Training Trainer (ST)   8   Various   \$5,000.00   \$30     1020   ED SUAT (ST) 2 Hrs   35   \$20.00   \$2,000.00   \$12     1020   ED SUAT (ST) 2 Hrs   35   \$20.00   \$2,000.00   \$12     1020   ED SUAT (ST) 2 Hrs   35   \$20.00   \$2,000.00   \$24     1020   ED Inspectors (ST)   32   \$25.00   \$34,000.00   \$24     1050   ED Decentrol Employees (OT)   Various   \$3,500.00   \$21     1050   ED Sheriff Deputies (OT)   28   Various   \$20,000.00   \$124     1050   ED Sheriff Deputies (OT)   Various   \$20,000.00   \$124     1050   ED Sheriff Department PT (OT)   Various   \$5,000.00   \$141     1050   ED Sheriff Department PT (OT)   Various   \$5,000.00   \$34     1050   ED Sheriff Department PT (OT)   Various   \$5,000.00   \$34     1050   ED Sheriff Department PT (ST)   Various   \$5,000.00   \$34     1050   ED Sheriff Department PT (ST)   Various   \$5,000.00   \$34     1060   ED Election Department PT (ST)   Various   \$5,000.00   \$34     1060   ED Election Department PT (ST)   Various   \$5,000.00   \$54     1060   ED Election Department PT - Warehouse (ST)   Various   \$5,000.00   \$54     1060   ED Election Department PT - Warehouse (ST)   Various   \$5,000.00   \$54     1061   ED Election Department PT - Warehouse (ST)   Various   \$5,000.00   \$54     1061   ED Election Department PT - Warehouse (ST)   \$6,2%   \$43,071.21   \$259     1112   ED Medicare   1.45%   \$10,3%   \$90,000.00   \$18     1113   ED PARS   1.3%   \$403.00   \$2     1115   ED Medicare   1.45%   \$90,000.00   \$10,000.00     1115   ED Retirement Chargeback   13,93%   \$96,771.29   \$582     1590   ED Temp. Employees   Various Temp. Agencies   \$30,000.00   \$10,000.00     1115   ED Retirement Chargeback   13,93%   \$96,771.29   \$582     1110   ED Steptiment PT   \$1,000.00   \$1,000.00     1111   ED PARS   \$1,		, ,	18	· ·	\$6,660.00	\$40.06
1020   ED Tabulation (ST)   37		0 11 ( )		· ·		\$33.09
1020   ED Training Trainer (ST)   8   Various   \$5,000.00   \$30     1020   ED S.U.A.T (ST) 2 Hrs   35   \$20.00   \$2,000.00   \$12     1020   ED Inspectors (ST)   32   \$25.00   \$34,000.00   \$204     1050   ED County Employees (OT)   Various   \$3,500.00   \$21     1050   ED Schriff Deputies (OT)   28   Various   \$20,000.00   \$112     1050   ED Election Department FT (OT)   Various   \$19,000.00   \$114     1050   ED Election Department PT (OT)   Various   \$5,000.00   \$42     1050   ED Election Department PT (OT)   Various   \$5,000.00   \$42     1050   ED Election Department PT - Warehouse (OT)   Various   \$5,000.00   \$30     1050   ED Building Security (OT)   Various   \$3,000.00   \$18     1060   ED Election Department PT - Warehouse (ST)   Various   \$5,000.00   \$24     1050   ED Election Department PT - Warehouse (ST)   Various   \$5,000.00   \$24     1050   ED Election Department PT - Warehouse (ST)   Various   \$5,000.00   \$24     1050   ED Election Department PT - Warehouse (ST)   Various   \$5,000.00   \$24     1050   ED Election Department PT - Warehouse (ST)   Various   \$5,000.00   \$24     1050   ED Election Department PT - Warehouse (ST)   Various   \$5,000.00   \$24     1050   ED Election Department PT - Warehouse (ST)   Various   \$5,000.00   \$24     1050   ED Election Department PT - Warehouse (ST)   Various   \$5,000.00   \$24     1050   ED Election Department PT - Warehouse (ST)   Various   \$5,000.00   \$24     1050   ED Election Department PT - Warehouse (ST)   Various   \$5,000.00   \$24     1050   ED Election Department PT - Warehouse (ST)   Various   \$5,000.00   \$24     1050   ED Election Department PT - Warehouse (ST)   Various   \$5,000.00   \$2,000.00     1050   ED Election Department PT - Warehouse   \$5,000.00   \$3,000.00   \$3,000.00     1050   ED Election Department PT - Warehouse   \$5,000.00   \$3,000.00     1050   ED Election Department PT - Warehouse   \$2,000.00   \$3,000.00     1050   ED Election Department PT - Warehouse   \$2,000.00   \$3,000.00     1050   ED Election Department PT - Warehouse   \$2,000.00				Various		\$36.09
1020   ED SUART (ST) 2 Hrs   35   \$20.00   \$2,000.00   \$12		3 7		<b>†</b>		\$21.05
1020   ED Inspectors (ST)   32   \$25.00   \$34,000.00   \$204     1050   ED County Employees (OT)   28   Various   \$3,500.00   \$21     1050   ED Sheriff Deputies (OT)   28   Various   \$22,000.00   \$120     1050   ED Election Department FT (OT)   Various   \$19,000.00   \$114     1050   ED Election Department PT (OT)   Various   \$5,000.00   \$42     1050   ED Election Department PT - Warehouse (OT)   Various   \$5,000.00   \$42     1050   ED Election Department PT - Warehouse (OT)   Various   \$5,000.00   \$30     1050   ED Building Security (OT)   Various   \$5,000.00   \$38     1060   ED Election Department PT - Warehouse (ST)   Various   \$5,000.00   \$42     1060   ED Election Department PT - Warehouse (ST)   Various   \$7,000.00   \$42     1111   ED FICA   6.2%   \$43,071.21   \$259     1112   ED Medicare   1.45%   \$10,073.11   \$60     1113   ED PARS   1.3%   \$403.00   \$52     1150   ED Retirement Chargeback   13.93%   \$96,771.27   \$582     5590   ED Temp. Employees   Various Femp. Agencies   \$30,000.00   \$180     2180   Simple Ballots Hand Out for Voters 8.5x11in.   936   \$0.77   \$720.72   \$42     2180   Simple Ballots Hand Out for Voters 8.5x11in.   936   \$0.77   \$720.72   \$42     2180   Simple Ballots Hand Out for Voters 8.5x11in.   936   \$0.77   \$720.72   \$42     2180   ED Judge kit   \$469   \$80.00   \$37,520.00   \$15     5590   ES&S Election Day Support   3   \$1,650.00   \$4,950.00   \$29     5590   ROBIS (ED Support)   \$2 Persons Tech Team   \$2,825.00   \$16     5590   ES&S Election Day Support   3   \$1,650.00   \$4,950.00   \$29     5590   ROBIS (ED Support)   \$2 Persons Tech Team   \$2,825.00   \$16     5590   ES&S Election Day Support   3   \$1,650.00   \$4,950.00   \$29     5590   ROBIS (ED Support)   \$2 Persons Tech Team   \$2,825.00   \$16     5590   ES&S Election Day Support   3   \$4,560.00   \$3,500.00   \$20     5590   Atlantic Delivery and Pick-up (Warehouse)   \$4,500.00   \$3,500.00   \$20     2910   Atlantic Delivery and Pick-up (Warehouse)   \$4,500.00   \$3,500.00   \$3,500.00   \$3,500.00   \$3,500.00   \$3,500.00   \$3,500.						\$30.08
1050   ED County Employees (OT)   28				·		\$12.03
1050   ED Sheriff Deputies (OT)   28		. , ,		\$25.00		\$204.53
1050   ED Election Department FT (OT)   Various   \$19,000.00   \$114     1050   ED Election Department PT (OT)   Various   \$7,000.00   \$42     1050   ED Election Department PT - Warehouse (OT)   Various   \$5,000.00   \$33     1050   ED Building Security (OT)   Various   \$3,000.00   \$18     1060   ED Election Department PT - Warehouse (ST)   Various   \$3,000.00   \$18     1060   ED Election Department PT - Warehouse (ST)   Various   \$5,000.00   \$54     1060   ED Election Department PT - Warehouse (ST)   Various   \$5,000.00   \$42     1111   ED FICA   \$6.2%   \$43,071.21   \$259     1112   ED Medicare   \$1.45%   \$510,073.11   \$60     1113   ED PARS   \$1.3%   \$403.00   \$52     1115   ED Retirement Chargeback   \$13.93%   \$96,771.29   \$582     5590   ED Temployees   Various Temp. Agencies   \$30,000.00   \$180     5UPPLY EXPENSE   \$2180   Official Express/Vote Ballots   \$7,000   \$0.145   \$8,265.00   \$49     2180   Sample Ballots Hand Out for Voters 8.5x11in   936   \$0.77   \$720.72   \$4     2880   Supplies for Election Day   Misc./Forms/Binders   \$2,500.00   \$225     5590   ES&S Election Day Support   \$3   \$1,650.00   \$4,950.00   \$225     5590   ES&S Election Day Support   \$3   \$1,650.00   \$4,950.00   \$225     5590   TS ervices (QNET)   ED Technicians   \$47,560.00   \$405     2170   Election Paychecks   \$2,500.00   \$0.58     2180   Mileage for Deputies   \$3,500.00   \$21     1080   Mileage for Deputies   \$5,500   \$45.00   \$3,500.00   \$21     1080   Mileage for Deputies   \$5,500   \$5.585   \$3,217.50   \$515     1080   Mileage for Deputies   \$5.500   \$5.585   \$3,217.50   \$515     1080   Mileage for Deputies   \$5.500   \$5.				1	' '	\$21.05
1050   ED Election Department PT (OT)   Various   \$7,000.00   \$42		. , ,		Various		\$120.31
1050   ED Election Department PT - Warehouse (OT)   Various   \$5,000.00   \$30     1050   ED Building Security (OT)   Various   \$3,000.00   \$18     1060   ED Election Department PT (ST)   Various   \$9,000.00   \$48     1060   ED Election Department PT - Warehouse (ST)   Various   \$9,000.00   \$42     1111   ED FICA   6.2%   \$43,071.21   \$259     1112   ED Medicare   1.45%   \$10,073.11   \$60     1113   ED PARS   1.3%   \$403.00   \$2     1150   ED Retirement Chargeback   13,93%   \$96,771.29   \$582     1550   ED Retirement Chargeback   13,93%   \$96,771.29   \$582     5590   ED Temp. Employees   Various Temp. Agencies   \$30,000.00   \$180     5UPPLY EXPENSE   Supplies for Election Day   Misc./Forms/Binders   \$2,2500.00   \$150     2180   Sample Ballots Hand Out for Voters 8.5x11in.   936   \$0.77   \$720.72   \$4     2880   Supplies for Election Day   Misc./Forms/Binders   \$2,2500.00   \$150     2180   ED Judge Kit   469   \$80.00   \$37,520.00   \$225     5590   ES&S Election Day Support   3   \$1,650.00   \$4,950.00   \$225     5590   ES&S Election Day Support   3   \$1,650.00   \$4,950.00   \$225     5590   ES&S Election Day Support   3   \$1,650.00   \$4,950.00   \$226     5590   ES&S Election Paychecks   2,500   \$0.58   \$1,450.00   \$286     FOSTAGE   270   Election Paychecks   2,500   \$0.58   \$1,450.00   \$286     FREPARATION & TRANSPORTATION OF VOTING EQUIPMENT   \$2,500.00   \$3,500.00   \$21     MILEAGE / FUEL   1080   Mileage for Deputies   \$5,500   \$0.585   \$3,217.50   \$19     3095   Fuel   Tech Cars and Trucks   \$2,500.00   \$155     Tech Cars and Trucks   \$2,500.00   \$155   \$3,217.50   \$19     3095   Fuel   Tech Cars and Trucks   \$2,500.00   \$155     Tech Cars and Trucks   \$2,500.00		. ,			\$114.30	
1050   ED Building Security (OT)		, , ,				\$42.11
1060   ED Election Department PT (ST)   Various   \$9,000.00   \$54     1060   ED Election Department PT - Warehouse (ST)   Various   \$7,000.00   \$42     1111   ED FLCA   6.2%   \$43,071.21   \$259     1112   ED Medicare   1.45%   \$10,073.11   \$60     1113   ED PARS   1.3%   \$403.00   \$2     1150   ED Retirement Chargeback   13,93%   \$96,771.29   \$582     5590   ED Temp. Employees   Various Temp. Agencies   \$30,000.00   \$180     5UPPLY EXPENSE   2180   Official Express/Vote Ballots   57,000   \$0.145   \$8,265.00   \$49     2180   Sample Ballots Hand Out for Voters 8.5x11in.   936   \$0.77   \$720.72   \$4     2880   Supplies for Election Day   Misc./Forms/Binders   \$2,500.00   \$15     2180   ED Judge Kit   469   \$80.00   \$37,520.00   \$225     5ERVICE EXPENSE   \$590   ES&S Election Day Support   3   \$1,650.00   \$4,950.00   \$29     5590   ROBIS (ED Support)   2 Persons Tech Team   \$2,825.00   \$16     5590   T Services (QNET)   ED Technicians   \$47,560.00   \$286     POSTAGE   \$2,000   \$0.58   \$1,450.00   \$8     PREPARATION & TRANSPORTATION OF VOTING EQUIPMENT   \$938   \$67,500.00   \$406     2910   Delivery and Pick-up (Warehouse)   \$938   \$67,500.00   \$21     MILEAGE / FUEL   1080   Mileage for Deputies   \$5,500   \$0.585   \$3,217.50   \$19     3095   Fuel   Tech Cars and Trucks   \$2,500.00   \$15						\$30.08
1060   ED Election Department PT - Warehouse (ST)						\$18.05
1111   ED FICA   6.2%   \$43,071.21   \$259     1112   ED Medicare   1.45%   \$10,073.11   \$60     1113   ED PARS   1.3%   \$403.00   \$2     1150   ED Retirement Chargeback   13.93%   \$96,771.29   \$582     5590   ED Temp. Employees   Various Temp. Agencies   \$30,000.00   \$180     5UPPLY EXPENSE		1 ,			' '	\$54.14
1112   ED Medicare   1.45%   \$10,073.11   \$60     1113   ED PARS   1.3%   \$403.00   \$2     1150   ED Retirement Chargeback   13.93%   \$96,771.29   \$582     5590   ED Temp. Employees   Various Temp. Agencies   \$30,000.00   \$180     5UPPLY EXPENSE				I		\$42.11
1113   ED PARS   1.3%   \$403.00   \$2						\$259.10
1150   ED Retirement Chargeback   13.93%   \$96,771.29   \$582   \$5590   ED Temp. Employees   Various Temp. Agencies   \$30,000.00   \$180   \$2180   \$1						\$2.42
S590   ED Temp. Employees   Various Temp. Agencies   \$30,000.00   \$180						•
SUPPLY EXPENSE   2180   Official ExpressVote Ballots   57,000   \$0.145   \$8,265.00   \$49				oncios		· · · · · · · · · · · · · · · · · · ·
2180         Official ExpressVote Ballots         57,000         \$0.145         \$8,265.00         \$49           2180         Sample Ballots Hand Out for Voters 8.5x11in.         936         \$0.77         \$720.72         \$4           2880         Supplies for Election Day         Misc./Forms/Binders         \$2,500.00         \$15           2180         ED Judge Kit         469         \$80.00         \$37,520.00         \$225           SERVICE EXPENSE         \$5590         ES&S Election Day Support         3         \$1,650.00         \$4,950.00         \$29           5590         ROBIS (ED Support)         2 Persons Tech Team         \$2,825.00         \$16           5590         IT Services (QNET)         ED Technicians         \$47,560.00         \$286           POSTAGE         \$2170         Election Paychecks         2,500         \$0.58         \$1,450.00         \$8           PREPARATION & TRANSPORTATION OF VOTING EQUIPMENT         2910         Atlantic Delivery and Pick-up         938         \$67,500.00         \$406           2910         Delivery and Pick-up (Warehouse)         \$22.50         \$1,500.00         \$21           MILEAGE / FUEL         1080         Mileage for Deputies         5,500         \$0.585         \$3,217.50         \$15		Lo remp. Employees	various reilip. Ag	CITCIES	\$30,000.00	\$10U.47
2180         Sample Ballots Hand Out for Voters 8.5x11in.         936         \$0.77         \$720.72         \$4           2880         Supplies for Election Day         Misc./Forms/Binders         \$2,500.00         \$15           2180         ED Judge Kit         469         \$80.00         \$37,520.00         \$225           SERVICE EXPENSE         8         \$1,650.00         \$4,950.00         \$29           5590         ES&S Election Day Support         3         \$1,650.00         \$4,950.00         \$29           5590         IT Services (QNET)         ED Technicians         \$47,560.00         \$28           POSTAGE         2170         Election Paychecks         \$2,500         \$0.58         \$1,450.00         \$8           PREPARATION & TRANSPORTATION OF VOTING EQUIPMENT         938         \$67,500.00         \$406         2910         Delivery and Pick-up (Warehouse Specials)         \$22.50         \$1,500.00         \$9           2910         Delivery and Pick-up (Warehouse)         \$45.00         \$3,500.00         \$21           MILEAGE / FUEL         1080         Mileage for Deputies         5,500         \$0.585         \$3,217.50         \$19           3095         Fuel         Tech Cars and Trucks         \$2,500.00         \$15		Official ExpressVote Ballots	57 000	\$0.145	\$8.265.00	\$49.72
2880         Supplies for Election Day         Misc./Forms/Binders         \$2,500.00         \$15           2180         ED Judge Kit         469         \$80.00         \$37,520.00         \$225           SERVICE EXPENSE         5590         ES&S Election Day Support         3         \$1,650.00         \$4,950.00         \$29           5590         ROBIS (ED Support)         2 Persons Tech Team         \$2,825.00         \$16           5590         IT Services (QNET)         ED Technicians         \$47,560.00         \$286           POSTAGE         2170         Election Paychecks         \$1,450.00         \$8           PREPARATION & TRANSPORTATION OF VOTING EQUIPMENT         938         \$67,500.00         \$406           2910         Atlantic Delivery and Pick-up (Warehouse Specials)          \$22.50         \$1,500.00         \$9           2910         Delivery and Pick-up (Warehouse)         \$45.00         \$3,500.00         \$21           MILEAGE / FUEL         1080         Mileage for Deputies         5,500         \$0.585         \$3,217.50         \$19           3095         Fuel         Tech Cars and Trucks         \$2,500.00         \$15				·		\$4.34
2180         ED Judge Kit         469         \$80.00         \$37,520.00         \$225           SERVICE EXPENSE         S590         ES&S Election Day Support         3         \$1,650.00         \$4,950.00         \$29           5590         ROBIS (ED Support)         2 Persons Tech Team         \$2,825.00         \$16           5590         IT Services (QNET)         ED Technicians         \$47,560.00         \$286           POSTAGE         2170         Election Paychecks         2,500         \$0.58         \$1,450.00         \$8           PREPARATION & TRANSPORTATION OF VOTING EQUIPMENT         938         \$67,500.00         \$406           2910         Delivery and Pick-up (Warehouse Specials)         \$22.50         \$1,500.00         \$9           2910         Delivery and Pick-up (Warehouse)         \$45.00         \$3,500.00         \$21           MILEAGE / FUEL         5,500         \$0.585         \$3,217.50         \$19           3095         Fuel         Tech Cars and Trucks         \$2,500.00         \$15				ψυ.//		\$15.04
SERVICE EXPENSE           5590         ES&S Election Day Support         3         \$1,650.00         \$4,950.00         \$29           5590         ROBIS (ED Support)         2 Persons Tech Team         \$2,825.00         \$16           5590         IT Services (QNET)         ED Technicians         \$47,560.00         \$286           POSTAGE           2170         Election Paychecks         2,500         \$0.58         \$1,450.00         \$8           PREPARATION & TRANSPORTATION OF VOTING EQUIPMENT           2910         Atlantic Delivery and Pick-up         938         \$67,500.00         \$406           2910         Delivery and Pick-up (Warehouse Specials)         \$22.50         \$1,500.00         \$9           2910         Delivery and Pick-up (Warehouse)         \$45.00         \$3,500.00         \$21           MILEAGE / FUEL           1080         Mileage for Deputies         5,500         \$0.585         \$3,217.50         \$19           3095         Fuel         Tech Cars and Trucks         \$2,500.00         \$15				\$80.00	<del></del>	\$225.70
5590         ES&S Election Day Support         3         \$1,650.00         \$4,950.00         \$29           5590         ROBIS (ED Support)         2 Persons Tech Team         \$2,825.00         \$16           5590         IT Services (QNET)         ED Technicians         \$47,560.00         \$286           POSTAGE           2170         Election Paychecks         2,500         \$0.58         \$1,450.00         \$8           PREPARATION & TRANSPORTATION OF VOTING EQUIPMENT         938         \$67,500.00         \$406           2910         Atlantic Delivery and Pick-up (Warehouse Specials)         \$22.50         \$1,500.00         \$9           2910         Delivery and Pick-up (Warehouse)         \$45.00         \$3,500.00         \$21           MILEAGE / FUEL           1080         Mileage for Deputies         5,500         \$0.585         \$3,217.50         \$19           3095         Fuel         Tech Cars and Trucks         \$2,500.00         \$15		<u> </u>	703	Ç00.00	757,520.00	J223.70
5590         ROBIS (ED Support)         2 Persons Tech Team         \$2,825.00         \$16           5590         IT Services (QNET)         ED Technicians         \$47,560.00         \$286           POSTAGE           2170         Election Paychecks         2,500         \$0.58         \$1,450.00         \$8           PREPARATION & TRANSPORTATION OF VOTING EQUIPMENT         938         \$67,500.00         \$406           2910         Atlantic Delivery and Pick-up (Warehouse Specials)         \$22.50         \$1,500.00         \$9           2910         Delivery and Pick-up (Warehouse)         \$45.00         \$3,500.00         \$21           MILEAGE / FUEL           1080         Mileage for Deputies         5,500         \$0.585         \$3,217.50         \$19           3095         Fuel         Tech Cars and Trucks         \$2,500.00         \$15			3	\$1,650.00	\$4 950 00	\$29.78
5590         IT Services (QNET)         ED Technicians         \$47,560.00         \$286           POSTAGE         2170         Election Paychecks         2,500         \$0.58         \$1,450.00         \$8           PREPARATION & TRANSPORTATION OF VOTING EQUIPMENT           2910         Atlantic Delivery and Pick-up         938         \$67,500.00         \$406           2910         Delivery and Pick-up (Warehouse Specials)         \$22.50         \$1,500.00         \$9           2910         Delivery and Pick-up (Warehouse)         \$45.00         \$3,500.00         \$21           MILEAGE / FUEL         1080         Mileage for Deputies         5,500         \$0.585         \$3,217.50         \$19           3095         Fuel         Tech Cars and Trucks         \$2,500.00         \$15						\$16.99
POSTAGE         2170         Election Paychecks         2,500         \$0.58         \$1,450.00         \$8           PREPARATION & TRANSPORTATION OF VOTING EQUIPMENT         938         \$67,500.00         \$406           2910         Atlantic Delivery and Pick-up (Warehouse Specials)         \$22.50         \$1,500.00         \$9           2910         Delivery and Pick-up (Warehouse)         \$45.00         \$3,500.00         \$21           MILEAGE / FUEL         5,500         \$0.585         \$3,217.50         \$19           3095         Fuel         Tech Cars and Trucks         \$2,500.00         \$15		, , , , ,			<del></del>	\$286.10
2170         Election Paychecks         2,500         \$0.58         \$1,450.00         \$8           PREPARATION & TRANSPORTATION OF VOTING EQUIPMENT           2910         Atlantic Delivery and Pick-up         938         \$67,500.00         \$406           2910         Delivery and Pick-up (Warehouse Specials)         \$22.50         \$1,500.00         \$9           2910         Delivery and Pick-up (Warehouse)         \$45.00         \$3,500.00         \$21           MILEAGE / FUEL         1080         Mileage for Deputies         5,500         \$0.585         \$3,217.50         \$19           3095         Fuel         Tech Cars and Trucks         \$2,500.00         \$15		(50-1)			\$ 11,555.50	7200.20
PREPARATION & TRANSPORTATION OF VOTING EQUIPMENT           2910         Atlantic Delivery and Pick-up         938         \$67,500.00         \$406           2910         Delivery and Pick-up (Warehouse Specials)         \$22.50         \$1,500.00         \$9           2910         Delivery and Pick-up (Warehouse)         \$45.00         \$3,500.00         \$21           MILEAGE / FUEL         5,500         \$0.585         \$3,217.50         \$19           3095         Fuel         Tech Cars and Trucks         \$2,500.00         \$15		Election Paychecks	2,500	\$0.58	\$1,450.00	\$8.72
2910         Atlantic Delivery and Pick-up         938         \$67,500.00         \$406           2910         Delivery and Pick-up (Warehouse Specials)         \$22.50         \$1,500.00         \$9           2910         Delivery and Pick-up (Warehouse)         \$45.00         \$3,500.00         \$21           MILEAGE / FUEL         5,500         \$0.585         \$3,217.50         \$19           3095         Fuel         Tech Cars and Trucks         \$2,500.00         \$15					, , , , , ,	
2910         Delivery and Pick-up (Warehouse Specials)         \$22.50         \$1,500.00         \$9           2910         Delivery and Pick-up (Warehouse)         \$45.00         \$3,500.00         \$21           MILEAGE / FUEL         5,500         \$0.585         \$3,217.50         \$19           3095         Fuel         Tech Cars and Trucks         \$2,500.00         \$15			938		\$67,500.00	\$406.05
2910         Delivery and Pick-up (Warehouse)         \$45.00         \$3,500.00         \$21           MILEAGE / FUEL         5,500         \$0.585         \$3,217.50         \$19           3095         Fuel         Tech Cars and Trucks         \$2,500.00         \$15				\$22.50		\$9.02
MILEAGE / FUEL         5,500         \$0.585         \$3,217.50         \$19           3095         Fuel         Tech Cars and Trucks         \$2,500.00         \$15				· · · · · · · · · · · · · · · · · · ·		\$21.05
1080         Mileage for Deputies         5,500         \$0.585         \$3,217.50         \$19           3095         Fuel         Tech Cars and Trucks         \$2,500.00         \$15					12,222,75	1 1
3095         Fuel         Tech Cars and Trucks         \$2,500.00         \$15		Mileage for Deputies	5,500	\$0.585	\$3,217.50	\$19.36
						\$15.04
		ELECTION DAY TOTAL			\$1,886,216.41	\$11,346.70

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# 2021 - 2023 TERM ELECTION DAY JUDGES AND ALTERNATE JUDGES SUBMISSION

# **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V1001		SAM TASBY MIDDLE SCHOOL		7001 FAIR OAKS AVE DALLAS	75231
	J D	<b>JONATHAN BELL</b> 1081915708	AR	<b>CYNTHIA KNOX</b> 1083294571	
V1002		VICKERY BAPTIST CHURCH		5814 RIDGECREST RE	
	JD	<b>WILLIAM WOODS</b> 1080877445	A R	DALLAS <b>KEITH GILLESPIE</b> 1086029525	75231
V1003		HAMILTON PARK UNITED METHODIST CHURCH		11881 SCHROEDER D DALLAS	R 75243
	J D	<b>LINTON GRAY</b> 1083654595	AR	<b>BRUCE BRADLEY</b> 1079043284	
V1004		FOREST MEADOW JR HIGH SCHOOL		9373 WHITEHURST DE	
	J R	<b>VANCE WADE</b> 1081795675	A D	DALLAS CRYSTAL HUGHES 1083714619	75243
V1005		NEW MOUNT ZION BAPTIST CHURCH		9550 SHEPHERD RD	
	J D	<b>PATRICIA HICKS</b> 1084105962	A R	DALLAS <b>KATHLEEN YOUNG</b> 1080701556	75243
V1006		MOSS HAVEN ELEM SCHOOL		9202 MOSS FARM LN DALLAS	75243
	J R	<b>DEBORAH BROWN</b> 1081774276	A D	<b>TRACEY ASHBY</b> 2158622422	
V1008		LEE MCSHAN JR ELEMENTARY SCHOOL	DL	8307 MEADOW RD	
	J D	LORI REISENBICHLER 1083549605	A R	DALLAS CEDRIC WOOD 1081701888	75231

# JUDGES AND ALTERNATE JUDGES SUBMISSION

# **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V1013		NORTH DALLAS HIGH SCHOOL		3120 N HASKELL AVE DALLAS	75204
	JD	<b>ANNE BESSER</b> 1086078788	AR	BRIAN BODINE 1130673123	7.0201
V1015		MULTIPLE CAREERS MAGNET CTR		4528 RUSK AVE DALLAS	75204
	JD	BYRON MONTGOMERY 1078318394	AR	PAUL LOCKMAN 1080242629	73204
V1019		SOLAR PREPARATORY SCHOOL FOR GIRLS		2617 N HENDERSON A	VE 75206
	J D	MICHELLE BUTTON 1084501770	AR	<b>LAURA ALLEN</b> 1082482830	
V1020		BEN MILAM ELEM SCH - DISD		4200 MCKINNEY AVE DALLAS	75205
	J D	<b>JEAN A. BALL-MEZA</b> 1170968508	A R	SUZANNE SHELTON 1080803105	70200
V1022		OAKLAWN BRANCH LIBRARY		4100 CEDAR SPRINGS DALLAS	RD 75219
	J D	<b>TIM WEST</b> 1220365491	A R	ELIZABETH JOHNSON 1081905653	
V1023		THE FATHER'S CHURCH		2707 ABRAMS RD DALLAS	75214
	J D	<b>THOMAS WRIGHT</b> 1086225980	AR	ELIZABETH VINEY 1157126719	
V1027		AUDELIA CREEK ELEM SCHOOL		12600 AUDELIA RD DALLAS	75243
	J D	<b>RONALD SELF</b> 1085642393	A R	RICHARD HARMS 1080844728	10243

# JUDGES AND ALTERNATE JUDGES SUBMISSION

# **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V1029		RICHLAND COLLEGE-LECROY CENTER	₹	9596 WALNUT ST	75040
	J D	<b>LENNA WEBB</b> 1078376952	A R	DALLAS JAMES FRAME 1081914470	75243
V1030		A M AIKIN ELEM SCHOOL		12300 PLEASANT VAL	
	JD	<b>RANDALL EPPS</b> 1081436325	A R	DALLAS JANICE FOWLER 1084760609	75243
V1032		NORTHWOOD HILLS ELEM SCH		14532 MEANDERING V	
	JR	CAROLINE CROLEY 1219328829	A D	DALLAS MONICA SHEVELL 1076279574	75254
V1033		SPRING VALLEY ELEM SCHOOL		13535 SPRING GROVE	
	JR	LARRY STANDEFER 1080201670	A D	DALLAS KIMMY ROBINSON 1086081072	75240
V1036		RISD ACADEMY		13630 COIT RD	
	J D	CHRISTINE MILAZZO 1079461058	A R	DALLAS JANET MARIANI 1087926535	75240
V1040		DALLAS FIRE STATION # 57		10801 AUDELIA RD	
	J D	VACANT	A R	DALLAS ISABELLA IVERSON 1080497084	75238
V1043		SKYVIEW ELEM SCHOOL		9229 MEADOWKNOLL	
	J R	JIMMIE MCGUIRE 1083497414	A D	DALLAS KAREN SIMMONS 1082917681	75243

# JUDGES AND ALTERNATE JUDGES SUBMISSION

# **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V1045		HIGHLAND MEADOWS ELEM SCHOOL		8939 WHITEWING LN DALLAS	75238
	J D	SAUNDRA LEINNEWEBER 1081837871	A R	<b>DANIEL HEERS</b> 1081891021	75256
V1047		MARTHA T REILLY ELEM		11230 LIPPITT AVE DALLAS	75218
	J D	GEORGE SIGGERS 1082187251	A R	CAROLINE WALKER 1081426707	
V1049		MERRIMAN PARK ELEM SCHOOL		7101 WINEDALE DR DALLAS	75231
	J R	<b>SHELBY JAMES</b> 1086737948	A D	<b>LINDA NEWMAN</b> 1086850567	70201
V1052		LOCHWOOD BRANCH LIBRARY		11221 LOCHWOOD BL DALLAS	.VD 75218
	J D	<b>TIMOTHY SEXTON</b> 1078546507	A R	LAWRENCE GEORGE 1080611062	
V1054		CASA VIEW ELEM SCHOOL		2100 N FAROLA DR	75000
	J D	MARIE ARROWSMITH 2153068861	A R	DALLAS EDWARD RETTA 1088133350	75228
V1056		CHARLES A GILL ELEM SCH		10910 FERGUSON RD	
	J D	<b>ANNETTE CHOICE</b> 1086461130	A R	DALLAS BONNIE WATT 1080481782	75228
V1057		ST PIUS X CHURCH PARISH		3030 GUS THOMASSO	
	J D	CHRIS MCDONALD 1075555067	A R	DALLAS  CHARLIE YOUNGBLO 1083558910	75228 <b>OD</b>

# **JUDGES AND ALTERNATE JUDGES** SUBMISSION

# **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V1058		BRYAN ADAMS HIGH SCHOOL			2101 MILLMAR DR DALLAS	75228
	JD	<b>EDMOND MARTIN</b> 1086580481	ΑI	R	DORIS BRANTFERGE 1083010306	
V1059		REINHARDT ELEM SCHOOL			10122 LOSA DR DALLAS	75218
	J D	<b>NANCY BRYANT</b> 1076395586	Αſ	R	<b>TAMARA BROWN</b> 1157932978	
V1060		ALEX SANGER PREPARATORY SCHOOL	DL		8410 SAN LEANDRO D DALLAS	PR 75218
	J D	<b>BRUCE ANTON</b> 1080737653	Αſ	R	<b>GARRY BROWN</b> 1083050706	73210
V1061		W H GASTON MIDDLE SCHOOL			9565 MERCER DR DALLAS	75228
	J D	<b>DAVID E. WALLACE</b> 1080475974	ΑI	R	KERI MOORE 1081051242	73220
V1063		GEORGE TRUETT ELEM SCH			1811 GROSS RD DALLAS	75228
	J D	ELIZABETH HARDAGE 1086157068	ΑI	R	<b>BARBARA KING</b> 1080803855	75228
V1070		GRACE UNITED METH CHURCH			4105 JUNIUS ST	75040
	J D	<b>GREGORY BYRNE</b> 1088536933	ΑI	R	DALLAS  JULIANA MARTINEZ  1081229049	75246
V1071		LAKEWOOD BRANCH LIBRARY			6121 WORTH ST	
	J D	<b>VIVIAN DUDLEY</b> 1116885636	ΑI	R	DALLAS TERRYLL NEMETH 2143067549	75214

# JUDGES AND ALTERNATE JUDGES SUBMISSION

# **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V1073		THE CHURCH AT JUNIUS HEIGHTS			5429 REIGER AVE DALLAS	75214
	J D	<b>CHERI BALL-MEZA</b> 1083048522	Α	R	<b>DAVID SHAW</b> 1082517779	
V1074		SAMUELL GRAND REC CENTER			6200 E GRAND AVE DALLAS	75223
	J D	<b>LOTA DUNHAM</b> 1080364148	Α	R	VIRGINIA MONTFORT 1083391257	
V1076		EDUARDO MATA MONTESSORI SCHOO	)L		7420 LA VISTA DR DALLAS	75214
	J D	DARRYL CAMPBELL 2121028923	Α	R	TRENT BARTON 1164073131	70214
V1078		BAYLES ELEM SCHOOL			2444 TELEGRAPH AVE	75228
	J D	<b>OLA ALLEN</b> 1083953661	Α	R	CORA BILLINGSLEY 1080583639	70220
V1079		S S CONNER ELEM SCHOOL			3037 GREENMEADOW	
	J D	<b>RHONDA CHOICE</b> 1078934119	Α	R	DALLAS LEE BALDWIN 1082910053	75228
V1081		OWENWOOD FARM & NEIGHBOR SPAC	Œ		1451 JOHN WEST RD	75000
	J D	<b>JEAN ROGERS</b> 1082065107	Α	R	DALLAS KARON ROBINSON 1083781250	75228
V1083		COLONIAL BAPTIST CHURCH			6459 SCYENE RD	
	J D	<b>TYLER WADE</b> 2166437391	Α	R	DALLAS WILTON CROCKER 1084243223	75227

# JUDGES AND ALTERNATE JUDGES SUBMISSION

# **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V1084		EDNA ROWE ELEM SCHOOL		4918 HOVENKAMP DR	
V 1004		EDNA ROWE ELEWI SCHOOL		DALLAS	75227
	J D	ALLISON PINKARD	ΑR	VACANT	10221
		1080071434			
V1085		URBAN PARK ELEM SCHOOL		6901 MILITARY PKWY	
				DALLAS	75227
	J D	LUCY GARCIA	ΑR	JOYCE MCMILLAN	
		1083038717		1202007019	
V1087		SKYLINE HIGH SCHOOL		7777 FORNEY RD	
				DALLAS	75227
	J D	DELPHINE VASSER	ΑR	LINDA MACK	
		1082689174		1081364869	
V1088		SKYLINE BRANCH LIBRARY		6006 EVERGLADE RD	
				DALLAS	75227
	J D	TRACY DOTIE HILL	ΑR	VACANT	
		1080969076			
V1090		SAN JACINTO ELEM SCHOOL		7900 HUME DR	
				DALLAS	75227
	J D	DOROTHY DIGGS	ΑR	FRIEDRICH SCHULZ	
		1081641147		1081609910	
V1091		ANNIE WEBB BLANTON SCHOOL		8915 GREENMOUND A	VE
				DALLAS	75227
	J D	LATRICE JACKSON	ΑR	KALPANA PARAMESH	
		1081962801		1086208163	
V1092		EDWARD TITCHE ELEM SCHOOL		9560 HIGHFIELD DR	
				DALLAS	75227
	J D	HERLINDA RESENDIZ 1186966235	A R	VACANT	

# JUDGES AND ALTERNATE JUDGES SUBMISSION

# **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V1093		NUEVA VIDA LIFE ASSEMBLY		10747 BRUTON RD DALLAS	75217
	J D	<b>BETTY CARTER</b> 1083683735	A R	VACANT	70211
V1094		JOHN IRELAND ELEM SCHOOL		1515 N JIM MILLER RD DALLAS	75217
	J D	BRENDA ANDERSON 1081866370	ΑR	QUENTIN CAMPBELL 1078333528	75217
V1095		NATHANIEL HAWTHORNE SCHOOL		7800 UMPHRESS RD	75047
	J D	JAMES DOUGLAS RAY 1124082978	A R	DALLAS VACANT	75217
V1096		EASTFIELD COLLEGE PLEASANT GRO	VE	802 S BUCKNER BLVD DALLAS	75217
	J D	<b>LAKISHA NEALY</b> 1087108234	A R	VACANT	
V1097		W W SAMUELL HIGH SCHOOL		8928 PALISADE DR	
	J D	<b>WHITNEY HUNT</b> 1169552222	A R	DALLAS VACANT	75217
V1098		YMLA @ FLORENCE MIDDLE SCHOOL		1625 N MASTERS DR	
	J D	JUANITA POLLARD 1207900568	A R	DALLAS LARRY LINKE 1081098250	75217
V1100		E B COMSTOCK MIDDLE SCHOOL		7044 HODDE ST	
	J D	MINNIE ARMSTRONG 1080460384	A R	DALLAS VACANT	75217

# **JUDGES AND ALTERNATE JUDGES** SUBMISSION

# **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V1101		PLEASANT GROVE LIBRARY			7310 LAKE JUNE RD DALLAS	75217
	J D	<b>DONNA O'NEAL</b> 1080810525	Α	R	<b>ROGER HUDGENS</b> 1083108731	
V1102		B H MACON ELEM SCHOOL			650 HOLCOMB RD	
	JD	INIECE DAVIS 1080835612	Α	R	DALLAS VACANT	75217
V1104		WILLIAM ANDERSON ELEM SCH			620 N ST AUGUSTINE	RD
				_	DALLAS	75217
	Jυ	<b>AUBREY SEARS</b> 1201085994	А	K	VACANT	
V1107		RICHARD LAGOW ELEM SCHOOL			637 EDGEWORTH DR	
					DALLAS	75217
	J D	<b>LISA PELMORE</b> 1082144933	Α	R	VACANT	
V1108		H GRADY SPRUCE HIGH SCHOOL			9733 OLD SEAGOVILLI	E RD
					DALLAS	75217
	J D	<b>DAVID HAIGLER</b> 1217392337	Α	R	<b>ZARA ZERBY</b> 1078046435	
V1109		SURE FOUNDATION BAPTIST CHURCH			8805 FIRESIDE DR	
					DALLAS	75217
	JD	VACANT	Α	R	RALPH STINSON III 1080834522	
V1116		EDWIN J KIEST ELEM SCHOOL			2611 HEALEY DR	
					DALLAS	75228
	J D	GABRIELA PATARO 1083464285	Α	R	<b>STEVE YORK</b> 1083060216	

# JUDGES AND ALTERNATE JUDGES SUBMISSION

# **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V1118		IGNITE MIDDLE SCHOOL		2211 CADDO ST	
	JD	<b>JAMES WATKINS</b> 2149226969	ΑR	MARY HARMS 1082116209	75204
V1119		ST LUKE COMMUNITY UMC		5710 E R L THORNTON	
	J D	GEORGE COLLINS 1081465587	ΑR	DALLAS WILLIAM BIESEL 1083284512	75223
V1120		SOLAR PREPARATORY SCHOOL FO	R BOYS		75000
	J D	ROBERT SULLIVAN 1081432304	ΑR	DALLAS TONNETTE KHABIR 1087124734	75206
V1121		LIVING WATERS CHURCH OF GOD		11110 SHILOH RD	75000
	J D	<b>BEN DAY</b> 1080297198	* A R	DALLAS <b>CAROLE STEPHENS</b> 2129955121	75228
V1128		LAKE HIGHLANDS HIGH SCHOOL		9449 CHURCH RD	
	JR	<b>JANA BOSWELL</b> 1080874950	A D	DALLAS BRYON HANNAH 2124905754	75238
V1134		FORESTER FIELD HOUSE		8233 MILITARY PKWY	
	J D	KIM MUHAMMAD 1081636253	ΑR	DALLAS VACANT	75227
V1300		ED VANSTON MIDDLE SCHOOL		3230 KARLA DR	
*	JD	CHRISTI RODGERS 1083388699	* A R	MESQUITE  GEORGE BURRIDGE 1080904796	75150

# **JUDGES AND ALTERNATE JUDGES SUBMISSION**

### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V1301		FLORENCE RECREATION CENTER		2501 WHITSON WAY MESQUITE	75150
	J D	ELIZABETH RENDON 1081793377	A F	R MARY LAWSON 1080095355	
V1302		VERNON PRICE ELEM SCHOOL		630 STROUD LN GARLAND	75043
	J D	<b>LINDA GARRETT</b> 1083345883	A F	R RUSSELL JOHNSON 1084922195	
V1303		EASTFIELD COLLEGE-MAIN CAMPUS, BLDG	С	3737 MOTLEY DR MESQUITE	75150
	J D	WILLIAM BRIDGMAN 1086714861	A F	7 <b>JOSH GUTIERREZ</b> 1082989730	
V1304		GOODBAR RECREATION CENTER		3000 CONCORD DR MESQUITE	75150
	J D	<b>LISA WILLIAMS</b> 1081484116	A F	R PAT MOORMAN 1080282928	
V1305		ZACK MOTLEY ELEM SCHOOL		3719 MOON DR MESQUITE	75150
	J D	<b>STEPHEN POGUE</b> 1083753524	A F	R MICHAEL WIETHORN 1083099603	
V1308		RANGE ELEM SCHOOL		4060 EMERALD DR MESQUITE	75150
	J D	<b>FERNANDO ROJAS</b> * 1079191279	A F	R CAROL WOJTKOWIAN 1083391843	
V1310		TOSCH ELEM SCHOOL		2424 LARCHMONT DR	
	J D	<b>BOBBYE ROSS</b> 1161782389	A F	MESQUITE  POPPY AIRHART  1080266507	75150

# **JUDGES AND ALTERNATE JUDGES** SUBMISSION

# **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V1311		J C RUGEL ELEM SCHOOL		2701 SYBIL DR MESQUITE	75149
	J R	COLETTE KUYKENDALL * 1080348685	ΑГ		
V1312		GALLOWAY ELEM SCHOOL		200 CLARY DR MESQUITE	75149
	JD	MARTHA ROSALES 1085994827	A F	R <b>KAREN SWAIN</b> 1083357081	
V1314		WEST MESQUITE HIGH SCHOOL		2500 MEMORIAL PKW MESQUITE	Y 75149
*	JD	LASHUN HENDERSON 1085430227	A F	R ERIC KIDDER 1080825518	70140
V1500		DOVER ELEM SCHOOL		700 DOVER DR RICHARDSON	75080
	JD	<b>HOLLIS STAIR</b> 1214957102	A F	R <b>JAN NORRIS</b> 1080469747	70000
V1501		PROFESSIONAL DEVELOPMENT CTR-R	RISD	701 W BELT LINE RD RICHARDSON	75080
	J D	<b>JOHN KEISER</b> 1078071158	A F	RICHARDSON  R CHRIS DAVIS  1083338459	75060
V1502		MATH/SCIENCE TECHNOLOGY MAGNE	T-	450 ABRAMS RD RICHARDSON	75081
	J D	JOHN COUPE 1081217592	A F	RICHARDSON  R WILLIAM BEARD  1088214604	75061
V1503		RICHLAND ELEM SCHOOL		550 PARK BEND DR	
	J D	<b>ARMIN SABETI</b> 1077760579	A F	RICHARDSON  R MARILYN NORTHRUP 1082136462	75081

# **JUDGES AND ALTERNATE JUDGES SUBMISSION**

# **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V1700		BRADFIELD REC CENTER				1146 CASTLE DR GARLAND	75040
	J D	SABRINA DONNELL * 1082053098	ŧ	ΑI	R	SHERYL OVERTURF 1082475139	70040
V1701		BUSSEY MIDDLE SCHOOL				1204 TRAVIS ST	
	JD	<b>ANNE KOGAN</b> * 2130150591	ŧ	ΑI	R	GARLAND VACANT	75040
V1702		GOLDEN MEADOWS ELEM SCHOOL				1726 TRAVIS ST	
	J D	<b>CECILY COX</b> * 1189875972	ŕ	Αſ	R	GARLAND <b>JOHN BALL</b> 1080184798	75042
V1703		A R DAVIS ELEM SCHOOL				1621 MCCALLUM DR	
	J D	SANDRA JOHNSON 1081078082		ΑI	R	GARLAND PATRICIA SHAW 1080876493	75042
V1705		O. HENRY ELEMENTARY SCHOOL				4100 TYNES DR	
	J D	<b>MABEL OKECHUKWU</b> 1078219535		Αſ	R	GARLAND DANNY JANES 1083243034	75042
V1706		BRADFIELD ELEM SCHOOL-GISD				3817 BUCKNELL DR	
	J D	<b>SHERIE WIGDER</b> 1078568948		ΑI	R	GARLAND LEAH CAREY 1080993311	75042
V1708		RICHLAND COLLEGE - GARLAND CAN	ΙP	US	;	675 W WALNUT ST	
	J D	MELODIE MCFARLAND 1081820418		ΑI	R	GARLAND ESTHER COWPERTHY 1081023750	75040 <b>WAIT</b>

# JUDGES AND ALTERNATE JUDGES SUBMISSION

# **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V1709		AUSTIN ACADEMY			1125 BEVERLY DR GARLAND	75040
	J D	<b>DAVID SPONSEL</b> 1086904097	Α	R	<b>ANNA HALL</b> 1081711655	
V1710		KIMBERLIN ACADEMY			1520 CUMBERLAND D GARLAND	R 75040
*	JD	<b>MARIA GARCIA</b> 1198190952	A	R	<b>JOAN BUTLER</b> 1088771995	
V1711		GRANGER RECREATION CENTER			1310 W AVE F GARLAND	75040
	J D	<b>MAGGIE ENSLEY</b> 1078459158	* A	R	<b>MARIA MARCON</b> 1083317792	
V1712		WILLIAMS ELEM SCHOOL			1821 OLD GATE LN GARLAND	75042
	JR	<b>GARY BENTLEY</b> 1083659429	A	D	<b>JANET HARRIS</b> 1083757176	
V1713		MEMORIAL PATHWAY ACADEMY			2825 S FIRST ST GARLAND	75041
	JR	SCOTT MCKIM 1082993891	A	D	<b>MARILYN PORTMAN</b> 1081540518	
V1715		WATSON TECHNOLOGY CENTER			2601 DAIRY RD GARLAND	75041
	JD	<b>ARLENE BEASLEY</b> 1080963609	* A	R	BILL UNDERHILL 1081569430	
V1716		SOUTH GARLAND HIGH SCHOOL			600 COLONEL DR GARLAND	75043
	JR	<b>CHRIS SWAIN</b> 1027394792	А	D	JOY BRADY 1078273700	. 5040

# JUDGES AND ALTERNATE JUDGES SUBMISSION

### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V1717		CLASSICAL CENTED @ DDANDENBLIE	C Me	626 NICKENS DD	
V1/1/	J D	JAMECIA JOHNSON 1159943564		GARLAND JEFF S TURNER 1078803036	75043
V1718		SOUTHGATE ELEM SCHOOL		1115 MAYFIELD AVE GARLAND	75041
	JR	<b>ROBERT DAY</b> 1080546639	A D	<b>PEGGY MCCARTY</b> 1083333816	
V1719		MONTCLAIR ELEM SCHOOL		5200 BROADMOOR DE GARLAND	₹ 75043
	JD	<b>JANETTE SWINTON</b> 2121084209	AR	ELLEN HAIRSTON 1080952584	
V1720		O'BANION MIDDLE SCHOOL		700 BIRCHWOOD DR GARLAND	75043
	J D	<b>TIARA SCOTT</b> * 1086923883	AR	<b>SHERRIE BEYER</b> 1082840390	
V1722		CLASSICAL CENTER AT VIAL ELEM SCHOOL		126 CREEKVIEW DR GARLAND	75043
*	JD	ANGELICA VILLANUEVA 1084084973	AR	<b>LINDA HATHORN</b> 1086676202	
V1723		SOUTH GARLAND BRANCH LIBRARY		4845 BROADWAY BLV GARLAND	D 75043
	J D	<b>JAMES HARP</b> 1080917191	A R	<b>JOHN LIVELY</b> 1086499808	
V1726		ROUTH ROACH ELEM SCHOOL		1811 MAYFIELD AVE GARLAND	75041
	J D	<b>AMY PECK</b> 1192845502	AR	RONDA PAULSEN 1082207006	

# **JUDGES AND ALTERNATE JUDGES** SUBMISSION

### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V1728		SAM HOUSTON MIDDLE SCHOOL		2232 SUSSEX DR GARLAND	75041
	J D	ANGELA ROBINETTE 1081186495	A R	MATTHEW FONTAINE 1082858849	
V2002		THOMAS C MARSH PREPARATORY ACADEMY		3838 CROWN SHORE DALLAS	DR 75244
	J D	<b>DARYL HINSHAW</b> 1081139236	A R	<b>SUSANNE BOONE</b> 1081005679	
V2003		W T WHITE HIGH SCHOOL		4505 RIDGESIDE DR DALLAS	75244
	J R	<b>EDWARD SIMPSON</b> 1083181583	A D	ROXANE WIERMAN 1083249033	
V2004		NATHAN ADAMS ELEM SCHOOL		12600 WELCH RD DALLAS	75244
	J R	STEPHANIE SMITH 1083712932	A D	<b>ADAM SHULMAN</b> 1180747827	
V2005		MARSH LANE BAPTIST CHURCH		10716 MARSH LANE DALLAS	75229
	JR	MELINDA STARNES 1080599097	A D	<b>MELANIE H SMITH</b> 1083448172	
V2006		HARRY C WITHERS ELEM SCHOOL		3959 NORTHAVEN RD DALLAS	75229
	J R	<b>WILLARD SMITH</b> 1083256769	A D	<b>MARY DREW</b> 1081249782	
V2007		MIDWAY HILLS CHRISTIAN CHURCH		11001 MIDWAY RD DALLAS	75229
	J R	NICHOLAS GILLIAM 1080492618	A D	JANICE HENDERSON 1081285500	10220

# **JUDGES AND ALTERNATE JUDGES** SUBMISSION

### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V2008		JOHN J PERSHING ELEM SCHOOL		5715 MEADERS LN DALLAS	75229
	J R	MARY BROOKS 1083663623	A D	MARCIA MEAD 1083371280	10220
V2009		L G CIGARROA ELEM SCHOOL		9990 WEBB CHAPEL F	
	JR	MARIANNE MORRIS 1085382239	A D	DALLAS  AMY WALLACE  1083449612	75220
V2010		EDWARD CARY MIDDLE SCHOOL		3978 KILLION DR DALLAS	75229
	JR	<b>BRYAN LONG</b> 1081538800	A D	<b>MAUREEN WALDIE</b> 1083718462	
V2011		WALNUT HILL REC CENTER		10011 MIDWAY RD DALLAS	75229
	JR	<b>SHANNON DALTON</b> 1082165568	A D	<b>DENA JACKSON</b> 1088706325	
V2013		LOVERS LANE UNITED METHODIST CHURCH		9200 INWOOD RD DALLAS	75220
	JR	<b>NANCY ANDERTON</b> 1082415373	A D	JONATHAN NELSON 1044621211	
V2016		UNITY CHURCH OF DALLAS		6525 FOREST LN DALLAS	75230
	J R	<b>EVA ROYER</b> 1089976676	A D	JANICE SCHWARZ 1081959717	
V2018		NORTHAVEN UN METHODIST CHURCH		11211 PRESTON RD	
				DALLAS	75230
	JR	VINCENT REYNOLDS 1078614015	A D	CLAIRE STANARD 1082552226	

# JUDGES AND ALTERNATE JUDGES SUBMISSION

# **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V2019	JR	GEORGE B DEALEY MONTESSORI ACADEMY EDMUND DANIELS 1108467254	A D	6501 ROYAL LN DALLAS WILL WILKINS 1080563661	75230
V2020	J D	ARTHUR KRAMER ELEM SCHOOL  ROLLIN GARY 1083315754	ΑR	7131 MIDBURY DR DALLAS LINDA WARD 1096401050	75230
V2021	JR	HILLCREST HIGH SCHOOL  BILL ANDERTON 1081843684	A D	9924 HILLCREST RD DALLAS DON FORTENBERRY 1082005393	75230
V2023	JR	JAMES CARTER 1088252908	A D	6920 MEADOW RD DALLAS SANDRA ELLIS 1083804834	75230
V2026	JR	PRESTON HOLLOW UN METHODIST CHURCH CHARLES ARMSTRONG 1083064377	A D	6315 WALNUT HILL LN DALLAS <b>EDDIE BOWERS</b> 1084933053	75230
V2027	JR	OUR REDEEMER LUTHERAN CHURCH SANDY AMMONS 1083356115	A D	7611 PARK LN DALLAS ALAN CORETZ 1078613725	75225
V2029	J R	WESTMINISTER PRESBYTERIAN CHUR FRANCO MORTAROTTI 1219537887		8200 DEVONSHIRE DR DALLAS MICHAEL STREET 1158639943	75209

# JUDGES AND ALTERNATE JUDGES SUBMISSION

# **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V2030		THE MUSEUM OF BIBLICAL ART		7500 PARK LN DALLAS	75225
	JR	<b>LINDA COLLINS</b> 1083226666	A D	<b>NATALIE LEVY</b> 1080218072	
V2032		SKILLMAN SOUTHWESTERN BRANCH LIBRARY		5707 SKILLMAN ST DALLAS	75206
	J D	<b>DALE GREER</b> 1088124637	AR	GREGORY CLEMENTS 1079771208	8
V2034		HENRY W LONGFELLOW - CEA		5314 BOAZ ST DALLAS	75209
	JR	<b>ARTHUR FIELDS</b> 1184673592	A D	<b>MARY BETH MCKENN</b> 1088110295	A
V2035		MOCKINGBIRD COMMUNITY CHURCH		5470 ELLSWORTH AVE DALLAS	<u>-</u> 75206
	J D	<b>JEAN LAMBERTY</b> 1087595745	A R	<b>DAN WYDE</b> 1081330932	
V2036		ZION LUTHERAN CHURCH		6121 E LOVERS LN DALLAS	75214
	JR	LAWRENCE WAINER 1083040516	A D	<b>DALE MCEOWEN</b> 1080354419	
V2038		GENEVA HEIGHTS ELEMENTARY		2911 DELMAR AVE	75206
	J D	CHARLES MULLINS 1087660838	A R	CHRISTOPHER FORD 1215788323	
V2040		ST ANDREWS PRESBYTERIAN CHURC	Н	3204 SKILLMAN ST DALLAS	75206
	J R	<b>CHISA SAVAGE</b> 2137968805	A D		13200

# JUDGES AND ALTERNATE JUDGES SUBMISSION

# **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V2041		UNIVERSITY OF TEXAS-DALLAS, VISITOR CTR		800 W CAMPBELL RD RICHARDSON	75080
	JK	<b>GAYLYNN GEE</b> 1082764689	Αυ	GAYANE FULLFORD 1081573054	
V2042		PARKHILL JR HIGH SCHOOL		16500 SHADYBANK DE	₹ 75248
	J R	<b>VERA GAJEWSKY</b> 1078292196	A D	ROBERT FRANKLIN 1078443307	73240
V2043		BRENTFIELD PRIMARY SCHOOL		6767 BRENTFIELD DR DALLAS	75248
	JR	<b>DAVID W. WALLACE</b> 2148257111	A D	ANNE CHRISTIANSEN 1208466372	
V2044		TEXAS A&M RESEARCH EXT CTR BLD	GE	17360 COIT RD DALLAS	75252
	J R	DARLENE HOWELL 1087831296	A D		13232
V2047		JAMES BOWIE ELEM SCHOOL-RISD		7643 LA MANGA DR DALLAS	75248
	J R	<b>CONNIE HUTZELL</b> 1080636741	A D	GERALDINE SLAUGH	
V2048		DALLAS FIRE STATION # 7		6010 DAVENPORT RD	75040
	J D	VACANT	ΑR	DALLAS DELISA DAY 1080816360	75248
V2050		PRESTONWOOD ELEM SCHOOL		6525 LA COSA DR	
	JR	<b>CARON HILL</b> 1080486050	A D	DALLAS  PATRICIA SHAUGHNE 1080633751	75248 <b>SSY</b>

# **JUDGES AND ALTERNATE JUDGES** SUBMISSION

### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V2051		SPRING CREEK ELEM-RISD		7667 ROUNDROCK RD DALLAS	75248
	J R	<b>JASON FRANNEA</b> 1081163280	A D	ELIZABETH HOFFMAN 2131860564	
V2052		FRETZ PARK LIBRARY		6990 BELT LINE RD DALLAS	75254
	J R	<b>BILL THORESON</b> 1081627091	A D	<b>KENNETH CARROLL</b> 1083657399	. 020 .
V2056		KING OF GLORY LUTHERAN CHURCH		6411 LBJ FWY DALLAS	75240
	JR	<b>LESLIE HUBER</b> 1081195485	A D	STEPHANIE GROSSMA 1079390483	
V2058		PARK CENTRAL BAPTIST CHURCH		7777 LBJ FWY DALLAS	75251
	J R	<b>LUANN HOBBES</b> 1081767964	A D	MARCY HELFAND 1080238636	73231
V2059		BETHANY LUTHERAN CHURCH		10101 WALNUT HILL LN	
	JR	<b>DANA KIMBROUGH</b> 1080691417	A D	DALLAS GERALD OAKLEY 1041328687	75238
V2060		NORTHLAKE ELEM SCH - RISD		10059 RAVENSWAY DF	-
	JR	PASCAL MUSCANERE 1085986953	A D	DALLAS WILLIAM CRAIN 1080480694	75238
V2061		LAKE HIGHLANDS ELEM SCHOOL		9501 FERNDALE RD	
	J R	<b>ROGER PRYOR</b> 1080742298	A D	DALLAS  MARGUERITE SARTAII 1078762517	75238 <b>N</b>

# **JUDGES AND ALTERNATE JUDGES** SUBMISSION

# **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V2062		LAKE HIGHLANDS JR HIGH		10301 WALNUT HILL L	N
	JR	KATIE WINNIFORD 1088166367	A D	DALLAS SCOTT BALL 1055833078	75238
V2063		WALLACE ELEM SCHOOL-RISD		9921 KIRKHAVEN DR DALLAS	75238
	JR	<b>SUSAN FOUNTAIN</b> 1079397554	A D	<b>SHARON K. THOMPSO</b> 1206631202	ON
V2064		HIGHLAND OAKS CHURCH OF CHRIST		10805 WALNUT HILL L DALLAS	N 75238
	J D	<b>SCOTT HADDEN</b> 1083878594	AR	CATHERINE MARRS 1081031800	
V2065		VICTOR HEXTER ELEM SCHOOL		9720 WATERVIEW RD DALLAS	75218
	J D	<b>PATRICIA FINK</b> 1086450334	A R	<b>GRANT READING</b> 1083331962	
V2066		LAKE HIGHLANDS NORTH REC CTR		9940 WHITE ROCK TR DALLAS	L 75238
	JR	<b>YVETTE ATKINS</b> 1083886265	A D	KENNETH STEWART 1139526555	
V2067		L L HOTCHKISS ELEM SCHOOL		6929 TOWN NORTH D DALLAS	R 75231
	J R	<b>JOHN BROWN</b> 1087202550	A D	KAREN POTASZNIK 1082993532	
V2068		DAN D ROGERS ELEM SCHOOL		5314 ABRAMS RD DALLAS	75214
	J D	<b>KEITH BURESH</b> 1083709383	A R	<b>LISA CAUSEY</b> 1079267331	7 32 17

# **JUDGES AND ALTERNATE JUDGES** SUBMISSION

# **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V2069		RIDGEWOOD REC CENTER		6818 FISHER RD DALLAS	75214
	JR	<b>DAN PICKENS</b> 1083285652	ΑС	<b>ADAN GONZALEZ</b> 2024262328	
V2071		LAKEWOOD ELEM SCHOOL		3000 HILLBROOK ST	
				DALLAS	75214
	JR	<b>ROXAN STAFF</b> 1080964968	ΑС	PATRICIA COLE 1015426266	
V2072		NORTHRIDGE PRESBYTERIAN CHURC	Н	6920 BOB-O-LINK DR	
				DALLAS	75214
	JR	<b>WILLIAM HAUGEN</b> 1082759879	ΑС	<b>PAULA GRAHAM</b> 1083298922	
V2073		BATH HOUSE CULTURAL CENTER		521 E LAWTHER DR	
				DALLAS	75218
	J D	<b>JANE BYE</b> 2003397959	AF	VANESSA POGUE-CO 1078726334	LLINS
V2077		E D WALKER MIDDLE SCHOOL		12532 NUESTRA DR	
				DALLAS	75230
	J R	CARLA MCCLANAHAN 1081523702	ΑС	KRISTIN MALMBERG 1083291974	
V2079		ANNE FRANK ELEM SCHOOL		5201 CELESTIAL RD	
				DALLAS	75254
	J D	<b>WENDY CAMPBELL</b> 1083660152	AF	1083553372	
V2201		CENTRAL CHRISTIAN CHURCH		4711 WESTSIDE DR	
				DALLAS	75209
	JR	<b>WHITNEY MATHES</b> 1088553199	ΑС	NANCY EILEEN GREG 1083533167	ORY

# JUDGES AND ALTERNATE JUDGES SUBMISSION

# **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V2203		JOHN S ARMSTRONG ELEM		3600 CORNELL AVE	
				DALLAS	75205
	J R	<b>TERENCE HUFFINES</b> 1173634072	A D	LILLIAN STEPHENSON 1082255863	N
V2220		UNIVERSITY PARK UNITED METHODIS	Т	4024 CARUTH BLVD	
		CHURCH		DALLAS	75225
	J R	<b>BETH BIESEL</b> 1081388439	A D	CANDIS MORRIS-HINE 1080976018	S
V2221		JOHN S. BRADFIELD ELEMENTARY		4300 SOUTHERN AVE	
				DALLAS	75205
	JR	LAURA ELIZABETH BIESEL 1177848707	A D	VICTORIA GLIKIN 2128090756	
V2223		UNIVERSITY PARK SCH-W		3505 AMHERST AVE	
				DALLAS	75225
	J R	GRANT LAUGHLIN 1081193835	A D	<b>DOROTHY MUNDY</b> 1078209802	
V2224		HIGHLAND PARK MIDDLE SCHOOL		3555 GRANADA DR	
				DALLAS	75205
	J R	<b>JAMES HAIRSTON</b> 1083846182	A D	<b>GINA WEBER</b> 1082350493	
V2225		SMU/HUGHES-TRIGGS STUDENT CTR		3140 DYER ST	
				DALLAS	75205
	JR	<b>KAREN WATSON</b> 1085781689	A D	PRECIOUS WASHING 1079737261	ΓON
V2226		HIGHLAND PARK ISD ADMIN BLDG		7015 WESTCHESTER	DR
				DALLAS	75205
	JR	<b>CINDY HOLIDAY</b> 1083072882	A D	<b>LEIGH BAILEY</b> 1163243128	

# JUDGES AND ALTERNATE JUDGES SUBMISSION

#### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

1/0000			0700 \/AL\A/CCC D/CCC	,
V2300	ST ANDREWS EPISCOPAL CHURCH		2783 VALWOOD PKWY	
			FARMERS BRAN	75234
* J 🗆	JEFFREY RASANSKY	A R	DAVID BELL	
	1083338266		1083082796	
V2301	LOOS FIELD HOUSE		3815 SPRING VALLEY	RD
			ADDISON	75001
JF	CANDACE ADAMS	A D	VINCENT PERUCCA	
	1079063097		1082525295	
V2302	VIVIAN FIELD MIDDLE SCHOOL		13551 DENNIS LN	
			FARMERS BRAN	75234
* J 🛭	GARY ADELMAN	A R	DAVID BEARDSLEY	
	1166270367		1192734611	
V2303	FARMERS BRANCH RECREATION CEN	TER	14050 HEARTSIDE PL	
			FARMERS BRAN	75234
* J 🛭	SARAH BEREL-HARROP	A R	ALBERT SOLIS	
	1120030133		1083618971	
V2305	FARMERS BRANCH MANSKE LIBRARY	,	13613 WEBB CHAPEL	RD
			FARMERS BRAN	75234
JF	SUSAN WHITING	A D	PAUL HELLER	
	1086031773		1082657079	
V2306	CHAPEL HILL PREPARATORY SCHOOL	-	12701 TEMPLETON TR	RL
			DALLAS	75234
JF	CARL SCOTTOW	A D	BEN KRAGE	
	1090689342		1080520751	
V2307	BROOKHAVEN COLLEGE		3939 VALLEY VIEW LN	
			FARMERS BRAN	75244
JF	CAREY CONN	A D	LAWRENCE SPENCER	2
	1027375128		1079040091	

### **JUDGES AND ALTERNATE JUDGES SUBMISSION**

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V2310		WEBB CHAPEL UN METH CHUR		2536 VALLEY VIEW LN FARMERS BRAN	75234
	JR	<b>JUDITH SAMUEL</b> 1083833402	A D	<b>ASHLEY O'NEILL</b> 1081827951	
V2401		TED POLK MIDDLE SCHOOL		2001 KELLY BLVD CARROLLTON	75006
	J R	<b>BOBBY WADSWORTH</b> 1080813559	A D	TERRI ROMINE-ORTEC 1082884031	GA
V2402		MCCOY ELEMENTARY SCHOOL		2425 MCCOY RD CARROLLTON	75006
	J D	<b>ANGIE COLE</b> 1199340128	AR	SUSAN MORRISSEY 1080523276	
V2403		JERRY R JUNKINS ELEM SCHOOL		2808 RUNNING DUKE I	OR 75006
	J D	<b>DAVID MIRANDA</b> 1174453484	AR	<b>JENNIFER TURNER</b> 1084997597	
V2404		BLANTON ELEM SCHOOL		2525 SCOTT MILL RD CARROLLTON	75006
	J D	IVAN HISTAND 1169430634	A R	<b>TEENA MARKS</b> 2148784800	
V2405		NEWMAN SMITH HIGH SCHOOL		2335 N JOSEY LN CARROLLTON	75006
	J R	<b>JOHN MAYFIELD</b> 1082963418	A D	ERIC SPETT 1082888047	70000
V2406		KELLER SPRINGS BAPTIST CHUR		3227 KELLER SPRINGS	
	J D	BEVERLY CROCKETT 1086910410	A R	CARROLLTON GEORGE SIMONS 1088198918	75006

## JUDGES AND ALTERNATE JUDGES SUBMISSION

#### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V2407 JOSEY RANCH LAKE LIBRARY		1700 KELLER SPRINGS RD		
	J D	CAROLYN RUTKOWSKI 1081450162	ΑR	CARROLLTON 75006 <b>JOHN JONES</b> 2141590064
V2408		CROSBY RECREATION CENTER		1610 E CROSBY RD CARROLLTON 75006
	JΒ	JOHN YOURSE 1085125491	AR	<b>DAN CLAIBORNE</b> 1083148970
V2409		NORTH DALLAS FAMILY CHURCH		1700 S JOSEY LN CARROLLTON 75006
	J D	<b>JANICE BALLOU</b> 1124546877	A R	<b>KELLEY BOULTON</b> 1208621480
V2500		GREENWOOD HILLS ELEM SCHOOL		1313 W SHORE DR RICHARDSON 75080
*	J D	<b>ANNAMARIE FERGUSON</b> 1086369739	AR	FELY EICHENBERGER 1082454700
V2501		CANYON CREEK ELEM SCHOOL		2100 COPPER RIDGE DR RICHARDSON 75080
	JR	<b>EDWARD DEES</b> 1083394503	A D	<b>CAROL COULTER</b> 1154216320
V2502		PRAIRIE CREEK ELEM SCHOOL		2120 E PRAIRIE CREEK DR RICHARDSON 75080
	J R	<b>BONNIE WELLS</b> 1083321086	A D	
V2503		MOHAWK ELEM SCHOOL		1500 MIMOSA DR
	J R	JILLIAN ZHORNE 1088544807	A D	RICHARDSON 75080  COLLEEN MARTIN 1081481939

### **JUDGES AND ALTERNATE JUDGES** SUBMISSION

### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V2504	ΙR	RICHARDSON N JR HIGH SCHOOL  TIM SEAMAN	ΔΓ	1820 N FLOYD RD RICHARDSON DONNA BULLARD	75080
	3 10	1081536131	Λ L	1082842248	
V2505		NORTHRICH ELEM SCHOOL		1301 CUSTER RD	75000
*	J D	AHMED ZAYAN	A F	RICHARDSON  R KURT JOHNSON	75080
		1184337559		1083638521	
V2506		ARAPAHO CLASSICAL MAGNET SCHOOL	OL	1300 CYPRESS DR	75000
	ΙD	KATHERINE THOMAS	ΑГ	RICHARDSON  NICOLA STOUT	75080
	J 1X	1083747970	Λ L	1080127770	
V2507		RICHARDSON HEIGHTS ELEM		101 N FLOYD RD	
	LD	LU A FADMED	л г	RICHARDSON  RICHARD COADY	75080
	JK	<b>LILA FARMER</b> 1087517943	AL	1083585447	
V2508		RICHARDSON TERRACE ELEMENTARY	•	300 N DOROTHY DR	
		EDANK COONEY	۸ ٦	RICHARDSON	75081
	JЪ	FRANK COONEY 1081828364	Аг	R <b>BILL LOVELL</b> 1082754772	
V2509		CARE CHURCH		1504 E CAMPBELL RD	
				RICHARDSON	75081
	JR	ALETA JODY LUBBERS 1080217960	ΑΓ	<b>EVELYN ROBERSON</b> 1083733959	
V2510		YALE ELEM SCHOOL		1900 E COLLINS BLVD	)
				RICHARDSON	75081
	JR	ROWELL LUBBERS 1083340864	ΑГ	1082537090	

### **JUDGES AND ALTERNATE JUDGES** SUBMISSION

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V2511		DARTMOUTH ELEM SCHOOL		417 DARTMOUTH LN RICHARDSON	75081
	JR	<b>JOHN AMIS</b> 1083377920	A D	LAUREL JOHNSON 1080799624	
V2513		SPRINGRIDGE ELEMENTARY SCHOOL		1801 E SPRING VALLE RICHARDSON	Y RD 75081
	J D	CATHERINE TAYLOR 1081340353	AR	<b>ALYCE SCHMITT</b> 1086416242	
V2514		JESS HARBEN ELEM SCHOOL		600 S GLENVILLE DR RICHARDSON	75081
	JR	<b>HELEN CALDWELL</b> 1080890691	A D	<b>MARIA RAMIREZ-BON</b> 1080571156	ER
V2516		RICHARDSON CIVIC CENTER		411 W ARAPAHO RD RICHARDSON	75080
	J R	<b>KERRY GAINES</b> 1078943836	A D	<b>LORI RALEY</b> 1081065167	
V2601		VALLEY RANCH ELEM SCHOOL		9800 RODEO DR IRVING	75063
	J D	<b>FRANCINE LY</b> 1084492936	A R	MIKE WILCOX 1088473208	
V2602		CIMARRON RECREATION CENTER		201 RED RIVER TRL IRVING	75063
	J D	CRYSTAL HENDERSON 1163599310	A R	<b>RICK TUBB</b> 1080787814	
V2603		FREEMAN ELEM SCHOOL-CFBISD		8757 VALLEY RANCH IRVING	PKWY 75063
*	J D	SILVIA ZAMORA-SANDERS 1182803778	A R	BRIAN SCHRADER 1165399036	

### **JUDGES AND ALTERNATE JUDGES** SUBMISSION

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V2604		VALLEY RANCH BRANCH LIBRARY		401 CIMARRON TRL IRVING	75063
*	JD	<b>KENDRA HENRY</b> 2147279556	AR	KASSIOPIA JACKSON 1154939594	
V2700		BIG SPRINGS ELEM SCHOOL		3301 W CAMPBELL RD	)
				GARLAND	75044
	J D	RACHEL BAKER FORD 1082285745	AR	BARBARA STAUFFER 1083819544	
V2701		SPRINGPARK SPORTS CLUB		3330 SPRINGPARK WA	·Υ
				GARLAND	75044
	J R	BRIAN JENSEN 1082830242	A D	BRIDGETTE SCOTT 1085972877	
V2702		SPRING CREEK ELEM -GISD		1510 SPRING CREEK [	)R
				GARLAND	75040
	J R	<b>MAIKA RODRI</b> 1161101166	A D	LINDSEY TROUSDALE 1132853408	
V2704		NORTH GARLAND BRANCH LIBRARY		3845 N GARLAND AVE	
				GARLAND	75040
	J D	SANDRA FRANKLIN 1081451706	AR	<b>BOB J. BROWN</b> 1083197846	
V2705		HICKMAN ELEM SCHOOL		3114 PINEWOOD DR	
				GARLAND	75044
*	JD	<b>TANESA LEE</b> 1077548082	AR	MARGARET HOFFELD 1083369251	
V2706		WALLACE ETHRIDGE ELEM SCHOOL		2301 SAM HOUSTON D	)R
				GARLAND	75044
	J R	<b>DWIGHT DAVIS</b> 1083075912	A D	<b>MICHAEL BAKER</b> 1081957598	

# JUDGES AND ALTERNATE JUDGES SUBMISSION

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V2709		COOPER ELEM SCHOOL		1200 KINGSBRIDGE D GARLAND	PR 75040
	JR	ANDREW CASTILLO 2001963376	A D	<b>TARA MCCLINTON</b> 1159830220	70040
V2710		LISTER ELEM SCHOOL		3131 MARS DR GARLAND	75040
	J D	<b>MAURI LONG</b> 1079402451	AR	ANNETTE RATLIFF 1083476360	
V2712		NORTHLAKE ELEM SCHOOL -GISD		1626 BOSQUE DR GARLAND	75040
	J D	JENNIFER GOUGE 1081364922	AR	<b>MIKE FLEMING</b> 1040620107	
V2713		CLUB HILL ELEM SCHOOL		1330 COLONEL DR GARLAND	75043
	JR	<b>PAMELA HAIR</b> 1078043152	A D	<b>WESLEY JOHNSON</b> 1081297687	
V2714		LYLES MIDDLE SCHOOL		4655 S COUNTRY CLU	
	J D	LINDSEY FIEGELMAN 1087561810	ΑR	GARLAND SHARON STACHA 1078997183	75043
V2715		NORTHSIDE BAPTIST CHURCH-GA		2510 N GLENBROOK I GARLAND	OR 75040
	J R	<b>JAMES MURPHY</b> 1080279234	A D	DORRIS JOHNSON 1078785642	73040
V2801		COPPELL ARTS CENTER		505 TRAVIS ST	75040
	J R	<b>ADRIA GER</b> 1083429137	A D	COPPELL BETSABETH LUGO 1170182794	75019

### **JUDGES AND ALTERNATE JUDGES** SUBMISSION

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V2802		WILSON ELEMENTARY SCHOOL		200 S COPPELL RD COPPELL	75019
*	JR	JANINA VALDEZ SOLOMON 1139034404	A D	<b>NANCY WANG</b> 1081409787	
V2803		MOCKINGBIRD ELEM SCHOOL		300 MOCKINGBIRD LN	75019
	JR	MAUREEN VANACORE 1082428720	A D	<b>CLAIRE EBERT</b> 1179743613	
V2805		COPPELL TOWN CENTER		255 E PARKWAY BLVD COPPELL	75019
	JR	WILLIAM HURLBERT 1081435648	A D	<b>THOMAS TRAHAN</b> 1214155409	
V2807		LAKESIDE ELEM SCHOOL-COISD		1100 VILLAGE PKWY COPPELL	75019
	JR	<b>WANDA CARROLL</b> 1082023057	A D	<b>CYNTHIA SALIT</b> 1088044702	
V2808		COTTONWOOD CREEK ELEM SCH		615 MINYARD DR COPPELL	75019
	JR	<b>DAVID JENKINS</b> 1083114450	A D	<b>NICHOLI HOSKINS</b> 1083769882	
V2809		RIVERCHASE ELEM SCHOOL		272 S MACARTHUR BL	VD 75019
	JR	<b>SONAL TANDALE</b> 2126547938	A D	ANGELA GIBSON-PITT 1086370034	
V2900		ADDISON FIRE STATION # 2		3950 BELTWAY DR	75004
	J R	<b>LOLA HURT</b> 1086368459	A D	ADDISON <b>DAVID GRIGGS</b> 1083697799	75001

### **JUDGES AND ALTERNATE JUDGES** SUBMISSION

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V2902		ADDISON FIRE STATION # 1		4798 AIRPORT PKWY ADDISON	75001
	J D	<b>TERRY BARKER</b> 1082988961	AR	<b>TANYA SMITH</b> 1153507020	
V2920		COYLE MIDDLE SCHOOL		4500 SKYLINE DR ROWLETT	75088
	JR	JAMES WIEDERHOLD 1081238870	A D	<b>LASHANDIA HARRIS</b> 1078899053	
V2921		BACK ELEM SCHOOL		7300 BLUEBONNET DI ROWLETT	₹ 75089
	JR	<b>JORDAN VOOR</b> 1104213322	A D	<b>LESLIE MONTENA</b> 1086312774	
V2922		LIBERTY GROVE ELEM SCHOOL		10201 LIBERTY GROV ROWLETT	E RD 75089
	JR	JOANN CURRAN 1079349422	A D	ANNETTE DOUGLAS 1079993560	
V2924		ROWLETT CITY HALL ANNEX		4004 MAIN ST ROWLETT	75088
	JR	<b>JOHN SIMONTON</b> 1081089367	A D	<b>WATHENIA CLARK</b> 1087121892	. 0000
V2925		ROWLETT ELEM SCHOOL		3315 CARLA DR ROWLETT	75088
	J R	<b>TE SUMNER</b> 1085971861	A D	KENDRA PREVOST 1086212928	7000
V2926		HERFURTH ELEM SCHOOL		7500 MILLER RD	75000
	JR	<b>DAVID ELAM</b> 1187052892	A D	ROWLETT SOPHIA THOMAS 2000579641	75088

### **JUDGES AND ALTERNATE JUDGES** SUBMISSION

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V2927	JR	SCHRADE MIDDLE SCHOOL  CHAD MANLEY 2125179831	A D	6201 DANRIDGE RD ROWLETT JILL PETERS 1081622051	75089
V2940	JR	CHASE OAKS CHURCH-WOODBRIDGE CAMPUS GARY OVERBY 1083556850	A D	2709 3RD ST SACHSE WAFA ISMAIL 1183447242	75048
V2941	JR	CHRISTINE PEREZ 1024316377	A D	3815 SACHSE RD, BLD SACHSE SANDRA RICHARDSO 1083592585	75048
V2942	JR	ROBERT VAN BLOEMENDAAL 1144047166	A D	4405 HUDSON DR SACHSE <b>DAVID SANTUCCI</b> 1083697656	75048
V3000	J D	WILLIAM B TRAVIS ACADEMY  ANDREA BARREIRO 1192292819	ΑR	3001 MCKINNEY AVE DALLAS ALEXANDER KELIHER 1200429234	75204 R
V3003	J D	T W BROWNE MIDDLE SCHOOL  JOE TAVE 1084639238	ΑR	3333 SPRAGUE DR DALLAS SARAH WESTGUARD 1089069418	75233
V3004	JD	DANIEL WEBSTER ELEM SCHOOL  MARTIN BURRELL 1087123260	ΑR	3815 S FRANKLIN ST DALLAS VACANT	75233

# JUDGES AND ALTERNATE JUDGES SUBMISSION

#### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V3007	EL CENTRO COLLEGE-MAIN CAMPUS		801 MAIN ST DALLAS	75202
J D	<b>DORIS SMITH</b> 1078986521	A R	<b>REX MACAYLO</b> 2147663264	73202
V3008	GEORGE L ALLEN SR. COURTS BLDG		600 COMMERCE ST DALLAS	75202
* JD	DRUCILLA EMANUEL 1117843006	A R	<b>GINA GENTILE</b> 1087271172	73202
V3009	EXALL RECREATION CENTER		1355 ADAIR ST DALLAS	75204
* JD	YAFEUH SHAMSID DEEN 1078536184	AR	KIRK KENNEDY 1082841478	73204
V3011	ST EDWARDS CATHOLIC CHURCH		4033 ELM ST DALLAS	75226
* JD	ELAINE CAMPBELL 1083282524	A R	ROBERT RENTERIA 1194978134	73220
V3016	BILL J PRIEST INSTITUTE		1402 CORINTH ST	75045
J D	VINCENT RODRIQUEZ 1083458540	A R	DALLAS HELEN COLLINS 1081081767	75215
V3017	MARTIN LUTHER KING JR LEARNING	CTR	1817 WARREN AVE	75045
J D	<b>GERRE WILLIAMS</b> 1186300576	A R	DALLAS BRIAN FABIAN 1075968533	75215
V3018	PARK SOUTH YMCA		2500 ROMINE AVE	75045
J D	<b>SAUNDRA RAY</b> 1083182191	A R	DALLAS <b>PAUL SCHLOSBERG</b> 1088199026	75215

### **JUDGES AND ALTERNATE JUDGES SUBMISSION**

### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V3019		JAMES MADISON HIGH SCHOOL		3000 MLK BLVD	
				DALLAS	75215
	J D	MYRTLE BROWN	ΑR	VACANT	
		1083324195			
V3020		MARTIN LUTHER KING CORE BLDG		2922 MARTIN L KING E	BLVD
				DALLAS	75215
	J D	KAJUANA YOUNG	ΑR	TANA HENSLEY	
		1081975373		1215648039	
V3022		IRMA RANGEL-YOUNG WOMEN'S SCH	OOL	1718 ROBERT B CULL	UM BL
				DALLAS	75210
	J D	VACANT	ΑR	VACANT	
V3025		MT HOREB BAPTIST CHURCH		3306 CARPENTER AVE	Ξ
				DALLAS	75215
*	JD	DR. FELICIA SHEPHERD	A R	LATRESE ADKINS	
		1077971369		1151196150	
V3026		ST PAUL BAPTIST CHURCH		1600 PEAR ST	
				DALLAS	75215
	J D	NICOLE SIMS	A R	SUSAN BLACKBURN	
		1086954383		1085508387	
V3027		LINCOLN HIGH SCHOOL -CHM		2826 ELSIE FAYE HEG	GINS
				DALLAS	75215
	J D	BETTY HOOEY	A R	VACANT	
		1083931895			
V3029		EVANGELIST TEMPLE CHURCH		2627 DORRIS ST	
				DALLAS	75215
	J D	<b>MICHAEL WEBB</b> 1084396787	A R	<b>RICK SUMMEY</b> 1080851563	

### **JUDGES AND ALTERNATE JUDGES SUBMISSION**

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V3032		HECTOR P GARCIA MIDDLE SCHOOL-	DISD	700 E 8TH ST	
				DALLAS	75203
	J D	<b>JOSHUA LLOYD</b> 1083822463	AR	VACANT	
V3034		GREATER MT PLEASANT BAPTIST CHU	JRCH	1403 MORRELL AVE	
				DALLAS	75203
	J D	<b>GLORIA JAMES</b> 1079493683	AR	VACANT	
V3035		F D ROOSEVELT HIGH SCHOOL		525 BONNIE VIEW RD	
				DALLAS	75203
	J D	<b>ANNIE NEWMAN</b> 1085821864	AR	<b>MICHAEL QUINT</b> 1083802277	
V3038		THE WAY-TRUTH-LIFE CHRISTIAN CHU	IRCH	1702 S DENLEY DR	
				DALLAS	75216
	J D	DR. NETTIESTINE SMITH 1085683520	AR	VACANT	
V3039		OLIVER W HOLMES MIDDLE SCHOOL		2001 E KIEST BLVD	
				DALLAS	75216
	J D	MICHAEL KING 1084680208	AR	VACANT	
V3040		GOOD STREET BAPTIST CHURCH		3110 BONNIE VIEW RE	)
				DALLAS	75216
	J D	<b>JAMES BAKER</b> 1083964323	A R	VACANT	
V3042		JOHN NEELY BRYAN ELEM SCHOOL		2001 DEER PATH DR	
•				DALLAS	75216
	J D	<b>MAE CHOICE</b> 1084055952	A R	VACANT	

# JUDGES AND ALTERNATE JUDGES SUBMISSION

#### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V3043		PAUL L DUNBAR LANCASTER-KEIST LIBRARY		2008 EAST KIEST BLVI DALLAS	D 75216
	J D	KIMBERLY RICHARDSON 2002192443	AR	VACANT	
V3044		W W BUSHMAN ELEM SCHOOL		4200 BONNIE VIEW RE	)
				DALLAS	75216
*	JD	<b>VANESSA SCOTT</b> 1079127393	AR	VACANT	
V3045		GETHSEMANE MISSIONARY BAPTIST		4600 SOLAR LN	
		CHURCH		DALLAS	75216
	J D	CLAUDIA FOWLER 1084206721	AR	<b>MARILYN TAYLOR</b> 1086737074	
V3046		JOHN W CARPENTER ELEM SCHOOL		2121 TOSCA LN	
				DALLAS	75224
	J D	BEATRICE LOVETT 1085768325	AR	<b>CHRIS WRIGHT</b> 1085088769	
V3047		CFNI STUDENT CENTER		444 FAWN RIDGE DR	
				DALLAS	75224
	J D	MARGARET CUMBY 1084916691	AR	<b>OSCAR BRACKS</b> 1080943055	
V3048		SOUTH OAK CLIFF HIGH SCHOOL		3601 S MARSALIS AVE	
				DALLAS	75216
	J D	<b>RUTH WYRICK</b> 1184488981	AR	<b>CAROL NICHOLS</b> 1083358072	
V3049		CLARA OLIVER ELEM SCHOOL		4010 IDAHO AVE	
				DALLAS	75216
	J D	ARTHERINE PRIESTON 1085502414	AR	<b>LORI SCHMIDT</b> 1083707732	

# JUDGES AND ALTERNATE JUDGES SUBMISSION

#### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V3050		HIHOLLAND ELEM SCHOOL @ LISBOI	N	4203 S LANCASTER RD	
				DALLAS	75216
	J D	JESSE LIPSCOMB	A R	VACANT	
		1085563946			
V3051		FOUNTAIN OF THE LIVING WORD CHUI	RCH	2543 E LEDBETTER DI	₹
				DALLAS	75216
	J D	MYRTLE JOHNSON	A R	VACANT	
		1084174414			
V3052		ELISHA M PEASE ELEM SCHOOL		2914 CUMMINGS ST	
				DALLAS	75216
	J D	LINDA WYNN	A R	MURDOCK GIBBS	
		1084012458		1081960782	
V3054		W M HAWLEY ATWELL LAW ACADEMY	•	1303 REYNOLDSTON	LN
				DALLAS	75232
*	J D	BARBARA LEWIS	A R	VACANT	
		1084113729			
V3055		ADELLE TURNER ELEM SCHOOL		5505 S POLK ST	
				DALLAS	75232
	J D	VIVIAN HILL	A R	TAFT THOMPSON	
		1085582005		2002497781	
V3056		MARK TWAIN LEADERSHIP VANGUARD	)	724 GREEN COVE LN	
				DALLAS	75232
	J D	KEBRAN ALEXANDER	A R	VACANT	
		1088542947			
V3057		TG TERRY ELEM SCHOOL		6661 GREENSPAN AVI	
				DALLAS	75232
	J D	LAWSON L TURNER, JR 1084209031	A R	VACANT	

### **JUDGES AND ALTERNATE JUDGES** SUBMISSION

#### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V3058		ST PAUL LUTHERAN CHURCH		5725 S MARSALIS AVE	75241
	J D	<b>GARLINE SHAW</b> 1084111329	A R	LINDA CHILES 1083107634	70241
V3059		IDEAL FAMILY CHURCH		1000 E REDBIRD LN DALLAS	75241
*	J D	<b>STEPHANIE WARD</b> 1084603854	A R	KENNETH BROWN 1085063095	73241
V3060		R L THORNTON ELEM SCHOOL		6011 OLD OX RD	75044
	J D	MARY LUCKEY 1085437050	A R	DALLAS  DUANE NICCUM  1079283813	75241
V3061		BOML ACADEMY @ A MACEO SMITH		3030 STAG RD	75044
*	J D	<b>BARBARA FLUKER</b> 1086417659	A R	DALLAS VACANT	75241
V3062		J N ERVIN ELEM SCHOOL		3722 BLACK OAK DR	
	J D	BOADICEA WHITE-MATHIS 1085728390	A R	DALLAS VACANT	75241
V3063		RONALD E MCNAIR ELEM SCHOOL		3150 BAINBRIDGE AVE	
	J D	<b>DOROTHY WHALEY</b> 1084486087	A R	DALLAS GLORIA CAFFEY 1084247747	75237
V3064		FRIENDSHIP WEST BAPTIST CHURCH		2020 WHEATLAND RD	
	J D	<b>DIANNA JACKSON</b> * 1188905807	A R	DALLAS RICHARD SCHELL 2163200077	75232

# JUDGES AND ALTERNATE JUDGES SUBMISSION

#### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V3065		UMPHREY LEE ELEM SCHOOL		7808 RACINE DR	
				DALLAS	75232
	J D	SEDONIA KIDD	$A\;R$	VACANT	
		1084030181			
V3066		MARTIN WEISS ELEM SCHOOL		8601 WILLOUGHBY BL	VD
				DALLAS	75232
*	J D	TIPHANIE PAIGE	A R	VACANT	
		1084779236			
V3067		DA HULCY STEAM MIDDLE SCHOOL		9339 S POLK ST	
				DALLAS	75232
	J D	ERIC JOHNSON	A R	VACANT	
		1085357826			
V3068		SINGING HILLS REC CENTER		6805 PATROL WAY	
				DALLAS	75241
*	J D	ELIZA STEWARD	$A\;R$	VACANT	
		1084082098			
V3069		CORNERSTONE COMMUNITY CHURCH		2817 CHERRY VALLEY	BLVD
				DALLAS	75241
	J D	NARLON CLEMONS	A R	RUTH HODGE	
		1084067852		1084247515	
V3070		TOMMIE ALLEN REC CENTER		7071 BONNIE VIEW RD	)
				DALLAS	75241
*	J D	YOLONDA HIGHTOWER	$A\;R$	VACANT	
		1183033951			
V3071		HIGHLAND HILLS UN METHODIST CHU	RCH	3800 SIMPSON STUAR	T RD
				DALLAS	75241
	J D	<b>DEBRA HARWELL</b> 1085347666	A R	VACANT	
		1000011000			

# JUDGES AND ALTERNATE JUDGES SUBMISSION

#### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V3072		CEDAR VALLEY COLLEGE-M BLDG		3030 N DALLAS AVE LANCASTER	75134
	J D	ANTHONY FORCELLEDO 2147481103	AR	<b>FRANKLIN HILL</b> 1082384563	
V3073		HIGHLAND HILLS LIBRARY		6200 BONNIE VIEW R	
*	JD	<b>DERRICK TALTON</b> 1082158782	ΑR	DALLAS RICHARD CAREY 1082255956	75241
V3075		WILMER-HUTCHINS HIGH SCHOOL		5520 LANGDON RD	
	JD	LATORRY JACKSON 1086078204	ΑR	DALLAS VACANT	75241
V3078		PARK IN THE WOODS REC CENTER		6801 MOUNTAIN CRE	
	J D	<b>WILLIAM HILL</b> 1084547091	ΑR	DALLAS MICHAEL PRICE 1079147706	75249
V3079		HENRIE ELEMENTARY SCHOOL		253 W LAWSON RD	
*	JD	<b>DESHAYLA JEFFERSON</b> 1086541161	ΑR	DALLAS VACANT	75253
V3080		KLEBERG/RYLIE REC CENTER		1515 EDD RD	
	JD	LANTRESA WILLIAMS 1149350470	* AR	DALLAS EUGENE RALPH SR 1172356345	75253
V3081		BOOKER T WASHINGTON HIGH SCHO	OOL	2501 FLORA ST	
	JR	<b>ANDREW NELSON</b> 1150547398	A D	DALLAS <b>DEMEKA WILLIAMS</b> 1181084551	75201

# JUDGES AND ALTERNATE JUDGES SUBMISSION

#### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V3082		W A BLAIR ELEM SCHOOL		7720 GAYGLEN DR DALLAS	75217
* J	J D	<b>YVONNE BRANCH</b> 1187550605	AR	<b>SANDRA STINSON</b> 1080809676	
V3083		EBBY HALLIDAY ELEM SCHOOL		10210 TEAGARDEN RE	75217
J	JD	<b>JOHNNIE GOINS</b> 1085371470	AR	<b>CORNELL HILL</b> 1201783288	
V3090		JONSSON CENTRAL LIBRARY		1515 YOUNG ST DALLAS	75201
* J	J D	<b>CINTHY WHEAT</b> 1078734011	A R	VACANT	
V3092		THURGOOD MARSHALL REC CENTER		5150 MARK TRAIL WAY	Y 75232
* J	JD	<b>MARY HARRISON</b> 1084361794	A R	ANNA NELSON 1085806489	70202
V3097		UNIVERSITY OF NORTH TEXAS AT DAL	LAS	7300 UNIVERSITY HILL DALLAS	S BLV 75241
J	J D	<b>WANDA DAVIS</b> 1085640159	A R	<b>SHARON HAYDEN</b> 1083730855	73241
V3100		CEDAR HILL RECREATION CENTER		310 E PARKERVILLE R CEDAR HILL	D 75104
J	J D	<b>EMELDA MARTIN</b> 1098996319	A R	VICKI QUESADA 1086112910	73104
V3102		KIM LEWIS AUXILIARY SERVICES CTR		202 E BELTLINE RD	75404
J	J D	<b>CONNIE COOK</b> * 1167023746	A R	CEDAR HILL VACANT	75104

### **JUDGES AND ALTERNATE JUDGES** SUBMISSION

#### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V3103		BESSIE COLEMAN MIDDLE SCHOOL		1208 E PLEASANT RUN CEDAR HILL	N RD 75104
	J D	<b>ANNA GREEN</b> 1085484273	A R	TIM PINON 1085560280	
V3104		MADDOX TEACHING & LEARNING CTR		1533 HIGH POINTE LN CEDAR HILL	75104
	J D	DOROTHY CHAMBERS 1184395681	AR	BRIAN HOMOLESKI 1084311830	
V3105		CEDAR HILL GOVERNMENT CENTER-B 100	LDG	285 UPTOWN BLVD CEDAR HILL	75104
	JR	CHRIS JUHL 1156906491	A D	VACANT	
V3106		PLUMMER ELEMENTARY SCHOOL		1203 S CLARK RD CEDAR HILL	75104
	J D	<b>SHARON BARNES</b> 1150183626	A R	<b>LISA THIERRY</b> 1079272292	
V3107		HIGHLANDS ELEM SCHOOL-CHISD		131 SIMS DR CEDAR HILL	75104
	J D	CASSANDRA COOPER 1081972597	AR	<b>LISA PERDUE</b> 1085104587	
V3108		BRAY ELEMENTARY SCHOOL		218 N BROAD ST CEDAR HILL	75104
	J R	<b>ALEXANDER RAY</b> 1220766981	A D	<b>BEVERLY MOORE</b> 1084377837	
V3109		LAKE RIDGE ELEM SCHOOL		1020 LAKE RIDGE PKW CEDAR HILL	/Y 75104
	J D	ERVIN SEAMSTER 1084505618	A R	PATRICK DALE 1121250454	73104

# JUDGES AND ALTERNATE JUDGES SUBMISSION

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V3200	H BOB DANIEL SR INTERMEDIATE SCHO	OL		
J R	<b>KAY KAMM</b> A 1085576105	D	DUNCANVILLE BETTY PITTMAN 1084222777	75137
V3201	ALEXANDER ELEMENTARY SCHOOL		510 SOFTWOOD DR	75.407
* JD	KELLY RAY HERRING JR A 1078173127	R	CAROLINE CREEL 1084759455	75137
V3202	DUNCANVILLE LIBRARY		201 JAMES COLLINS E	
J D	<b>ZINA WEST-LEWIS</b> A 1158644283	R	DUNCANVILLE LISA EARL 1088004035	75116
V3203	DUNCANVILLE'S FIRST BAPTIST CHURCH	Н	323 W WHEATLAND R	. <del>_</del>
J D	ANDREA CURTIS RICHARDSON A	R	DUNCANVILLE VICKI MARSH 1080157320	75116
V3204	REED MIDDLE SCHOOL		530 E FREEMAN ST	
* JD	LASHAUN WALLACE A 2156105602	R	DUNCANVILLE PAUL SETTER 1084345943	75116
V3205	BRANDENBURG INTERMEDIATE SCH-DU	ISD	1903 BLUERIDGE DR	
* JD	TAQUISHA CRAWFORD A	R	DUNCANVILLE ROBERT COOK 1085830782	75137
V3206	BYRD MIDDLE SCHOOL		1040 W WHEATLAND I	RD
JR	KENNETH HOLLINGSWORTH A	D	DUNCANVILLE VACANT	75116

# JUDGES AND ALTERNATE JUDGES SUBMISSION

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V3207		ARISE CHURCH		201 W CENTER ST DUNCANVILLE	75116
	JD	CARLA REYNOLDS-GROGAN 1084450205	A R	<b>DONALD SMITH</b> 1185043334	
V3208		CENTRAL ELEM SCHOOL- DUISD		302 E FREEMAN ST DUNCANVILLE	75116
	JD	<b>TAMMY BRITTON</b> 1085265680	AR	RUSSELL MILLER 1087302744	
V3209		DUNCANVILLE HS PERFORMANCE HA	LL	900 W CAMP WISDOM DUNCANVILLE	RD 75116
	J R	JELENA PETROVIC 1210527199	A D	SHARON JONES 1085560543	73110
V3211		FAIRMEADOWS ELEM SCHOOL		101 E FAIRMEADOWS DUNCANVILLE	DR 75116
	J D	MILLIE WILLIAMS 1078241143	A R	DANEE ROEDL 1083773320	75110
V3300		PORTER ELEM SCHOOL		517 VIA AVENIDA	75450
	J R	<b>STEVE WALTON</b> 1082027025	A D	MESQUITE SHARON WILSON 1167500199	75150
V3301		DUNFORD REC CENTER		1015 GREEN CANYON	
	J R	<b>BRAD UNDERWOOD</b> * 1083853379	A D	MESQUITE SHARITA WASHINGTO 1149912767	75150 <b>DN</b>
V3302		GEORGIA KIMBALL ELEM		4010 CORYELL WAY	
	J R	HELEN MAY NICHOLS 1081126581	A D	MESQUITE ROBERT CHAVEZ 1040643248	75150

# JUDGES AND ALTERNATE JUDGES SUBMISSION

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V3303	J D	DR JC CANNADAY ELEM SCHOOL  SANDRA WEATHERALL 1080877180	ΑR	2701 CHISOLM TRL MESQUITE ED HUDSON 1083491315	75150
V3304	JR	POTEET HIGH SCHOOL  JENNIFER VIDLER 1083249300	A D	3300 POTEET DR MESQUITE CONSTANCE JAHN 1080808878	75150
V3305	J D	MESQUITE CITY HALL  IRAANA MURCHISON 2142409150	ΑR	757 N GALLOWAY AVE MESQUITE PETER SCHROER 1083082037	75149
V3307	J D	W L WILKINSON MIDDLE SCHOOL  LISA THERIOT 1083450677	ΑR	2100 CREST PARK DR MESQUITE RAMON PENSADO 2130640752	? 75149
V3309	J D	LAKESIDE ACTIVITY CENTER  ERICKA THROWER 1083810490	ΑR	101 HOLLEY PARK DR MESQUITE LOUIS HOLMAN 1083098285	75149
V3310	JR	MESQUITE HIGH SCHOOL  SUSAN CUMBY 1080136329	A D	300 E DAVIS ST MESQUITE <b>DEBORAH MOSES</b> 1188387163	75149
V3312	JD	PIRRUNG ELEM SCHOOL  PAULETTE GOSHA LONG 1082618307	ΑR	1500 CREEK VALLEY F MESQUITE CHRISTY MARTINEZ-A 1169154178	75181

# JUDGES AND ALTERNATE JUDGES SUBMISSION

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V3313		J R THOMPSON ELEM SCHOOL		2525 HELEN LN MESQUITE	75181
	J D	<b>SUZANNE HESS</b> 1081809690	AR	<b>MINNIE JONES</b> 1085859172	
V3314		A C NEW MIDDLE SCHOOL		3700 S BELT LINE RD MESQUITE	75181
	J D	<b>KIA WILLIAMS</b> 2168401873	AR	BILL AUGUSTINE 2158817964	
V3315		TISINGER ELEM SCHOOL		1701 HILLCREST ST MESQUITE	75149
	J D	<b>LEON CHANDLER</b> 1191211933	AR	<b>YURI GARCIA</b> 2123031549	
V3316		RUTHERFORD REC CENTER		900 RUTHERFORD DR MESQUITE	75149
	J D	BELINDA WILLIAMS 1083533506	AR	<b>PAUL ALLEN</b> 1081643412	
V3317		HORN HIGH SCHOOL		3300 E CARTWRIGHT	RD 75181
	J D	<b>DARLENE HARDY</b> 1078267318	AR	<b>PATRICK LAURIE</b> 1086521121	
V3400		BALCH SPRINGS CIVIC CENTER		12400 ELAM RD BALCH SPRINGS	75180
	J D	JACQUELINE FAIN 1081261030	A R	MATTHEW PROCTOR 1161440412	75100
V3404		HICKORY TREE BAPTIST CHURCH		3200 HICKORY TREE F	
	J D	NORMA KIMBROUGH 1154730764	ΑR	BALCH SPRINGS VACANT	75180

### **JUDGES AND ALTERNATE JUDGES** SUBMISSION

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V3405		HODGES ELEM SCHOOL		14401 SPRING OAKS I	
	J D	JANICE HARRISON 1083265052	A R	BALCH SPRINGS VACANT	75180
V3408		BALCH SPRINGS RECREATION CENTE	R	4372 SHEPHERD LN BALCH SPRINGS	75180
	J D	<b>ROSIE WALKER</b> 1185042902	AR	MICHAEL LARSEN 1081530805	
V3500		SUNNYVALE TOWN HALL		127 N COLLINS RD SUNNYVALE	75182
	JR	MICHAEL SLATON 1083366675	A D	<b>WANA ALWALEE</b> 1082025955	
V3601		FAITH BIBLE CHURCH		1437 W PLEASANT RU DESOTO	N RD 75115
	J D	<b>TANYA MASON</b> 1085320354	A R	<b>KATHRYN COOK</b> 1085830795	
V3604		RUBY YOUNG ELEM SCHOOL		707 YOUNG BLVD DESOTO	75115
	JD	<b>LAJUANA BARTON</b> 1085803512	AR	<b>KASUNDRA BROWN</b> 1174329060	
V3605		DISCIPLE CENTRAL COMMUNITY CHURCH		901 N POLK ST DESOTO	75115
	J D	<b>PATRICIA CARR</b> 1085720427	A R	GREGORY WHITEMAN 1085771795	I
V3606		THE MEADOWS ELEM SCHOOL		1016 THE MEADOWS I	
*	JD	FORREST JACKSON 1081482460	A R	DESOTO JEFFERY TIPPEN 1086488247	75115

# JUDGES AND ALTERNATE JUDGES SUBMISSION

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V3607	COCKRELL HILL ELEM SCHOOL	425 S COCKRELL HILL RD
JΕ	SANDRA CHAMBERS 1085290496	DESOTO 75115 A R RANCE ALBERT 2150097630
V3609	DESOTO HIGH SCHOOL	600 EAGLE DR DESOTO 75115
* J D	<b>BRENDA HARRIS</b> 1086172521	A R <b>AGNES MONZINGO</b> 1084839328
V3611	DESOTO EAST MIDDLE SCHOOL	601 E BELT LINE RD DESOTO 75115
JD	1166684659	A R <b>DORINA DEMAY</b> 1083084186
V3616	BELT LINE CONFERENCE CENTER	200 E BELT LINE RD DESOTO 75115
* J 🗅	RON BIVINS 1084510252	A R CATHERINA SMITH 1078017082
V3617	GLENN HEIGHTS CITY HALL	1938 S HAMPTON RD GLENN HEIGHTS 75154
JC	<b>ZIRA JONES</b> 1052114893	A R MICHAEL VOLGER 2125635541
V3700	COUCH ELEM SCHOOL	4349 WATERHOUSE BLVD GARLAND 75043
J	<b>TRAVIS WORTHAM</b> 1080861408	A R <b>KEVIN TOMSIC</b> 1171667288
V3702	TOLER ELEM SCHOOL	3520 GUTHRIE RD GARLAND 75043
* J 🗅	VACANT	A R <b>VIRGINIA EVANS</b> 1081232703

### **JUDGES AND ALTERNATE JUDGES** SUBMISSION

### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V3800		HOUSTON ELEM SCHOOL-LISD		2929 MARQUIS LN LANCASTER	75134
	J D	MELVIN ARMSTRONG 1135925353	A R	VACANT	70104
V3802		PLEASANT RUN ELEM SCHOOL		427 W PLEASANT RUN	IRD
	J D	FRANKIE WALKER LEONARD 1085560911	ΑR	LANCASTER VACANT	75146
V3803		ROLLING HILLS ELEMENTARY SCHOO	L	450 ROLLING HILLS PL	
	J D	<b>DONNA SPARKS</b> 1080070550	ΑR	LANCASTER VACANT	75146
V3805		ROSA PARKS-MILLBROOK ELEM SCHO	OOL		
	J D	SHERRY GALLOWAY 1084754264	ΑR	LANCASTER VACANT	75146
V3807		ELSIE ROBERTSON MIDDLE SCHOOL		822 W PLEASANT RUN	IRD
	J D	<b>TAWANA WILLIAMS</b> 1084824032	ΑR	LANCASTER  JOHN STEWART  1083759988	75146
V3808		WEST MAIN ELEM SCHOOL		531 W MAIN ST	
	J D	<b>MONICA TURNER</b> 1084682032	ΑR	LANCASTER VACANT	75146
V3809		LANCASTER VETERANS MEMORIAL LIBRARY		1600 VETERANS MEMO	
	J D	EDWARD WILLIAMS 1085147980	A R	LANCASTER TOM HANAHAN 1081171983	75134

# JUDGES AND ALTERNATE JUDGES SUBMISSION

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V3900		MCCOWAN MIDDLE SCHOOL		1500 MAJESTIC MEAD	
V 3300		MICCOVAIN WIDDLE SCHOOL		GLENN HEIGHTS	75154
	חו	PAMELA DEAL-CHANCE	Λ <b>□</b>	VACANT	73134
	ט ט	1085565785	Ar	VACANI	
V3920		FIRST BAPTIST CHURCH-SEAGOVILLE		108 E FARMERS RD	
				SEAGOVILLE	75159
	JR	_	A D	VACANT	
		1083595018			
V3921		SEAGOVILLE CITY HALL		702 N HWY 175	
				SEAGOVILLE	75159
	J D	TEENA GAYLE	A R	VACANT	
		1087482452			
V3940		WILMER COMMUNITY CENTER		101 DAVIDSON PLZ	
				WILMER	75172
	J D	PAMELA WASH	A R	LORRIE MCDONALD	
		1082788907		1084047698	
V3950		HUTCHINS COMMUNITY CENTER		500 W HICKMAN ST	
				HUTCHINS	75141
*	J D	ELLENA DAVIS	A R	LEAH PICKRELL	
		1084472119		1078381113	
V4000		ED-ELECTIONS OFFICE CURBSIDE		1520 ROUND TABLE D	)R
				DALLAS	75247
		NO JUDGE		NO ALTERNATE JUDO	GE
V4002		CAILLET ELEM SCHOOL		3033 MERRELL RD	
				DALLAS	75229
	J D	MICHELE VALENTINO 1083188383	AR	NANCIE WAGNER 1080689099	
				· -	

# JUDGES AND ALTERNATE JUDGES SUBMISSION

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V4004		MARCUS REC CENTER		3003 NORTHAVEN RD	75229
	JD	<b>ALAN YUSTER</b> 1216781573	AR	<b>JOHN DUPRE</b> 1078282820	
V4006		DEGOLYER ELEM SCHOOL		3453 FLAIR DR DALLAS	75229
	J D	STEWART MIKKELSEN 1153521578	AR	<b>ALAN WATERMAN</b> 1078505660	
V4010		STEPHEN FOSTER ELEM SCH		3700 CLOVER LN DALLAS	75220
	J D	VIVIAN GREGORICH 1086028294	AR	<b>CAROL ROSS</b> 1083164253	
V4014		SUDIE WILLIAMS TAG ACADEMY		4518 POMONA RD DALLAS	75209
	JR	<b>CLARK WILL</b> 1083682663	A D		
V4015		NORTH PARK COMMUNITY CORP		4619 W UNIVERSITY E	BLVD 75209
	J D	<b>OLGA SMITH</b> 1083325532	A R	<b>JANICE PETERS</b> 1108398777	73209
V4016		K B POLK VANGUARD CENTER ATG		6911 VICTORIA AVE DALLAS	75209
	J D	JONATHAN MAPLES 1083457337	A R	JUDY WHEELER 1140242912	73203
V4018		MAPLE LAWN ELEM SCHOOL		3120 INWOOD RD DALLAS	75235
	J D	<b>DAVID FISHER</b> 1002113326	A R	JOHN HOLDEN 1080345907	1 3233

# JUDGES AND ALTERNATE JUDGES SUBMISSION

#### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V4019		ARLINGTON PARK RECREATION CENT	ER	1505 RECORD CROSS	_
	J D	<b>ELIZABETH PERINI</b> 1160398202	A R	DALLAS VACANT	75235
V4022		ESPERANZA HOPE MEDRANO ELEM SCHOOL		2221 LUCAS DR DALLAS	75219
	J D	RICARDO MEDRANO 1080577811	AR	<b>ROBERT BRAUN</b> 1083409172	
V4024		L G PINKSTON HIGH SCHOOL		2200 DENNISON ST DALLAS	75212
	J D	SIDNEY WILLIAMS 1086670377	AR	<b>JON ALTSCHULER</b> 1086951420	
V4028		VICTORY CATHEDRAL		3407 N WESTMORELAI DALLAS	ND R 75212
	J D	LETTIE SEARLES 1084653134	A R	VACANT	75212
V4029		EL CENTRO COLLEGE-WEST CAMPUS		3330 NORTH HAMPTOI	
	J D	<b>CRAIG HOLCOMB</b> 1083663634	A R	DALLAS AUTUMN MCCALL 1082213906	75212
V4031		C F CARR ELEM SCHOOL		1952 BAYSIDE ST	75212
	J D	<b>MARK W. BAKER</b> 1083402357	A R	VACANT	73212
V4032		REVERCHON RECREATION CENTER		3505 MAPLE AVE	
	J D	<b>DANIEL FOYT</b> 1045567637	A R	DALLAS  JAMES MOYERS  1086136440	75219

# JUDGES AND ALTERNATE JUDGES SUBMISSION

#### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V4033	J D	DALLAS FIRE STATION # 1 VACANT	ΑR	1901 IRVING BLVD DALLAS <b>CATHERINE TAYLOR</b> 1078540348	75207
V4035		MARGARET B. HENDERSON ELEM SCH	HOOL	2200 S EDGEFIELD AV DALLAS	E 75224
	J D	<b>ROBERTO ALONZO</b> 1078796151	AR	<b>JAY WILLIS</b> 1079357431	
V4038		HARRELL BUDD ELEM SCHOOL		2121 S MARSALIS AVE DALLAS	75216
	J D	VENTON HILL JONES 2154896667	A R	VACANT	
V4039		BEXAR STREET BAPTIST CHURCH		2018 S MARSALIS AVE	75216
	J D	<b>GWENDA LOWE</b> 1166445808	A R	<b>BETTY SUE WELCH</b> 1083384237	75210
V4040		TRINITY HEIGHTS TALENTED & GIFTEI	)	1515 LYNN HAVEN AVI	_
	JD	LORETTA HALLMAN 1084081781	A R	DALLAS VACANT	75216
V4043		THE UNION CHURCH		3410 S POLK ST	
	JD	<b>JOE BURKLEO</b> 1087627273	A R	DALLAS MARK SLENCZKA 1129888570	75224
V4046		CLINTON P RUSSELL ELEM SCHOOL		3031 S BECKLEY AVE	75004
	J D	<b>MATHIS PERKINS</b> 1078367327	A R	DALLAS VACANT	75224

### **JUDGES AND ALTERNATE JUDGES** SUBMISSION

#### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V4050		MOUNTAIN CREEK LIBRARY		6102 MOUNTAIN CREE DALLAS	EK PK 75249
	J D	<b>ERIK WILSON</b> 1084591299	A R	<b>JOYCE SETTER</b> 1084345936	
V4052		BILHARTZ ELEM SCHOOL		6700 WANDT DR	75000
	J D	SEDRICK MCCURDY 1084468000	A R	DALLAS THOMAS WILKINS 1084415243	75236
V4055		LESLIE STEMMONS ELEM SCHOOL		2727 KNOXVILLE ST DALLAS	75211
	J D	<b>ELIJAH GREEN</b> 2166770320	A R	<b>JOSEPH HERNANDEZ</b> 1088334104	
V4056		PALABRA DE VIDA CHURCH		2550 W ILLINOIS AVE DALLAS	75233
	J D	<b>JESSE ROCHA</b> 1084331353	A R	SHIRLEY WEEKS 1084004874	70200
V4057		KIEST REC CENTER		3081 S HAMPTON RD	75224
	J D	MICHAEL GOODMAN * 1084077734	A R	LILLIE RALPH 1156541236	75224
V4060		NANCY JANE COCHRAN ELEMENTARY	•	6000 KEENELAND PKV DALLAS	VY 75211
	J D	DANIELA VILLARREAL 2140336377	A R	MONTY WEDDELL 1084139961	10211
V4061		L O DONALD ELEM SCHOOL		1218 PHINNEY AVE	75014
	J D	<b>ANDREW ALEMAN</b> 1153158457	A R	DALLAS VACANT	75211

# JUDGES AND ALTERNATE JUDGES SUBMISSION

#### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V4062		LELIA P COWART ELEM SCHOOL			1515 S RAVINIA DR DALLAS	75211
*	J D	JESSICA SANTAMARIA 1078536630	Α	R	<b>THOMAS GEDDES</b> 1167521326	
V4063		ELMWOOD-EL BUEN SAMARITANO UM	IC		1315 BERKLEY AVE DALLAS	75224
	J D	<b>DANIEL BROWN</b> 1124828401	Α	R	<b>DON WEEKS</b> 1083889958	10221
V4064		MARTIN WEISS REC CENTER			1111 MARTINDELL AVI	E 75211
	J D	RUSSELL GARNER 1087966312	Α	R	<b>GLORIA HIBDON</b> 1080961858	
V4065		ARCADIA PARK ELEM SCHOOL			1300 N JUSTIN AVE DALLAS	75211
*	J D	CHRISTIAN BROWN 1188916110	Α	R	LONNIE NIX 1082432184	70211
V4066		ANSON JONES ELEM SCHOOL			3901 MEREDITH AVE DALLAS	75211
	J D	TEMECKIA DERROUGH 1079093438	Α	R	RYAN MOORE 1074668019	75211
V4067		GEORGE PEABODY ELEM SCHOOL			3101 RAYDELL PL	75044
	J D	CATHERINE GARRISON 1085780724	Α	R	DALLAS VACANT	75211
V4068		LIDA HOOE ELEM SCHOOL			2419 GLADSTONE DR	
	J D	<b>PERLA LOZA</b> 1079324130	Α	R	DALLAS VACANT	75211

# JUDGES AND ALTERNATE JUDGES SUBMISSION

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V4069		WINNETKA ELEM SCHOOL		1151 S EDGEFIELD AV	
				DALLAS	75208
	J D	NGENA WHITE 1203886713	ΑR	VACANT	
		1203080713			
V4070		JOHN F PEELER ELEM SCHOOL		810 S LLEWELLYN AV	E
				DALLAS	75208
	J D	ROBERT SHEAKS	A R	WILLIE O'BRIEN	
		1085761040		1209977162	
V4071		OAK CLIFF SUB-COURTHOUSE		410 S BECKLEY AVE	
				DALLAS	75203
	J D	NGINA WHITE	A R	MARTHA MELAKU	
		1203713290		1079030934	
V4073		PREPARING THE WAY MINISTRIES		2442 W JEFFERSON B	LVD
				DALLAS	75211
	J D	FRANK RIOS	A R	MORENA HERNANDE	Z
		1089064315		1079284826	
V4074		SUNSET HIGH SCHOOL-ANNEX BLDG		2021 W TENTH ST	
				DALLAS	75208
	J D	STUART BOLDING	A R	VACANT	
		1085234211			
V4075		JOHN H REAGAN SCHOOL		201 N ADAMS AVE	
				DALLAS	75208
	J D	TERESA STEWARD	A R	VACANT	
		1084892159			
V4076		STEVENS PARK ELEM SCHOOL		2615 W COLORADO B	LVD
				DALLAS	75211
	J D	REBECCA MOHR	ΑR	VACANT	
		2128937507			

# JUDGES AND ALTERNATE JUDGES SUBMISSION

#### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V4077		ROSEMONT ELEM SCHOOL/UPPER CAMPUS		719 N MONTCLAIR AVI	
				DALLAS	75208
	JD	<b>VALERIE HUTCHINS</b> 1081152404	AR	VACANT	
V4078		KIDD SPRINGS REC CENTER		711 W CANTY ST	
				DALLAS	75208
*	' J D	<b>ZETTIE WILLIAMS</b> 1085363966	AR	VACANT	
V4079		KESSLER PARK UNITED METHODIST	CHUR	1215 TURNER AVE	
				DALLAS	75208
	J D	MICHAEL WILLIAMSON 1077996814	AR	VACANT	
V4081		ELADIO R MARTINEZ LEARNING CEN	ITER	4500 BERNAL DR	
				DALLAS	75212
	J D	YOLANDA JIMENEZ 1085657920	* AR	VACANT	
V4083		SIDNEY LANIER EXPRESSIVE ARTS		1400 WALMSLEY AVE	
		VANGUARD		DALLAS	75208
	J D	<b>SYLVIA MEDRANO</b> 1081651937	AR	VACANT	
V4085		ANITA MARTINEZ REC CENTER		3212 N WINNETKA AVI	
				DALLAS	75212
	J D	GLENDA SALAZAR 1148834888	AR	VACANT	
V4086		GRAUWYLER PARK REC CENTER		7780 HARRY HINES BL	.VD
				DALLAS	75235
	J D	<b>ROBERT KERSEY</b> 1088714797	AR	<b>MARI ANN ROSS</b> 1081198921	

# JUDGES AND ALTERNATE JUDGES SUBMISSION

#### **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V4087	BACHMAN REC CENTER		2750 BACHMAN DR DALLAS	75220
* J [	CAROLYN JOHNSON 1079293815	AR	MICHAEL BURNAMAN 1160115517	
V4094	PARK FOREST BRANCH LIBRARY		3421 FOREST LN	75004
J [	MATTHEW CALVERT 1081444715	ΑR	DALLAS MARGUERITE BUCCIN 1082083560	75234 <b>NO</b>
V4097	DAVID G BURNET ELEM SCHOOL		3200 KINKAID DR	75000
J [	D BETTY ROWE WILLIAMS 1083174779	A R	DALLAS WAYNE MACNAUGHT 1081082667	75220 <b>ON</b>
V4110	BOUDE STOREY MIDDLE SCHOOL		3000 MARYLAND AVE	75046
J [	<b>STEPHEN CARTER</b> 1085607534	ΑR	DALLAS VACANT	75216
V4113	MOUNTAIN VIEW COLLEGE-E BLDG		4849 W ILLINOIS AVE	
J [	MARY HODGE 1088328992	ΑR	DALLAS LUIS ZUNIGA 1144843197	75211
V4300	COCKRELL HILL CITY HALL		4125 W CLARENDON I	
* J [	CHRIS CARSON 1198761527	A R	COCKRELL HILL RUBY LEE 1078505312	75211
V4501	SUZANNA DICKINSON ELEM		1902 PALMER TRL	
J [	DARLA WISDOM 1084375464	A R	GRAND PRAIRIE  KATHRYN MONETTE  1085706498	75052

## **JUDGES AND ALTERNATE JUDGES** SUBMISSION

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V4502	J D	BETTY WARMACK LIBRARY  EVELYN GRAY 1084425491	ΑR	760 BARDIN RD GRAND PRAIRIE PHILIP VARGHESE 1078106646	75052
V4507	J D	DANIELS ACADEMY  PATSY RAY 1083976659	A R	801 SW 19TH ST GRAND PRAIRIE VACANT	75051
V4508 *	J D	ELLEN OCHOA STEM ACADEMY/MILAN GPISD SHARICA REESE 1154874979	-	2030 PROCTOR DR GRAND PRAIRIE SELENA WOFFORD 1085510959	75051
V4509	J D	YWLA @ ARNOLD MIDDLE SCHOOL  JEANNETTE PUGH 1084756363	ΑR	1204 E MARSHALL DR GRAND PRAIRIE TRUDY GILL 1084537136	75051
V4511 *	J D	BOWIE FINE ARTS ACADEMY -GPISD  MICHAEL CONNELL 1088730294	ΑR	425 ALICE DR GRAND PRAIRIE MINH VUONG 1182718289	75051
V4512	J D	CHARLEY TAYLOR REC CENTER  LYDIA ALCALAN 1085904849	ΑR	601 E GRAND PRAIRIE GRAND PRAIRIE FRANK STROHSCHEII 1085502613	75051
V4513	J D	HOUSTON PROFESSIONAL STAFF DEVELOPMENT CTR ARMANDO MONSIVAIS 1084855088	ΑR	1502 COLLEGE ST GRAND PRAIRIE ADRIENE THOMPSON 1084806341	75050

## JUDGES AND ALTERNATE JUDGES SUBMISSION

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V4514		CROSSWINDS HIGH SCHOOL		1100 N CARRIER PKW	Y 75050
	J R	WARREN WIENECKE 1085505964	A D	MARY NUNEZ 1083342281	73030
V4515		TRAVIS WORLD LANGUAGE ACADEMY	•	525 NE 15TH ST GRAND PRAIRIE	75050
	J D	<b>STEPHEN SCOTT</b> 1079451960	A R	VACANT	
V4517		EISENHOWER ELEMENTARY SCHOOL		2102 N CARRIER PKW GRAND PRAIRIE	Y 75050
	J R	<b>KEITH PIMM</b> 2135579503	A D	<b>ANA COCA</b> 1046814834	
V4518		MINISTERIOS CIELO EN LA TIERRA		3313 GILBERT RD GRAND PRAIRIE	75050
	J D	SHLAWNDA CELESTINE 1151116727	ΑR	<b>MATHEW LIGUEZ</b> 1046380960	
V4519		RONALD W REAGAN MIDDLE SCHOOL		4616 BARDIN RD GRAND PRAIRIE	75052
	J D	<b>CYNTHIA SMITH</b> 1084221450	A R	JENA PERKINS 1085387383	70002
V4520		SAM RAYBURN ELEM SCHOOL		2800 REFORMA DR GRAND PRAIRIE	75052
	J D	DIANA KRIS FARRELL * 1145233168	A R	PAUL MOLINAR 1086798546	70002
V4521		LORENZO DE ZAVALA ACADEMY		3410 KIRBY CREEK DR GRAND PRAIRIE	75052
*	JD	<b>MAX NUNEZ</b> 1087738996	A R	JACK WOLFSON 1087121761	70002

## JUDGES AND ALTERNATE JUDGES SUBMISSION

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V4522	JD	TRUMAN MIDDLE SCHOOL CHARLES SCHU	ΑR	1501 COFFEYVILLE TF GRAND PRAIRIE DIANE KATSULIS	RL 75052
		1165473840		1088807614	
V4525		JOHNSON (LBJ) DAEP -GPISD		650 STONEWALL DR GRAND PRAIRIE	75052
	J D	<b>DEE HART</b> 1084164623	AR	VACANT	
V4527		HECTOR P. GARCIA ELEM SCHOOL-GR	PISD	2444 GRAHAM ST GRAND PRAIRIE	75050
	J D	<b>BRENT PIMENTEL</b> 1060420645	A R	<b>VANCE ROPER</b> 1084455335	75050
V4528		OUR REDEEMER LUTHERAN CHURCH	- GP	4729 S CARRIER PKW	
	J D	<b>CAROL DAVIS</b> 1084493233	A R	ROBERT BAKER 1079960610	75052
V4538		GLOBAL LEADERSHIP ACADEMY at BUELEM SCHOOL-GPISD	JSH	511 E SPRINGDALE LN GRAND PRAIRIE	I 75052
	J D	<b>SUNJA SMITH</b> 1088009904	AR	VACANT	
V4601		SALLY B ELLIOTT ELEM SCHOOL		1900 S STORY RD IRVING	75060
	JR	<b>ROY GETTING</b> * 1079097162	A D	<b>SARAH NELSON</b> 2159604977	
V4602		NIMITZ HIGH SCHOOL		100 W OAKDALE RD IRVING	75060
	J D	<b>MARTHA SCHECHT</b> 1085773637	A R	PAUL BERTANZETTI 1084403302	70000

## **JUDGES AND ALTERNATE JUDGES** SUBMISSION

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V4605		OTIS BROWN ELEM SCHOOL		2501 W TENTH ST	
V4605		OTIS BROWN ELEM SCHOOL		IRVING	75060
	J D	<b>EVELYN SMART</b> * 1084474754	AF	<b>KENT BROWN</b> 1085084877	
V4606		LAMAR MIDDLE SCHOOL		219 CRANDALL RD IRVING	75060
	J D	<b>SHEWANA ALLEN</b> 1081076960	ΑF	8 <b>BERNADETTE WARD</b> 1086586747	75000
V4607		IRVING CITY HALL		825 W IRVING BLVD IRVING	75060
	J D	<b>MAGGIE MARTINS</b> 1087639334	AF	8 <b>BILLIE MORROW</b> 1085433083	
V4608		J O DAVIS ELEM SCHOOL		310 DAVIS DR IRVING	75061
*	' J D	<b>CINDY CORPIER</b> 1086240996	ΑF	VACANT	
V4610		L B BARTON ELEM SCHOOL		2931 CONFLANS RD IRVING	75061
	JR	<b>DANNY HERRERA</b> 1077991992	ΑС	SHARON BARBOSA-0 1083826015	CRAIN
V4613		IRVING HIGH SCHOOL		900 N O'CONNOR RD IRVING	75061
	J D	ARCHIE STEPHENSON 1084509596	AR	1085429190	
V4616		GOOD ELEMENTARY SCHOOL-IRISD		1200 E UNION BOWER	R RD 75061
	J D	<b>SARA ALBERT</b> 1083130275	ΑF	KATHRINE AARON 1085402973	73001

## JUDGES AND ALTERNATE JUDGES SUBMISSION

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V4618		DAVID CROCKETT MIDDLE SCHOOL		2431 HANCOCK ST IRVING	75061
*	JD	<b>FANY VARGAS</b> 1166397430	* AR	<b>PATRICIA WOOD</b> 1142268194	. 5551
V4619		LIVELY ELEM SCHOOL		1800 PLYMOUTH DR \	N 75061
	JR	CLARISSA LINDSEY 1085899671	A D	<b>ASHLEY TRAN</b> 1076363797	
V4620		OAK HAVEN UNITED METHODIST CH	JRCH	1600 N IRVING HEIGH IRVING	TS DR 75061
	J D	<b>SHERRON MOLINA</b> 1049062890	AR	ARTHUR BERTANZET 1085339576	
V4621		THOMAS HALEY ELEM SCHOOL		3601 CHEYENNE ST IRVING	75062
*	J D	<b>ROBERT SMITH</b> 1149438479	A R	JOHNNY LOPEZ 1084889947	73002
V4622		W T HANES ELEM SCHOOL		2730 CHEYENNE ST IRVING	75062
	J D	<b>SOULAFA AMER</b> 2120790503	A R	VACANT	73002
V4623		A S JOHNSTON ELEM SCHOOL		2801 RUTGERS DR IRVING	75060
*	J D	ELEANOR BOGNER 1084505660	ΑR	VACANT	75062
V4624		BRANDENBURG ELEM		2800 HILLCREST DR IRVING	75062
	J D	<b>DAVID BRADLEY</b> 1080853381	A R	KRISTIN CRUISE 2158870384	70002

## JUDGES AND ALTERNATE JUDGES SUBMISSION

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V4626		MACARTHUR HIGH SCHOOL		3700 N MACARTHUR BLVD IRVING 75062
	JR	<b>CLAIRE SHAHZAD</b> 1084766060	A D	ELIZABETH HAMELINE 1078940123
V4627		IRVING FIRE STATION # 8		650 E LAS COLINAS BLVD IRVING 75039
	JD	TARIQ JAFFERY 1079753390	AR	<b>LOIS MCGIVERN</b> 1210227360
V4629		BEAR CREEK COMMUNITY CHURCH		2700 FINLEY RD IRVING 75062
	J D	<b>MARTIN SAENZ</b> 1079904309	AR	<b>BECKY BROWN</b> 1020421569
V4630		T J LEE ELEM SCHOOL		1600 CARLISLE ST IRVING 75062
	J R	<b>RICHARD SMITH</b> 1085701090	A D	<b>THOMAS AMES</b> 2123116953
V4631		TRAVIS MIDDLE SCHOOL		1600 FINLEY RD IRVING 75062
	JR	<b>THEODORE COLE</b> 1084117316	A D	VACANT
V4633		NORTH LAKE COLLEGE-F BLDG		5001 N MACARTHUR BLVD IRVING 75038
	JR	<b>HAROLD JENKINS</b> 1085684455	A D	<b>LISA ROGERS</b> 1082133107
V4634		SINGLEY ACADEMY		4601 N MCARTHUR BLVD IRVING 75038
	J D	CONSUELO EVANS 1079596055	A R	DUC NGUYEN 1083280419

## **JUDGES AND ALTERNATE JUDGES SUBMISSION**

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

V4640		HOUSTON MIDDLE SCHOOL-IRISD		3033 W COUNTRY CLU	
	J D	SCOTT HAGAR 1082925817	A R	IRVING SHARON CLARK 1187231392	75038
V4642		IRVING ARTS CENTER		3333 N MACARTHUR E	3LVD 75062
	J R	<b>DEBRA ARNETT</b> * 1084843959	A D	<b>VANICE WEBB</b> 1084234106	
V4645		LAS COLINAS ELEM SCHOOL		2200 KINWEST PKWY IRVING	75063
*	J D	SHIVAKUMARAN ANNAMALAI 2123626902	A R	<b>SHELLY AKERLY</b> 1085765371	
V4646		BARBARA CARDWELL CAREER PREP		101 E UNION BOWER IRVING	RD 75061
*	J D	ALISON TRUJILLO 1078611770	A R	<b>SAMANTHA MORENO</b> 2166157538	
V4647		MUSTANG PARK REC CENTER		2223 KINWEST PKWY IRVING	75063
	J D	<b>ZULIKHA HUSSAIN</b> 1185089744	A R	KATHLEEN HODGES 1081318844	
V4652		BRITAIN ELEMENTARY SCHOOL		631 EDMONDSON DR IRVING	75060
	J D	<b>BENEDICT PARKS</b> 2000981449	A R	<b>JUDSON BARR</b> 1084870369	
V4654		IRVING FIRE STATION # 2		1306 N STORY RD IRVING	75061
	J D	JUAN DAVID GUTIERREZ 1084934093	A R	DOROTHY MARTIN 2142183543	

## JUDGES AND ALTERNATE JUDGES SUBMISSION

## **DALLAS COUNTY COMMISSIONER DISTRICTS 1-4**

**Updated Judges List** 

V4663 UNIVERSITY OF DALLAS- CARDINAL 2815 LYNCH CIR

FARRELL HALL IRVING

J D **MARY MCINTIRE** A R **JONATHON HOLLIS** 1081929730 2163424383

75062

## PRESIDING ELECTION OFFICERS AND ALTERNATE ELECTION OFFICERS SUBMISSION

## **Updated PEO and AEO**

BALCH SPRINGS CIVIC CENTER	12400 ELAM RD
	BALCH SPRINGS 75180
D JACQUELINE FAIN	R CAROL DUKE
1081261030	1083796214
BEAR CREEK COMMUNITY CHURCH	2700 FINLEY RD
BEAR GREEK COMMONITY CHOICE	IRVING 75062
D DOROTHY CHAMBERS	R KEVIN RENO
1184395681	1080405132
DETUANY LUTUEDAN CHURCH	40404 WALNUT LULL IN
BETHANY LUTHERAN CHURCH	10101 WALNUT HILL LN
	DALLAS 75238
D <b>SANDRA BIGGS</b> 1083093440	R <b>TANYA PIPKEN</b> 1081571177
1063093440	1001571177
BROOKHAVEN COLLEGE	3939 VALLEY VIEW LN
	FARMERS BRAN 75244
D JAMECIA JOHNSON	R BRUCE BRADLEY
1159943564	1079043284
CEDAR HILL RECREATION CENTER	310 E PARKERVILLE RD
CEDAR HILL RECREATION CENTER	310 E PARKERVILLE RD CEDAR HILL 75104
CEDAR HILL RECREATION CENTER  D EMELDA MARTIN	
	CEDAR HILL 75104
D <b>EMELDA MARTIN</b>	CEDAR HILL 75104  R <b>DIANE KATSULIS</b>
D <b>EMELDA MARTIN</b> 1098996319	CEDAR HILL 75104  R <b>DIANE KATSULIS</b> 1088807614
D EMELDA MARTIN 1098996319 CEDAR VALLEY COLLEGE-M BLDG	CEDAR HILL 75104  R DIANE KATSULIS 1088807614  3030 N DALLAS AVE LANCASTER 75134
D <b>EMELDA MARTIN</b> 1098996319	CEDAR HILL 75104  R DIANE KATSULIS 1088807614  3030 N DALLAS AVE
D EMELDA MARTIN 1098996319  CEDAR VALLEY COLLEGE-M BLDG  D FRANKIE WALKER LEONARD	CEDAR HILL 75104  R DIANE KATSULIS 1088807614  3030 N DALLAS AVE LANCASTER 75134  R VIRGINIA ESQUIVEL
D EMELDA MARTIN 1098996319  CEDAR VALLEY COLLEGE-M BLDG  D FRANKIE WALKER LEONARD 1085560911	CEDAR HILL 75104 R DIANE KATSULIS 1088807614  3030 N DALLAS AVE LANCASTER 75134 R VIRGINIA ESQUIVEL 1088400767
D EMELDA MARTIN 1098996319  CEDAR VALLEY COLLEGE-M BLDG  D FRANKIE WALKER LEONARD 1085560911	CEDAR HILL 75104  R DIANE KATSULIS 1088807614  3030 N DALLAS AVE LANCASTER 75134  R VIRGINIA ESQUIVEL 1088400767  255 E PARKWAY BLVD
D EMELDA MARTIN 1098996319  CEDAR VALLEY COLLEGE-M BLDG  D FRANKIE WALKER LEONARD 1085560911  COPPELL TOWN CENTER	CEDAR HILL 75104  R DIANE KATSULIS 1088807614  3030 N DALLAS AVE LANCASTER 75134  R VIRGINIA ESQUIVEL 1088400767  255 E PARKWAY BLVD COPPELL 75019
D EMELDA MARTIN 1098996319  CEDAR VALLEY COLLEGE-M BLDG  D FRANKIE WALKER LEONARD 1085560911  COPPELL TOWN CENTER  D NANCY WANG	CEDAR HILL 75104  R DIANE KATSULIS 1088807614  3030 N DALLAS AVE LANCASTER 75134  R VIRGINIA ESQUIVEL 1088400767  255 E PARKWAY BLVD COPPELL 75019 R KATHLEEN HODGES
D EMELDA MARTIN 1098996319  CEDAR VALLEY COLLEGE-M BLDG  D FRANKIE WALKER LEONARD 1085560911  COPPELL TOWN CENTER  D NANCY WANG 1081409787	CEDAR HILL 75104  R DIANE KATSULIS 1088807614  3030 N DALLAS AVE LANCASTER 75134  R VIRGINIA ESQUIVEL 1088400767  255 E PARKWAY BLVD COPPELL 75019  R KATHLEEN HODGES 1081318844
D EMELDA MARTIN 1098996319  CEDAR VALLEY COLLEGE-M BLDG  D FRANKIE WALKER LEONARD 1085560911  COPPELL TOWN CENTER  D NANCY WANG 1081409787  CROSSWINDS HIGH SCHOOL	CEDAR HILL 75104  R DIANE KATSULIS 1088807614  3030 N DALLAS AVE LANCASTER 75134  R VIRGINIA ESQUIVEL 1088400767  255 E PARKWAY BLVD COPPELL 75019  R KATHLEEN HODGES 1081318844  1100 N CARRIER PKWY GRAND PRAIRIE 75050
D EMELDA MARTIN 1098996319  CEDAR VALLEY COLLEGE-M BLDG  D FRANKIE WALKER LEONARD 1085560911  COPPELL TOWN CENTER  D NANCY WANG 1081409787	CEDAR HILL 75104  R DIANE KATSULIS 1088807614  3030 N DALLAS AVE LANCASTER 75134  R VIRGINIA ESQUIVEL 1088400767  255 E PARKWAY BLVD COPPELL 75019  R KATHLEEN HODGES 1081318844  1100 N CARRIER PKWY

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## PRESIDING ELECTION OFFICERS AND ALTERNATE ELECTION OFFICERS SUBMISSION

## **Updated PEO and AEO**

DISCIPLE CENTRAL COMMUNITY	901 N POLK ST
CHURCH	DESOTO 75115
D PATRICIA CARR	R SYLVIA BRACKS
1085720427	1087146338
DUNCANVILLE LIBRARY	201 JAMES COLLINS BLVD
	DUNCANVILLE 75116
D BARBARA LEWIS	R VICKI MARSH
1084113729	1080157320
EASTFIELD COLLEGE-MAIN CAMPUS, C	3737 MOTLEY DR
BLDG	MESQUITE 75150
D <b>NGINA WHITE</b>	R MOLLY BISHOP
1203713290	1083684156
EASTFIELD COLLEGE-PLEASANT GROVE	802 S BUCKNER BLVD
CAMPUS	DALLAS 75217
D BOBBYE ROSS	R ANDREW CASTILLO
1161782389	2001963376
EL CENTRO COLLEGE-MAIN CAMPUS	801 MAIN ST
	DALLAS 75202
D CHERI BALL-MEZA	R JAN NORRIS
1083048522	1080469747
EL GENTRO COLLEGE MEGT CAMPUS	
EL CENTRO COLLEGE-WEST CAMPUS	3330 NORTH HAMPTON RD
EL CENTRO COLLEGE-WEST CAMPUS	3330 NORTH HAMPTON RD DALLAS 75212
D <b>DEBORAH CULBERSON</b>	DALLAS 75212 R <b>DEBRA AGUILAR</b>
	DALLAS 75212
D <b>DEBORAH CULBERSON</b>	DALLAS 75212 R <b>DEBRA AGUILAR</b>
D DEBORAH CULBERSON 1083065266	DALLAS 75212 R <b>DEBRA AGUILAR</b> 1078994440
D DEBORAH CULBERSON 1083065266  FLORENCE RECREATION CENTER  D CHARLES MULLINS	DALLAS 75212  R DEBRA AGUILAR 1078994440  2501 WHITSON WAY MESQUITE 75150 R RUSSELL JOHNSON
D DEBORAH CULBERSON 1083065266 FLORENCE RECREATION CENTER	DALLAS 75212  R DEBRA AGUILAR 1078994440  2501 WHITSON WAY MESQUITE 75150
D DEBORAH CULBERSON 1083065266  FLORENCE RECREATION CENTER  D CHARLES MULLINS	DALLAS 75212  R DEBRA AGUILAR 1078994440  2501 WHITSON WAY MESQUITE 75150 R RUSSELL JOHNSON
D DEBORAH CULBERSON 1083065266  FLORENCE RECREATION CENTER  D CHARLES MULLINS 1087660838	DALLAS 75212  R DEBRA AGUILAR 1078994440  2501 WHITSON WAY MESQUITE 75150 R RUSSELL JOHNSON 1084922195
D DEBORAH CULBERSON 1083065266  FLORENCE RECREATION CENTER  D CHARLES MULLINS 1087660838	DALLAS 75212  R DEBRA AGUILAR 1078994440  2501 WHITSON WAY MESQUITE 75150 R RUSSELL JOHNSON 1084922195  6990 BELT LINE RD

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# PRESIDING ELECTION OFFICERS AND ALTERNATE ELECTION OFFICERS SUBMISSION

## **Updated PEO and AEO**

FRIENDSHIP WEST BAPTIST CHURCH	2020 WHEATLAND RD
FRIENDSHIP WEST BAPTIST CHURCH	DALLAS 75232
D DIANNA IACKSON	R PATRICIA PIERSON
D <b>DIANNA JACKSON</b> 1188905807	1155966120
GEORGE L ALLEN SR. COURTS BLDG	600 COMMERCE ST
	DALLAS 75202
D NICOLE SIMS	R WILLIAM HAUGEN
1086954383	1082759879
GRAUWYLER PARK REC CENTER	7780 HARRY HINES BLVD
	DALLAS 75235
D MARK W. BAKER	R LYIAH CLARK
1083402357	2170463201
HARRY STONE RECREATION CENTER	2403 MILLMAR DR
	DALLAS 75228
D BEN DAY	R LATRESE ADKINS
1080297198	1151196150
HIGHLAND HILLS LIBRARY	6200 BONNIE VIEW RD
HIGHLAND HILLS LIBRARY	6200 BONNIE VIEW RD DALLAS 75241
** D DEBBIE LEE	
	DALLAS 75241
** D DEBBIE LEE	DALLAS 75241  R <b>JOSEPH HERNANDEZ</b>
** D <b>DEBBIE LEE</b> 1091325853	DALLAS 75241  R JOSEPH HERNANDEZ 1088334104
** D <b>DEBBIE LEE</b> 1091325853	DALLAS 75241  R JOSEPH HERNANDEZ 1088334104  825 W IRVING BLVD
** D DEBBIE LEE 1091325853 IRVING CITY HALL	DALLAS 75241  R JOSEPH HERNANDEZ 1088334104  825 W IRVING BLVD IRVING 75060
** D DEBBIE LEE 1091325853  IRVING CITY HALL  D MAGGIE MARTINS	DALLAS 75241  R JOSEPH HERNANDEZ 1088334104  825 W IRVING BLVD IRVING 75060  R DEBRA ARNETT
** D DEBBIE LEE 1091325853  IRVING CITY HALL  D MAGGIE MARTINS 1087639334	DALLAS 75241  R JOSEPH HERNANDEZ 1088334104  825 W IRVING BLVD IRVING 75060  R DEBRA ARNETT 1084843959
** D DEBBIE LEE 1091325853  IRVING CITY HALL  D MAGGIE MARTINS 1087639334	DALLAS 75241  R JOSEPH HERNANDEZ 1088334104  825 W IRVING BLVD IRVING 75060  R DEBRA ARNETT 1084843959  1700 KELLER SPRINGS RD
** D DEBBIE LEE 1091325853  IRVING CITY HALL  D MAGGIE MARTINS 1087639334  JOSEY RANCH LAKE LIBRARY	DALLAS 75241  R JOSEPH HERNANDEZ 1088334104  825 W IRVING BLVD IRVING 75060  R DEBRA ARNETT 1084843959  1700 KELLER SPRINGS RD CARROLLTON 75006
** D DEBBIE LEE 1091325853  IRVING CITY HALL  D MAGGIE MARTINS 1087639334  JOSEY RANCH LAKE LIBRARY  D TERRY BARKER	DALLAS 75241  R JOSEPH HERNANDEZ 1088334104  825 W IRVING BLVD IRVING 75060  R DEBRA ARNETT 1084843959  1700 KELLER SPRINGS RD CARROLLTON 75006  R KALPANA PARAMESH
** D DEBBIE LEE 1091325853  IRVING CITY HALL  D MAGGIE MARTINS 1087639334  JOSEY RANCH LAKE LIBRARY  D TERRY BARKER 1082988961	DALLAS 75241  R JOSEPH HERNANDEZ 1088334104  825 W IRVING BLVD IRVING 75060  R DEBRA ARNETT 1084843959  1700 KELLER SPRINGS RD CARROLLTON 75006  R KALPANA PARAMESH 1086208163
** D DEBBIE LEE 1091325853  IRVING CITY HALL  D MAGGIE MARTINS 1087639334  JOSEY RANCH LAKE LIBRARY  D TERRY BARKER 1082988961	DALLAS 75241 R JOSEPH HERNANDEZ 1088334104  825 W IRVING BLVD IRVING 75060 R DEBRA ARNETT 1084843959  1700 KELLER SPRINGS RD CARROLLTON 75006 R KALPANA PARAMESH 1086208163  101 HOLLEY PARK DR

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## PRESIDING ELECTION OFFICERS AND ALTERNATE ELECTION OFFICERS SUBMISSION

## **Updated PEO and AEO**

-	
LANCASTER VETERANS MEMORIAL	1600 VETERANS MEMORIAL
LIBRARY	LANCASTER 75134
D CARLA REYNOLDS-GROGAN	R MICHAEL VOLGER
1084450205	2125635541
	44004   0.01   140 0 P. P.L. V.P.
LOCHWOOD BRANCH LIBRARY	11221 LOCHWOOD BLVD
	DALLAS 75218
D GEORGE SIGGERS	R CORRINE HARDIN
1082187251	1080987675
MARSH LANE BAPTIST CHURCH	10716 MARSH LANE
	DALLAS 75229
D BETTY ROWE WILLIAMS	R DAVID W. WALLACE
1083174779	2148257111
MARTIN LUTHER KING CORE BLDG	2922 MARTIN L KING BLVD
	DALLAS 75215
D <b>GERRE WILLIAMS</b>	R JOHN MAYFIELD
1186300576	1082963418
MARTIN WEISS REC CENTER	1111 MARTINDELL AVE
MARTIN WEISS REC CENTER	1111 MARTINDELL AVE DALLAS 75211
	DALLAS 75211
D JOE BURKLEO 1087627273	
D <b>JOE BURKLEO</b> 1087627273	DALLAS 75211 R <b>GLORIA HIBDON</b> 1080961858
D <b>JOE BURKLEO</b>	DALLAS 75211  R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK
D JOE BURKLEO 1087627273  MOUNTAIN CREEK LIBRARY	DALLAS 75211  R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK DALLAS 75249
D JOE BURKLEO 1087627273  MOUNTAIN CREEK LIBRARY  D DIANA KRIS FARRELL	DALLAS 75211  R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK DALLAS 75249 R CLARISSA LINDSEY
D JOE BURKLEO 1087627273  MOUNTAIN CREEK LIBRARY	DALLAS 75211  R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK DALLAS 75249
D JOE BURKLEO 1087627273  MOUNTAIN CREEK LIBRARY  D DIANA KRIS FARRELL	DALLAS 75211  R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK DALLAS 75249 R CLARISSA LINDSEY
D JOE BURKLEO 1087627273  MOUNTAIN CREEK LIBRARY  D DIANA KRIS FARRELL 1145233168	DALLAS 75211 R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK DALLAS 75249 R CLARISSA LINDSEY 1085899671
D JOE BURKLEO 1087627273  MOUNTAIN CREEK LIBRARY  D DIANA KRIS FARRELL 1145233168	DALLAS 75211 R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK DALLAS 75249 R CLARISSA LINDSEY 1085899671  4849 W ILLINOIS AVE
D JOE BURKLEO 1087627273  MOUNTAIN CREEK LIBRARY  D DIANA KRIS FARRELL 1145233168  MOUNTAIN VIEW COLLEGE-E BLDG	DALLAS 75211 R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK DALLAS 75249 R CLARISSA LINDSEY 1085899671  4849 W ILLINOIS AVE DALLAS 75211
D JOE BURKLEO 1087627273  MOUNTAIN CREEK LIBRARY  D DIANA KRIS FARRELL 1145233168  MOUNTAIN VIEW COLLEGE-E BLDG  D WILLIAM WOODS 1080877445	DALLAS 75211  R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK DALLAS 75249  R CLARISSA LINDSEY 1085899671  4849 W ILLINOIS AVE DALLAS 75211  R DON WEEKS 1083889958
D JOE BURKLEO 1087627273  MOUNTAIN CREEK LIBRARY  D DIANA KRIS FARRELL 1145233168  MOUNTAIN VIEW COLLEGE-E BLDG  D WILLIAM WOODS	DALLAS 75211 R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK DALLAS 75249 R CLARISSA LINDSEY 1085899671  4849 W ILLINOIS AVE DALLAS 75211 R DON WEEKS 1083889958  5001 N MACARTHUR BLVD
D JOE BURKLEO 1087627273  MOUNTAIN CREEK LIBRARY  D DIANA KRIS FARRELL 1145233168  MOUNTAIN VIEW COLLEGE-E BLDG  D WILLIAM WOODS 1080877445  NORTH LAKE COLLEGE-F BLDG	DALLAS 75211  R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK DALLAS 75249  R CLARISSA LINDSEY 1085899671  4849 W ILLINOIS AVE DALLAS 75211  R DON WEEKS 1083889958  5001 N MACARTHUR BLVD IRVING 75038
D JOE BURKLEO 1087627273  MOUNTAIN CREEK LIBRARY  D DIANA KRIS FARRELL 1145233168  MOUNTAIN VIEW COLLEGE-E BLDG  D WILLIAM WOODS 1080877445	DALLAS 75211 R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK DALLAS 75249 R CLARISSA LINDSEY 1085899671  4849 W ILLINOIS AVE DALLAS 75211 R DON WEEKS 1083889958  5001 N MACARTHUR BLVD

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## PRESIDING ELECTION OFFICERS AND ALTERNATE ELECTION OFFICERS SUBMISSION

## **Updated PEO and AEO**

OAK CLIFF SUB-COURTHOUSE	410 S BECKLEY AVE
	DALLAS 75203
D <b>DIANA BROADUS</b>	R PATRICK DALE
1084042061	1121250454
OAKLAWN BRANCH LIBRARY	4100 CEDAR SPRINGS RD
	DALLAS 75219
D DAVID FISHER	R DANIELLE COFNAS
1002113326	2174504412
OUR REDEEMER LUTHERAN CHURCH	7611 PARK LN
OOK KEDELINEK EO MENDIK ONOKON	DALLAS 75225
D MICHELE VALENTINO	
1083188383	R <b>ROWELL LUBBERS</b> 1083340864
100010000	1000010001
OUR REDEEMER LUTHERAN CHURCH- GP	4729 S CARRIER PKWY
	GRAND PRAIRIE 75052
D EVELYN GRAY	R ADRIANA ANGEL
1084425491	1172788889
PAUL L DUNBAR LANCASTER-KEIST	2008 EAST KIEST BLVD
LIBRARY	DALLAS 75216
D YVONNE WILLIAMS	R THERESA HAYES
1084019290	1084048456
RICHARDSON CIVIC CENTER	411 W ARAPAHO RD
	RICHARDSON 75080
D <b>LORI RALEY</b>	R CYNTHIA HOLLIDAY
1081065167	1083072882
RICHLAND COLLEGE-GARLAND CAMPUS	675 W WALNUT ST
	GARLAND 75040
D <b>JANET HARRIS</b>	R SHIRLEY RAVEN
1083757176	1083569898
	-
RICHLAND COLLEGE-MAIN CAMPUS	9596 WALNUT ST
	DALLAS 75243
D GREGORY BYRNE	R JULIANA MARTINEZ

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1088536933

1081229049

## PRESIDING ELECTION OFFICERS AND ALTERNATE ELECTION OFFICERS SUBMISSION

## **Updated PEO and AEO**

ROWLETT CITY HALL ANNEX	4004 MAIN ST
	ROWLETT 75088
D MAGGIE ENSLEY	** R MARIA MARCON
1078459158	1083317792
SACHSE SENIOR CENTER	3815 SACHSE RD, BLDG A
	SACHSE 75048
D SANDRA FRANKLIN	R LEZETTE MCFADDEN
1081451706	1080217902
SAMUELL GRAND REC CENTER	6200 E GRAND AVE
	DALLAS 75223
D <b>LOTA DUNHAM</b>	R VIRGINIA MONTFORT
1080364148	1083391257
SKYLINE BRANCH LIBRARY	6006 EVERGLADE RD
OKTERNE BIOUNDIN EIBIOUKT	DALLAS 75227
D TRACY DOTIE HILL	R BONNIE WATT
1080969076	1080481782
100000010	1000 10 11 02
SOUTH GARLAND BRANCH LIBRARY	4845 BROADWAY BLVD
	GARLAND 75043
D <b>NGENA WHITE</b>	R MATTHEW FONTAINE
1203886713	1082858849
UNIVERSITY PARK UNITED METHODIST	4024 CARUTH BLVD
CHURCH	DALLAS 75225
D <b>JOSEPH SPERANDEO</b> 1086380675	R <b>LINDA COLLINS</b> 1083226666
1000300073	1003220000
VALLEY RANCH BRANCH LIBRARY	401 CIMARRON TRL
	IRVING 75063
D <b>JUZAR HASTA</b>	R JOHN COTHRAN
1083705225	1081316773

# PRESIDING ELECTION OFFICERS AND ALTERNATE ELECTION OFFICERS SUBMISSION

## **Updated PEO and AEO**

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BALCH SPRINGS CIVIC CENTER	12400 ELAM RD		
	BALCH SPRINGS 75180		
D JACQUELINE FAIN	R CAROL DUKE		
1081261030	1083796214		
BEAR CREEK COMMUNITY CHURCH	2700 FINLEY RD		
	IRVING 75062		
D DOROTHY CHAMBERS	R KEVIN RENO		
1184395681	1080405132		
BETHANY LUTHERAN CHURCH	10101 WALNUT HILL LN		
	DALLAS 75238		
D SANDRA BIGGS	R TANYA PIPKEN		
1083093440	1081571177		
BROOKHAVEN COLLEGE	3939 VALLEY VIEW LN		
	FARMERS BRAN 75244		
D JAMECIA JOHNSON	R BRUCE BRADLEY		
1159943564	1079043284		
CEDAR HILL RECREATION CENTER	310 E PARKERVILLE RD		
CEDAR HILL RECREATION CENTER	310 E PARKERVILLE RD CEDAR HILL 75104		
D <b>EMELDA MARTIN</b>	CEDAR HILL 75104 R <b>DIANE KATSULIS</b>		
	CEDAR HILL 75104		
D <b>EMELDA MARTIN</b>	CEDAR HILL 75104 R <b>DIANE KATSULIS</b>		
D <b>EMELDA MARTIN</b> 1098996319	CEDAR HILL 75104  R <b>DIANE KATSULIS</b> 1088807614		
D EMELDA MARTIN 1098996319  CEDAR VALLEY COLLEGE-M BLDG  D FRANKIE WALKER LEONARD	CEDAR HILL 75104  R DIANE KATSULIS 1088807614  3030 N DALLAS AVE LANCASTER 75134  R VIRGINIA ESQUIVEL		
D EMELDA MARTIN 1098996319 CEDAR VALLEY COLLEGE-M BLDG	CEDAR HILL 75104  R DIANE KATSULIS 1088807614  3030 N DALLAS AVE LANCASTER 75134		
D EMELDA MARTIN 1098996319  CEDAR VALLEY COLLEGE-M BLDG  D FRANKIE WALKER LEONARD	CEDAR HILL 75104  R DIANE KATSULIS 1088807614  3030 N DALLAS AVE LANCASTER 75134  R VIRGINIA ESQUIVEL		
D EMELDA MARTIN 1098996319  CEDAR VALLEY COLLEGE-M BLDG  D FRANKIE WALKER LEONARD 1085560911	CEDAR HILL 75104  R DIANE KATSULIS 1088807614  3030 N DALLAS AVE LANCASTER 75134  R VIRGINIA ESQUIVEL 1088400767		
D EMELDA MARTIN 1098996319  CEDAR VALLEY COLLEGE-M BLDG  D FRANKIE WALKER LEONARD 1085560911  COPPELL TOWN CENTER  D NANCY WANG	CEDAR HILL 75104  R DIANE KATSULIS 1088807614  3030 N DALLAS AVE LANCASTER 75134  R VIRGINIA ESQUIVEL 1088400767  255 E PARKWAY BLVD COPPELL 75019 R KATHLEEN HODGES		
D EMELDA MARTIN 1098996319  CEDAR VALLEY COLLEGE-M BLDG  D FRANKIE WALKER LEONARD 1085560911  COPPELL TOWN CENTER	CEDAR HILL 75104  R DIANE KATSULIS 1088807614  3030 N DALLAS AVE LANCASTER 75134  R VIRGINIA ESQUIVEL 1088400767  255 E PARKWAY BLVD COPPELL 75019		
D EMELDA MARTIN 1098996319  CEDAR VALLEY COLLEGE-M BLDG  D FRANKIE WALKER LEONARD 1085560911  COPPELL TOWN CENTER  D NANCY WANG	CEDAR HILL 75104  R DIANE KATSULIS 1088807614  3030 N DALLAS AVE LANCASTER 75134  R VIRGINIA ESQUIVEL 1088400767  255 E PARKWAY BLVD COPPELL 75019 R KATHLEEN HODGES		
D EMELDA MARTIN 1098996319  CEDAR VALLEY COLLEGE-M BLDG  D FRANKIE WALKER LEONARD 1085560911  COPPELL TOWN CENTER  D NANCY WANG 1081409787	CEDAR HILL 75104  R DIANE KATSULIS 1088807614  3030 N DALLAS AVE LANCASTER 75134  R VIRGINIA ESQUIVEL 1088400767  255 E PARKWAY BLVD COPPELL 75019  R KATHLEEN HODGES 1081318844		
D EMELDA MARTIN 1098996319  CEDAR VALLEY COLLEGE-M BLDG  D FRANKIE WALKER LEONARD 1085560911  COPPELL TOWN CENTER  D NANCY WANG 1081409787	CEDAR HILL 75104 R DIANE KATSULIS 1088807614  3030 N DALLAS AVE LANCASTER 75134 R VIRGINIA ESQUIVEL 1088400767  255 E PARKWAY BLVD COPPELL 75019 R KATHLEEN HODGES 1081318844  1100 N CARRIER PKWY		

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DISCIPLE CENTRAL COMMUNITY	901 N POLK ST
CHURCH	DESOTO 75115
D PATRICIA CARR	R SYLVIA BRACKS
1085720427	1087146338
DUNCANVILLE LIBRARY	201 JAMES COLLINS BLVD
	DUNCANVILLE 75116
D BARBARA LEWIS	R VICKI MARSH
1084113729	1080157320
EASTFIELD COLLEGE-MAIN CAMPUS, C	3737 MOTLEY DR
BLDG	MESQUITE 75150
D <b>NGINA WHITE</b>	R MOLLY BISHOP
1203713290	1083684156
EASTFIELD COLLEGE-PLEASANT GROVE	802 S BUCKNER BLVD
CAMPUS	DALLAS 75217
D BOBBYE ROSS	R ANDREW CASTILLO
1161782389	2001963376
EL CENTRO COLLEGE-MAIN CAMPUS	801 MAIN ST
	DALLAS 75202
D CHERI BALL-MEZA	R JAN NORRIS
1083048522	1080469747
EL GENTRO COLLEGE MEGT CAMPUS	
EL CENTRO COLLEGE-WEST CAMPUS	3330 NORTH HAMPTON RD
EL CENTRO COLLEGE-WEST CAMPUS	3330 NORTH HAMPTON RD DALLAS 75212
D <b>DEBORAH CULBERSON</b>	DALLAS 75212 R <b>DEBRA AGUILAR</b>
	DALLAS 75212
D <b>DEBORAH CULBERSON</b>	DALLAS 75212 R <b>DEBRA AGUILAR</b>
D DEBORAH CULBERSON 1083065266	DALLAS 75212 R <b>DEBRA AGUILAR</b> 1078994440
D DEBORAH CULBERSON 1083065266  FLORENCE RECREATION CENTER  D CHARLES MULLINS	DALLAS 75212  R DEBRA AGUILAR 1078994440  2501 WHITSON WAY MESQUITE 75150 R RUSSELL JOHNSON
D DEBORAH CULBERSON 1083065266 FLORENCE RECREATION CENTER	DALLAS 75212  R DEBRA AGUILAR 1078994440  2501 WHITSON WAY MESQUITE 75150
D DEBORAH CULBERSON 1083065266  FLORENCE RECREATION CENTER  D CHARLES MULLINS	DALLAS 75212  R DEBRA AGUILAR 1078994440  2501 WHITSON WAY MESQUITE 75150 R RUSSELL JOHNSON
D DEBORAH CULBERSON 1083065266  FLORENCE RECREATION CENTER  D CHARLES MULLINS 1087660838	DALLAS 75212  R DEBRA AGUILAR 1078994440  2501 WHITSON WAY MESQUITE 75150 R RUSSELL JOHNSON 1084922195
D DEBORAH CULBERSON 1083065266  FLORENCE RECREATION CENTER  D CHARLES MULLINS 1087660838	DALLAS 75212  R DEBRA AGUILAR 1078994440  2501 WHITSON WAY MESQUITE 75150 R RUSSELL JOHNSON 1084922195  6990 BELT LINE RD

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# PRESIDING ELECTION OFFICERS AND ALTERNATE ELECTION OFFICERS SUBMISSION

## **Updated PEO and AEO**

FRIENDSHIP WEST BAPTIST CHURCH 2020 WHEATLAND RD	
FRIENDSHIP WEST BAPTIST CHURCH	DALLAS 75232
D DIANNA IACKSON	R PATRICIA PIERSON
D <b>DIANNA JACKSON</b> 1188905807	1155966120
GEORGE L ALLEN SR. COURTS BLDG	600 COMMERCE ST
	DALLAS 75202
D NICOLE SIMS	R WILLIAM HAUGEN
1086954383	1082759879
GRAUWYLER PARK REC CENTER	7780 HARRY HINES BLVD
	DALLAS 75235
D MARK W. BAKER	R LYIAH CLARK
1083402357	2170463201
HARRY STONE RECREATION CENTER	2403 MILLMAR DR
	DALLAS 75228
D BEN DAY	R LATRESE ADKINS
1080297198	1151196150
HIGHLAND HILLS LIBRARY	6200 BONNIE VIEW RD
HIGHLAND HILLS LIBRARY	6200 BONNIE VIEW RD DALLAS 75241
** D DEBBIE LEE	
	DALLAS 75241
** D DEBBIE LEE	DALLAS 75241  R <b>JOSEPH HERNANDEZ</b>
** D <b>DEBBIE LEE</b> 1091325853	DALLAS 75241  R JOSEPH HERNANDEZ 1088334104
** D <b>DEBBIE LEE</b> 1091325853	DALLAS 75241  R JOSEPH HERNANDEZ 1088334104  825 W IRVING BLVD
** D DEBBIE LEE 1091325853 IRVING CITY HALL	DALLAS 75241  R JOSEPH HERNANDEZ 1088334104  825 W IRVING BLVD IRVING 75060
** D DEBBIE LEE 1091325853  IRVING CITY HALL  D MAGGIE MARTINS	DALLAS 75241  R JOSEPH HERNANDEZ 1088334104  825 W IRVING BLVD IRVING 75060  R DEBRA ARNETT
** D DEBBIE LEE 1091325853  IRVING CITY HALL  D MAGGIE MARTINS 1087639334	DALLAS 75241  R JOSEPH HERNANDEZ 1088334104  825 W IRVING BLVD IRVING 75060  R DEBRA ARNETT 1084843959
** D DEBBIE LEE 1091325853  IRVING CITY HALL  D MAGGIE MARTINS 1087639334	DALLAS 75241  R JOSEPH HERNANDEZ 1088334104  825 W IRVING BLVD IRVING 75060  R DEBRA ARNETT 1084843959  1700 KELLER SPRINGS RD
** D DEBBIE LEE 1091325853  IRVING CITY HALL  D MAGGIE MARTINS 1087639334  JOSEY RANCH LAKE LIBRARY	DALLAS 75241  R JOSEPH HERNANDEZ 1088334104  825 W IRVING BLVD IRVING 75060  R DEBRA ARNETT 1084843959  1700 KELLER SPRINGS RD CARROLLTON 75006
** D DEBBIE LEE 1091325853  IRVING CITY HALL  D MAGGIE MARTINS 1087639334  JOSEY RANCH LAKE LIBRARY  D TERRY BARKER	DALLAS 75241  R JOSEPH HERNANDEZ 1088334104  825 W IRVING BLVD IRVING 75060  R DEBRA ARNETT 1084843959  1700 KELLER SPRINGS RD CARROLLTON 75006  R KALPANA PARAMESH
** D DEBBIE LEE 1091325853  IRVING CITY HALL  D MAGGIE MARTINS 1087639334  JOSEY RANCH LAKE LIBRARY  D TERRY BARKER 1082988961	DALLAS 75241  R JOSEPH HERNANDEZ 1088334104  825 W IRVING BLVD IRVING 75060  R DEBRA ARNETT 1084843959  1700 KELLER SPRINGS RD CARROLLTON 75006  R KALPANA PARAMESH 1086208163
** D DEBBIE LEE 1091325853  IRVING CITY HALL  D MAGGIE MARTINS 1087639334  JOSEY RANCH LAKE LIBRARY  D TERRY BARKER 1082988961	DALLAS 75241 R JOSEPH HERNANDEZ 1088334104  825 W IRVING BLVD IRVING 75060 R DEBRA ARNETT 1084843959  1700 KELLER SPRINGS RD CARROLLTON 75006 R KALPANA PARAMESH 1086208163  101 HOLLEY PARK DR

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## PRESIDING ELECTION OFFICERS AND ALTERNATE ELECTION OFFICERS SUBMISSION

## **Updated PEO and AEO**

-		
LANCASTER VETERANS MEMORIAL	1600 VETERANS MEMORIAL	
LIBRARY	LANCASTER 75134	
D CARLA REYNOLDS-GROGAN	R MICHAEL VOLGER	
1084450205	2125635541	
	44004   0.01   140 0 P. P.L. V.P.	
LOCHWOOD BRANCH LIBRARY	11221 LOCHWOOD BLVD	
	DALLAS 75218	
D GEORGE SIGGERS	R CORRINE HARDIN	
1082187251	1080987675	
MARSH LANE BAPTIST CHURCH	10716 MARSH LANE	
	DALLAS 75229	
D BETTY ROWE WILLIAMS	R DAVID W. WALLACE	
1083174779	2148257111	
MARTIN LUTHER KING CORE BLDG	2922 MARTIN L KING BLVD	
	DALLAS 75215	
D <b>GERRE WILLIAMS</b>	R JOHN MAYFIELD	
1186300576	1082963418	
MARTIN WEISS REC CENTER	1111 MARTINDELL AVE	
MARTIN WEISS REC CENTER	1111 MARTINDELL AVE DALLAS 75211	
	DALLAS 75211	
D JOE BURKLEO 1087627273		
D <b>JOE BURKLEO</b> 1087627273	DALLAS 75211 R <b>GLORIA HIBDON</b> 1080961858	
D <b>JOE BURKLEO</b>	DALLAS 75211  R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK	
D JOE BURKLEO 1087627273  MOUNTAIN CREEK LIBRARY	DALLAS 75211  R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK DALLAS 75249	
D JOE BURKLEO 1087627273  MOUNTAIN CREEK LIBRARY  D DIANA KRIS FARRELL	DALLAS 75211  R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK DALLAS 75249 R CLARISSA LINDSEY	
D JOE BURKLEO 1087627273  MOUNTAIN CREEK LIBRARY	DALLAS 75211  R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK DALLAS 75249	
D JOE BURKLEO 1087627273  MOUNTAIN CREEK LIBRARY  D DIANA KRIS FARRELL	DALLAS 75211  R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK DALLAS 75249 R CLARISSA LINDSEY	
D JOE BURKLEO 1087627273  MOUNTAIN CREEK LIBRARY  D DIANA KRIS FARRELL 1145233168	DALLAS 75211 R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK DALLAS 75249 R CLARISSA LINDSEY 1085899671	
D JOE BURKLEO 1087627273  MOUNTAIN CREEK LIBRARY  D DIANA KRIS FARRELL 1145233168	DALLAS 75211 R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK DALLAS 75249 R CLARISSA LINDSEY 1085899671  4849 W ILLINOIS AVE	
D JOE BURKLEO 1087627273  MOUNTAIN CREEK LIBRARY  D DIANA KRIS FARRELL 1145233168  MOUNTAIN VIEW COLLEGE-E BLDG	DALLAS 75211 R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK DALLAS 75249 R CLARISSA LINDSEY 1085899671  4849 W ILLINOIS AVE DALLAS 75211	
D JOE BURKLEO 1087627273  MOUNTAIN CREEK LIBRARY  D DIANA KRIS FARRELL 1145233168  MOUNTAIN VIEW COLLEGE-E BLDG  D WILLIAM WOODS 1080877445	DALLAS 75211  R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK DALLAS 75249  R CLARISSA LINDSEY 1085899671  4849 W ILLINOIS AVE DALLAS 75211  R DON WEEKS 1083889958	
D JOE BURKLEO 1087627273  MOUNTAIN CREEK LIBRARY  D DIANA KRIS FARRELL 1145233168  MOUNTAIN VIEW COLLEGE-E BLDG  D WILLIAM WOODS	DALLAS 75211 R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK DALLAS 75249 R CLARISSA LINDSEY 1085899671  4849 W ILLINOIS AVE DALLAS 75211 R DON WEEKS 1083889958  5001 N MACARTHUR BLVD	
D JOE BURKLEO 1087627273  MOUNTAIN CREEK LIBRARY  D DIANA KRIS FARRELL 1145233168  MOUNTAIN VIEW COLLEGE-E BLDG  D WILLIAM WOODS 1080877445  NORTH LAKE COLLEGE-F BLDG	DALLAS 75211  R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK DALLAS 75249  R CLARISSA LINDSEY 1085899671  4849 W ILLINOIS AVE DALLAS 75211  R DON WEEKS 1083889958  5001 N MACARTHUR BLVD IRVING 75038	
D JOE BURKLEO 1087627273  MOUNTAIN CREEK LIBRARY  D DIANA KRIS FARRELL 1145233168  MOUNTAIN VIEW COLLEGE-E BLDG  D WILLIAM WOODS 1080877445	DALLAS 75211 R GLORIA HIBDON 1080961858  6102 MOUNTAIN CREEK PK DALLAS 75249 R CLARISSA LINDSEY 1085899671  4849 W ILLINOIS AVE DALLAS 75211 R DON WEEKS 1083889958  5001 N MACARTHUR BLVD	

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## PRESIDING ELECTION OFFICERS AND ALTERNATE ELECTION OFFICERS SUBMISSION

## **Updated PEO and AEO**

OAK CLIFF SUB-COURTHOUSE	410 S BECKLEY AVE	
	DALLAS 75203	
D <b>DIANA BROADUS</b>	R PATRICK DALE	
1084042061	1121250454	
OAKLAWN BRANCH LIBRARY	4100 CEDAR SPRINGS RD	
	DALLAS 75219	
D DAVID FISHER	R DANIELLE COFNAS	
1002113326	2174504412	
OUR REDEEMER LUTHERAN CHURCH	7611 PARK LN	
OOK KEDELINEK EO MENDIK ONOKON	DALLAS 75225	
D MICHELE VALENTINO		
1083188383	R <b>ROWELL LUBBERS</b> 1083340864	
100010000	1000010001	
OUR REDEEMER LUTHERAN CHURCH- GP	4729 S CARRIER PKWY	
	GRAND PRAIRIE 75052	
D EVELYN GRAY	R ADRIANA ANGEL	
1084425491	1172788889	
PAUL L DUNBAR LANCASTER-KEIST	2008 EAST KIEST BLVD	
LIBRARY	DALLAS 75216	
D YVONNE WILLIAMS	R THERESA HAYES	
1084019290	1084048456	
RICHARDSON CIVIC CENTER	411 W ARAPAHO RD	
	RICHARDSON 75080	
D <b>LORI RALEY</b>	R CYNTHIA HOLLIDAY	
1081065167	1083072882	
RICHLAND COLLEGE-GARLAND CAMPUS	675 W WALNUT ST	
	GARLAND 75040	
D <b>JANET HARRIS</b>	R SHIRLEY RAVEN	
1083757176	1083569898	
	-	
RICHLAND COLLEGE-MAIN CAMPUS	9596 WALNUT ST	
	DALLAS 75243	
D GREGORY BYRNE	R JULIANA MARTINEZ	

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1088536933

1081229049

## PRESIDING ELECTION OFFICERS AND ALTERNATE ELECTION OFFICERS SUBMISSION

## **Updated PEO and AEO**

ROWLETT CITY HALL ANNEX	4004 MAIN ST
	ROWLETT 75088
D MAGGIE ENSLEY	** R MARIA MARCON
1078459158	1083317792
SACHSE SENIOR CENTER	3815 SACHSE RD, BLDG A
	SACHSE 75048
D SANDRA FRANKLIN	R LEZETTE MCFADDEN
1081451706	1080217902
SAMUELL GRAND REC CENTER	6200 E GRAND AVE
	DALLAS 75223
D <b>LOTA DUNHAM</b>	R VIRGINIA MONTFORT
1080364148	1083391257
SKYLINE BRANCH LIBRARY	6006 EVERGLADE RD
OKTERNE BIOUNDIN EIBIOUKT	DALLAS 75227
D TRACY DOTIE HILL	R BONNIE WATT
1080969076	1080481782
100000010	1000 10 11 02
SOUTH GARLAND BRANCH LIBRARY	4845 BROADWAY BLVD
	GARLAND 75043
D <b>NGENA WHITE</b>	R MATTHEW FONTAINE
1203886713	1082858849
UNIVERSITY PARK UNITED METHODIST	4024 CARUTH BLVD
CHURCH	DALLAS 75225
D <b>JOSEPH SPERANDEO</b> 1086380675	R <b>LINDA COLLINS</b> 1083226666
1000300073	1003220000
VALLEY RANCH BRANCH LIBRARY	401 CIMARRON TRL
	IRVING 75063
D <b>JUZAR HASTA</b>	R JOHN COTHRAN
1083705225	1081316773



## **DALLAS COUNTY ELECTIONS DEPARTMENT**

## **MAY JOINT 2022 - PARTICIPATING ENTITIES**

#	<b>ENTITY NAME</b>	CONTACT NAME AND TITLE	<b>CONTACT INFORMATION</b>
1	Carrollton-Farmers Branch ISD	Brian Moersch- Assoc. Superintendent	(972) 968-6152 moerschb@cfbisd.edu
2	Cedar Hill ISD	Janine Fields -Chief of Staff	(972) 291-1581 janine.fields@chisd.net
3	City of Balch Springs	Cindy Gross -City Secretary	(972) 286-4477 cgross@cityofbalchsprings.com
4	City of Carrollton	Chloe Sawatzky –City Secretary	(972) 466-3252 chloe.sawatzky@cityofcarrollton.com
5	City of Cockrell Hill	Bret Haney -Elections Administrator	(214) 815-7295 bhaney@cockrell-hill.tx.us
6	City of Combine	Robin Price -City Secretary	(972) 476-1532 city@combinetx.com
7	City of Desoto	Alicia Thomas –City Secretary	(972) 230-9664 athomas@desototexas.gov
8	City of Duncanville	Kristin Downs -City Secretary	(972) 780-5017 kdowns@duncanville.com
9	City of Farmers Branch	Amy Piukana -City Secretary	(972) 919-2503 amy.piukana@farmersbranchtx.gov
10	City of Garland	Carma Potter- Council Assistant	(972) 205-2292 cpotter@garlandtx.gov
11	City of Grand Prairie	Mona Lisa Galicia - City Secretary	(972) 237-8035 mgalicia@gptx.org
12	City of Hutchins	Cynthia Olguin - City Secretary	(972) 225-7435 colguin@cityofhutchins.org
13	City of Irving	Shanae Jennings - City Secretary	(972) 721-2605 sjennings@cityofirving.org
14	City of Lancaster	Sorangel Arenas -City Secretary	(214) 226-0121 aarenas@lancaster-tx.com
15	City of Lewisville	Julie Worster - City Secretary	(972) 219-3404 jworster@cityoflewisville.com
16	City of Rowlett	Laura Hallmark -City Secretary	(972) 412-6109 lhallmark@rowlett.com
17	City of Sachse	Leah Granger- Interim City Secretary	(469) 429-4773 Igranger@cityofsachse.com
18	City of Seagoville	Kandi Jackson -City Secretary	(972) 287-6819 citysecretary@seagoville.us
19	City of University Park	Christine Green -City Secretary	(214) 987-5302 cgreen@uptexas.org
20	City of Wilmer	Mayra Ortiz -City Secretary	(972) 441-6373 mortiz@cityofwilmer.net

#	<b>ENTITY NAME</b>	CONTACT NAME AND TITLE	<b>CONTACT INFORMATION</b>
21	City of Wylie	Stephanie Storm - City Secretary	(972) 516-6022 stephanie.storm@wylietexas.gov
22	Coppell ISD	Carol Snowden - Supt Secretary	(214) 496-8002 csnowden@coppellisd.com
23	Dallas College	Torsha McCarty - Elections Administrator	(214) 378-1703 tmccarty@dcccd.edu
24	Dallas County Park Cities Municipal Utility District	Richard Wagner -General Manager	(214) 652-8639 wagner@parkcitieswater.com
25	Dallas Independent School District	Shantell Grant -Executive Director of Board Services	(972) 925-3720 sgrant@dallasisd.org
26	DeSoto ISD	Carla Venters-Griffin - Senior Executive Administrative Assistant	(972) 223-6666 carla.venters@desotoisd.org
27	Duncanville ISD	Edd Bigbee - CFO	(972) 708-2029 edd_bigbee@yahoo.com
28	Garland ISD	Mechelle Hogan - Board Services Manager	(972) 487-3263 Mnhogan@garlandisd.net
29	Grand Prairie ISD	Debbie Torres - Director of Purchasing / Elections Coordinator	(972) 237-5515 debbie.torres@gpisd.org
30	Highland Park ISD	Scott Drillette - Asst. Supt. for Business Services	(214) 780-3011 drilles@hpisd.org
31	Irving ISD	Esther Kolni - General Counsel	(972) 600-5456 ekolni@irvingisd.net
32	Mesquite ISD	Linda Samples - Executive Assistant to Superintendent	(972) 882-7311 Isamples@mesquiteisd.org
33	Richardson ISD	Viridiana Gutierrez - Executive Assistant to C.F.O.	(469) 593-0331 viridiana.gutierrez@risd.org
34	Town of Addison	Irma Parker - City Secretary	(972) 450-9017 iparker@addisontx.gov
35	Town of Highland Park	Joanna Mekeal -Town Secretary	(214) 559-9457 Jmekeal@hptx.org
36	Town of Sunnyvale	Rachel Ramsey - Director of Administration/Town Secretary	(972) 203-4153 rachel.ramsey@townofsunnyvale.org

#### CITY OF LANCASTER CITY COUNCIL

#### **City Council Regular Meeting**

4.

**Meeting Date:** 02/14/2022

Policy Statement: This request supports the City Council 2021-2022 Policy Agenda

**Goal(s):** Healthy, Safe & Engaged Community

Sound Infrastructure Quality Development

**Submitted by:** Jermaine Sapp, Director of Equipment and Facility Services

#### **Agenda Caption:**

Consider a resolution approving the terms and conditions of an agreement with Environmental Reconstruction Services, Inc. (ERS) for relocation of the propane fuel tank in an amount not to exceed fifty-five thousand, eight hundred, seventeen dollars (\$55,817.00).

#### **Background:**

ERS designed and installed the current fuel tanks and fuel management system in May 1995 and upgraded the system in May 2017.

ERS will furnish and install one concrete pad for a propane tank and relocate the existing propane tank to the new pad site. The contractor has estimated ten (10) working days for completion. The tanks will be added to the current fuel management system to monitor and dispense with propane.

The City has a propane fueling station location at 701 E. Main Street. The system lacks proper security and is not connected to our systems. Relocating the propone system to 629 E. Third Street will connect it to our existing system, provide for tracking, maintenance and security.

#### **Legal Considerations:**

This City Attorney has reviewed and approved the resolution and agreement, as to form.

#### **Public Information Considerations:**

This item is being considered at a Regular Meeting of the City Council noticed in accordance with the Texas Open Meetings Act.

#### **Fiscal Impact:**

The agreement with Environmental Reconstruction Services, Inc. (ERS) for relocation of the propane fuel tank will not exceed fifty-five thousand, eight hundred and seventeen dollars (\$55,817.00) funds budgeted in FY 2021/2022.

#### **Options/Alternatives:**

- 1. City Council may approve the resolution, as presented.
- 2. City Council may deny the resolution.

## **Recommendation:**

Staff recommends approval of the resolution, as presented.

## **Attachments**

Resolution Standard Agreement Proposal- ERS- Exhibit A

#### **RESOLUTION NO.**

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF LANCASTER, TEXAS, APPROVING THE TERMS AND CONDITIONS OF AN AGREEMENT WITH ENVIRONMENTAL RECONSTRUCTION SERVICES, INC. (ERS) FOR THE RELOCATION OF A PROPANE FUEL TANK; AUTHORIZING THE CITY MANAGER TO EXECUTE SAID AGREEMENT IN AN AMOUNT NOT TO EXCEED FIFTY-FIVE THOUSAND, EIGHT HUNDRED AND SEVENTEEN DOLLARS \$55,817.00; PROVIDING A REPEALING CLAUSE; PROVIDING A SEVERABILITY CLAUSE; AND PROVIDING AN EFFECTIVE DATE.

**WHEREAS**, the City Council of Lancaster, Texas, desires to improve its fuel island and fuel management system; and

WHEREAS, the relocation of this equipment will improve productivity, efficiency; and

**WHEREAS**, the City Council hereby approves and authorizes the installation of a fuel tank and fuel management system with Environmental Reconstruction Services, Inc. (ERS) as described in the agreement, attached hereto and incorporated herein by reference as: Exhibit "A".

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

<u>SECTION 1.</u> The City Council hereby approves, accepts, and authorizes the agreement with Environmental Reconstruction Services, Inc. (ERS) in an amount not to exceed fifty-five thousand, eight hundred and seventeen dollars (\$55,817.00), as set forth in Exhibit "A," and

**SECTION 2.** That the City Manager of the City of Lancaster, Texas or her designee is hereby authorized to execute the contract in conformity herewith.

**SECTION 3.** Any prior Resolutions of the Lancaster City Council in conflict with the provisions contained in this Resolution are hereby repealed and revoked.

**SECTION 4.** Should any part of this Resolution be held to be invalid for any reason, the remainder shall not be affected thereby, and such remaining portions are hereby declared to be severable.

**SECTION 5.** This Resolution shall become effective immediately from and after its passage, and it is duly resolved.

**DULY PASSED** and approved by the City Council of the City of Lancaster, Texas, on this the 14th of February, 2022.

ATTEST:	APPROVED:
Sorangel O. Arenas, City Secretary	Clyde C. Hairston, Mayor
APPROVED AS TO FORM:	
David T. Ritter, City Attorney	

#### City of Lancaster, Texas

### **Standard Professional Services Agreement**

This Agreement is made by and between the City of Lancaster, Texas, a home-rule municipality (hereinafter referred to as the "City") and Environmental Reconstruction Services, Inc. (ERS) a Texas limited partnership (hereinafter referred to as the "Provider") for propane relocation (hereinafter referred to as the "Project"), the City and the Provider hereby agree as follows:

#### ARTICLE I: CONTRACT & CONTRACT DOCUMENTS

#### 1.1 THE CONTRACT

The Contract between the City and the Provider, of which this Agreement is a part, consists of the Contract Documents. It shall be effective on the date this Agreement is executed by the last party to execute it.

#### 1.2 THE CONTRACT DOCUMENTS

The Contract Documents consist of this Agreement, Exhibit 'A' (Scope of Work), all Amendments issued hereafter, any other amendments executed by the parties, together with the following (if any): None

Documents not enumerated in this Paragraph 1.2 are not Contract Documents and do not form part of this Contract.

#### ARTICLE 2: RECITALS

- 2.1 The City desires to engage the Provider to complete a propane relocation to an existing Fuel Master Fleet Management System; and
- 2.2 The Provider has the professional knowledge, ability and expertise to provide such services; and
- 2.3 The City desires to engage the services of Provider, as an independent Contractor and not as an employee, to provide the services listed below and as detailed in the Proposal which is attached hereto and incorporated herein as **Exhibit A**.

#### ARTICLE 3: TERM / TERMINATION

#### 3.1 Time of Performance

All work and services provided under this Contract must be completed as outlined in **Exhibit A.** 

#### 3.2 Time is of the essence of this Contract.

The Provider shall be prepared to provide the professional services in the most expedient and efficient manner possible in order to complete the work by the times specified.

#### 3.3 TERMINATION

This Agreement may be suspended or terminated by either Party with or without cause at any time by giving written notice to the other party. In the event suspension or termination is without cause, payment to the Provider, in accordance with the terms of this Agreement, will be made on the basis of services reasonably determined by City to be satisfactorily performed to date of suspension or termination. Such payment will be due upon delivery of all instruments of service to City.

In the event that City requires a modification of the Agreement with Provider, and in the event the parties fail to agree upon a modification of this Agreement, the Parties shall have the option of terminating this Agreement. Payment to Provider shall be made by the City in accordance with the terms of this Agreement, for the services mutually agreed upon by the Parties to be properly performed by the Provider prior to such termination date.

#### ARTICLE 4: SCOPE OF SERVICES

#### 4.1 Scope of Services

In consideration of the compensation stated in Article 5, the provider agrees to provide the City with the services as described in **Exhibit A** which is incorporated herein by reference for all purposes, and which services may be more generally described as follows:

#### **Summary of Key Scope Components:**

- Furnish and install one concrete pad for propane tank, including pipe bollards and pipe guard. (500 sq. ft.)
- Haul off excess dirt from concrete pad area.
- Relocate existing propane tank to new site.
- Furnish and install Gasboy single hose propane dispenser.
- Hook up propane dispenser to existing Fuel Master Fleet Management System.
- Furnish and install electrical conduit and wiring for hook up of propane dispenser and Fuel Master System.
- Obtain necessary permits per the City of Lancaster, TX

#### 4.2 **AUTHORIZED AGENT**

All work performed by the Provider will be performed under this Agreement, signed by a duly authorized agent of the City as approved by resolution of the City Council of the City of Lancaster, Texas and the designated authorized agent for the Provider.

#### ARTICLE 5: COMPENSATION / PAYMENT TERMS AND CONDITIONS

- 5.1 Compensation for the performance of Services described herein shall be paid to the Provider by the City in an amount not to exceed the lump sum price submitted which shall accrue and be payable as provided in Sections 5.1 and 5.2 hereof.
- Work will be performed at the rates set forth in **Exhibit A.** Basis of Compensation, which is attached hereto and incorporated herein by reference, or as otherwise provided in negotiated fee schedules approved within this Agreement, if any. Any additional work beyond the lump sum agreement must be authorized in advance by the City in writing.
- 5.3 If the City fails to make any payment due the Provider within thirty (30) days after receipt of Provider's invoice, the amounts due the Provider will be increased at the rate of 1.5% per month from said thirtieth day, unless there is a good faith refusal by the City to pay. Payment shall be remitted to Provider by City as instructed on invoices.
- 5.4 Invoices shall be delivered to one of the following a d d r e s s.

City of Lancaster Accounts Payable PO Box 940 Lancaster, TX 75146 accounts-payable@lancaster-tx.com

#### ARTICLE 6: TIME FOR COMPLETION

- 6.1 The Provider's services and compensation under this Agreement have been agreed to in anticipation of orderly and continuous progress of the Assigned Project(s) through completion of the project(s) as detailed in Exhibit 'A'.
- 6.2 If the City fails to give prompt written authorization to proceed with any phase of services after completion of the immediately preceding phase, the Provider shall be entitled to equitable adjustment of rates and amounts of compensations to reflect reasonable costs incurred by Provider as a result of the delay or changes in the various elements that comprise such rates of compensation, but in no event shall such compensation exceed the scope of services schedule of maximum payment unless a written amendment to this Agreement is consummated between the parties.

#### ARTICLE 7: INDEMNIFICATION

- 7.1 THE PROVIDER AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS THE CITY, ITS OFFICERS, AGENTS, SERVANTS AND EMPLOYEES (HEREINAFTER COLLECTIVELY REFERRED TO AS "INDEMNITIES") FROM AND AGAINST SUITS, ACTIONS, CLAIMS, LOSSES, ANY DAMAGE, LIABILITY, AND FROM AND AGAINST ANY COSTS AND EXPENSES, INCLUDING, IN PART, ATTORNEY FEES INCIDENTAL TO THE DEFENSE OF SUCH SUITS, ACTIONS CLAIMS, LOSSES, DAMAGES OR LIABILITY ON ACCOUNT OF INJURY, DISEASE, SICKNESS, INCLUDING DEATH, TO ANY PERSON OR DAMAGETO PROPERTY INCLUDING, IN PART, THE LOSS OF USE RESULTING THEREFROM, ARISING FROM ANY NEGLIGENT ACT, ERROR OR OMISSION OF THE PROVIDER, ITS OFFICERS, EMPLOYEES, SERVANTS, AGENTS OR SUBCONTRACTORS, OR ANYONE ELSE UNDER THE PROVIDER'S DIRECTION AND CONTROL, AND ARISING OUT OF, RESULTING FROM, OR CAUSED BY THE PERFORMANCE OF FAILURE OF PERFORMANCE OF ANY WORK OR SERVICES UNDER THIS AGREEMENT, OR FROM CONDITIONS CREATED BY THE PERFORMANCE OR NON-PERFORMANCE OF SAID WORK OR SERVICES. IN THE EVENT ONE OR MORE OF THE INDEMNITIES IS DETERMINED BY A COURT OF LAW TO BE JOINTLY OR DERIVATIVELY NEGLIGENT OR LIABLE FOR SUCH DAMAGEOR INJURY, THE PROVIDER SHALL BE OBLIGATED TO INDEMNIFY INDEMNITIES AS PROVIDED HEREIN ON A PROPORTIONATE BASIS IN ACCORDANCE WITH THE FINAL JUDGMENT, AFTER ALL APPEALS ARE EXHAUSTED, DETERMINING SUCH JOINT OR DERIVATIVE NEGLIGENCE OR LIABILITY.
- 7.2 THE CITY AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD THE PROVIDER, ITS OFFICERS, AGENTS, SERVANTS AND EMPLOYEES (HEREINAFTER COLLECTIVELY REFERRED TO AS "INDEMNITIES") FROM AND AGAINST SUITS, ACTIONS, CLAIMS, LOSSES, ANY DAMAGE, LIABILITY, AND FROM AND AGAINST ANY COSTS AND EXPENSES, INCLUDING, IN PART, ATTORNEY FEES INCIDENTAL TO THE DEFENSE OF SUCH SUITS, ACTIONS CLAIMS, LOSSES, DAMAGES OR LIABILITY ON ACCOUNT OF INJURY, DISEASE, SICKNESS, INCLUDING DEATH, TO ANY PERSON OR DAMAGETO PROPERTY INCLUDING, IN PART, THE LOSS OF USE RESULTING THEREFROM, ARISING FROM ANY NEGLIGENT ACT, ERROR OR OMISSION OF THE CITY, ITS OFFICERS, EMPLOYEES, SERVANTS, AGENTS OR SUBCONTRACTORS, OR ANYONE ELSE UNDER THE CITY'S DIRECTION AND CONTROL, AND ARISING OUT OF, RESULTING FROM, OR CAUSED BY THE PERFORMANCE OR FAILURE OF PERFORMANCE OF ANY WORK OR SERVICES UNDER THIS AGREEMENT, OR FROM CONDITIONS CREATED BY THE PERFORMANCE OR NON-PERFORMANCE OF SAID WORK OR SERVICES. IN THE EVENT ONE OR MORE OF THE INDEMNITIES IS DETERMINED BY A COURT OF LAW TO BE JOINTLY OR DERIVATIVELY NEGLIGENT OR LIABLE FOR SUCH DAMAGE OR INJURY, THE CITY SHALL BE OBLIGATED TO INDEMNIFY INDEMNITIES AS PROVIDED HEREIN ON A PROPORTIONATE BASIS IN ACCORDANCE WITH THE FINAL JUDGMENT, AFTER ALL APPEALS ARE EXHAUSTED, DETERMINING SUCH JOINT OR DERIVATIVE NEGLIGENCE OR LIABILITY.
- 7.3 THE PROVIDER IS NOT OBLIGATED TO INDEMNIFY THE CITY IN ANY MANNER WHATSOEVER FOR THE CITY'S OWN NEGLIGENCE.
- 7.4 NOTHING CONTAINED HEREIN SHALL CONSTITUTE A WAVER OF GOVERNMENTAL IMMUNITY IN FAVOR OF ANY THIRD PARTY.
- 7.5 PROVIDER AGREES THAT IT IS AN INDEPENDENT CONTRACTOR AND NOT AN AGENT OF THE CITY, AND THAT PROVIDER IS SUBJECT, AS AN EMPLOYER, TO ALL APPLICABLE UNEMPLOYMENT COMPENSATION STATUTES, SO FAR AS TO RELIEVE THE CITY OF ANY RESPONSIBILITY OR LIABILITY FROM TREATING PROVIDER'S EMPLOYEES AS EMPLOYEES OF CITY FOR THE PURPOSE OF KEEPING RECORDS, MAKING REPORTS OR PAYMENTS OF UNEMPLOYMENT COMPENSATION TAXESOR CONTRIBUTIONS. PROVIDER FURTHER AGREES TO INDEMNIFY AND HOLD CITY HARMLESS AND REIMBURSE IT FOR ANY EXPENSES OR LIABILITY INCURRED UNDER SAID STATUTES IN CONNECTION WITH EMPLOYEES OF PROVIDER.

7.6 PROVIDER SHALL DEFEND AND INDEMNIFY INDEMNITIES AGAINST AND HOLD CITY AND THE PREMISES HARMLESS FROM ANY AND ALL CLAIMS, SUITS OR LIENS BASED UPON OR ALLEGED TO BE BASED UPON THE NON- PAYMENT OF LABOR, TOOLS, MATERIALS, EQUIPMENT, SUPPLIES, TRANSPORTATION AND MANAGEMENT COSTS INCURRED BY PROVIDER IN PERFORMING THIS AGREEMENT.

#### ARTICLE 8: INSURANCE

#### 8.1 Workers Compensation Insurance

The Provider shall provide and maintain Workers' Compensation with statutory limits.

#### 8.2 Automotive Insurance

Provider shall provide and maintain in full force and effect during the time of this Agreement, auto insurance (including, but not limited to, insurance covering the operation of owned and non-owned automobiles, trucks and other vehicles) protecting Provider and City as an additional insured with limits not less than 250/500/100,000 or as amended by statute.

#### 8.3 General Liability Insurance

Provider shall provide general liability insurance. Such insurance covering personal and bodily injuries or death shall be in the sum of not less than two hundred fifty thousand dollars (\$250,000.00) per occurrence and five hundred thousand dollars (\$500,000.00) aggregate. Insurance covering damages to property shall be in the sum of not less than one hundred thousand dollars (\$100,000.00). The general liability insurance must name the City as an additional in sured.

#### 8.4 Professional Liability Errors and Omissions Insurance

Provider shall also provide and maintain Professional Liability Errors and Omissions Insurance coverage to protect Provider and City from any liability arising out of the performance of professional services, if any, under this Agreement. Such coverage shall be in the sum of not less than three hundred thousand dollars (\$300,000.00) per occurrence and five hundred thousand dollars (\$500,000.00) aggregate.

#### 8.5 Certificate of Insurance

A signed Certificate of Insurance, satisfactory to City, showing compliance with the requirements of this Article shall be furnished to City before any services are performed. Such Certificate shall provide thirty (30) days written notice to City prior to the cancellation or modification of any insurance referred to therein.

The project name and bid/contract number shall be listed on the certificate.

#### ARTICLE 9: DEFAULT

In the event Provider fails to comply or becomes disabled and unable to comply with the provisions of this Agreement as to the quality or character of the service or time of performance, and the failure is not corrected within thirty (30) days after written notice by City to Provider, City may, at its sole discretion without prejudice to any other right or remedy.

- (a) Terminate this Agreement and be relieved of the payment of any further consider ation to Provider except for all work determined by City to be satisfactorily completed prior to termination. Payment for work satisfactorily completed shall be for actual costs, including reasonable salaries and travel expenses of Provider to and from meetings called by City at which Provider is required to attend, but shall not include and loss of profit of Provider. In the event such termination, City may proceed to complete the services in any manner deemed proper by the City, either by the use of its own forces or by resubmitting to others. Provider agrees that any costs incurred to complete the services herein provided for may be deducted and paid by the owner out of such money's as may be due or that may thereafter become due to Provider under and by virtue of this Agreement.
- (b) City may, without terminating this Agreement or taking over the services, furnish the necessary materials, equipment, supplies and/or help necessary to remedy the situation, at the expense of Provider.

#### **ARTICLE 10: MISCELLANEOUS**

#### 10.1 Reuse of Documents:

Except as otherwise dictated by the Contract Documents, and with the explicit exception of the preliminary and final Master Trail Map documents, all documents including Maps, Plans and Specifications provided or furnished by the Provider pursuant to this Agreement are instruments of service; and Provider shall retain ownership and property interest therein whether or not the work is completed. The City may make and retain copies of any plans or specifications provided under this Agreement for the use by City and others; such documents are not intended or suitable for reuse by City or others on extension of the Project or on any other Project. Any such reuse without written approval or adaptation by the Provider for the specific purpose intended will be at the City's sole risk and without liability to the Provider.

#### 10.2 Entire Agreement.

This Agreement constitutes the sole and only Agreement of the parties and supersedes any prior understandings or written or oral agreements between the parties with respect to this subject matter.

#### 10.3 Assignment.

Neither this Agreement nor any duties or obligations under it shall be assignable by Provider without the prior written consent of City. In the event of an assignment by Provider to which the City has consented, the assignee or the assignee's legal representative shall agree in writing with the City to personally assume, perform, and be bound by all the covenants, obligations, and agreements contained in this Agreement.

#### 10.4 Adjustments in Services/Amendment.

This Agreement may be amended by the mutual written agreement of the parties. Provider shall not make any claims for extra services, additional services or changes in the services without a written agreement with City prior to the performance of such services.

#### 10.5 Governing law.

The validity of this Agreement and any of its terms or provisions, as well as the rights and duties of the parties, shall be governed by the laws of the State of Texas; and venue for any action concerning this Agreement shall be in Dallas County, Texas.

#### 10.6 Notices.

All notices required by the Agreement shall be in writing and addressed to the following, or such other party or address as either party designates in writing, by certified mail, postage prepaid or by hand delivery:

#### City of Lancaster Environmental Reconstruction Services, INC. (ERS)

Opal Mauldin-Jones, City Manager Terry Sauls PO Box 940 P.O Box 9

Lancaster, TX 75146 Wylie, TX 75098

972-218-1300 Ph. 972-524-2946-O; 469-951-7604 M

### 10.7 Legal construction.

In the event any one or more of the provisions contained in this Agreement shall for any reason be held to be invalid, illegal, or unenforceable in any respect, such invalidity, illegality, or unenforceability shall not affect any other provisions and the Agreement shall be construed as if such invalid, illegal, or unenforceable provision had never been contained in this Agreement.

#### 10.8 Successors and Assigns.

(a) The City and Provider each is hereby bound and the partners, successors, executors, administrators, legal representatives and assigns of City and Provider are hereby bound to the other party to this Agreement and to the partners, successors, executors, administrators, legal representatives and assigns of such other party in respect of all covenants and obligations of this Agreement.

- (b) Neither the City nor the Provider may assign, sublet, or transfer any rights under or interest (including, but without limitation, moneys that are due or may become due) in this Agreement without the written consent of the other, except to the extent that any assignment, subletting or transfer is mandated by law or the effect of this limitation may be restricted by law. Unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under this Agreement.
- (c) Nothing in this Agreement shall be construed to create, impose or give rise to any duty owed by the Provider to any Provider, subcontractor, supplier, other person or entity, or to any surety for or employee of any of them, or give any rights in or benefits under this Agreement to anyone other than the City and the Provider.

#### 10.9 Conflict.

If a conflict exists between this Agreement, and an Exhibit, the Response, then such conflicts shall be resolved as follows:

- (a) If a conflict exists between this Agreement and an Exhibit or the Response, then this Agreement shall control
- (b) If a conflict exists between the Response and an Exhibit, the Exhibit shall control.

### 10.10 Severability

Any provision or part of the Agreement held to be void or unenforceable under any law or regulation shall be deemed stricken and all remaining provisions shall continue to be valid and binding upon the City and the Provider, who agree that the Agreement shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

### 10.11 Captions

The captions used in this Agreement are for convenience only and shall not affect in any way the meaning or interpretations of the provisions s e t forth herein.

### 10.12 Counterparts

This Agreement may be executed in any number of counterparts, each of which shall be deemed an original and constitute one and the same instrument.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on this the 14th day of February, 2022.

CITY OF LANCASTER, TEXAS A Texas home-rule municipality	Environmental Reconstruction Services, INC. (ERS). A Texas General INC.	
Opal Mauldin-Jones, City Manager	Terry Sauls	
Date:	Date:	

Exhibit A: Scope of Work

#### **EXHIBIT A**

## ERS, INC.

## **E**NVIRONMENTAL **R**ECONSTRUCTION **S**ERVICES, **I**NC.

A Registered and Insured UST Contractor

October 15, 2021

City of Lancaster -Propane

ERS Job Proposal #21-077

Lancaster, TX

Propane Installation

#### **SCOPE OF WORK**

- Furnish and install one concrete pad for propane tank, including pipe bollards and pipe guard. (500 sq. ft.)
- Haul off excess dirt from concrete pad area.
- Relocate existing propane tank to new site.
- Furnish and install Gasboy single hose propane dispenser.
- Hook up propane dispenser to existing Fuel Master Fleet Management System.
- Furnish and install electrical conduit and wiring for hook up of propane dispenser and Fuel Master System.
- Obtain necessary permits per the City of Lancaster, TX

Estimated Time on Job: 10 working days

Total Construction Cost: \$ 38,597.00 Total Equipment Cost: \$ 17,220.00 Total Estimated Cost: \$55,817.00

#### **Exclusions:**

- Fuel for startup by others.
- Permitting of Propane tank to Texas Railroad Commission by others.

Sincerely,

Terry Sauls

#### ENVIRONMENTAL RECONSTRUCTION SERVICES, INC.

972-524-2946 – Office 469-951-7604 - Mobile

#### CITY OF LANCASTER CITY COUNCIL

#### **City Council Regular Meeting**

5.

**Meeting Date:** 02/14/2022

Policy Statement: This request supports the City Council 2021-2022 Policy Agenda

**Goal(s):** Financially Sound Government

**Submitted by:** Opal Mauldin-Jones, City Manager

### **Agenda Caption:**

Consider a resolution designating representatives of the City of Lancaster authorized to transmit and withdraw funds and take all other actions deemed necessary or appropriate for the investment of local funds in TexPool/TexPool Prime; providing for the addition and deletion of an authorized representative.

#### **Background:**

The City currently invests its resources with TexPool. TexPool requires the passage of a resolution by the governing body to add or remove primary and secondary representatives to make transactions. The City's accounts are currently established for internal transfer (from one City TexPool account to another), deposit (from the City depository checking account to TexPool), and withdrawal (from the TexPool account to the City depository checking account) transactions only.

The primary and secondary representatives are required to attend mandatory training for operation of the investment portfolio.

#### **Operational Considerations:**

This resolution adds and assigns primary responsibility to Mike Delmore, Director of Finance, Christine Harris, Assistant Director of Finance, and Opal Mauldin-Jones, City Manager, who continues to remain on the primary responsibility list. Additionally, this resolution, adds Carey Neal, Assistant City Manager, as an authorized representative.

#### **Legal Considerations:**

The resolution is in the form prescribed by TexPool and has been reviewed and approved by the city attorney as to form.

#### **Public Information Considerations:**

This item is being considered at a Regular Meeting of the City Council and noticed in accordance with the Texas Open Meetings Act.

#### **Options/Alternatives:**

- 1. City Council may approve the resolution, as presented.
- 2. City Council may deny the resolution.

#### Recommendation:

Staff recommends approval of the resolution, as presented.

## **Attachments**

Resolution



## Resolution Amending Authorized Representatives

Please complete this form to amend or designate Authorized Representatives. This document supersedes all prior Authorized Representative forms.

\* Required Fields

1. Resolution

WHE	EREAS,	
Partici	cipant Name*	Location Number*
	rticipant") is a local government of the State of Texas and is empor exvest funds and to act as custodian of investments purchased with lo	
	<b>EREAS</b> , it is in the best interest of the Participant to invest local functional, liquidity, and yield consistent with the Public Funds Investmen	
behal	<b>EREAS</b> , the Texas Local Government Investment Pool (" <b>TexPool / T</b> alf of entities whose investment objective in order of priority are pre the Public Funds Investment Act.	<b>Texpool Prime</b> "), a public funds investment pool, were created on esservation and safety of principal, liquidity, and yield consistent
NOW	W THEREFORE, be it resolved as follows:	
	. That the individuals, whose signatures appear in this Resolution, a hereby authorized to transmit funds for investment in TexPool / Te from time to time, to issue letters of instruction, and to take all otl of local funds.	TexPool Prime and are each further authorized to withdraw funds
B.	. That an Authorized Representative of the Participant may be dele Representatives provided that the deleted Authorized Representa Participant's TexPool / TexPool Prime account or (2) is no longer e	tative (1) is assigned job duties that no longer require access to the
C.	That the Participant may by Amending Resolution signed by the Fadditional Authorized Representative is an officer, employee, or a	
List th	the Authorized Representative(s) of the Participant. Any new individ	duals will be issued personal identification numbers to transact
ousin	ness with TexPool Participant Services.	
1.		Title
	Phone Fax	Email
	Signature	
2.		
۷.		Title
	Phone Fax	Email
	Signature	
3.		
	Name	Title
	Phone Fax	Email
	Circulation	
	Signature	

Form Continues on Next Page 1 of 2

1. Resolution (continued)	
4.	
Name	Title
Phone Fax	Email
Signature	
List the name of the Authorized Representative listed above the confirmations and monthly statements under the Participation A	nat will have primary responsibility for performing transactions and receiving Agreement.
Name	
In addition and at the option of the Participant, one additional asselected information. <i>This limited representative cannot perform</i> inquiry rights only, complete the following information.	Authorized Representative can be designated to perform only inquiry of rm transactions. If the Participant desires to designate a representative with
News	 Title
Name	Title
Phone Fax	Email
D. That this Resolution and its authorization shall continue in full force and effect until amended or revoked by the Participant, and until TexPool Participant Services receives a copy of any such amendment or revocation. This Resolution is hereby introduced and adopted by the Participant at its regular/special meeting held on the day of ,	
Note: Document is to be signed by your Board President, Mayor or County Judge and attested by your Board Secretary, City Secretary or County Clerk.	
	1
Name of Participant*	
SIGNED	ATTEST
Signature*	Signature*
Printed Name*	Printed Name*
Title*	Title*

## 2. Mailing Instructions

The completed Resolution Amending Authorized Representatives can be faxed to TexPool Participant Services at 1-866-839-3291, and mailed to:

TexPool Participant Services 1001 Texas Avenue, Suite 1150 Houston, TX 77002

ORIGINAL SIGNATURE AND DOCUMENT REQUIRED

TEX-REP

2 OF 2



#### CITY OF LANCASTER CITY COUNCIL

# **City Council Regular Meeting**

6.

**Meeting Date:** 02/14/2022

Policy Statement: This request supports the City Council 2021-2022 Policy Agenda

**Goal(s):** Financially Sound Government

Sound Infrastructure Quality Development

Professional and Committed City Workforce

**Submitted by:** Opal Mauldin-Jones, City Manager

# **Agenda Caption:**

Discuss and consider confirmation of nominations made by the Mayor for appointments to the North Central Texas Housing Finance Corporation Board (NCTHFC).

# **Background:**

The NCTHFC was organized in 1981 for the purpose of providing a vehicle for its members (cities of Duncanville, Cedar Hill, Lancaster, DeSoto, Waxahachie and counties of Ellis, Hunt, Kaufman, Navarro, and Rockwall) to jointly provide tax-exempt financing for single-family and multifamily housing within the defined jurisdictions. Each sponsoring local governmental unit shall appoint a board member and two alternates. The board member shall be a resident of the appointing local government unit (city). The two alternate members are not required to reside in the city.

Other cities within the NCTHFC have appointed both City Council members and/or City staff. Historically, the City of Lancaster has appointed City staff, but there is not a requirement for one or the other. All three appointees are welcome to attend the quarterly meetings; however, there is only one vote for the City of Lancaster.

This board grants Mortgage Credit Certificates (MCC) for first-time homebuyers within the City of Lancaster. This program allows an income tax credit of up to \$8,000 over a four-year period for the life of the mortgage loan. The funds are on a first-come, first-served basis, and standard underwriting requirements must be met through a participating lender.

Involvement on this board keeps the city up-to-date on regional incentive programs that our citizens can take advantage of, as well as a vehicle to promote homeownership without budget implications for the city.

# **Operational Considerations:**

Mayor Hairston currently serves as a board member of the NCTHFC. This is a request for the City Council to confirm the Mayor's nomination of an alternate to the NCTHFC. Appointments were last made on January 13, 2020, and need to be updated. Currently, appointed are City Manager, Opal Mauldin-Jones - alternate, and Director of Finance, Kim Hall - alternate. Ms. Hall is no longer a City of Lancaster employee, therefore; Mayor Hairston is recommending Carey Neal, Assistant City Manager, as an alternate member to replace Ms. Hall.

# **Public Information Considerations:**

This item is being considered at a Regular Meeting of the City Council noticed in accordance with the Texas Open Meetings Act.

# **Options/Alternatives:**

- 1. Confirm the Mayor's nomination to serve on the North Central Texas Housing Finance Corporation (NCTHFC).
- 2. Take no action and discuss options with the Mayor.

# **Attachments**

Exhibit A

# **EXHIBIT A**

# North Central Texas Housing Finance Corporation (NCTHFC) Board Appointments

**Carey Neal, Assistant City Manager - Alternate** 

## CITY OF LANCASTER CITY COUNCIL

**City Council Regular Meeting** 

7.

**Meeting Date:** 02/14/2022

**Policy Statement:** This request supports the City Council 2021-2022 Policy Agenda

**Goal(s):** Sound Infrastructure

Quality Development

**Submitted by:** Than Nguyen, City Engineer

## **Agenda Caption:**

Discuss and consider an ordinance approving the updated General Design Manual and Standard Construction Details.

# **Background:**

The City's General Design Manual and Standard Construction Details were approved on December 13, 1999, and amended by addendum in April, 2001. The General Design Manual and Standard Construction Details are important construction standards documents, and they describe how infrastructure improvements in the public rights-of-way, such as water, wastewater, and roadways should be designed, engineered, and constructed. The Standard Construction Details portion of the documents provides detailed descriptions of the construction methods and standards that contractors must follow when performing infrastructure construction in the city. The General Design Manual is used for both City capital improvement projects and private development projects that involve municipal infrastructure such as commercial warehouse projects, residential subdivisions, and retail projects. In summary, the General Design Manual summarizes how public improvements should be designed by engineers and the Standard Construction Details illustrates how these improvements should be made when constructed.

Staff worked with several local consultants over a multi-year period to make recommendations on updating both documents. The intent of updating the documents is to conform with evolving industry standards used for public improvements and maintain parity with peer cities which have recently updated their General Design and Construction Details documents. An example of these updated standards includes

requirements on how new roadways should be built with stronger concrete strength to alleviate future maintenance issues. The General Design Manual was reviewed and updated by staff from Planning, Engineering, Fire, Building Inspections, and Public Works.

# **Operational Considerations:**

The General Design Manual and Standard Construction Details provide minimum design standards for new developments related to public infrastructure improvements such as water, wastewater, roadways, storm drainage, and street lights.

## **Legal Considerations:**

The ordinance has been reviewed and approved by the City Attorney, as to form.

# **Public Information Considerations:**

This item is being considered at a Regular Meeting of the City Council noticed in accordance with the Texas Open Meetings Act.

# **Options/Alternatives:**

- 1. City Council may approve the ordinance, as presented.
- 2. City Council may deny the ordinance.

# **Recommendation:**

Staff recommends the approval of the ordinance, as presented.

# **Attachments**

Ordinance

Exhibit A

Exhibit B

#### ORDINANCE NO.

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF LANCASTER, TEXAS AMENDING THE CITY'S GENERAL DESIGN MANUAL AND STANDARD CONSTRUCTION DETAILS; PROVIDING FOR A SAVINGS CLAUSE: PROVIDING FOR A REPEALER CLAUSE; AND PROVIDING FOR AN EFFECTIVE DATE.

**WHEREAS**, the City of Lancaster's current General Design Manual and Standard Construction Details were adopted on December 13, 1999, and amended by Addendum in April 2001; and

**WHEREAS**, the General Design Manual and Standard Construction Details are essential documents used to provide standards, guidance and details for engineers, developers and contractors to implement in the design and construction of major infrastructure items such as water, wastewater, and roadway systems; and

**WHEREAS,** the City of Lancaster desires to have a Healthy, Safe and Engaged Community; with Sound Infrastructure and Quality as stated in the annual Goals and Objectives adopted by the City Council; and

**WHEREAS**, the City Council of the City of Lancaster finds it in the best interest of the citizens of the City to update the General Design Manual and Standard Construction Details to provide up-to-date standards for the design and construction of infrastructure items.

# NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF LANCASTER, TEXAS:

<u>SECTION 1.</u> The City Council of the City of Lancaster, Texas hereby approves and adopts the updated General Design Manual and Standard Construction Details, copies of which are collectively attached hereto as Exhibit "A" and Exhibit "B", and repeals and replaces the existing General Design Manual and Standard Construction Details with these new versions.

**SECTION 2.** The City Council directs the City Manager to implement the updated and newly-adopted General Design Manual and Standard Construction Details.

**SECTION 3.** Any prior Ordinance or Resolution of the City Council in conflict with the provisions contained in this Ordinance is hereby repealed and revoked, to the extent of the conflict with this Ordinance.

**SECTION 4.** Should any part of this Ordinance be held to be invalid for any reason, the remainder shall not be affected thereby, and such remaining portions are hereby declared to be severable.

**SECTION 5.** This Ordinance shall take effect immediately from and after the date of passage and as provided by law.

**DULY PASSED** and approved by the City Council of the City of Lancaster, Texas, on this the 14<sup>th</sup> day of January, 2022.

ATTEST:	APPROVED:	
Sorangel O. Arenas, City Secretary	Clyde C. Hairston, Mayor	

APPROVED AS TO FORM:	
David T. Ritter, City Attorney	

# CITY OF LANCASTER, TEXAS



# GENERAL DESIGN MANUAL

City of Lancaster Lancaster, Texas 75146-0940 Phone (972) 218-1200

# CITY OF LANCASTER, TEXAS

# GENERAL DESIGN MANUAL

# Title

This General Construction Design Manual is in conformance with the "Subdivision Regulations of the City of Lancaster, Texas".

# **Purpose**

The regulations are designed and enacted in accordance with state law and the City's home-rule legislative powers.

This following document contains the various construction criteria, techniques, and details, which are the minimum requirements of the City of Lancaster for public facilities. This data is primarily intended for the use of the Developer and his Engineer to enable the applicant to provide the proper design for the public facilities associated with a proposed development or project. This criteria is not intended as an exhaustive list of the construction techniques available. In the event that specific circumstances dictate additional requirements, it shall be the responsibility of the Engineer of record to provide the necessary details for construction to be approved by the Engineering Division of the Development Services Department for the City of Lancaster.

The review is for general conformance with the design concept of the project and general compliance with the information given in the contract and construction documents. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction, coordination of their work with that of all other trades and performing their work in a safe and satisfactory manner.

This design criteria and details may be modified by administrative action of the City and subsequent Resolution by the City Council at such times as may be appropriate in keeping with the most up-to-date construction techniques and specifications of the North Central Texas Council of Government (NCTCOG).

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# STANDARD CONSTRUCTION DETAILS

DESCRIPTION	DETAIL SHEET
General Construction Notes	GN-00 – GN-03
Divided Roadway Sections	STREET – 01
Left Turn Lane Plan / Divided Roadway	STREET – 01
Undivided Roadway Sections	STREET – 02
Curb Details	STREET – 02
Street Headers	STREET – 02
Barricade	STREET – 03
Pavement Joints	STREET – 03
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Fire Lane	STREET – 04
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Sidewalks / Barrier Free Ramps	STREET – 07
Inlets Recessed and Standard	STM SEW-01 & 02
Drop Inlet	STM SEW – 03
Storm Sewer Manholes	STM SEW – 03
Sloped Concrete Headwall	STM SEW – 03
Pilot Channel	STM SEW – 04
Concrete Lined Channel	STM SEW – 04
Gabion Bed. Channel	STM SEW – 05
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Butterfly Valve	WATER – 02
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Meter Details	WATER – 04
3" Domestic Meter with Vault	WATER – 05
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# **SECTION 1-01 CONSTRUCTION PLANS**

# A. <u>Construction Plan Requirements</u>

All civil construction plans for proposed public water, sanitary sewer, fire lanes, street, drainage and traffic improvements shall adhere to the City of Lancaster's standards and specifications and the following requirements:

- 1. Plans shall be clear, legible, and neatly drawn on bordered sheets, size 22" x 34" or 24" x 36". Each sheet shall clearly display the seal of the Texas Professional Engineer licensed by the State of Texas, under whose direction the plans were designed. A title block in the lower right-hand corner shall be filled in to include: project name; Engineer's name, address, and telephone number, and furnished in the following format:
  - a. Cover Sheet containing:
    - Project title
    - Legal property description
    - Assigned street address by the City of Lancaster
    - City name
    - Vicinity map with Mapsco grid number
    - Owner, Engineer, and Surveyor's name, address and telephone number
    - Project title in small print placed vertical along the middle right border
    - Sheet index
    - Development Service's approval signature block (Obtained from the Engineering Division of Development Services)
  - b. Copy of approved and/or accepted plat bound with final plans. The signed plat shall be bound with five (5) copies of the proposed construction plans including the Engineer's signature and seal.
  - c. Drainage area map and storm drainage calculations with all existing contours, existing and proposed storm drains, and/or other drainage facilities.
  - d. Approved site plan indicating the location and width of all proposed and existing street and driveway approaches noting the back-of-curb radii. All public easements delineated.
  - e. Utility plan indicating the location and size of all existing and proposed water and sanitary sewer lines with adjacent existing or proposed top of curb grades. Also, the location of all existing and

- proposed fire hydrants adjacent to the site shall be shown, including the maximum coverage radius of each as outlined in later sections of this manual.
- f. Plan and Profile Sheets for roadways, sewer lines, storm drains, flumes, water lines and channels. Stationing shall be generally left to right and with stationing beginning at the downstream end of all sewers, storm drains, and channels.
- g. Stationing shall be included on the plan view as well as the profile for all roads, water, sewer, storm drain, and channel sheets. Elevations shall be calculated and provided in all profiles as indicated below.
  - 1. Straight grade provide elevations at a maximum interval of 100' feet.
  - 2. Vertical curve provide elevations at the beginning and ending points at a maximum interval of 25' feet in between.
  - 3. State design speed for all horizontal and vertical curves.
- h. <u>Details for improvement which are to become public</u>
  - 1. Horizontal scale shall be on 1" equals fifty (50') feet or larger, i.e. 1" = 40'. Vertical scale shall be one (1") inch equals five (5') feet or larger.
  - 2. Hydraulic grade line or water surface profile based on FEMA 100 year water surface shall be plotted with all drainage design. Discharge capacity, 100-year design discharge, velocity, and friction slope shall be noted on each segment of drainage facility in the profile and all drainage calculations shown in accordance with the City's storm drainage manual with one or more of these parameters changes.
  - 3. Construction plans will be reviewed by the City of Lancaster Development Services staff and signed after all comments have been resolved. Construction must start within two (2) years following the final acceptance of plans. Plans for projects, which have not started construction within this two-year period, must be submitted to Development Services staff for a new review.

# B.. Other Utilities

The developer shall furnish all easements and right-of-way (onsite and offsite) necessary for construction of water, sanitary sewer, storm drainage, and electrical, gas, cable TV, and telephone service to the proposed subdivision. All on and off site utilities must be included. Additional franchise utility easements (seven [7'] feet on streets and, five [5'] feet on alley) will be required for developments where no alley exists.

- 1. Specifications are the Standard Specifications for Public Work Construction, North Central Texas (4<sup>th</sup> Edition or as amended) as prepared by the North Central Texas Council of Governments.
- 2. Special Provisions to the Specifications must be addressed during preliminary platting unless otherwise directed.
- 3. Standard Construction Details are as prepared by the City of Lancaster.

# C. Notification

Utility contractor and street contractor are to notify the City's construction inspector at least 48 hours prior to beginning construction.

# D. Record Drawings (As-Built)

The developer shall furnish record drawings and the accepted final plat completed with engineer signature and seal. The developer shall furnish:

- One (1) set reduced in 11" x 17" completed with engineer signature and seal
- Record drawings will need to show tie downs for water and sewer services from each lot line.
- In addition, electronic files of the record drawings shall be submitted in dgn and pdf format. Record drawings (stamped as "as-builts") shall include all changes made by change order, field change, or on-site changes. Record drawings shall be provided to the City prior to final acceptance of the project.

# Other Items Needed for Project Close-Out

- 1 electronic set of Final Plat (i.e. DVD, flash drive)
- Additionally required is a Subdivision Infrastructure Inventory Disk on DVD or flash drive, formatted as an Excel Spreadsheet with no protection locks.

- Owners will need to submit Bid Tabulations for Water, Sewer, Storm Drainage, Fire Lanes, and Streets.
- Original copy of Geotechnical report for project with form 79G completed for each lot.

# E. Form of Plans

The plan sheet should be drawn so that the north arrow points to the top or to the left side of the sheet. The plan must show sufficient surrounding streets, lots, and property lines so the existing water and sewer may be adequately shown and so that proper consideration may be given to future extensions. The City will determine if sufficient data is shown. Proposed water and sewer lines shall be stubbed out to the addition extremities in order that future extensions may be made. Unless it would make the plan very difficult to read, both water and sewer lines should be shown on the same sheet. The lines on the profile sheet shall be drawn in the same direction as on the plan. Lettering shall be oriented to be read upward or to the left.

On large additions or layouts requiring the use of more than six sheets (total of plan & profile), key sheets may be required on a scale of 1'' = 400' or 1'' = 1000', as designated by the City Engineer. They shall show the overall layout with the specific project clearly indicated with reference to individual sheets.

The use of "off-standard" scales will not be permitted. A plan shall be drawn to a horizontal scale of 1'' = 20', or 1'' = 40'. Plans for water and sewer that do not involve great detail should be drawn on a scale of 1'' = 50'. Plans in and along creeks, heavily wooded sections, streets with numerous utilities, or as may be required to produce a clean and legible drawing, shall be drawn on plan-profile sheets or separate plan and profile sheets on a scale 1'' = 40'. If the plan is in an extremely congested area, a scale of 1'' = 10' may be necessary. All profiles shall be drawn on a vertical scale (1'' = 5') as required for clarity, and the horizontal scale shall be the same as for the plan unless otherwise directed by the City Engineer.

## F. Data to be included in Plans

Sewer data to be included on plan sheets: The plan shall show the existing and proposed water and sewer lines and all appurtenances thereto. The plan should also have the storm sewer system dashed in. All lines shall be numbered, lettered or otherwise designated on both plan and profile sheets. All lines shall show sizes and direction of flow on both plan and profile sheets. Stationing shall be shown to the nearest 0.1' foot and each new line shall begin at 1+00 at the outlet and increase up the sewer. Station pluses at all junctions of sewers, horizontal P.C.'s, and P.T.'s, bends, angle points, wyes, cleanouts, manholes, the centerlines of all cross streets and railroads, and all crossing utilities, etc., shall be shown on both plan and profile. The degree of angles and horizontal curve data shall be shown on the plan only. Radius for specific pipe size and material shall be determined by the Engineer of

record and approved by the City Engineer. While curved sanitary sewer lines are allowed per manufacturer specifications, sewer radius pipe shall be used as a last resort. Sewer laterals shall be shown at a location most convenient to serve the property.

Sewer laterals will usually be near the center of the lot, either at the street or alley. If the lateral is to be adjacent to the water service, then show the lateral 10 feet downstream. The location shall be designated on the plans.

# G. Sewer Data to be Included on the Profile Sheet

The data for the profile sheet shall be obtained by running a line of levels along the actual route and by taking any other necessary observations. Profiles shall show the elevations to the nearest 0.1 foot of the ground at the centerline of the sewer, and to the right and left of the centerline of the sewer at the location of the approximate center of the proposed houses or buildings to be served, and the approved street or alley grade. Profiles shall also show the sewer pipe, manholes, cleanouts, etc. The size of the sewer, the direction of the flow, and the grade to the nearest 0.01 foot shall be indicated just over the "pipe" and the total linear footage of line, size, kind of pipe, and type of embedment or encasement shown below the "pipe". The design flow, pipe capacity and velocity must be shown in the profile. All of the information pertaining to the horizontal data, station pluses, appurtenances to be built, etc., is usually shown just above the ground line, whereas, the flow line (invert) elevations are shown below the pipe. Elevations of crossing and parallel utilities shall be shown. All invert elevations shall be shown to the nearest 0.01 foot. Invert elevations shall be recorded at all junctions (all lines-in and out), at grade breaks, the ends of lines, or other points as requested by the City Engineer. Benchmarks used shall also be clearly shown, giving the descriptive locations and elevations. Elevations will be given using the State Plan Coordinate System the City has established benchmarks and must be adhered to. All existing water, sewer, gas, storm sewer, telephone, power, and other utilities parallel to or crossing the proposed sewer or water line shall be adequately designated as to size, type, and location. All Texas Commission on Environmental Quality (TCEQ) requirements shall be covered in the design and in the plans.

# H. Data to be Included for Water Plan and Profile

Indicate the location of any existing valves required for shutdown purposes and of any tees, ends, etc., to be tied into horizontal distances. Shut down of existing lines shall be approved by the City Engineer. Otherwise wet taps will be required. Indicate clearly the sizes of the lines to be installed, and all proposed valves, fire hydrants, tees, crosses, bends, reducers, plugs, sleeves, wet connections, tap connections, creeks, railroad or highway crossings, tunnels, meter boxes, valve vaults, and other appurtenances at each intersection or as required. Where the

pipe is to be placed around a curve, the curve data must be provided. The size and type of services and the material, type of joint, and class of pipe shall be indicated by adequate notation in the lower left or right hand corners of the plan sheet. Water services and meter boxes shall be indicated and shall be located at or near the center of the front of each lot. Waterline profiles are required on lines 12-inches and larger; follow the general procedures as outlined for sewers, except that the grades and elevations of the proposed water line usually need not be shown closer than the nearest 0.1' foot. All TCEQ requirements shall be included in the plans.

# **SECTION 1-02 WATER SYSTEM**

This section is intended to aid and assist engineers in the layout and design of water lines to definite standards and to obtain uniformity in the plans. Any proposed variances to these rules must be submitted to the Director of Public Works based on sound and acceptable engineering practices.

# A. <u>Review Process</u>

## 1. Submittal

On completion of the planning and preliminary engineering of a subdivision, submit five (5) copies along with a contour map and preliminary water and sewer layout to the City, whereby a check can be made as to the general layout and availability of water and sewer. If problems arise as to the availability of water and sewer, it may be necessary to meet with the developer and discuss and resolve those issues prior to further review and acceptance.

# 2. Preliminary Check

When the engineering plans are complete, submit three (3) sets of full sized (22" x 34" or 24" x 36") legible prints. Every attempt will be made to review plans within ten (10) business days. Review time is typically governed by the completeness of the plans being reviewed.

# 3. Final Check

The following items shall be reviewed prior to submittal of final plans. The transmittal letter shall include certification that those items have been completed.

# 4. <u>Final Approval of Plans</u>

The following list should be verified before submittal of plans are submitted for City approval:

- (a) The plans must be complete and correct.
- (b) The approved preliminary plat must have been submitted.

- (c) The street grades and storm sewer plans must have been submitted and approved by City Engineer.
- (d) The plans must be signed and sealed by the Professional Engineer licensed in the State of Texas, who is responsible for the design.
- (e) All fees and other monies due must be paid in full. Impact fees must be paid prior to any construction activities.

# B. Water System Extensions

- 1. Water systems shall be of sufficient size to furnish adequate domestic service, to provide adequate fire protection to all lots, and to conform to the City's current Master Water Distribution System Plan (http://lancaster-tx.com/DocumentCenter/View/3374). Public water mains adjacent to federal, state, or county roadways shall be constructed outside the rights-of-way in a separate easement dedicated by separate instrument, and shown on plat. Fire flow calculations for non-master plan network lines must be submitted for review.
- 2. All tee intersections of public water mains shall include at least two (2) gate valves. Valve placement shall be in such a manner as to require preferably 2 valves, but not more than 3 valves, to shut down each City block, or as required to prevent shutting off more than one fire hydrant. Valves shall be spaced a maximum of 800-feet apart in residential districts and a maximum of 500-feet apart in all other districts. Valves 12 inches and smaller shall be resilient seated gate valves (RSGV), and valves lager than 12 inches shall be butterfly valves. All cross intersections of public water mains shall include at least four (4) gate vales.
- 3. The minimum size water main in conventional single-family residential areas shall be eight (8") inches in diameter, unless a larger line is shown on the master plan. Smaller lines may be utilized in some areas with prior approval of the Director of Public Works. The Director of Public Works or the Water/Wastewater Superintendent shall have final approval of their use.
- 4. The minimum size water main in all other areas shall be eight (8") inches in diameter. Larger diameter mains will be necessary if fire flow requirements so dictate or the master plan shows a large line. A fire flow analysis is required to determine adequate proposed water main sizes.
- 5. Minimum depth of cover over all water mains shall be 48 inches.

- 6. Water mains 12 inches and larger shall be profiled. P.I.s and elevations shall be provided to the nearest 0.01 feet for all profiled water lines. Where water mains are to be installed in rights-of-way having roads constructed without curb and gutter, regardless of water main diameter, a plan and profile sheet shall be submitted with the construction plans showing the proposed water main profile, the existing street grades, and the preliminary future top-of-curb grades for at least 300 feet either side of the boundary of the proposed subdivision. The preliminary grade shall be set by the submitting design engineer.
- 7. The minimum horizontal and vertical separation between water and sewer lines shall be in accordance with TCEQ requirements.
- 8. The minimum easement width for a water line on private property shall be seven and one half (7.5') feet on each side of the pipe for a total of 15 feet. Water and shallow depth sanitary sewer easements (less than 12 feet deep) shall be 25 feet in width.
- 9. Residential water services shall not normally be directly connected to water mains 16 inches in diameter or greater. Smaller, parallel water mains are required for water service connections.
- 10. All water services shall be placed at the lot line, between lots, where possible and all water meters shall be located in City rights-of-way or inside a waterline easement, unless approved otherwise by the Public Works Department.

# C. Fire Hydrants

- 1. In all conventional single-family subdivisions, fire hydrant spacing shall not allow the fire hose lay distance to any point on the building to exceed five-hundred (500') feet as measured along public ROW and/or emergency access easements. All lots within the proposed subdivision shall be within five hundred (500') feet radial distance of a fire hydrant.
- 2. In all other subdivisions, fire hydrant spacing shall not allow the fire hose lay distance to any point on the building to exceed five hundred (500') feet as measured along public ROW and/or emergency access easements. The entire subdivision shall be within three hundred (300') feet radial distance of a fire hydrant.
- 3. Fire hydrants located on the opposite side of a major collector or arterial street, (i.e., roadway width greater than forty [40'] feet), from a development shall not be considered when determining adequate fire hydrant coverage for a development.

- 4. All fire hydrants shall be installed at property lines.
- 5. All fire hydrants for commercial development must be approved by the City of Lancaster Fire Marshal.
  - (a) Number and Locations A sufficient number of fire hydrants shall be installed to provide hose stream protection for every point on the exterior wall of the building with the lengths of hose normally attached to the hydrants. There shall be sufficient hydrants to concentrate the required fire flow, as recommended by the publication "GUIDE FOR DETERMINATION OF REQUIRED FIRE FLOW" published by the Insurance Service Office, around any building with no hose line exceeding the distances hereinafter established and with an adequate flow available from the water system to meet this required flow. In addition, the following guidelines shall be met or exceeded:
  - (b) SINGLE FAMILY AND DUPLEX RESIDENTIAL As the property is developed, fire hydrants shall be located at all intersecting streets and at intermediate locations between intersections at a maximum spacing of 500 feet between fire hydrants as measured along the route that fire hose is laid by a fire vehicle.
  - (c) MULTIFAMILY RESIDENTIAL As the property is developed, fire hydrants shall be located at all intersecting streets and at intermediate locations between intersections at a maximum spacing of 400 feet as measured along the length of the centerline of the roadway, and the front of any structure at grade shall be no further than 500 feet from a minimum of 2 fire hydrants as measured along the route that a fire hose is laid by a fire vehicle.
  - (d) OTHER DISTRICTS As the property is developed, fire hydrants shall be located at all intersecting streets and at intermediate locations between intersections at a maximum spacing of 300 feet as measured along the length of the centerline of the roadway, and the front of any building at grade shall be no farther than 300 feet from a minimum of 2 fire hydrants as measured along the route that the fire hose is laid by a fire vehicle.
  - (e) PROTECTED PROPERTIES Fire hydrants required to provide a supplemental water supply for automatic fire protection systems shall be within 100 feet of the Fire Department connection for such system.
  - (f) BUILDINGS WITH FIRE SPRINKLER All fire line stub-outs and valves shall be sized according to the requirements of an approved fire

flow analysis signed and sealed by a registered fire flow engineer.

- g) The size of the water line serving the fire hydrants shall be a minimum of eight (8") inch and shall be sized according to the requirements of an approved fire flow analysis signed and sealed by a registered fire flow engineer. Fire hydrants shall be installed along all fire lane areas as follows:
  - 1. <u>Non-Residential Property or Use</u>
    - (aa) Within 150 feet of the main entrance.
    - (bb) Within 50 feet of any Fire Department Connection.
    - (cc) At a maximum intermediate spacing of 500 feet as measured along the length of the fire lane.
  - 2. <u>Apartment Townhouse' or Cluster Residential Property or Use</u>
    - (aa) Within 50 feet of any Fire Department Connection.
    - (bb) At maximum intermediate spacing of 400 feet as measured along the length of the fire lane.
  - 3. Commercial and Industrial Use
    - (aa) Within 50 feet of any Fire Department Connection.
    - (bb) At maximum intermediate spacing of 300 feet as measured along the length of the fire lane.
- 6. Generally, no fire hydrant shall be located closer than 50 feet to a non-residential building or structure unless approved by the Engineering and Fire Departments.
- 7. In instances where access between the fire hydrant and the building that it is intended to serve may be blocked, extra fire hydrants shall be provided to improve the fire protection. Railroads, divided thoroughfares, expressways, blocks which are subject to buildings restricting movement, and other man-made or natural obstacles are considered as barriers.

# 8. Restrictions

- (a) All required fire hydrants shall be of the national standard three (3) way breakaway type no less than five and one-quarter (5½") inches in size and shall conform to the provisions of the latest AWWA Standard C502 and shall be placed upon water mains of no less than eight (8") inches in size. Fire hydrants shall have a bury depth of four (4) feet.
- (b) Valves shall be placed on all fire hydrants leads. Valves shall be flanged by mechanical joint. Water service connections shall not be allowed on fire hydrant leads.
- (c) Required fire hydrants shall be installed so the breakaway point will be no less than two (2") inches, and no greater than six (6") inches above the grade surface.
- (d) Fire hydrants shall be located a minimum of two (2') feet and a maximum of six (6') feet behind the curb line, based on the location of the sidewalk. The fire hydrant shall not be in the sidewalk.
- (e) All required fire hydrants placed on private property shall be adequately protected by either curb stops or concrete posts or other methods as approved by the Fire Marshal and shall be within dedicated easements. Such stops or posts to be the responsibility of the landowner on which the said fire hydrant is placed.
- (f) All required fire hydrants shall be installed so that the steamer connection will face the fire lane or street, or as directed by the Fire Marshal.
- (g) Fire hydrants, when placed at intersections or access drives to parking lots, when practical, shall be placed so that no part of the fire truck will block the intersection or parking lot access when connections to the fire hydrant are made.
- (h) Fire hydrants, required by this article, and located on private property, shall be accessible to the Fire Department at all times.
- (i) Fire hydrants shall be located at street or fire lane intersections, when feasible.
- (j) A Blue Stimsonite, Fire-Lite reflector (or approved equal) shall be placed in the center of the drive lane on the side of the fire hydrant. When a hydrant is located at an intersection a marker will be placed on both sides of the hydrant,

in the center of the drive lane of both intersecting streets.

- (k) In non-residential developments an eight (8") inch lead will be required on all fire hydrants that are located more than 20 feet from the looped main.
- (1) Eight (8") inch mains used for hydrant supply shall be looped and dead-ends eliminated where practical. Eight (8") inch lines shall be connected so that only one hydrant will be between intersecting lines where practical with not more than two hydrants on an eight (8") inch main between intersecting lines. Dead-end water mains, such as in cul-de-sacs, longer than 300 feet shall require a fire hydrant to serve as a flush point.
- (m) The minimum cover to the top of the pipe is 48 inches. In general, the minimum cover below the top of the street sub-grade should be as follows: six (6") inch and smaller, four (4.0') feet; eight (8") inch, four (4.0') feet: 12" inch, four and a half (4.5') feet; 16" inch, five (5.0') feet. Lines larger than 16" inch shall have a minimum of six (6') feet of cover, which is sufficient to allow water and sewer and other utilities to go over the large main. For water lines to be constructed along county-type roads commonly built with a high crown about the surrounding property, increase the cover as required to allow for future paving grade changes.
- (n) A service with a meter box is constructed from the main to a point just behind the curb line, usually in advance of paving. The location of the meter box is at or near the center of the front of the lot to be served. On multiple apartments and business properties, the desired size and location is usually specified by the Owner or Architect. Minimum requirements for water service sizes are:
  - 1. One (1) inch copper services are required to serve all residential lots including townhouse lots and patio homes. Separate services shall be provided for each of the family units.
  - 2. The size of apartment, condominium, or multi-family services will depend on the number of units served with a minimum of one (1) meter per building.
  - 3. Fittings shall include megalugs. A domestic service connection shall not be allowed on fire hydrant leads.
- (o) Route water lines around storm drain inlets with a minimum of 12 inches of clearance out-to-out.

# D. Required Water Main Extensions

All water mains constructed within a proposed subdivision shall be extended to the perimeter (stubbed out) of the proposed subdivision to allow for future extension of the water system into adjacent properties. All stubbed out lines and dead end lines within the project boundaries shall include a post type hydrant for the purpose of bleeding the system.

Post hydrants can be either an above ground type or below ground installed in a meter box, (Examples of both are given in the Standard Construction Details sheet Water-01) as manufactured by Gil Industries, Inc. or The Kupferle Foundry Company or equal approved by the Public Works Director. Post Hydrants will be equipped with weep holes to prohibit freezing. Hydrant will be tied to main by means of a two (2") inch double strap bronze tapping saddle with cc threads and a two (2") inch compression by cc corporation stop. Either two (2") inch copper or polyethylene tubing may be utilized to run the lateral for post hydrant. Set back from curb will be the same as for fire hydrants, three (3) feet to six (6) feet behind curb line, based on location of sidewalk. The post hydrant will not be allowed in the sidewalk.

# E. Material and Workmanship

All materials and workmanship incorporated in water system extensions shall be in accordance with the currently adopted City Standard Construction Details.

# WATER SYSTEM IMPROVEMENTS

All work and materials shall be in accordance with City Standard Construction Details and General Construction Design Standards.

- 1. Fire Hydrants to be Mueller, M&H, or approved equal with standard three-way connections, one (1) four (4") inch and two (2) two and one-half (2 ½") inch, with standard NST thread.
- 2. Valves to be Mueller or an approved equal by the water and wastewater superintendent.
- 3. All residential water service shall be as follows:
  - (a) See details for sizes and types of materials to be used on all services. (Per City of Lancaster General Construction Design Standards).
  - (b) The water service shall be 1-inch diameter type "K" soft copper pipe, unless otherwise shown on the plans.
  - (c) The utility Contractor shall install the water services to from the property line, at a depth of 12 inches. The meter box shall be furnished and installed by the Contractor after the paving Contractor has completed the final grading in back of the curb. Each service location will be marked on the curb by etching the letter "W" by the Utility Contractor and tied to property lines on the "Record" drawings.
- 4. The Contractor shall install fire hydrants at the locations shown on the plans.
- 5. The Contractor shall furnish the City of Lancaster with a Maintenance Bond from an approved surety company which protects the City against defective workmanship and materials for a period of two (2) years from the date of the final acceptance by the City. Where defective workmanship and/or materials are discovered requiring repairs to be made under this guarantee, all such repair work shall be done by the Contractor at his own expense within five (5) days after written notice of such defect has been given to him by the City. Should the Contractor fail to repair leaks or correct such defective workmanship and/or materials within five (5) days after being notified, the City may make the necessary repairs and charge the Contractor with the actual cost of all labor and materials required. The Maintenance Bond shall be in the amount of \$50,000.00 or 10 percent (10%) of the amount of the Contract. The Contractor shall execute the Maintenance Bond on the forms furnished by the City. The Contractor shall be responsible for providing "Record Drawings" to the Engineer showing the location of water services and valves by distance to both lot lines. This information shall be placed and marked "Record Drawings" by the engineer of record. Copies of these "Record Drawings" plans shall be furnished to the City.

- 6. The installation of a Blue Stimsonite (or equal) Model 88-SSA Fire Hydrant Marker will be installed by the Developer or Contractor at their own cost.
- 7. All fire hydrants are to be painted with two coats of aluminum paint.
- 8. P.V.C. pipe will be in accordance with AWWA C-900 Class 150 (DR-18) unless indicated otherwise on plans. All water pipe shall be installed with a "Tracer Tape" four (4) inches to six (6) inches over the top of the pipe ("water" laid above the pipe to identify it). This tape shall be installed in the backfill material over the top of the water main.
- 9. For embedment details on all water conduits, refer to Standard Construction Details.
- 10. Double strap brass saddle to be used on three-fourths (3/4") through two (2") inch services. Refer to Standard Construction Details, sheet Water-01.
- 11. It shall be the sole responsibility of the contractor to open and or close all valves including but not limited to the City of Lancaster valves during construction of a project. The procedures to open or close City valves are as follows:
  - The contractor shall contact the City of Lancaster City Inspector at least 48 hours prior to operating City water valve(s) to get permission to open or close a valve(s).
  - If the contractor is given permission by the City Inspector to operate the valve(s), the contractor shall contact the City Inspector and develop a list of addresses that will be affected by any valve closings. After the list has been developed each address affected shall be given a written notice stating the water will be off due to construction for a given period of time (not to exceed 4 hours) and the notice(s) shall be delivered by the contractor to the address(s) affected, at least 48 hours prior to closing the valve(s). After the notification has been delivered and 48 hours have elapsed the contractor may operate the valve(s) with the Inspector present and at his instruction.
  - In no case shall City personnel be responsible for operating valves for construction in the event the valve(s) does not operate properly, then the contractor shall ask the inspector for assistance. No time or charges shall be charged to the City by the contractor for operating valves.
  - TCEQ rules and regulations shall apply to all water lines that fall below the TCEQ's minimum pressures.
- 12. All fire hydrants shall be Mueller or Clow, three-way standard thread with 4" nozzle and 2 ½" nozzles.

- 13. Gate valves shall be resilient wedge epoxy coated gate valves, ISO Test, Mueller or Clow.
- 14. Tapping sleeves shall be full circle, all stainless steel with stainless steel bolts and nuts.
- 15. All water mains shall have a minimum of 48" cover over the top of the pipe unless otherwise stipulated on the plan.
- 16. All connections used for flushing shall be metered with a certified backflow prevention device and all water used shall be at the contractor's expense
- 17. Water lines shall be tested at 200 psi pressure for a three-hour continuous period. The leakage rate will not exceed 25 gallons per inch of nominal diameter per mile of pipe over a 24-hour period. The contractor will flush and sterilize lines and perform bacteriological tests as directed by the City Inspector and to prove lines to be free of coliform organisms. The chlorination steps are as follows, chlorinate to at least 50 ppm-wait 24 hours. Flush super chlorination, check Chlorine (CL2), then wait additional 24 hours before taking sample. All flushing shall be metered. If samples are reported positive, the contractor will flush and re-sterilize and repeat steps until water samples are free from coliform organisms.
- 18. Connection to the water system shall not be made until all lines have been pressure tested and satisfactory written bacteriological report results have been received by the City of Lancaster Inspector.
- 19. All residential services shall be installed as follows:
  - Meter boxes shall be a plastic body type with locking cast iron or steel ring and lid to meet City of Dallas specification or approved equal and will be installed two (2) feet back of curb line. All meter boxes in paving shall be Traffic Rated. See Sheet number Water-04for details. All water services will be 1" in diameter and made of type "k" soft copper pipe unless otherwise shown on the plans and approved by the City. Refer to standard construction detail water sheet. Water services shall be located upstream of the sanitary sewer services except as may be shown on the plans.
  - The utility contractor will install the water service to a point two (2) feet past the back of curb, or as may be shown on the plans, at a depth of 12 inches. The meter box will be furnished and installed by the contractor after the paving contractor has completed the final grading in back of the curb. All water services shall be embedded in at least 6" of sand from tap to meter box.

- Contractor will tie a 1" wide piece of blue plastic flagging to the water service curb stop and will leave a minimum of 36" of flagging exposed after backfilling curb and paving is complete.
- Contractor shall be responsible for providing and installing meter to City of Lancaster's specification at his own cost.
- 20. Polytubewrapping- The contractor shall furnish and install polyethylene wrap around the ductile iron pipe, fire hydrant up to the bury line and related fittings and valves. This wrap will be an 8 mil thickness polytube. Seams and overlaps will be wrapped and held in place by two inch (2") wide plastic backed adhesive tape, Polyken No. 900 or Scothraf No. 50 or an equal with approximately two (2') footlaps on the polytube. The wrap on the barrel of the pipe will be loose enough to allow the film to shift with the soil. The wrap will be installed without breaks, tears or holes in the film. The cost of the polyethylene tube wrap and complete installation will be included in the unit price bid for furnishing and installing ductile iron pipe and related fittings, valves and fire hydrants.
- 21. Ductile iron fittings shall be a minimum C-ISO, pressure class 250 and all mechanical bends and fittings shall be mega-lug restrained and blocked with 3600 psi concrete.
- 22. The contractor shall install fire hydrants 2' from back of curb or as may be shown on the plans or as may be required to avoid conflicts. The splash pad (3'x 4') when no curb and will be placed in front of fire hydrants that are not abutting sidewalks or close enough to flow onto paved roadways. The flash pads will be dowelled in to the curb when adjacent to curb.
- 23. All bolts and nuts used with mechanical joint fittings will be high strength, corrosion resistant steel per ASTM A 235 Type 3.
- 24. Valve boxes will be furnished and set on each gate valve. After final clean up and alignment has been completed, the contractor (utility) will pour a steel reinforced (#3 bars on 12" centers) concrete block 30"x30"x6" around all valve box tops so the finished grade is level with the finished parkway.
- 25. The contractor will be responsible for providing "as-built" plans to the engineer showing the location of sewer services. This information will be placed on the engineering plans and marked "as built" by the design engineer. Copies of these "as-built" plans will be furnished to the City. Ties will be made by distance measurements from both lot lines for all manholes, cleanouts and services.
- 26. The installation of Blue Stemsonite (or approved equal) Model 88-SSA fire hydrant marker will be furnished and installed by the contractor.

- 27. Fire hydrants will be painted as noted. All hydrants are to be painted with two (2) coats of aluminum paint.
- 28. PVC pipe will be a minimum C-900 class (DR-I8) unless indicated otherwise on the plans. All water pipe will be installed with a "tracer tape" placed over the top of the pipe with word "water" multiply repeated on the tape, laid 2' above the pipe prior to final back fill.
- 29. Water mains will be installed with a class B+ embedment and all ditches and trenches will be tamped and compacted to 95% proctor density. Moisture content shall be within 0 to +4 of optimum.
- 30. Double strap brass saddle to be used on all service lines installed on PVC pipe.
- 31. Contactor will protect all public utilities during the construction of this project. The utility contactor must adjust all existing manholes, cleanouts, valves, boxes, fire hydrants and appurtances, to proper line and grade after replacement of paving. The work is subsidiary to pavement.
- 32. The locations of all utilities indicated on the plans are taken from existing public records. The contractor must determine the exact location and elevation of all public utilities. It will be the responsibility of the contractor to ascertain whether any additional facilities other than those shown on the plans may be present.
- 33. Where storm sewer inlets are installed over top of water lines, the contractor must provide a minimum clearance of 18". Where the water crosses over top of the storm sewer, there must be a minimum of 18" of clearance.
- 34. Refer to City of Lancaster Standard Details for additional information regarding construction of water and sanitary sewer systems.
- 35. Contractor will install a post hydrant where shown on the plans for the purpose of sampling. Waterlines installed will be Kupferle Eclipse 88 or approved equal by the City. Refer to Standard Construction Detail Sheets for water.
- 36. Dead end lines should be avoided but in cases where they cannot, the contractor must install a flush point per TCEQ regulations.
- 37. A list of approved water utility materials and approval of alternate materials must be obtained from the City Water and Sewer Superintendent prior to beginning of construction.
- 38. At the end of the project and before final acceptance, all valves and water services located behind the curb shall be marked by sawing or inscribing into the curb the

- letter W for water services and the letter V for valves and FH for fire hydrants. Painting of such lettering shall not be an accepted substitute.
- 39. Contractors are required to submit an application/deposit for use of a City water meter with the Utility Billing Department prior to starting work. The Contractor must supply a testable backflow to be tested after installed. Test reports must be submitted to the City.

# **WATER MAINS**

In general, water mains are placed on the north and west sides of a street, at a distance of ten feet from the centerline of the street, or otherwise as directed by the City. Where applicable, line sizes will comply with the Water Distribution System Master Plan (<a href="http://lancaster-tx.com/DocumentCenter/View/3374">http://lancaster-tx.com/DocumentCenter/View/3374</a> or as amended) and be adequate to convey a fire flow. Fire flow analysis will be required on lines that are questionable. Starting pressures shall be obtained from the nearest junction node as stated in the City's Water Distribution Master Plan Map.

- 1. Minimum eight (8) inch pipe, (other sizes approved by the Director of Public Works and Water/Wastewater Superintendent) required in residential, commercial and retail areas.
- 2. Minimum twelve (12) inch pipe required on industrial areas.
- 3. Dead-end mains shall not exceed 600 feet in length. A fire hydrant will be required at the end of all dead-end mains.
- 4. No water main shall be located closer than five (5) feet from any tree or structure without permission of the Public Works Director.
- 5. Water Main Specifications: City mains shall have a minimum diameter of eight (8) inches, unless a larger line size is required by the Comprehensive Plan, Water Master Plan or to meet fire protection needs as determined by analysis. All water lines shall meet the requirements of AWWA and NCTCOG under the following specifications:

Line Size	NCTCOG Item	AWWA Standard	Description
8" thru 12"	501.14.1	C905	PVC
Greater than 12" Pipe	501.4.5 and 501.4.6	C301 & C303	Reinforced Concrete Cylinder Pipe
12 Tipe	501.15	ASTM D2241.	High Density Polyethylene

All mains supplying fire sprinkler systems outside of utility easements shall be minimum 200 PSI working pressure and U.L. listed.

6. Valves 12-inch and under shall be placed on or near street property lines and not over 800 feet apart in residential, duplex and apartment districts and not over 500

feet apart in all other districts: and in such a manner as to require preferably 2, but not more than 3 valves to shut down each City block, or as may be required to prevent shutting off more than 1 fire hydrant. On cross-feed mains without services, a maximum of four valves shall be used to shut down each block. Also, valves shall be placed at or near the ends of mains in such a manner that a shutdown can be made for a future main extension without causing loss of service on the existing main. The location of valves larger than 12 inches will be as approved by the Director of Public Works. Valves 12 inches and under will be Gate Valves meeting requirements of AWWA C500 or AWWA C509 (NCTCOG Item 502.6.1 and 502.6.2) with non-rising stems. Valves over 12 inches will be Butterfly Valves meeting requirements of AWWA C504 (NCTCOG Item 502.6.5). All actuators shall be for direct bury service.

7. Maintain all valves during construction so they are protected, marked, and accessible at all times.

# SECTION 1-03 SANITARY SEWER SYSTEM IMPROVEMENTS

All work and materials shall be in accordance with the City Standard Specifications and General Construction Design standards.

- 1. All P.V.C. sewer pipe shall be minimum S.D.R. 35 or 26 (depths greater than 10 feet), as per City Specifications and shall be laid on a minimum of Class "B+" Embedment or as specified by the City.
- 2. Any other pipe to be used for sanitary sewer main other than P.V.C. must be approved by the Director of Public Works.
- 3. All residential sewer tap service shall be a minimum four (4") inch diameter.
- 4. All sewer mains shall be a minimum diameter of eight (8") inches and shall maintain a minimum flow velocity of two (2') feet per second and a maximum velocity of ten (10') feet per second. Exceeding maximum velocity shall be as approved by the Director of Public Works.
- 5. All trenches will be tampered and compacted to a 95% proctor density. Moisture content shall be within 0 to +4 of optimum. After pipe has been laid on proper bedding, backfill with 8" maximum loose lifts mechanically compacted to 95% standard proctor. Moisture content shall be within 0 to +4 of optimum under roadway and 12" maximum loose lift behind curb. Maximum size in backfill shall not exceed 6" in diameter.
- 6. Contractor shall tie a one-inch (1") wide piece of green plastic flagging to the end of sewer service and shall leave a minimum of 36 inches of flagging exposed after backfill. After curb and paving is completed, Contractor shall etch a red "s" size two (2") inch, on the curb or alley at location of the sewer service. All P.V.C. sewer pipe shall be installed with green metallic tape "Tracer Tape" over the top of the embedment pipe. Tracer tape over the top of the P.V.C. pipe similar to "Blue Terra Tape D" Detectable, installed in accordance with manufacturer's recommendation. All P.V.C. sewer pipe that is not green in color shall also be installed with a red plastic identification tape marked "sewer" laid above the pipe to identify it.
- 7. The Contractor shall furnish the City of Lancaster with a Maintenance Bond from an approved surety company which protects the City against defective workmanship and materials for a period of two (2) years from the date of the final acceptance by the City. Where defective workmanship and/or materials are discovered requiring repairs to be made under this guarantee, all such repair work shall be done by the Contractor at his own expense within five (5) days after written notice of such defect has been given to him by the City. Should the Contractor fail to repair leaks or correct such defective workmanship and/or materials within five (5) days after being notified, the City may make the necessary repairs and charge the Contractor with the actual cost of

- all labor and materials required. The Maintenance Bond shall be in the amount of \$50,000.00 or 10 percent (10%) of the amount of the Contract, whichever is greater, but not to exceed 100 percent (100%) of the Contract amount. The Contractor shall execute the Maintenance Bond on the forms furnished by the City.
- 8. The Contractor shall be responsible for providing "Record Drawings" to the City showing the location of sewer service by distance to both lot lines. This information shall be placed on the Engineering Plans and marked "Record Drawings" by the Design Engineer. Copies of these "Record Drawings" plans shall be furnished to the City prior to final acceptance of project. Ties shall be made by distance measurements from both lot lines or from building corners for all manholes, cleanouts and services.
- 9. All sanitary sewer line shall be tested for infiltration and by the Low Pressure Air Test Method in accordance with the standard specifications and as shown on the plans. Low Pressure Air Test is to be performed on all completed sections of sewer mains. Successful air tests shall be mandatory to prove acceptability of the sewer lines. Lines shall be mandreled in accordance with TCEQ requirements. Completed lines shall be inspected by color video camera. The camera shall have pan and tilt capabilities. All services and manholes shall be taped (measured). Original color videotape shall be provided to the City.
- 10. All PVC sewer pipe will be SDR 35 for depth less than 10' and SDR 26 for depth 10' or grater as per City specifications and will be installed with a minimum of class B+ embedment.
- 11. Any other pipe for sanitary sewer main construction must be approved by the City Engineer.
- 12. All residential sewer services will be a minimum of four (4") inches in diameter or as specified on the plans and shall terminate at the property line with a clean out. Services shall be located downstream of the water services except as may be shown on the plans. All services shall be embedded in minimum of 6" of sand on all sides of pipe.
- 13. All sewer mains will be a minimum diameter of eight (8") inches and will be installed per the plan profile.
- 14. All trenches will be tamped and compacted to a 95% proctor density. Moisture content shall be within 0 to +4 of optimum.
- 15. Contractor will tie 1" wide piece of red plastic flagging to the end of the sewer service and will leave a minimum of 36" of flagging exposed after backfill. At the end of the project and before final acceptance, all manholes and sewer services located behind the curb shall be marked 2" notch by sawing into the curb. The letters

- for sewer services and the letter MH for manhole. Painting of such lettering shall not be an accepted substitute.
- 16. The contractor will be responsible for providing "as-built" plans to the engineer showing the location of sewer services. This information will be placed on the engineering plans and marked "as-built" by the design engineer. Copies of these "as-built" plans will be furnished to the City. Ties will be made by distance measurements from both lot lines for all manholes, cleanouts and services.
- 17. All sanitary sewer lines and manholes will be tested for infiltration and exfiltration by the low pressure air test method in accordance with the TCEQ current specifications.
- 18. All sewer pipes will be installed with a red plastic identification tape marked "sewer" laid 2' above the pipe.
- 19. A low pressure air test will be performed on all installed sections of sewer mains. Successful air tests will be mandatory to prove acceptability of the sewer lines.
- 20. All new sanitary sewer mains will require mandrel tests in accordance with TCEQ requirements.
- 21. Manholes are to be installed with a ductile iron hinged ring and water tight cover gasket type to prevent infiltration with and locking device Pam-Rex brand or approved equal with the wording sanitary sewer forged into the lid.
- 22. The contractor shall center a 20 foot joint of pressure rated PVC sanitary sewer pipe at all water line crossings. Embed sanitary sewer line in cement stabilized sand in accordance with TCEQ regulations chapter 290, page 43. The pressure rated pipe shall be ASTM 2241 SDR-26 or approved equal.
- 23. A list of approved sanitary sewer utility materials and approval of alternate materials must be obtained from the City Water and Sewer Superintendent prior to beginning of construction.
- 24. For final acceptance, the City will require video inspection of all sanitary sewer mains. A copy of the results must be provided to the City on a CD Rom or DVD disc. VHS tapes will not be accepted.
- 25. No vertical curves will be allowed. Horizontal curvature may be by joint deflection. The Engineer must specify on the plans the allowable radius and joint deflection for each pipe size. The allowable deflection shall be 5 degrees or 80% of the manufacturer's recommended maximum joint deflection, whichever is less. When joint deflection is used the Engineer must specify the size of mandrel used for deflection testing. The mandrel shall be sized to verify the maximum joint deflection has not been exceeded. Horizontal curves shall match change in street direction as

near as possible, but will not be allowed across residential single family and duplex lots. Slopes on horizontally curved sanitary sewers shall be a minimum of 1% greater than the corresponding minimum slope of sanitary sewers on a straight line. Manholes on horizontally curved sanitary sewers shall be located at the P.C. and P.T. of the curve and a maximum spacing of 300 feet along the curve.

## 26. General Sewerage System Extensions

- a. All subdivisions developed must be served by community sanitary sewer collection, treatment and disposal systems approved by the City. Each lot must be provided with an individual service
- b. Sanitary sewer facilities shall be provided to adequately service each lot or tract of the subdivision, and shall conform to the City's current Sanitary Sewer Master Plan; http://www.lancaster-tx.com/DocumentCenter/View/3373 or as amended.
- c. No sanitary sewer main to shall be less than eight (8") inches in diameter. All sewers shall be designed with consideration for serving the natural drainage basin at full develop cut conditions. Drainage area main and calculations are required. Exceptions to this requirement may be made only at the direction of the Public Works Director.
- d. All laterals and sewer mains installed within subdivision must extend to the borders of the subdivision as required for future extensions of the collection system regardless of whether or not such extensions are required for service within the subdivision. Manholes are required at the end of lines with 13 stubout capped.
- e. The minimum easement width for a sanitary sewer main shall be seven and  $\frac{1}{2}$  (7.5') feet on each side of the pipe for a total of 15 feet.
- f. The population density shall be based on three (3) persons per single family unit, but shall not be less than nine point five (9.5) persons per acre. The contributing sewage flow shall be determined on the basis of an average flow of 140 gallons per person per day which includes provisions for minimal I & I. A peaking factor shall be applied to the flow. Peaking factor shall be determined from curve A in ASCE Manual of Practice No. 60 "Gravity Sanitary Sewer Design and Construction" or a factor of five (5) times may be used.

# 27. Sanitary Sewer Improvements Design Criteria

a. All services shall be placed ten (10') feet downstream of water service and shall maintain a minimum 10 foot separation from water and sewer lines unless instructed otherwise by the Director of Public Works.

- b. Manhole spacing shall not exceed five hundred (500') feet as measured horizontally along the centerline of the pipe.
- c. Sewer mains, which require more than an 18-inch difference in flow line elevations, must be accommodated with a five (5') foot diameter external drop manhole.
- d. All upstream ends of sanitary sewer mains shall terminate at a manhole. Cleanouts will not be allowed unless approved by the Director of Public Works.
- e. Four-foot (4') diameter manholes or six-inch (6")" sampling cleanouts will be required as sampling ports on businesses that are required to pre-treat their sewer discharge. The manhole or sampling cleanout must be located between the public sewer main and the grease trap and located within a public sanitary sewer easement if on private property.
- f. If a new sewer line is to be constructed adjacent to an existing street, the profile will need to include the existing top of curb grades.
- g. All sanitary sewers constructed adjacent to federal, state or county roadways shall be constructed outside the ROW in a separate easement dedicated by separate instrument, not by plat or as directed by the City.
- h. All sanitary sewer pipes and manholes shall maintain horizontal and vertical separations from public water supply pipes as specified by TCEQ regulations. The minimum horizontal separation between any sanitary sewer main and a storm drain facility shall be equal to two point five (2.5') feet or half the depth of the sanitary sewer, whichever is greater.

#### 28. Lift Stations or Separate Treatment Facilities

The provisions for lift stations or separate treatment facilities will not be permitted unless, in the opinion of the Public Works Director and City Engineer, there is no feasible alternative which can provide the necessary service to the proposed subdivision. Property deeds and easements to the City may be required.

## 29. Connections

No connection shall be made to any sanitary sewer within the City which will permit the entrance of surface water or waste which has other than domestic sewage characteristics without the specific authorization of the City.

# 30. Alternate Sewage Systems

Where public sanitary sewerage systems are not within 500 feet of the plat, alternate sewerage systems may be approved only if all of the following conditions are met:

- a. The proposed subdivision consists of three (3) lots or less.
- b. The existing City sewer system is not and cannot feasibly, in the opinion of the Public Works Department be made available to the area of development.
- c. Percolation tests run by an independent testing laboratory are submitted to both the City and the Dallas County Health Department with results showing that a septic tank and absorption field can be developed in accordance with state and county criteria to provide adequate disposal of the sewage. Where septic tank installations are permitted in lieu of a sanitary sewerage system, approval must be given by the Dallas County Health Department as the plat must include dedicated sanitary sewer easements not less than 20 feet in width adjacent to all lots to facilitate the future installation of a sewerage system. Dedication of such easement shall prohibit fencing or other obstructions that would interfere with the future installation of the sewers.
- d. Installation of individual septic tanks shall be according to rules and regulations issued by the State of Texas and minimum standards and approval of Dallas County Health Department.
- e. Such designs shall include provisions to tie the system into the gravity system when it becomes available.
- f. Sizes and grades for sanitary sewer lines shall be based on serving the proposed development and all upstream areas in the drainage basin at full development. Design calculations for sizing lines shall be included in the plans, along with drainage area map. If feasible, sewers shall be placed in streets. Sewers are usually located in the center of the street. Each addition has its challenges; therefore, no fixed rules will apply to all cases.
- g. Minimum cover shall be three point five (3.5') feet; exceptions authorized by the Director of Public Works shall have concrete protection. In general, the minimum depth for sewer to serve given property with a four (4") inch lateral shall be three (3') feet plus 2% times the length of the house lateral (the distance from the sewer to the center of the house). Thus, for a house 135 feet from the sewer, the depth would be three (3') feet plus 2% x 135 feet = three (3.0') plus two point seven (2.7') = five point seven (5.7') feet. The depth of the flow line of the sewer should then be at least five point seven (5.7') feet below the elevation of the ground at the point where the service enters the

house. Profiles of the ground line 20 feet past the building line will be required to verify that this criteria is met. On lines deeper than 12 feet, a parallel sewer line will be required when laterals are to be attached. This requirement should be discussed with the City Engineer.

h. Pipes should be placed on such a grade that the velocity when flowing full is not less than 2 feet or more than 10 feet per second. Minimum grades shall be as follows: \*

- i. All grades shall be shown to the nearest 0.01-foot. Grades shall be evenly divisible by four (4), and if practical, they should be even, such as: 0.20%, 0.40%, 0.60%, and 1.00%, etc., in order to facilitate field computations. When the slope of a sewer changes, a manhole will be required. No vertical curves will be allowed.
- j. The sizes and locations of manholes, wyes, bends, tap connections, cleanouts, etc., shall be approved by the Director of Public Works. In general, manholes shall be placed at all four-way connections and three-way connections. The diameter of a manhole constructed over the center of a sewer should vary with the size of the sewer. For six (6"), eight (8"), ten (10"), and twelve (12) inch sewers the manhole shall be four (4.0") feet minimum diameter; for 15", 18", 21", 24", and 27" five (5.0") feet minimum diameter; 30", and 36" six (6') feet minimum diameter. In Flood Plains, sealed manholes are to be used to prevent the entrance of storm water. Manholes in flood plains shall be vented as required by TCEQ. No main line clean-outs will be allowed on the ends of lines. External drop manholes shall be required when the inflow elevation is more than 18 inches above the outflow elevation. Construct manholes at each end of lines that are installed by other than open cut and at each end of aerial crossing lines. Sewer mains and water mains separation shall be in accordance with TCEQ requirements.
- k. LATERALS: The sizes and locations of laterals shall be as approved by the City Engineer. In general, for single family dwellings, the lateral size shall be four (4") inch minimum; for multiple units, apartments, local retail and commercial six (6") inch minimum; for manufacturing and industrial, the size should be eight (8") inch or larger as required. House laterals shall come out ten (10') feet downstream from the center of the lot and shall have a minimum of ten (10) feet lateral separation from the water service. Manholes will be required on six (6") inch and larger laterals where they connect to the

<sup>\*</sup> Accordance with TCEQ Requirement

main line. Laterals will not be attached to sewer mains that are deeper than 12 feet. A minimum of one lateral per building shall be required. Also, a minimum of one lateral per residential lot shall be required. Duplexes shall have two laterals.

- 1. Railroad, State Highway and creek crossings, etc., shall be as approved by the City Engineer. The developer is responsible for obtaining permits from the Railroad Company and from the Texas Department of Transportation. Such approved permits shall be provided to the City prior to construction.
- m. Line and grade stakes for construction shall be furnished by the developer's engineer. All property lines and corners must be properly staked with iron rods to insure correct alignment. The City Engineer will not be liable for improper alignment or delay of any kind caused by improper or inadequate surveys by the developer or by interference of other utilities.
- n. In order to provide access for sewer lines for cleaning, manholes and/or cleanouts shall be so located that 250 feet of sewer rod can reach any point in the line. This means that manhole spacing shall be a maximum of 500 feet: that spacing between a manhole and an upstream cleanout, if allowed, shall be limited to 400 feet.
- o. No sewer line shall be located nearer than five feet (5') from any tree or structure. No sewer lateral line shall cross property lines without a minimum of five (5') feet easement recorded in county records.
- p. No sanitary sewer will be allowed in alleys unless approved by the City Engineer.
- q. Finish floor elevations shall be at least 1.5 feet above the rim elevation of the closest downstream manhole.

## r. Main Sewer Lines Specifications

All main sewer lines shall be PVC and meet the requirement of ASTM and NCTCOG under the following specifications:

Pipe Diameter	NCTCOG Item	ASTM Standard
6" thru 15"	501.17.2	D3034/SDR 35 or SDR-26
		For depths greater than 10-feet, SDR-26 must be used

Lines Greater Than 15"	501.17.2	F679
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Sewer pipe shall conform to the Specifications and/or Special Provisions.

## s. Lift Stations

Lift station design shall be in full conformance to TCEQ Regulations, latest revision. Letter approval from the TCEQ must be provided at time of Preliminary Engineering plan submittal. Flows shall be as calculated in accordance with this manual.

# t. <u>Material disposal for developer projects</u>

The contractor shall notify the City Engineer in writing of proposed material disposal sites to be utilized outside of the project limits and inside of the City of Lancaster. Project limits shall include legal lot/block, addition description and address of the proposed site. The Director of Public Works shall be notified two (2) weeks in advance of any material being deposited.

u. Current Texas Commission on Environmental Quality rules can be obtainedat: www.tceq.texas.gov/rules/current.html

## **SECTION 1-04 STREET SYSTEM**

# A. Streets Required

All streets constructed within the City shall be required to be constructed with curbs and gutters. The required widths of all streets within the City shall be determined by the "Functional Classification" of the streets as contained in the most current revision of the City Master Thoroughfare Plan; <a href="http://www.lancaster-tx.com/documentcenter/view/10285">http://www.lancaster-tx.com/documentcenter/view/10285</a>.

# B. Paving Improvements

All work and materials shall be in accordance with the City Standard Construction Details and General Construction Design Standards.

- 1. The street and alley right-of way width shall be excavated full width in accordance with the street and sidewalk section to be constructed.
- 2. All streets, alleys and fire lanes require a compacted lime stabilized subgrade to a distance of 12 inches beyond the back of curb or edge of pavement. Only hydrated lime shall be utilized. Optimum lime shall be applied. Optimum lime application rate shall be determined by a lime series test to reduce the plasticity index (PI) to 15 or less as conducted by a City approved testing laboratory. The City will add 1% for field variation. Lime series test shall be taken along the excavation at all changes in soil or at a maximum of 300 feet between sample spots. The lime treated subgrade shall be compacted to a density of not less than 95% of the maximum density as determined by ASTM D698. Moisture content shall be within 0 to +4 of optimum. Density test results shall be completed by an independent laboratory approved by the City at the contractor's expense. A copy of all results shall be given to the City Inspector. Sulfate tests shall also be conducted at the discretion of the City.
- 3. All concrete paving for street construction shall have a minimum compressive strength of 4,000 pounds per square inch (psi) in 28 days as no fly ash is allowed. All concrete paving for alley construction shall develop a minimum compressive strength of 4,000 (psi) in 28 days as no fly ash is allowed. The submitted design for City consideration must be submitted by a certified independent testing laboratory.
- 4. All roadway embankments with PI (Plastic Index) above 20 shall be compacted to a density as determined by a geotechnical study unless otherwise shown on the construction plans and approved by the City Engineer. Maximum loose lifts eight (8") inches. Compaction shall be by mechanical methods, unless otherwise shown on the construction plans and approved by the City Engineer.
- 5. Testing of materials required for the construction of the specified street and alley improvements shall be performed by a certified independent testing laboratory approved by Engineering. The cost for such testing services shall be paid by the

Contractor. The City shall approve the laboratory to do the testing of materials, 72 hours prior to construction commencing. It shall be the Contractor's responsibility to show by standard testing procedures that the work constructed does meet the requirements of the specifications. If the resting lab is not present during a concrete pour, the City reserves the right to request core samples be taken and analyzed as this will be paid by the contractor.

- 6. The Contractor shall furnish a maintenance bond to the City to run two (2) years from the date of final acceptance of the infrastructure improvements by the City.
- 7. A twenty-four (24) foot wide lane shall be paved in all apartment and commercial areas, with a minimum of six (6) inches of reinforced concrete pavement (minimum of 4,000 psi) on a six (6") inch lime stabilized sub-grade. The remaining area, parking area, shall consist of 6-inch reinforced class "A" concrete or a minimum of three (3") inches of Type "D" H.M.A.C. on a six (6") inch lime stabilized sub-grade or a pavement design approved by the Director of Public. Parking and non-fire lane drive area pavement sections shall have a minimum pavement thickness of five inches (5") and shall be designed by a geotechnical engineer. Subgrade preparation shall be per the geotechnical engineer's design.
- 8. Required number of passing field density tests on lime stabilized sub-grade shall be equal to the ratio of 1 per 100 linear feet of street, and all failing density tests shall require moisture-density curves.
- 9. All dumpster sites shall have a paved lane up to the site that shall consist of a minimum of six (6") inches of a minimum of 3,600 psi reinforced concrete on a six (6") inch lime stabilized sub-grade.
- 10. All fill shall be mechanically compacted per the geotechnical report.
- 11. All construction barricading to be in accordance with current "Texas Manual on Uniform Traffic Control Devices for Streets and Highways" guidelines Part IV.
- 12. Reinforcement shall be in accordance with City detail sheet Street-01.
- 13. All reinforcement steel shall be 100% tied, with no skip ties, reinforcing steel shall be set on every other chair and shall be uniform. Bar laps shall be extended to a minimum overlap of 18 inches.
- 14. All streets and alleys shall have expansion joints installed at 200 feet intervals and at all intersections or as may be shown on the plans.
- 15. Sawed transverse dummy joints shall be placed in pavement every 20'. Sawing of pavement shall occur within 5 to 12 hours after curing and sealing. Otherwise, the section shall be removed and a longitudinal butt joint constructed.

- 16. Lime Trimmings are not acceptable for any use. Fill in or level up is to be completed with flowable fill (min. 2000 psi).
- 17. All fill shall be compacted by mechanical methods. Maximum loose lift for compaction shall be 8 inches. All lifts shall be tested for density by an independent laboratory approved by the City at the contractor's expense. Density requirements shall be as shown on the plans for the type of material called for on the plans.
- 18. All disturbed areas of roadway work shall have grass established immediately. Grass shall meet the requirement of item 3.8, 3.9 and 3.11 of the NCTCOG latest edition.
- 19. All areas to be excavated or filled shall have erosion control placed prior to commencing any work. Erosion control devices shall be maintained throughout the project in accordance with item 3.12 of the NCTCOG latest edition.
- 20. All sidewalks shall include barrier-free ramps at intersecting streets, alleys, driveway, etc. Barrier-free ramps shall meet current TAS or ADA accessibility guideline requirements.
- 21. Sidewalks shall be doweled into pavement where it abuts pavement and driveways. Expansion joint material shall be used at these locations. Steel for sidewalks shall be number 3 bars placed per the detail sheet 100% tied with plastic chairs at every other bar supporting steel. The chairs shall be placed uniformly. Concrete shall be 3000 psi at 28 days compressive strength.
- 22. Test cylinders: 1 set of 4 every 80 to 100 CY poured, but no less than 1 set per pour or per day-1 @ 7 days, 2 @ 28 days and hold one. 56 day breaks are not acceptable. Minimum 28 day design strength for all streets, alleys and fire lanes is 4,000 psi. If 28 day strength is not attained, the laboratory needs to schedule cores to prove out the deficient section no more than 2 days beyond 28. As a minimum, all reports shall indicate unit weight, air content, slump and ambient/concrete temperatures. All streets, alleys and fire lanes shall also be cored for depth checks every 300 LF. LT-CNTR-RT. There is a minimum of one quarter inch tolerance for all concrete depths. Anything more than one quarter inch shy will be assessed a penalty or be removed and replaced according to City's criteria.
- 23. All subgrade testing (includes fire lanes) gradations/pulverizations shall be taken every 300 LF and PI's every 300 LF. Densities (95%, 0 to +4% of optimum moisture) every 300 LF. LT-CNTR-RT. Grab samples will need to be tested for PI's at each gradation check to make sure sufficient lime was installed. Lime depth checks every 300 LF. LT-CNTR-RT or when the soil changes composition.
- 24. All density control shall be received, reviewed and approved by the City prior to any subgrade work. Density reports are only good for 48 hours after taken or right before a rain. 2 batch designs required, one each for machine and hand pours.

# Street Design Criteria

- 1. All streets within or abutting the proposed subdivision shall be paved, with curbs and gutters installed, in accordance with the City's Standards and Specifications. All paving shall be to the width specified on the Master Thoroughfare Plan and shall be constructed under the inspection of the Engineering Division. The construction costs of all street improvements shall be borne by the developer unless participation by the City has been approved.
- 2. All underground utilities required in the subdivision shall be placed under or across all streets after the rough grades are made, but prior to lime stabilization. Paving operations will not be allowed to start until the utility work is complete.
- 3. Street grades shall be designed such that excessive sand deposition from too low a water velocity or pavement scouring form too high a velocity is avoided. The minimum street grade permitted shall be 0.50%. The maximum street grade shall not exceed 8.0%. Any deviation from this range of permissible grades shall require written approval of the Director of Public Works.
- 4. Standard roadway widths from face-of-curb to face-of-curb shall be according to the following table:

#### STANDARD PAVEMENT WIDTHS Street Type Number of Lane Width Median Width R.O.W. Width Traffic Lanes (feet) (feet) (feet) TYPE F 2 12 60 TYPE E 2 12 50 2 12 TYPE D 65 TYPE C 4 12 85 4 12 100 TYPE B 4 TYPE B Major 12 14 100 TYPE A 12 110 18

- 5. The minimum classified width of a proposed street shall be enlarged under the following conditions.
  - a. Adjacent to commercial or multi-family land uses where, in the opinion of the Public Works Department or Fire Marshal, additional width is necessary for proper access and circulation.

- b. Where, in the opinion of the City or in the opinion of the Developer, with the concurrence of the City, the aesthetic value achieved from extra width is dictated by special conditions.
- 6. The proposed streets shall be located in the center of the right-of-way to allow both parkways to be the same width. The final grade of all parkways, existing and proposed, shall be one-half (1/2") inch per foot from the top of curb to the property line. All parkways shall drain to the street.
- 7. All cul-de-sacs shall be installed with a forty (40') foot radius to the face of curb in a fifty (50') foot radius ROW. Smaller shall be approved by the Public Works Director.
- 8. Standard reinforced concrete curb height and width is six (6") inches with a twenty-four (24") inch integral gutter section measured from the face of the curb. Any deviation from this section will require the approval of the Public Works Director.
- 9. The minimum pavement and sub-grade thickness for the various street widths shall be as indicated in the standard details.
- 10. All construction barricading to be in accordance with current "Texas Manual on Uniform Traffic Control Devices (TMUTCD) for Streets and Highways" guidelines Part IV.
- 11. Minimum horizontal curvature radii for design of street centerlines shall be as follows:

Arterial	800 feet
Collector	400 feet
Residential	200 feet

All street intersections shall be constructed to form a ninety (90) degree angle.

12. In order to maintain minimum sight distance, the minimum "K" values for the computation of vertical curves in the formula L=KA, where L is the length of the vertical curve in feet, and A is the algebraic difference of the street grades in percent (%) are listed below:

Design Speed	Crest Vertical Curve	Sag Vertical Curve
MPH	K" Value	"K" Value
30	28	35
40	60	60
50	110	90

- 13. The minimum radius for curb returns at intersections shall be thirty (30') feet to the face of curb.
- 14. A tangent of at least one hundred (100') feet long is preferred between reverse curves on arterial and collector streets.
- 15. At all street intersections, there shall be provided a minimum twenty-five (25') foot by twenty-five (25') foot corner clip sidewalk and utility easement.
- 16. Reinforced concrete valley gutters are required at all asphalt street intersections where gutter flowlines cross another street or at low points where water flow crosses the street.
- 17. Median openings shall be spaced a minimum of six hundred (600') feet center-to-center or five hundred (500') feet curb-to-curb, whichever is greater.

#### C. Sidewalks and Leadwalks

- 1. Sidewalks and leadwalks shall be constructed with a minimum thickness of four (4") inches. They shall utilize NCTCOG Class "A" concrete with 3,000 psi and #3 steel bars placed on a spacing of eighteen (18") inch centers each direction, with a minimum of three (3) longitudinal bars 6 inches apart at expansion joints. Refer to Lancaster Development Code for additional sidewalk requirements.
- 2. Sidewalks shall be constructed with a minimum of four (4') feet in width in residential areas and five (5') feet at curb line and non-residential areas. The sidewalk shall be located on the City parkway adjacent to the private property line. Sidewalks shall be graded at one-quarter (1/4") inch per foot such that the sidewalk at the property line shall be no greater than two and one-half (2-1/2 ") inches higher than the top of curb on a typical ten (10') foot parkway.
- 3. Sidewalks shall be a minimum of five (5') feet in width adjacent to curb and shall be doweled into the curb. Sidewalks in City parkway adjacent to the private property line shall be four (4') feet in width. Leadwalks shall be minimum three (3') feet in width and dowel into front porch and public walks, and expansion joint at both locations.
- 4. All fire hydrants, street lights and, utility poles that conflict with sidewalks or Barrier Free Ramps shall be relocated at the Utility Contractor's expense.

5. Entrances to sidewalks, alleys, and streets or approaches shall meet the current American Disabilities Act (ADA) standards. Transitions from sidewalks to alleys shall have smooth transitions without a drop off.

# D. Driveway Standards

- 1. Residential Driveways shall be dowel into the foundation and alley or street Approaches
  - a. All approaches shall be constructed of six (6") inch thick NCTCOG class "A" reinforced concrete pavement with number three (#3) steel bars on eighteen (18") inch centers each way. The driveway approach shall begin at the street curb and extend to the property line or to a point ten (10') feet from the face of the curb whichever is greater. The driveway approach shall be constructed such that the height of the drive approach at the property ROW, with a normal ten (10') feet parkway, shall be two and one-half (2-1/2") inches higher than the top of the curb. Two-foot asphalt transition shall be required on asphalt streets.
  - b. Width of Driveway Approaches: Residential driveway approaches shall not be less than sixteen (16') feet in width nor more than twenty (20') feet wide measured at the property line. Specific variance to this criteria may be requested by the property owner. Any variance granted based on a specific design submittal must have the approval of the Public Works Department.

Width of driveway approaches: (Residential Development) residential driveways shall be a minimum of sixteen (16') feet wide, from face of garage door to property line, and twenty-six (26') feet minimum width at alley or street, including a five (5') foot radius. Specific variance to this criteria may be requested by property owner. Any variance granted based on a specific design submittal must have the approval of the Public Works Department.

- c. Radius: Residential driveways shall be constructed with the return curbs having a rolled face disappearing at the sidewalk and joining the street curb with a minimum five (5') foot radius with a typical ten (10') foot radius requirement.
- d. Provision for Joint Approaches: Driveway approaches shall be located entirely within the frontage of the premises they serve except that joint, or cooperative, driveways with adjoining property holders may be permitted and may be required by the City Engineer. When

the joint drive approach is proposed by the developer, the request must be made by all the interested parties and all property owners involved. The design of the joint driveway facilities must be submitted with the request to be approved by the City Engineer.

e. Residential Driveway Approaches at Street Intersections: The drive approach on corner lots must be located to approximately line up with the side of the house or garage that is farthest from the intersection.

Only drive approaches in accordance with the above criteria will be allowed onto residential streets or the minor street at a street intersection. If both streets are residentially classified, a circular drive will be allowed on a corner lot if one of its two approaches meets the above location criteria. The other drive approach can have its near side no closer than 25 feet to the property corner closest to the intersection. If both streets have the same classification, other than residential per the currently adopted City Thoroughfare Plan, the City Engineer shall make the determination as to which street access will be allowed.

# 2. <u>Commercial/Industrial Driveway Approaches</u>

- a. Commercial and Industrial driveway approaches shall be constructed of six (6") inch thick (minimum 4,000 psi)concrete with #4 steel bars on eighteen (18") inch centers each way. The driveway shall begin at the curb of the street and extend to the property line or to a point ten (10') feet from the face of the curb, whichever is greater. The drive approach shall be constructed such that the height of the drive approach at the property line shall be two and one-half (2-1/2") inches higher than the top of curb at the street.
- b. Width of driveway approach: The width of any commercial or industrial driveway approach shall not be less than thirty (30') feet measured along the property line. Specific variance to this criteria may be requested by the Developer. Any variance granted based upon a specific design submittal must have the approval of the City Engineer.
- c. Radius: Commercial and Industrial driveways shall be constructed with the return curbs having a rolled face disappearing at the sidewalk and joining the street curb with a minimum thirty (30') foot radius. All fire lanes shall have a minimum turning radius of thirty (30') feet.

- d. Allowable Spacing for Driveway Approaches: On streets classified as Collector Streets, the minimum centerline spacing between driveways shall be at least three hundred (300') feet. On streets classified as Arterials, minimum spacing shall be at least five hundred (500') feet. This spacing criteria shall be applied irrespective of the number of individual properties located within the intervening distance. Deviation from this criteria may be requested by the Developer. Any deviation granted will be based on a specific design submittal and must have the approval of the City Engineer.
- e. Provision for Joint Approaches: Driveway approaches shall be located entirely within the frontage of the premises and shall be located no closer than ten (10') feet from each side property line except that joint, or cooperative, drive approaches with adjoining property holders may be permitted in order to conform with the provisions of paragraph (d) above. Any request for joint drive access must be by agreement of all parties involved and a specific plan submittal must be included for approval of the City Engineer. Both properties will be required to dedicate public ingress and egress easements to cover the approach and joint access area and must be filed on the plat and filed with the Dallas County Court of Records and one copy of this record must be submitted to the City.
- f. Approaches on Properties other than Residential: The driveway for the corner lot, if allowed, must be located a minimum of one hundred (100') feet from the point of intersection of the curb lines of both streets.
- g. Angle of Driveway Approach: The angle of the driveway approach with the curb line shall be ninety (90) degrees.
- h. Sidewalk to be Removed: When a driveway approach is to be built, the sidewalk shall be removed and the entire area replaced as a driveway. The drive approach shall extend to the property line. The sidewalk removed shall be tied back into the approach by dowels and shall meet the American Disabilities Act (ADA) requirements to be barrier free.

# 3. <u>Driveways Crossing Bar Ditches:</u>

a. The minimum eighteen-inch (18") culvert pipe size of (inside diameter) 3:1 slope, will be determined based upon the drainage area that it serves. The ends of all culvert pipe shall be cut at a 6:1 slope.

- b. Radius: Driveways shall be constructed with the return curbs joining the edge of pavement at the street with a minimum five (5') foot radius, with a typical ten (10') foot radius requirement.
- c. The maximum slope from the edge of driveway to the top of the culvert pipe shall be 3:1. The sloped area around the end of the culvert pipe shall be sodded or hydromulched to resist erosion. Safety devices shall be installed as required by the Design Engineer.

The minimum cross slope on the drive shall be 1/8" inch per foot. The minimum longitudinal slope between the edge of pavement at the street and the valley over the culvert pipe shall be 1/4" inch per foot.

All future maintenance of the drive approach, curb, sidewalk, and culvert pipe is the responsibility of the property owner.

d. During the drive approach installation, all ditch grading upstream and downstream of the proposed driveway culvert is the responsibility of the property owner, and shall be approved by the City Engineer.

# 4. <u>General - A.D.A. Guidelines – Per Guidelines State and Federal</u>

- a. Driveway Approaches at Pedestrian Crossings: Driveway approaches shall not be located in street intersections or at established pedestrian crossings.
- b. Driveway Approaches at Obstructions: Driveways shall be kept at a minimum of five (5') feet away from obstructions such as street light posts, fire hydrants, traffic signals, etc.
- c. Driveway Approach not to be Obstructed: Driveway approaches shall not be constructed or designed for parking of vehicles or for use as angle parking.
- d. Accumulative Width of Approaches: Driveway approaches shall not occupy more than forty (40%) percent of the frontage of a lot or tract, unless approved by the City.
- e. Curb Ramps are to be constructed on all permanent curb returns at intersections of all streets or as directed by the City Engineer.

#### SECTION 1-05 STORM DRAINAGE IMPROVEMENTS

### A. General

The criteria herein provided shall govern the design of storm drainage improvements within the City of Lancaster and shall comply with the Lancaster Code of Ordinance; Article 24.06 (Drainage Utility System) and 24.08 (Stormwater Management). Improvements shall include streets, alleys, storm sewers, channels, culverts, bridges, swales, and any other facilities through which storm water flows. All drainage improvements shall be constructed in accordance with City specifications and be located entirely in dedicated right-of-ways (ROW) or drainage easements. The Developer shall provide all the necessary easements and ROWs, on-site and off-site, required for drainage structures, including storm sewers and open channels with access ramps. Easement width for storm sewer pipe shall not be less than fifteen (15') feet, and easement width for open channels shall be at least twenty-five (25') feet wider than the top of the channel with twenty (20') feet on one side to serve as an access way for maintenance purposes.

The Developer shall be required to install at his own expense all storm sewers and drainage structures, and appurtenances, designed to convey the 100-year design storm. This policy is applicable to all required drainage facilities including the channel improvements on the main channels and tributaries.

The Developer shall be responsible for excavation and channel liner improvements based on the fully urbanized one hundred (100) year frequency discharge for the channel and to process a U.S. Army Corps of Engineers Permit 404.

## B. Basis of Design

All storm drainage design shall be in accordance with the City's manual for the design of storm drainage systems; *City of Lancaster Storm Water Design Manual* (Revised August 2007) <a href="http://www.lancaster-tx.com/DocumentCenter/Home/View/598">http://www.lancaster-tx.com/DocumentCenter/Home/View/598</a>; or as amended and Standard Construction Details.

1. Open Channels: When the runoff exceeds the capacity of a seventy-two (72") inch diameter concrete pipe or equivalent cross sectional pipe area (i.e., 2-51 inch diameter concrete pipe), the discharge can be carried in an open channel. Open channels shall be designed to carry the one hundred (100) year frequency storm runoff from a fully urbanized watershed with two (2') foot of freeboard. Improvements to existing channel shall include all Corps of Engineers permitting (#404 permit), Federal Emergency Management Agency map amendments and Environmental Protection Agency.

- a. All hydraulic studies shall be based on known FEMA 100-year water surfaces. The height of concrete channel liner shall be at least one (1') foot above the fully urbanized one hundred (100) year water surface profile. Such profile shall be determined by backwater calculations using the HEC-RAS computer program or other approved modeling methods by the City Engineer, which take into account backwater effects from downstream bridges, culverts, and other obstructions.
- c. Special considerations of levees will be considered in conjunction with the City and U.S. Army Corps of Engineers.
- d. <u>Earthen Channels</u>: Earthen channels shall meet the following requirements:
  - 1. The velocity of flow will not exceed eight (8') feet per second.
  - 2. That channel banks be reinforced, such reinforcing methods shall be approved by the City.
  - 3. That sufficient energy dissipation is designed and constructed at all locations where concrete lining meets earthen slopes and bottoms.
  - 4. That drainage easements are dedicated to encompass the area below the elevation of the water surface profile of a fully urbanized one hundred (100) year frequency storm, plus two–foot (2') of freeboard and any additional area necessary to provide access for maintenance, but not less than sixty (60') feet in width.
  - 5. That, arrangements have been made for perpetual maintenance of the channel by the adjacent property owners within the dedicated drainage easement or the channel has been dedicated and accepted for City Park purposes.
  - 6. That, in the judgement of the City Engineer, the appropriate use of the neighboring property or the health and safety of persons affected will not be substantially injured.
  - 7. Earthen channels, when approved, shall be constructed with a trapezoidal shape and a minimum bottom width of twelve (12') feet and side slopes not steeper than four (4') feet horizontal to one (1') foot vertical (5 to 1 preferred). A reinforced concrete pilot channel not less than twelve (12') feet in width or, as determined by the Public Works director, shall be constructed. The side slopes shall be smooth, free of rocks, and contain a minimum of six (6") inches of top soil. Gabion, rock, rubble, riprap, or other such similar materials shall be placed a minimum of four (4') feet along both sides of the pilot

channel to a depth of at least two (2') feet. Size and gradation of such material shall be determined based on peak discharge velocity requirements. The pilot channel shall be constructed as approved by the Engineering Division. The easement width for an earthen channel shall extend at least twenty (20') feet beyond the top of each channel bank and shall not be cross-fenced. The top of bank areas shall remain open for maintenance purposes.

After proposed earthen side slopes are cut, slopes shall be established in accordance by the City's specifications with grass or other designed vegetation as approved by the City Engineer. The grass shall be planted to twenty (20') feet outside the top of banks, and no less than one (2) two-inch high sprig per half square inch of slope and bottom.

The water surface profile (hydraulic grade line) for the one hundred (100) year frequency storm shall be shown on all sections and profiles. Maximum permissible velocities for the one hundred (100) year frequency flow shall be eight (8') feet per second in partially concrete lined channels while in fully lined channels, the maximum permissible velocities for one hundred (100) year frequency discharge shall be fifteen (15) feet per second.

Special consideration should be given to outlet structures on channels where concrete lining meets earthen banks.

One reinforced concrete access ramp shall be provided at all intersections of every open channel with a public street. Access ramps shall be a minimum of twelve (12') feet wide with a maximum slope of sixteen (16%) percent.

- 2. <u>Bridges and Culverts:</u> All bridges and culverts shall be designed in accordance with the City's Storm Water Drainage Manual. The fully urbanized one hundred (100) year frequency storm hydraulic grade line shall be plotted on all sections. All culverts shall have headwalls and wingwalls upstream and downstream. All culverts shall pass the fully urbanized one hundred (100) year frequency storm runoff without allowing runoff to pass over the road. All bridges shall have channel bottom and slopes concrete or gabion lined. The low point on the bridge structure shall be at least two (2') foot above the fully urbanized one hundred (100) year frequency storm water surface.
- 3. <u>Lot Grading:</u> existing and proposed grading plan of developments shall be provided. The contour interval shall be two (2') feet unless other interval is approved by the City Engineer.

Commercial lot grading will be conducted in a manner, which will take all runoff to the adjacent streets or drainage easements. No lot area will drain onto adjacent properties without approval of the City Engineer.

Finished floor elevations shall be set a minimum of one (1') foot above the top of curb at the centerline of the lot or one (1) foot above the one hundred (100) year frequency storm water surface elevation, whichever is higher.

- 4. <u>Off-Site Drainage:</u> In respect to offsite drainage, the following provisions shall apply:
  - a. The Developer shall be responsible for all runoff from property upstream of his proposed development as though it were all fully developed. Runoff coefficients utilized to design drainage systems for the properties involved shall use the current zoning and/or the future use of the property as shown in the Future Land Use Plan, whichever is the most intensive use.
  - b. Effect of the development's drainage design on downstream properties and adjacent properties shall be given proper consideration. Water concentrated in streets, pipes, drains, culverts, and channels will be moved to a recognized watercourse without damage to intervening structures or undue spreading across intervening land.

The Developer is responsible for constructing all offsite channelization or underground storm drain with overland relief required to discharge concentrated storm water from the low end of his development to the recognized watercourse, and also to obtain all the necessary easements from intervening land owners. Calculations will be required to show that connecting offsite drainage ways are capable to handling any increase in runoff due to development, concentration, or diversion for at least the ten (10) year storm frequency.

Any drainage easements necessary due to the Developer's alteration of existing concentrated discharge locations (i.e., existing creeks, channels, or storm sewers) shall be acquired by the Developer at no cost to the City.

- c. Where the preliminary drainage analysis by the Developer indicates that additional runoff from the developing property will overload downstream drainage facilities and result in hazardous conditions, the City may withhold approval of the development until appropriate provisions have been made.
- C. Developer and his Engineer shall furnish to the City, a "hold harmless agreement" and a "release of liability" indemnifying the City of Lancaster from any liabilities due to damages cause to the downstream property owner by the discharge of storm drainage water from the said development.

# Preliminary Drainage Analysis Guidelines

The purpose of a Preliminary Drainage analysis is to determine the need for drainage facilities and drainage easements either within the proposed development or offsite. These guidelines shall be used as the minimum for a Preliminary Plat. When requested by the Public Works Department, a Preliminary Drainage Analysis shall be submitted with a Replat or Amended Plat. The Preliminary Drainage Analysis shall consist of the following items:

1. A topographical map drawn at a scale of 1" – 200' and depicting the entire natural watershed, which drains to and across the subdivision. Also a map, which includes the subdivision and an area extending for 200 feet in all directions from the proposed subdivision as a minimum. The map must also include contour lines at two-foot vertical intervals or less depending on terrain. Data from the City topo maps will be acceptable where available. Data from the USGS Quad sheets will be acceptable only where City topo maps are not available. Field surveys may be required to clearly depict the area.

The map shall indicate any offsite or adjoining areas outside the limits of the area being platted, which are relevant to onsite drainage. Show any proposed or existing drainage and utility easements, water bodies, streams, and railroads, parks, cemeteries, 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 the subdivision.

The datum for all topography shall be that of the USGS. The Preliminary Analysis shall be sealed by a Professional Engineer licensed by the State of Texas.

- 2. Calculation of the drainage areas, time of concentration, and storm water runoff rate for the 100-year frequency storms shall be provided in accordance with City's Storm Water Design Manual.
- 3. Identification of special flood hazard areas as defined by the flood Damage Ordinance and as located by the current Flood Insurance Rate Map shall be shown and for FEMA panel number provided.

## D. Drainage Study Guidelines

A Drainage Study is required when it has been determined 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 by the Design Engineer to prepare a Drainage Study.

1. The study shall analyze the effect of the subdivision on existing downstream drainage facilities. The study shall be sufficient to verify compliance with the City's criteria.

- 2. The study shall include a topographical map as defined above in Subsection C. "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 (proposed grading plan).
- 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 in the system. Such calculations shall be in tabular form as outlined in the City's Storm Drainage Manual and be made part of the construction plans.
  - b. Inlet calculations utilizing the minimum time of concentration for the zoning type which is contributing the largest "CA" to the inlet. Such calculation shall be in tabular form as outlined in the City's Storm Drainage Manual and made part of the construction plans.
- 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 five (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 of 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.

6. The Drainage Study shall be sealed by a Professional Engineer licensed by the State of Texas.

#### **DRAINAGE IMPROVEMENTS**

All work and materials shall be in accordance with the City's General Construction Design Standards, Storm Drainage Manual and Standard Construction Details.

- 1. Inlet installation; The floor of the excavation for the inlet box must provide a firm, level bed for the base section to rest upon. Use a minimum of 6" depth of 1" diameter (maximum) rock or gravel to prepare the inlet bedding to final grade. When installing inlet with wet soil conditions, use cement stabilized-sand and allow it to set up by keeping hole pumped dry.
- 2. After pipe has been laid on proper bedding, backfill with 8" maximum loose lifts mechanically compacted to 95% standard proctor. Moisture content shall be within 0 to +4 of optimum under roadway and 12" maximum loose lift behind curb. Maximum size rock in backfill shall not exceed 4" in diameter.
- 3. Precast inlets and headwalls must be approved by the City Engineer.
- 4. Concrete for inlets and head walls must be a minimum of 4,200 psi.
- 5. Connection of the storm sewer pipe laterals to inlets shall be made with pipe that is smooth and even. If the pipe has to be cut, then the end of the pipe shall be evenly saw-cut. Chipped or broken pipe will be rejected.
- 6. Locking device is required for all storm sewer lids.
- 7. The wording "Storm Water" shall be forged into all inlet lids and letters shall be a minimum of 2" in height.
- 8. Existing storm sewer pipe and/or laterals shall be located prior to construction of inlet boxes. If adjustment in grade of lateral is required, a revised design by the engineer of record shall be submitted to the City Engineer for approval.
- 9. Reinforced concrete pipe shall be class III minimum or approved equal, installed on a class B+ embedment.
- 10. Connections between pipe size changes shall be made with only pre-cast manufactured pipe fittings.
- 11. All transitions and bends must be pre-cast manufactured.
- 12. All storm sewer pipe spigot and bell ends shall be asphalt primered.
- 13. For final acceptance, the City will require video inspection of all storm sewer mains. A copy of the results must be provided to the City Inspector on a CD Rom or DVD disc. VHS tapes will not be accepted.

- 14. All inlets shall have MS-4 drain tile markers. For detail, contact City Inspector.
- 15. No tracking of mud from construction site is allowed. The mud tracked shall be immediately cleaned.

#### **Storm Sewer Pipe Embedment**

- 1. A compacted crushed stone six (6") inches thick shall be required under the bottom of the pipe as Class B+ embedment is required.
- 2. The initial backfill of fine granular material shall be required to a minimum of twelve (12) inches over the top of the pipe.
- 3. All ditches not under existing or proposed paving sections, where ditches cross existing or proposed street or alley sections the ditch shall be mechanically compacted to 95% Standard Proctor Density, unless otherwise approved by the City Engineer.

# **Pipe Joints**

The joints shall be constructed and jointed together in such a manner that no spill through or backfill will occur. This includes the lift holes used in certain size, and types of pipe. The use of the following types of joint materials are acceptable.

- 1. Cold applied, plastic asphalt joint compound
- 2. Rubber gaskets
- 3. Cold applied, performed plastic gasket

# **Storm Drainage Inlets**

- 1. The type of drainage inlet shall be as indicated on the construction plans. For secondary and major street sections, a recessed type inlet shall be required. For industrial and residential streets, a curb line inlet will be acceptable unless otherwise shown on the construction plans.
- 2. Pipe backfill on 10% grades or greater should be stabilized, minimum half way up the pipe.
- 3. A round manhole cover with locking device shall be placed on all inlet tops.
- 4. The inlet throat shall be constructed with a rounded section with a maximum depth of opening of a maximum six (6") inches unless otherwise shown on the construction plans.

# **SECTION 1-06 STREET LIGHTING (TXU)**

A. Reference City of Lancaster 2006 Streetscape Master Plan (http://www.lancaster-tx.com/DocumentCenter/View/7866) (or as amended) for additional street light design requirements.

#### B. Installation

Street light in all subdivisions shall be installed on approved metal (galvanized steel) poles.

- 1. Poles must be approved by Oncor Electric Delivery (Oncor) and the Public Works Director.
- 2. Poles shall be contracted and paid for by the Developer during the construction phase of a subdivision and before building permits are issued.
- 3. Requirement for fiber-class galvanized poles only. Poles not purchased through Oncor, shall be certified in writing by a Professional Engineer licensed in the State of Texas to meet the specifications as required by Oncor.

# C. Location

The location of street lights shall be as follows:

- 1. At all intersections.
- 2. Where a new street intersects an existing street.
- 3. Where a block is four hundred (400') feet or longer, a street light shall be installed approximately 180 -220 feet apart; low in height and warm in color.
- 4. If a cul-de-sac block is four hundred (400') feet or longer, a street light shall be installed in the end of the cul-de-sac.
- 5. Street light poles should be at a minimum of ten (10') away from any obstruction.
- 6. Street lights shall be installed at any other location as may be directed by Oncor or the Director of Public Works for the welfare and safety of the community.

#### SECTION 1-07 MASONRY/CONCRETE SCREENING WALLS

# A. Construction

Masonry or concrete screening walls shall be constructed according to the following specifications.

- 1. Concrete foundations shall have a minimum compressive strength of 3000 psi at 28 days meeting the requirements of NCTCOG Class "A" concrete. Compressive strength tests conducted by an independent testing laboratory shall be submitted to the City staff for confirmation. All testing costs shall be paid by the developer or his contractor.
- 2. Reinforcing steel shall be billet steel conforming to the requirements of ASTM A-615-GR.60.
- 3. Concrete for piers shall be placed within 8 hours of drilling pier holes, and protected, and poured dry immediately.
- 4. Material used for screening fence shall be approved by the City of Lancaster Standard Details.
- 5. Mortar shall be Type "S".
- 6. Construction shall be in accordance with the requirements of the City of Lancaster General Construction Design Manual; "WALL-01" (Standard Construction Details).
- 7. The wall shall be a minimum of six (6') feet in height as measured from the nearest/adjacent sidewalk grade. No masonry or concrete screening wall or column shall exceed eight (8') feet in height unless the wall is functioning as a retaining wall and is designed as such. Note: Wood is prohibited.
- 8. Unless it has been determined by the City Engineer that no drainage problems are anticipated, openings designed to allow for storm water drainage shall be provided.
- 9. No prefabricated or simulated screening fence shall be allowed.
- 10. All screening walls i.e. masonry, concrete, rock, stone, decorative Concrete Masonry Unit (CMU) shall be designed and sealed by a Professional Engineer (Structural or Civil) licensed in the State of Texas. Sealed plans shall be submitted to the City for review.

## Location

- 1. No wall shall be located on public right-of-way.
- 2. Sight triangles shall be provided at street intersections according to the schedule contained in the Lancaster Development Code.
- 3. The location and placement of a wall shall be installed to avoid conflicts with utility and drainage easements.

# B. <u>Plan Approval</u>

- 1. Plans are to be designed, signed, sealed and dated by a Professional Engineer licensed in the State of Texas and furnished with the following information:
  - a. The title shall include the legal name of the property owner's on which the wall is being constructed.
  - b. A plan view of the wall showing its location, limits, and stationing.
  - c. A profile of the wall including grades for the top of the concrete mow-strip, adjacent top of curb, sidewalk and finished floor of proposed and/or existing adjacent slabs.
  - d. Elevation view of a typical column.
  - e. Elevation view of the wall.
  - f. Mow-strip detail
  - g. Drainage clearance under wall (2" minimum).
  - h. Steel tensile strength.
  - i. Concrete compressive strength.
  - j. Wind load calculations.
  - k. Construction details of screening walls.
  - 1. Pier design.
- 2. City approval will be given through either 1) a new building permit application as part of a new improvement or 2) as part of a civil package review for a new retail or commercial development project. If detailed construction plans are not a part of the civil package, a new building permit application will be required.

#### **SECTION 1-08 EARTHWORK**

#### A. Definitions

- 1. <u>Conceptual Grading Plan-</u> A topographical map of the subdivision to provide a clear definition of the initial elevations, watercourses, and drainage patterns. The grading plan shall involve a minimum 50' feet beyond the subdivision limits to establish an overview of the area. In addition, a proposed grading plan shall be provided. The two set of plans must be sealed and signed by a Professional Engineer Licensed by the State of Texas.
- 2. <u>Excavation</u>- The removal of turf, soil, rock or weeds such that the surface is six (6") inches lower than the initial elevation.
- 3. <u>Fill- The deposition of rock, concrete, soil or sod such that the cumulative thickness of all materials is equivalent to six (6") inches or greater. All backfill shall not have rock or stone (debris) larger than four (4") inch in all directions.</u>
- 4. <u>Final Grading Plan</u>-A topographical map of the subdivision with sufficient perimeter area to provide a clear definition of the initial elevations, watercourses and drainage patterns. In addition, the plan shall include two (2') feet contours, spot elevations and flow arrows. The plan is in sufficient detail and scale to determine limits and depths of excavation or fill. The plan must be signed and sealed by a Professional Engineer licensed in the State of Texas. All fill and excavation shall be mechanically compacted per the geotechnical report. All material testing reports must be furnished to the City.
- 5. <u>Grading</u>-The movement of dirt, top soil, grass, native material, brush, trees, landscaping or other forms of surface material which will result in a long term difference of six (6") inches or greater from the initial elevation.
- 6. <u>Initial Elevation</u>-The mean sea level elevation as it existed five (5) years prior to the current date.
- 7. <u>Multi-Lot Subdivision-A division of any tract of land into two or more parcels.</u>

# B. <u>Unplatted Multi-Lot Subdivision</u>

When multi-lot subdivision has been proposed for platting, but has not yet been approved by the City, the following provisions shall govern the excavation and fill process.

- 1. A conceptual grading plan and related geotechnical report shall be submitted to the Engineering Division. The plan and report will be reviewed for consistency with City ordinances and policies. If the plan and report are approved, an early grading permit will be issued to allow grading to begin as site plan approval by the Planning division is required. An early grading permit application submittal will include grading plans, erosion control plans, the permit application and required fees. With an early grading permit, no utilities will be allowed.
- 2. The process must be inspected by a construction inspector of Engineering. All lifts shall be tested for compaction per the approved geotechnical report and reviewed by the testing laboratory. All tests shall be done by an independent testing laboratory. Copies of all tests shall be furnished to the city for their review and approval.
- 3. Areas which fail the compaction tests shall be excavated, the material replaced (or new material imported, depending on moisture content) recompacted and retested at the contractor's expense.
- 4. Areas which have been filled without adequate compaction tests or without inspection by the City, shall be considered as areas which have failed the compaction tests and such fill removed and the fill section constructed with proper testing and observation.

## C. Platted Multi-Lot Subdivision

When a multi-lot subdivision has been platted in accordance with the existing Subdivision Ordinance and the plat has been filed with the County, the following provisions shall apply.

- 1. A final grading plan shall be submitted to the Engineering Division. The plan will be reviewed for consistency with City ordinances and policies. If the plan is approved, then applicant will be allowed to apply for an early grading permit will be issued to allow grading to begin as site plan approval by the Planning division is required. An early grading permit submittal includes grading plans, erosion control plans, and a grading permit application. With an early grading permit, no utilities will be allowed.
- 2. The process must be inspected by a construction inspector from Engineering and all fill within public rights-of-way shall be tested for compaction. Tests results to be furnished to Engineering as they are completed.
- 3. Areas which fail the compaction tests shall be excavated, the material replaced (or new material imported, depending on moisture content) recompacted and retested at the contractor's expense.

- 4. Areas which have been filled without adequate compaction tests or without inspection by a construction inspector from Engineering shall be considered as areas which have failed the compaction tests and such fill removed.
- 5. Areas of a multi-lot subdivision which are not graded at the same time as the rest of the subdivision will be required to comply with the provisions of a single-lot subdivision.

# D. <u>Single-Lot Subdivision</u>

All single lot subdivisions shall be required to obtain a Grading and Excavation Permit from Building Inspections. Note that single-lot subdivision shall be considered multi-lot if the subject parcel and any adjacent parcels are filled.

# E. <u>Testing</u>

All compaction shall be tested by an independent soil-testing laboratory approved by the City.

- 1. The testing facility must be registered with the City. The Engineering Division may disallow any and all firms which cannot or refuse to meet the minimum criteria established.
- 2. All lots that are filled must be compacted per the approved geotechnical report.
- 3. All lifts shall be tested per the approved geotechnical report and reviewed by the testing laboratory on each lot. Copies of all tests shall be furnished to the city for their review and approval.
- 4. Slopes created by excavation or fill shall not exceed six horizontal to one vertical (6:1) in residential areas, and shall not exceed three horizontal to one vertical (3:1) in other locations approved by the City.
- 5. All select backfill shall not have rock or stone (debris) larger than four (4") inch in all directions.

# **EROSION CONTROL**

- 1. Every soil disturbing activity shall have an accompanying erosion control plan (ECP) and either a construction site notice (CSN) for those activities disturbing more than 1 but less than 5 acres, or a notice of intent (NOI) for those activities disturbing more than 5 acres. A copy of the appropriate CSN or NOI shall be provided to the City of Lancaster (City Engineer) prior to issuance of an early grading permit or construction activities.
- 2. The CSN or NOI shall be posted in a location viewable to the public until construction is complete and a notice of termination (NOT) is submitted. The Storm Water Prevention Plan (SW3P) shall be readily available for review by federal, state or local authorities.
- 3. No soil disturbing activities will occur prior to SW3P, ECP and associated Best Management Practices (BMP) being fully implemented, then inspected by the City of Lancaster's Construction Inspector.
- 4. The contractor shall comply with the City of Lancaster's MS4 Stormwater Ordinance. The current NCTCOG Best Management Practices Manual, The Texas Pollutant Discharge Elimination System (TPDES) General Construction Permit TXR 150000, and any other state and or local regulations.
- 5. The site shall be reviewed by the contractor or his representative weekly and after any major storm adjustments/repairs may be inspected and approved.
- 6. Final acceptance of a site shall be contingent upon vegetation being established per the TPDES General Construction Permit TXR150000, and proper Notice of Termination (NOT) has been submitted to the State of Texas. A copy of the Notice of Termination (NOT) shall be submitted to the City of Lancaster.
- 7. Contractor (or Subcontractor) shall provide a copy of self-inspection report (related to SW3P) to the City Construction Inspector on a weekly basis.

### SECTION 1-9 UTILITIES, R-O-W, TELECOMMUNICATION

- A. Installation of utilities in existing streets shall be by bore (open cut not allowed), unless approved in writing by the City Engineer. Plans that have been approved with an open cut must be validated by the City Engineer and an Excavation Permit obtained prior to cutting. Tunneling and boring under city streets, paved structures, and tree lines shall be accomplished by means of jacking, boring or tunneling equipment, which is subject to City approval through the Engineering Division prior to the start of operation.
- B. Lane and Road Closures: A detailed traffic control plan shall be prepared and signed by a professional engineer unless approved by the City Engineer. Provide a copy of the approved plan and notify the City Engineer at least 72 hours in advance so the appropriate City Emergency Services can be notified. Lane closure of any street and/or intersection will be between the hours of 9 am to 3 pm, unless approved by the City of Lancaster.
- C. The voids outside of the carrier pipe or casing pipe shall be backfilled by hydraulically placed material so that there are no open voids over the roof of the tunnel or bore. This shall be done without damage to the roadway surface. Shall maintain a minimum eighteen (18") inches clearance from water- and wastewater utility lines.
- D. All bore pits, trenches, open cuts, and holes shall be inspected and backfilled within 24 hours after installation of utility lines. The method of compaction shall be in accordance with the earthwork section of this manual. Any excess or surplus material resulting due to displacement of utility lines and conduits shall be disposed of in an acceptable manner to the City.
- E. Utility clearances that apply to streets shall apply to alleys and driveways.
- F. The Contractor shall be required to install all necessary warning and safety devices in accordance with TXDOT Manual of Traffic Control Devices Part IV and or those warning and safety devices required to protect the safety and health of the public until the work has been furnished and accepted by the City.
- G. Utility crossings of state and federal highways or railroads shall meet the requirements of that agency. Approved permits from those agencies shall be provided to the City, prior to construction commencing.
- H. H. The use of a casing pipe will be based upon the specific project location and soil conditions. The approved plans will show casing pipe if it is to be used on the specific bore in question.

For R-O-W and Telecommunications, refer to the Lancaster Code of Ordinances; ARTICLES 24.09 (RIGHT-OF-WAY MANAGEMENT) & 24.10 (CERTAIN USES OF PUBLIC RIGHTS-OF-WAY AND ERECTION OF NETWORK NODES AND SUPPORT POLES IN THE PUBLIC RIGHT-OF-WAY) as they can be found at: http://z2codes.franklinlegal.net/franklin/Z2Browser2.html?showset=lancasterset

# CITY OF LANCASTER, TEXAS WIRELESS COMMUNICATION USE OF CITY WATER TANKS

# **GENERAL REQUIREMENTS**

# **SUBMITTAL PROCESS**

- 1. Letter to City requesting consideration to use specifically identified site. Letter to include type of wireless communication and general equipment proposal. Include a statement that no expense will be borne by the City for submittal information. Statement to acknowledge public hearing and action by City Council required to accept or reject request to use a City owned site.
- 2. Approval and subsequent executed contract agreements will include full insurance coverage as outlined in Attachment A.
- 3. Detailed submittal of engineering drawings.
- 4. Letter from Tank Manufacturer.
- 5. Artist rendering of additions to the site.

# **COSTS/LEASE TERMS**

- 1. The City desires a 5-year lease with two 5-year renewable lease options for each site.
- 2. All expenses required for additions to the site and telecommunications maintenance shall be at the expense of the telecommunications company.
- 3. All expenses required to make a complete submittal package shall be at the expense of the telecommunications company.
- 4. Telecommunications companies will be responsible for obtaining and paying for all required utilities.
- 5. Lease terms can be structured to provide monthly payments or in kind services or a combination of each. Lease terms should consider the renewable options and should include inflationary increases.

# **REQUIREMENTS**

- 1. Public hearings will occur that will be hosted by the City Council or other Council appointed board. Final decisions of acceptance or rejection of each proposal will be made by the City Council.
- 2. Fully developed plans with complete details will be required as part of any submittal package for consideration. Artist rendering or illustration will be required to show the effects of telecommunication additions to the tank structure and effects on adjacent properties.
- 3. Telecommunication companies will be responsible for repairs and relocation's to existing irrigation and landscaping due to their activities.
- 4. All improvements to the site shall be permanent in nature and meet all building codes. Cabinets and structures shall be adequately landscaped. Improvements shall blend with the surrounding community.
- 5. No exterior lighting is expected. All lighting shall be internal to telecommunications equipment.
- 6. Telecommunications companies shall provide typical routine maintenance schedule and projected emergency access to the City sites.
- 7. No entry into the tank structure shall be permitted by telecommunications personnel, unless in the company of the City of Lancaster personnel.
- 8. All access to the site will be through the existing gate. Telecommunications companies will have access to the site 24-hours a day.
- 9. Telecommunication company shall have tank manufacturer review proposed attachments to water tank and provide a letter, sealed and signed by a Professional Engineer registered in the State of Texas, stating that the improvements have been reviewed and that no adverse effects will be placed on the structure due to live, dead and wind loads. Further, the tank manufacturer will need to state any reservations that may exist.
- 10. No penetrations shall be made to steel or concrete portions of any tank or tank structure without design calculations being provided as part of No. 9 above.
- 11. Any attachment made to a steel tank or steel tank structure interior or exterior shall be welded and all damage to existing coating system repaired and recoated to match the existing coating system. Attachments shall be coated in the same manner as the repair work. No welding or attachments will be allowed on the wet riser or on the

- wet compartment. No telecommunication equipment or appurtenances shall interfere with the City's existing electrical or telecommunication equipment or the alike.
- 12. Any bands or attachments made to concrete structures shall be stainless steel. Such devices shall not chip or spall the existing concrete.
- 13. All cable or conduit runs located on the exterior of the tank or tank structure shall be totally enclosed. Such enclosed cable or conduit trays on concrete structure shall be stainless steel, on steel tank structure the trays shall be steel and shall be coated to match the existing color of the tank and tank structure. All conduit runs between tank and telecommunication's cabinets or buildings shall be underground.
- 14. Any cable or conduit runs located on the interior of the tank or tank structure shall be attached to existing ladders in a secure and rigid fashion. Such attachments or hangers shall be stainless steel. In addition, no cable or conduit shall be run and/or attached to the existing floor. Empty conduits in the floor may be made available for telecommunication company's use. Cable or conduit runs shall not interfere with ladders, safety devices or access routes.
- 15. Any secondary user or a site shall make improvements that are aesthetically compatible with the primary telecommunication user, buildings, cabinets, landscaping and antennas shall match.

# TANK PREPARATION AND PAINTING

# A. Surface Preparation

All steel surfaces shall be thoroughly cleaned of all existing paint and mill scale by abrasive blasting in the field after erection of all steel members. All interior surfaces shall be abrasive blasted to a near white metal blast in accordance with Steel Structures Painting Council Specification SSPC-SP10 after erection of all steel members. All exterior surfaces shall be abrasive blasted to a commercial finish in accordance with SSP-SP6. If blasting of any previously painted surfaces is required, the blast finish shall be feathered to provide a smooth uniform paint finish.

Final determination of blasting quality shall be determined by the Owner. All abrasive blasting shall be performed in full accordance with the latest regulations issued by the Texas Air Control Board.

The Contractor shall be in full conformance with the Texas Air Control Board's (TNRCC) General Rules for nuisance. If such a nuisance arises from the Contractor's work on this project, the Contractor shall immediately shutdown the work causing the nuisance and makes the necessary changes in operation, including preventative shields and containment. Contractor shall provide whatever is necessary to resolve the nuisance caused by the Contractor's operation to the satisfaction of the State of Texas and the City. All cost of whatever the nature shall be included in the unit price bid for the project.

# B. Standard of Comparison

The specific paint referred to in these specifications is manufactured by Valspar Chemical Company, or Carboline and is presented as a standard of comparison. Other paints may be acceptable if they are equal in quality as determined by the Owner. The Owner shall determine the acceptability of paints to be used. The Owner reserves the right to request the Contractor to supply a complete history of the paint system he proposes to use. This information would be used to determine acceptability of the system. All paints applied are to be by the same manufacturer. Any deviation of the specified paint systems must be presented at the Owner's Pre-bid Conference in writing for acceptance.

# C. Paint System

All tank surfaces shall be coasted after erection of all members as follows:

# 1. <u>Interior Steel Painting</u>

The interior paint system shall be certified by the national Sanitation Foundation – ANSI/NSF Standard 61 Drinking Water System Components for Potable Water Coatings.

After interior surfaces have been abrasive blasted they shall be painted by spraying with one coat of food grade Valspar 32-D-7 PWR High Build Epoxy, or Carboline 191 Epoxy Primer. Minimum dry film thickness shall be 5.0 mils throughout. All touch-up painting shall also be done with the approved prime paint. Prior to the first coat of paint, all welds shall be coated by brush with the approved prime paint thinned by 50% with the approved paint supplier's food grade thinner.

The second interior and final coat shall be applied by spraying one coat of white food grade Valspar 32-W-3 PWR Hi Build Epoxy, or Carboline 191 Epoxy Finish. The minimum dry film thickness of the second coat shall be 5.0 mils throughout.

Total dry film thickness of the interior paint after seven days (75°F Temperature) drying time shall not be less than 10.0 mils throughout. Contractor shall provide adequate forced ventilation during application and curing to achieve required results. Each coat of paint shall be applied in a uniform thickness and shall be feathered as necessary at its edges to prevent lap marks and provide a smooth paint finish. All interior paint shall comply with ANSI/NSF Standard 61.

# 2. <u>Exterior Steel Painting</u>

After exterior surfaces have been abrasive blasted they shall be painted by spraying or rolling, one coat of Valspar Val-Chem Hi Build Epoxy Primer. Minimum dry film thickness shall be 5.0 mils throughout.

The final exterior coat shall be applied by spraying or rolling one coat of Valspar, V 41 Series, Val-Chem Urethane Enamel, or Carboline 133 HB. The minimum dry film thickness shall be 5.0 mils throughout.

The minimum total dry film thickness of the exterior paint system shall be no less than 10.0 mils throughout. Each coat of paint shall be applied in a uniform thickness and shall be feathered as necessary at its edges to prevent lap marks and provide a smooth paint finish. The final coat may require placing this coating in more than one (1) coat to insure a uniform color. It shall be the Contractors responsibility to produce the uniform cover on the exterior of this tank. If additional coats are used they shall be

placed in thickness of 1.5 mils minimum.

Color of the exterior of steel shall be white. The column shall not be coated. Colors shall be reviewed and approved by the Owner. Colors for logos shall be selected and approved by the Owner. The logo shall consist of two coats of final coat 2.5 mils average, and shall include two coats of a clear coat compatible with the paint system. The logo will appear on four sides of the tank.

# D. Application

Coatings shall be applied in accordance with paint manufacturer's recommendations found on the paint data sheets and are subject to inspection at all times by the on-site representative. Paint manufacturer's data sheets shall be submitted as part of the shop drawing submittal process. Contractor shall follow the Steel Structures Painting Council Good Painting Practice except where exceeded in these specifications.

No painting shall take place utilizing the interior paint system unless the atmospheric temperature is above 50°F and metal surface temperatures is about 50°F above the dew point. The relative humidity shall not be greater than 80%. Painting also shall not proceed if the temperature is expected to fall below 40°F before the paint has dried to the recoat window (24 hours) or if the surface temperature is at or above 110°F.

No painting shall take place utilizing the first coat of exterior paint system unless the atmospheric temperature is above 50°F and metal surface temperatures is above 50°F and a minimum of 5°F above the dew point. The relative humidity shall not be greater than 85%. No painting shall take place utilizing the several and final coat of the exterior paint system unless the atmospheric temperature is above 40°F above the dew point. The relative humidity shall not be greater than 89%. Painting utilizing the exterior system shall not proceed if the temperature is expected to fall below 40°F before the paint has dried to the recoat window (24 Hours) or if the surface temperature is at or above 110°F.

Contractor shall have sufficient number of compressors and adequate compressor output on site to complete the blasting and painting in a timely manner. Contractor shall have on site and utilize during the coating of the tank, two (2) 45:1 Ratio airless spray Graco Pumps or equal in working order.

All spray equipment shall be inspected and approved by Owner's representative before any application is begun. A moisture trap shall be placed in line from air supply to pressure pot and spray gun. This trap shall be opened slightly to provide a continuous bleed. Regulators and gauges shall be provided for air to

both pressure pot and spray gun.

All abrasive and dust from blasting operations shall be removed from surfaces before paint application is begun. Blasted surfaces shall be coated with one coat of primer during the same day that blasting was done. Primer shall not be applied closer than six inches to non-blasted area. Any subsequent blasting operation shall not result in abrasive particles embedded in the paint film. The sequence to be followed in painting shall be such that a minimum of damage to finished coatings will result.

Spray guns must be held perpendicular to the surface being painted, handled and adjusted in such a manner so dry overspray is kept at a minimum.

The Contractor shall at all times protect the buildings, homes, automobiles and other items from blasting and paint that is being applied to the tank. Contractor shall be solely liable for all claims of damage of whatever nature which results from the blasting and/or painting operations on this project.

# E. <u>Inspection</u>

All work shall be done in a workmanlike manner, so that the finished coating on the interior, exterior and all painted surfaces of the tank and structures shall be free from bubbles, runs, drips, ridges, waves and unnecessary brush marks and variations in color. Additionally, all surfaces that will be in contact with potable water shall be free of holidays and pinholes. With the roof structure being seal welded, the roof area (all surfaces above water level) shall be free of holidays and pinholes.

Inspection and acceptance of the abrasive blasting shall be achieved prior to application of the prim coat of paint on the tank. The Contractor shall schedule and coordinate his work with the Owner to allow for expeditious prosecution of the inspection and painting.

All paint film thickness shall be verified by the Contractor by measuring the wet film thickness of each coat as it is applied. The Contractor shall coordinate the use of the painting scaffolds and rigging with the Owner or his representative to provide regular access for the paint inspections. A wet film thickness measurement shall be made for each 100 square feet of surface painted.

All paint will be inspected for applied dry film thickness using a non-destructive magnetic gauge such as a Mikrotest Gauge or an Elkometer. Dry film thickness, pinholes and Holidays shall be inspected throughout the painted surface at locations determined by the Owner. Testing for dry film thickness will be done by the Owner or an independent testing laboratory which is chosen and paid by the Owner. General paint inspection will be done by the Owner. All work shall

be done in a workmanlike manner, so that the finished coating on the interior and exterior of the tank shall be free from bubbles, runs, drips, ridges, waves, brush marks and variations in color.

The Contractor shall minimize lap marks created from the seal of the containment system. These areas shall be strategically located in welled seams.

# F. Safety Precautions

The Contractor shall be fully responsible for the safety of the workmen on this project and public in the vicinity of this tank at all times during the removal of the rust and mill scale, painting and sterilization of the tank. The Contractor shall be responsible for meeting all OSHA Safety Standards and Regulations. Protective equipment, abrasive resistant clothing, safety shoes, leather gloves, ear protection and OSHA approved respirators shall be utilized as a minimum during blasting and painting on this tank. All respirators shall be air fed. Contractor shall provide all workers, Owner Personnel and all other persons on site the minimum described safety equipment as well as that required by OSHA.

# G. Contractor Liability

Contractor shall be solely liable for all claims for personal and property damage, including death, which result from the blasting, painting and sterilization operations on this project. The Contractor shall take special precautions to control paint from damaging automobiles, homes and other facilities in the developed area around the tank. If complaints are received by the Contractor or the Owner, the Contractor shall investigate the complaint immediately and report in writing to the Owner corrective action he is taking. It shall be the Contractor's complete responsibility to correct or make whole any damage or injuries caused by his painting operations.

### **EXHIBIT A**

# INSURANCE REQUIREMENTS

Vendor shall procure and maintain for the duration of the contract, insurance against claims for injuries to persons or damages to property that may arise from or in connection with the performance of the work hereunder by the vendor, his agents, representative, employees or subcontractors. The cost of such insurance shall be included in the Contractor's bid.

# A. Minimum Scope of Insurance

Coverage shall be at least as broad as:

- 1. ISO Form Number GL 0002 (Ed 1/72) covering Comprehensive General Liability and ISO Form Number GL 0404 covering Broad Form Comprehensive General Liability; or ISO Commercial General Liability coverage ("occurrence" Form CG 0001). "Claims made" form is unacceptable except for professional liability.
- 2. Automobile liability shall include all owned, hired and non-owned vehicles.
- 3. Worker's Compensation insurance as required by the Labor code of the State of Texas, including Employer's Liability Insurance.

# B. Minimum Limits of Insurance

Vendor shall maintain limits not less than:

- 1. Commercial General Liability: \$5,000,000 per occurrence for bodily Injury, personal injury and property damage. \$10,000,000 Aggregate Policy will include coverage for a) Premises Operations; b) Broad Form Contractual Liability; c) Products and Completed Operations; d) Use of Contractors and Subcontractors; e) Personal Injury; f) Broad Form Property Damage; g) Explosion Collapse and Underground (XCU) Coverage, Fire Damage, Medical Expense. NOTE: The aggregate loss limit applies to each project.
- 2. Automobile liability: \$1,000,000 combined single limit per accident, for bodily injury and property damage.
- 3. Worker's Compensation and Employer's Liability: Worker's Compensation limits as required by the Labor Code of the State of Texas and Statutory Employer's Liability Limits.

# C. Deductibles and Self-Insured Retentions Any deductible or self-insured retention must be declared to and approved by the City.

# D. Other Insurance Provisions

The policies are to contain, or be endorsed to contain the following provisions:

1. General Liability and Automobile Liability Coverage

- a. The City, its officers, officials, employees, Boards and and volunteers are to be added as "Additional Insureds" as respects liability arising out of activities performed by or on behalf of the vendor, products and completed operations of the vendor, premises owned, occupied or used by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to the City, its officers, officials, employees or volunteers. It is understood that the business auto policy under "Who is an Insured" automatically provides liability coverage in favor of the City.
- b. The vendor's insurance coverage shall be primary insurance as respects the City, its officers, officials, employees and volunteers. Any insurance or self-insurance maintained by the City, its officials, employees or volunteers shall be excess of the vendors insurance and shall not contribute with it.
- c. Any failure to comply with reporting provisions of the policy shall not affect coverage provided to the City, its officers, officials, employees, Boards and Commissions or volunteers.
- d. The vendor's insurance shall apply separately to each insured against which claim is made or suit is brought, except with respect to the limits of the insured's liability.
- 2. Worker's Compensation and Employer's Liability Coverage
  The insurer shall agree to waive all rights of subrogation against the City,
  its officers, officials, employees and volunteers for losses arising from
  work performed by the vendor for the City.
- 3. All Coverages

  Each insurance policy required by this clause shall be endorsed to state that coverage shall not be suspended, voided, canceled or non-renewed by either party, reduced in coverage or in limits except after ten (10) ten days prior written notice by certified mail, return receipt requested, has been given to the City.
- E. Acceptability of Insurers

The City prefers that Insurance be placed with insurers with an A.M. Best's rating of no less than A-:VI, or, A or better by Standard & Poors. This requirement will be waived for worker's compensation coverage only for those vendors whose worker's compensation coverage is placed with companies who participate in the State of Texas Worker's Compensation Assigned Risk Pool. Professional Liability carriers will need to be approved by the Risk Manager.

F. Verification of Coverage Contractor shall furnish the City with certificates of insurance effecting coverage required. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates are to be on forms provided by the City and are to be received and approved by the City before work commences. The City reserves the right to require complete, certified copies of all required insurance policies, at any time.

# **Section 1-10 - Stormwater Pollution Program**

All contractors (and their subcontractors) shall abide by all city, state, and federal stormwater regulations while performing work in the City of Lancaster. The City of Lancaster has an MS4 program as contractors shall comply with the City's stormwater management program best management practices; Lancaster Code of Ordinances; Article 24.08 – Stormwater Management as this can be found at: http://z2codes.franklinlegal.net/franklin/Z2Browser2.html?showset=lancasterset

Ordinance 2012-07-11 adopted 7/23/12

# Section 1-11 - Benchmarks

	GPS M	ONUMENT CO	NTROL	SHE	ET		
STATION NAME: LANCATE	₹ #2	DATE: OCT & NOV. 2001	1	ADJUSTED HORIZONTAL CONTOL DATA			
MONUMENT TYPE: 3 1/2"	BRASS MON. STAMPE	D #2	ORDER: 2	VD.	SURVEY METHOD	: GPS <b>=</b> 01	HER 🗆
CITY: LANCASTER	COUNTY: DALLAS		COMBINED	SCALE	FACTOR: 0.99988	4104	
	0.00	EPARED BY: KCC	NAD 27		COORDINATES	PLANE AZIMU	
SURVEYOR: VANNOY & A		EPARED DI. NCC	GRID DATA	(1	U.S. SURVEY FEET)	(CONVERC	GENCE)
PROJECT NUMBER: 0107 MANGEMENTALINA DISTANCE & DII	RECTIONS TO REFERE	YYETA GOLDE TO DESCRIPTION	STATE: TX ZONE: NC				
3.5'	NORTH	NORTH EDGE OF PAYMENT	CODE: 4202	- 11			
9.2'	SOUTHEAST	FENCE CORNER			COORDINATES	PLANE AZIMU	
5.5'	EAST	STOP SIGN	NAD 83 GRID DATA	6	U.S. SURVEY FEET)	(CONVERG	The state of the s
49.6'	WEST	FIRE HYDRANT			1.00	1,550,000	
			STATE: TX ZONE: NC	N 6	8894689.1047	0.56,07.5	962"
		THE PROPERTY OF THE PARTY.	CODE: 4202	E 2	496898.4954	00007	702
						To the latest to	
			METRIC COI	VERSI	ON FACTOR: 3.1	2808333333	
			The second secon	POSITION	V NAD 27 □	NAD 83	ELEV: (FEET)
DESCRIPTION TO POINT:			GEODETIC DATA	ATITUD	E: 32'34'12.63140" IDE: 96'47'04.72168"	NORTH WEST	579.4481
STAMPED ON IT BEING	TH "CITY OF LANCATER MOI APPROXIMATELY 0.3" BELOW	V GROUND AT THE					
BLUE GROVE ROAD, MO OF PAVEMENT OF TEN	THE INTERSECTION OF TEN NUMENT IS LOCATED 3.5' N MILE LANE, 9.2' SOUTHEAST SIGN, AND 49.6' WEST OF A	ORTH OF THE NORTH EDGE F OF A FENCE CORNER,	T TO SCAL		SOUTH BLUE SO GROVE RD.		RD. STOP SIGN MONUMENT #2 FIRE HYDRANT

STATION NAME: LANCATER #3  DATE: OCT & NOV. 2001  ADJUSTED HORIZONTAL CONTOL DATA  MONUMENT TYPE: 3 1/2" BRASS MON. STAMPED #3  ORDER: 2ND  SURVEY METHOD: GPS ■ OTHER □  CITY: LANCASTER  COUNTY: DALLAS  STATE: TX  COMBINED SCALE FACTOR: 0, 99884456  SURVEYOR: VANNOY & ASSOC, INC.  PREPARED BY: KCC  SURVEYOR: VANNOY & ASSOC, INC.  PREPARED BY: KCC  GRID DATA  OSCADINATES  PLANE AZIMUTH ANGLE (CONVERGENCE)  PLANE AZIMUTH ANGLE (CONVERGENCE)  STATE: TX  ZONE: NC  CODE: 4202  STATE: TX  ZONE: NC  COSCIDIATES  PLANE AZIMUTH ANGLE (CONVERGENCE)  PLANE AZIMUTH ANGLE (CONVERGENCE)  STATE: TX  ZONE: NC  CODE: 4202  STATE: TX  NAB 83  CORDINATES  PLANE AZIMUTH ANGLE (CONVERGENCE)  PLANE AZIMUTH ANGLE (CONVERGENCE)  STATE: TX  ZONE: NC  CODE: 4202  STATE: TX  NAB 83  CORDINATES  PLANE AZIMUTH ANGLE (CONVERGENCE)  PLANE AZIMUTH ANGLE (CONVERGENCE)  STATE: TX  NAB 83  CORDINATES  PLANE AZIMUTH ANGLE (CONVERGENCE)  AND 83  CORDINATES  PLANE AZIMUTH ANGLE (CONVERGENCE)  PLANE AZIMUTH ANGLE (CONVERGENCE)  PLANE AZIMUTH ANGLE (CONVERGENCE)  PLANE AZIMUTH ANGLE (CONVERGENCE)  AND 83  CORDINATES  PLANE AZIMUTH ANGLE (CONVERGENCE)  PLANE		GPS M	ONUMENT CO	NTROL	SHE	ET			
CITY: LANCASTER  COUNTY: DALLAS  STATE: TX  COMBINED SCALE FACTOR: 0.999884456  SURVEYOR: VANNOY & ASSOC., INC.  PREPARED BY: KCC  GRID DATA  CUS. SURVEY FEET)  FLANE AZIMUTH ANGLE (CONVERGENCE)  STATE: TX  ZONE: NC  CODE: 4202  STATE: TX  ZONE: NC  CODE:	STATION NAME: LANCATE	R #3	DATE: OCT & NOV. 2001		ADJUS	TED HORIZONTAL	CONTOL DA	ATA	
SURVEYOR: VANNOY & ASSOC., INC.  PREPARED BY: KCC  PROJECT NUMBER: 0107-012  DISTANCE & DIRECTIONS TO REFERENCES MARKS  8.4'  SOUTH  SOUTH SOUTH EDGE OF PAYMENT  7.3'  NORTHEAST  FIRE HYDRANT  7.0'  NORTHWEST  TELEPHONE PEDISTAL  STATE: TX  ZONE: NC  CODE: 4202  STATE: TX  ZONE: NC  CODE: 4202  STATE: TX  ZONE: NC  CODE: 4202  E 2495851.7432  DESCRIPTION TO POINT:  STAMPED ON IT BEING APPROXIMATELY 0.3' BELOW THE GROUND AT THE OF INTERSECTION OF SOUTH BLUE GROVE ROAD. AND BEAR CREEK ROAD. 7.0' NORTHMEST OF A FIRE HYDRANT, AND  7.0' NORTHMEST OF A TELEPHONE PEDISTAL.  BEAR GREEK RD  BE	MONUMENT TYPE: 3 1/2	" BRASS MON. STAMPE	D #3	ORDER: 2N	ID	SURVEY METHOL	o: GPS 🔳 O	THER 🗆	
SURVEYOR: VANNOY & ASSOC., INC.  PREPARED BY: KCC  PROJECT NUMBER: 0107-012  DISTANCE & DIRECTIONS TO REFERENCES MARKS  8.4'  SOUTH SOUTH BOUTH EDGE OF PAYMENT  7.3'  NORTHWEST TELEPHONE PEDISTAL  STATE: TX  ZONE: NC  CODE: 4202  E 2495851.7432  DESCRIPTION TO POINT:  STAMPED ON IT BEING APPROXIMATELY 0.3' BELOW THE GROUND AT THE OF INTERSECTION OF SOUTH BLUE GROVE ROAD AND BEAR CREEK ROAD. 7.3' NORTHEAST OF A FIRE HYDRANT, AND  7.0' NORTHWEST OF A TELEPHONE PEDISTAL.  BEAR CREEK RD. 64.7' 7.5' 1111"  MON. 1.3.  BEAR CREEK RD. 64.7' 7.5' 111"  BEAR CREEK RD. 64.7' 7.5' 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CITY: LANCASTER	COUNTY: DALLAS	STATE: TX	COMBINED	SCALE	FACTOR: 0.99988	34456		
DISANCE & DIRECTIONS TO REFERENCES MARKS  8.4' SOUTH SOUTH EDGE OF PAYMENT  7.3' NORTHEAST FIRE HYDRANT  7.0' NORTHWEST TELEPHONE PEDISTAL  STATE: TX  ZONE: NC  ZONE:	SURVEYOR: VANNOY & A	SSOC., INC. PRI	The state of the s		(	The state of the s			
8.4' SOUTH SOUTH EDGE OF PAYMENT 7.3' NORTHEAST FIRE HYDRANT 7.0' NORTHWEST TELEPHONE PEDISTAL  STATE: TX ZONE: NC CODE: 4202  STATE: TX CODE: 4202  E 2495851.7432  METRIC CONVERSION FACTOR: 3.2808333333  METRIC CONVERSION FACTOR: 3.28083333333  METRIC CONVERSION FACTOR: 3.28083333333  DESCRIPTION TO POINT:  GEODETIC DATA  1/2' BRASS CAP MITH 'CITY OF LANCATER MONUMENT NO. 3' STAMBED ON IT BEING APPROXIMATELY 0.3' BELOW THE ORGUND AT THE OF INTERSECTION OF SOUTH BLUE GROVE ROAD, NOTHER STORE AS COUNTY FOR THE SOUTH BEING APPROXIMATELY 0.3' BELOW THE ORGUND AT THE OF INTERSECTION OF SOUTH BLUE GROVE ROAD, NOTHER STORE AS FARE-MENT OF BEAR CREEK ROAD, 7.3' NORTHEAST OF A FIRE HYDRANT, AND 7.0' NORTHWEST OF A TELEPHONE PEDISTAL.  BEAR CREEK RO.  BEAR CREEK RO				and the state of the state of the state of	,		,		
7.3' NORTHEAST FIRE HYDRANT 7.0' NORTHWEST TELEPHONE PEDISTAL  STATE: TX ZONE: NC CODE: 4202  E 2495851.7432  DESCRIPTION TO POINT:  DESCRIPTION TO POINT:  STAMED ON IT BEING APPROXIMATELY 0.3' BELOW THE GROUND AT THE OF INTERSECTION OF SOUTH BLUE GROVE ROAD, MONUMENT IS LOCATED & 4' SOUTH OF THE SOUTH BEING FAPECHMENT OF BEAR CREEK ROAD, 7.0' NORTHMEST OF A FIRE HYDRANT, AND 7.0' NORTHMEST OF A TELEPHONE PEDISTAL  TELEPHONE PEDISTAL  NAD 83 CODE: 4202  METRIC CONVERSION FACTOR: 3.2808333333  METRIC CONVERSION FACTOR: 3.28083333333  METRIC CONVERSION FACTOR: 3.2808333333  METRIC CONVERSION FACTOR: 3.28083333333  METRIC CONVERSION FACTOR: 3.2808				CODE: 4202		N			
7.0' NORTHWEST TELEPHONE PEDISTAL  STATE: TX ZONE: NC CODE: 4202  E 2495851.7432  DESCRIPTION TO POINT:  3 1/2" BRASS CAP WITH "CITY OF LANCAIER MONUMENT NO. 3" STAMPED ON IT BEING APPROXIMATELY 0.3' BELOW THE GROUND AT THE OF INTERSECTION OF SOUTH BLUE GROVE ROAD, AND BEAR CREEK ROAD, 7.3' NORTHHEST OF A FIRE HYDRANT, AND 7.0' NORTHWEST OF A TELEPHONE PEDISTAL  ### NORTHWEST OF A TELEPHONE PEDISTAL  TELEPHONE PEDISTAL  STATE: TX ZONE: NC CODE: 4202  E 2495851.7432  D'56'00.932"  D'56'00.932"  D'56'00.932"  D'56'00.932"  D'56'00.932"  E 2495851.7432  D'56'00.932"  D'56									
ZONE: NC CODE: 4202  E 2495851.7432  METRIC CONVERSION FACTOR: 3.2808333333  METRIC CONVERSION FACTOR: 3.2808333333  METRIC CONVERSION FACTOR: 3.28083333333  METRIC CONVERSION FACTOR: 4.28083333333  METRIC CONVERSION FACTOR: 4.280833333333  METRIC CONVERSION FACTOR: 4.280833333333  METRIC CONVERSION FACTOR: 4.280833333333				(	The state of the s		PLANE AZIMUTH ANGLE		
METRIC CONVERSION FACTOR: 3.2808333333  DESCRIPTION TO POINT:  STAMPED ON IT BEING APPROXIMATELY 0.3' BELOW THE GROUND AT THE OF INVERSECTION OF SOUTH BLUE GROVE ROAD, MONUMENT IS LOCATED 8.4' SOUTH OF THE SOUTH EDGE OF FAVE—MENT OF BEAR CREEK ROAD, 7.3' NORTHAEST OF A FIRE HYDRANT, AND 7.0' NORTHMEST OF A TELEPHONE PEDISTAL.  METRIC CONVERSION FACTOR: 3.28083333333  BELEV: (FEET GEODETIC LATITUDE: 32'33'38.58669" NORTH LONGITUDE: 96'47'17.61111" WEST 601.1799  MONUMENT IS LOCATED 8.4' SOUTH OF THE SOUTH EDGE OF FAVE—MENT OF BEAR CREEK ROAD, 7.3' NORTHEAST OF A FIRE HYDRANT, AND 7.0' NORTHMEST OF A TELEPHONE PEDISTAL.  MON. # 3  BEAR CREEK RD 7.4' 7.3' 7.0'  POSITION NAD 27 NORTH NAB 3 ELEV: (FEET GEODETIC LATITUDE: 32'33'38.58669" NORTH GOIL 1799  MONUMENT IS LOCATED 8.4' SOUTH OF THE SOUTH EDGE OF FAVE—MENT OF BEAR CREEK ROAD, 7.3' NORTHEAST OF A FIRE HYDRANT, AND 7.0' NORTHMEST OF A TELEPHONE PEDISTAL.  MON. # 3  BEAR CREEK RD 7.4' 7.3' 7.0'  POSITION NAD 27 NORTH NAB 3 ELEV: (FEET GEODETIC LATITUDE: 32'33'38.58669" NORTH GOIL 1799  MON. # 3  BEAR CREEK RD 7.4' 7.5' 7.5' 7.0'  POSITION NAD 27 NORTH NAB 3 ELEV: (FEET GEODETIC LATITUDE: 32'33'38.58669" NORTH GOIL 1799  MON. # 3  BEAR CREEK RD 7.4' 7.5' 7.5' 7.5' 7.5' 7.5' 7.5' 7.5' 7.5				ZONE: NC			0.56,00.9	32"	
DESCRIPTION TO POINT:    POSITION   NAD 27   NAD 83   ELEV: (FEET OF LANCATER MONUMENT NO. 3" STAMPED ON IT BEING APPROXIMATELY 0.3' BELOW THE GROUND AT THE OF INTERSECTION OF SOUTH BLUE GROVE ROAD AND BEAR CREEK ROAD, MONUMENT IS LOCATED 8.4' SOUTH OF THE SOUTH EDGE OF PAVEMENT OF BEAR CREEK ROAD, 7.3' NORTHWEST OF A FIRE HYDRANT, AND 7.0' NORTHWEST OF A TELEPHONE PEDISTAL.    POSITION   NAD 27   NAD 83   ELEV: (FEET OF DATA LAND 1.1') NORTH CONTROL OF THE SOUTH EDGE OF PAVEMENT OF BEAR CREEK ROAD, 7.3' NORTHWEST OF A FIRE HYDRANT, AND 7.0' NORTHWEST OF A TELEPHONE PEDISTAL.    BEAR CREEK RD.				4			0000777777		
T TO SCALE	DESCRIPTION TO POINT:  3 1/2" BRASS CAP WI STAMPED ON IT BEING INTERSECTION OF SOUT MONUMENT IS LOCATED MENT OF BEAR CREEK	TH "CITY OF LANCATER MON APPROXIMATELY 0.3' BELOW H BLUE GROVE ROAD AND E 8.4' SOUTH OF THE SOUT ROAD, 7.3' NORTHEAST OF	UMENT NO. 3"  THE GROUND AT THE OF BEAR CREEK ROAD, H EDGE OF PAVE—	GEODETIC DATA	POSITION LATITUDE LONGITUI CH:	NAD 27  E: 32°33'38.58669" DE: 96°47'17.61111"  OUT THE BLUE ON THE BLUE OF TH	NAD 83  NORTH WEST	601.1799	

STATION NAME: LANCATER #4  MONUMENT TYPE: 3 1/2" BRA  CITY: LANCASTER  SURVEYOR: VANNOY & ASSOC.  PROJECT NUMBER: 0107-012  THE TRANSPORT OF THE TOTAL OF THE TOT	COUNTY: DALLAS	S STATE: TX EPARED BY: KCC	ORDER: 2N COMBINED S NAD 27 GRID DATA STATE: TX ZONE: NC CODE: 4202	CALE FACTOR: 0.99  COORDINATES (U.S. SURVEY FEE  COORDINATES	PLANE AZIMUTH ANGLE (CONVERGENCE)  THE PLANE AZIMUTH ANGLE PLANE AZIMUTH ANGLE
CITY: LANCASTER  SURVEYOR: VANNOY & ASSOC.  PROJECT NUMBER: 0107-012  JUNIOR MARKET MA	COUNTY: DALLAS , INC. PRI  ONS TO REFEREN	STATE: TX  EPARED BY: KCC  MUMINIMUM MUMINIMUM  NCES MARKS  CL OF BEAR CREEK ROAD  EDGE PAVEMENT OF SOUTH	COMBINED S  NAD 27 GRID DATA  STATE: TX ZONE: NC CODE: 4202  NAD 83	CALE FACTOR: 0.99  COORDINATES (U.S. SURVEY FEE  COORDINATES	PLANE AZIMUTH ANGLE (CONVERGENCE)  THE PLANE AZIMUTH ANGLE (CONVERGENCE)
SURVEYOR: VANNOY & ASSOC.  PROJECT NUMBER: 0107-012  BURNING AND	ONS TO REFEREN	EPARED BY: KCC  MINIMULATION OF SOUTH	NAD 27 GRID DATA STATE: TX ZONE: NC CODE: 4202	COORDINATES (U.S. SURVEY FEE	PLANE AZIMUTH ANGLE (CONVERGENCE)  THE PLANE AZIMUTH ANGLE PLANE AZIMUTH ANGLE
SURVEYOR: VANNOY & ASSOC.  PROJECT NUMBER: 0107-012  BURNING AND	ONS TO REFEREN	EPARED BY: KCC  MINIMULATION OF SOUTH	GRID DATA  STATE: TX  ZONE: NC  CODE: 4202  MAD 83	(U.S. SURVEY FEE	T) (CONVERGENCE)  THE STATE OF
DISTANCE & DIRECTION +/- 309'	ONS TO REFEREN	CL OF BEAR CREEK ROAD EDGE PAVEMENT OF SOUTH	ZONE: NC CODE: 4202 MAINTAINTAINTAINTAINTAINTAINTAINTAINTAINT	COORDINATES	PLANE AZIMUTH ANGLE
		EDGE PAVEMENT OF SOUTH	NAD 83	COORDINATES	PLANE AZIMUTH ANGLE
17.5'	EAST		NAD 83	COORDINATES	PLANE AZIMUTH ANGLE
				(U.S. SURVEY FEE	T) (CONVERGENCE)
			STATE: TX ZONE: NC CODE: 4202	N 6890835.4443 E 2490570.0513	0*55'27.236"
	A	The real control of the	METRIC CON	VERSION FACTOR:	3.2808333333
DESCRIPTION TO POINT:  3 1/2" BRASS CAP WITH "CIT STAMPED ON IT BEING APPRO THE INTERSECTION OF SOUTH ROAD, MONUMENT IS LOCATED BEAR CREEK ROAD, AND 17.5 HOUSTON SCHOOL ROAD.	Y OF LANCATER MON XIMATELY 0.3' BELOW HOUSTON SCHOOL RO 0 +/- 309' SOUTH O	IUMENT NO. 4" V THE GROUND SOUTH OF DAD AND BEAR CREEK OF THE CENTERLINE OF	GEODETIC LA DATA LO TAMBLE SKETO	OSITION NAD 27 ATITUDE: 32'33'35.51870 ONGITUDE: 96'48'19.394	O" NORTH 588 7492

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STATION NAME: LANCATER #5  MONUMENT TYPE: 3 1/2" BRA  CITY: LANCASTER  SURVEYOR: VANNOY & ASSOC  PROJECT NUMBER: 0107-012  ZITATION AND AND AND AND AND AND AND AND AND AN	COUNTY: DALLAS  COUNTY: DALLAS  INC. PRE  ONS TO REFERE  WEST  NORTH  WEST	STATE: TX  EPARED BY: KCC	ORDER: 2ND COMBINED SO NAD 27 GRID DATA STATE: TX ZONE: NC CODE: 4202	CALE FACTOR: 0.99885 COORDINATES (U.S. SURVEY FEET)	O: GPS OTHER  5381  PLANE AZIMUTH ANGLE  (CONVERGENCE)			
CITY: LANCASTER  SURVEYOR: VANNOY & ASSOC  PROJECT NUMBER: 0107-012  DISTANCE & DIRECTI  90.1'  12.8'  6.2'	COUNTY: DALLAS  INC. PRE  ONS TO REFERE  WEST  NORTH  WEST	STATE: TX  EPARED BY: KCC  MULLINIAN	COMBINED SO NAD 27 GRID DATA STATE: TX ZONE: NC CODE: 4202 MAD 83 GRID DATA	CALE FACTOR: 0.99885  COORDINATES (U.S. SURVEY FEET)	PLANE AZIMUTH ANGLE (CONVERGENCE)  THE STATE OF THE STATE			
CITY: LANCASTER  SURVEYOR: VANNOY & ASSOC  PROJECT NUMBER: 0107-012  INTURNITATION INTURNITATION  DISTANCE & DIRECTI  90.1'  12.8'  6.2'	COUNTY: DALLAS  INC. PRE  ONS TO REFERE  WEST  NORTH  WEST	STATE: TX  EPARED BY: KCC  MULLINIAN	NAD 27 GRID DATA  STATE: TX ZONE: NC CODE: 4202 MAD 83 GRID DATA	COORDINATES (U.S. SURVEY FEET)	PLANE AZIMUTH ANGLE (CONVERGENCE)  THE STATE OF THE STATE			
SURVEYOR: VANNOY & ASSOCIATION OF THE PROJECT NUMBER: 0107-012  DISTANCE & DIRECTION OF THE PROJECT OF THE PROJ	ONS TO REFEREN	PARED BY: KCC  MULLINIAN M	NAD 27 GRID DATA  STATE: TX ZONE: NC CODE: 4202 MAD 83 GRID DATA	COORDINATES (U.S. SURVEY FEET)	PLANE AZIMUTH ANGLE (CONVERGENCE)  THE STATE OF THE STATE			
DISTANCE & DIRECTI 90.1' 12.8' 6.2'	ONS TO REFEREN	WEST END OF GUARD RAIL NORTH EGDE OF W. MAIN	STATE: TX ZONE: NC CODE: 4202 NAD 83 GRID DATA	COORDINATES	PLANE AZIMUTH ANGLE			
12.8' 6.2'	NORTH WEST	NORTH EGDE OF W. MAIN	NAD 83 GRID DATA	COORDINATES	PLANE AZIMUTH ANGLE			
6.2'	WEST		NAD 83 GRID DATA	COORDINATES	PLANE AZIMUTH ANGLE			
			1777	(O.S. SONALI ILLI)				
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		ZONE: NC CODE: 4202	N 6899656.8623 E 2496206.8983	0'56'04.071"			
			METRIC CON	VERSION FACTOR: 3.	2808333333			
DESCRIPTION TO POINT:  3 1/2" BRASS CAP WITH "CI STAMPED ON IT BEING APPRITHE INTERSECTION OF SOUTH MONUMENT IS LOCATED 90.1" THE NORTH SIDE OF WEST MAIN OF PAVEMENT OF WEST MAIN WESTERLY POST OF A SIGN.	OXIMATELY 0.3' BELOW BLUE GROVE ROAD A WEST OF THE WEST I AIN STREET, 12.8' NOR	THE GROUND NORTH OF AND WEST MAIN STREET, END OF A GUARDRAIL ON RTH EDGE	GEODETIC LA DATA LO FIELD SKETC	H: NOW # 5 90 90 12.8	NAD 83 ELEV: (FEET)  NORTH WEST  STILLIFICATION AND MALE  FRO SIGN  A MONUMENT AS			

	GPS M	ONUMENT CO	NIKUL.	SMELI	
STATION NAME: LANCATE	7 #6	DATE: OCT & NOV. 2001	A	DJUSTED HORIZONTAL	L CONTOL DATA
MONUMENT TYPE: 3 1/2"	BRASS MON. STAMPEL	7 #6	ORDER: 2N	D SURVEY METHO	D: GPS <b>I</b> OTHER
CITY: LANCASTER	COUNTY: DALLAS	STATE: TX	COMBINED S	CALE FACTOR: 0.9998	
SURVEYOR: VANNOY & A	SSOC., INC. PRE	PARED BY: KCC			PLANE AZIMUTH ANGLE (CONVERGENCE)
PROJECT NUMBER: 0107-	-012 MANAGEMENT TO REFEREN		STATE: TX ZONE: NC	(0.3. 30117221)	(OOM ENGENOE)
66'	SOUTHWEST	POWER POLE IN A CEDAR	CODE: 4202		
6.3'	NORTH	NORTH EGDE OF W. MAIN	NAD 83 GRID DATA	COORDINATES (U.S. SURVEY FEET)	PLANE AZIMUTH ANGLE  (CONVERGENCE)
			STATE: TX ZONE: NC CODE: 4202	N 6898999.1492 E 2491284.0401	0.55'32.626"
	17/2011 17/3/24/31	7-743445741	METRIC CON	VERSION FACTOR: 3	3.2808333333
				OSITION NAD 27	NAD 83 ELEV: (FEET)
STAMPED ON IT BEING .	H "CITY OF LANCATER MONI APPROXIMATELY 0.3' BELOW IORTH HOUSTON SCHOOL RO	THE GROUND NORTH OF	GEODETIC DATA L	ATITUDE: 32°34'56.17834" ONGITUDE: 96°48'09.51136"	NORTH 512 4708'
CEDAR TREE, AND 6.3' MAIN STREET.	LOCATED 66' SOUTHWEST OF NORTH OF THE NORTH EDGE	F POWER POLE IN A BIG		BLUE GROVE ROAD  WOW  SET 19 19 19 19 19 19 19 19 19 19 19 19 19	MAIN STREET  MONUMENT IN  POWER POLE  O GEDAR TREE

	GPS M	DNUMENT CO	NTROL	SHEET	
STATION NAME: LANCATE	R #7	DATE: OCT & NOV. 2001		ADJUSTED HORIZON	TAL CONTOL DATA
MONUMENT TYPE: 3 1/2"	BRASS MON. STAMPED	#7	ORDER: .	2ND SURVEY MET	HOD: GPS ■ OTHER □
CITY: LANCASTER	COUNTY: DALLAS	STATE: TX	COMBINED	SCALE FACTOR: 0.99	9882356
SURVEYOR: VANNOY & A		PARED BY: KCC	NAD 27	COORDINATES	PLANE AZIMUTH ANGLE
PROJECT NUMBER: 0107	7-012 THE THE THE THE THE THE THE THE THE THE		ZONE: NC		T) (CONVERGENCE)
41.3'	NORTH	CENTER OF A STORM	CODE: 4202		
0.4'		DRAIN MANHOLE	NAD 83	COORDINATES	PLANE AZIMUTH ANGLE
0.4	EAST	EAST EDGE OF SIDEWALK	GRID DATA		
			STATE: TX ZONE: NC CODE: 4202	N 6903076.2492 E 2495691.6682	0.56'01.143"
					7.000077777
*************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			ONVERSION FACTOR:	3.2808333333
DESCRIPTION TO POINT:				POSITION NAD 27	□ NAD 83 ■ ELEV: (FEET)
DESCRIPTION TO TORT.			GEODETIC DATA	LATITUDE: 32°35'35.8104' LONGITUDE: 96°47'17.226	547 4262
STAMPED ON IT BEING THE INTERSECTION OF I IS LOCATED NORTH OF	TH "CITY OF LANCATER MONU APPROXIMATELY 0.3" BELOW NORTH BLUE GROVE ROAD AN THE EXIT OF A SCHOOL, 41 INHOLE, AND 0.4" EAST OF TI	THE GROUND NORTH OF D BELTLINE, MONUMENT 3' NORTH OF THE CENTER	FIELD SKE		
SIDEWALK.			T TO SCA	WEST BELTLINE GROVE RG	SCHOOL  SCHOOL  MONUMENT #7 9. STORM DRAIN

	GPS N	MONUMENT CO	NTROL	SHEET	
STATION NAME: LANCAST	TER #8	DATE: OCT & NOV. 2001		ADJUSTED HORIZONTAL	CONTOL DATA
MONUMENT TYPE: 3 1/2	" BRASS MON. STAMP	ED #8	ORDER: 21	D SURVEY METHO	D: GPS <b>O</b> THER
CITY: LANCASTER	COUNTY: DALLA	AS STATE: TX	COMBINED	SCALE FACTOR: 0.9998	82445
SURVEYOR: VANNOY & A	YAZZI FIZIKI KANDININ KANDINI	REPARED BY: KCC	NAD 27 GRID DATA	COORDINATES (U.S. SURVEY FEET)	PLANE AZIMUTH ANGLE (CONVERGENCE)
PROJECT NUMBER: 0107			STATE: TX ZONE: NC CODE: 4202		
20.6	SOUTH	EDGE OF PAVEMENT BELTLINE	24.00		
54.4' +-93'		SPEED LIMIT SIGN EAST OF EDGE OF PAVEMENT	NAD 83	COORDINATES	PLANE AZIMUTH ANGLE (CONVERGENCE)
		HOUSTON SCHOOL ROAD	STATE: TX ZONE: NC CODE: 4202	N 6902699.7137 E 2490424.2161	0*55'27.527
				NVERSION FACTOR: 3	5.2808333333
STAMPED ON IT BEING SOUTH OF THE EDGE ( ROAD, 54.4' SOUTHWE:	TH "CITY OF LANCATER MO APPROXIMATELY 0.3" BELO OF PAVEMENT OF THE SOU ST OF SPEED LIMIT SIGN, A ENT OF NORTH HOUSTON S	W THE GROUND, 20.6' TH EDGE OF WEST BELTLINE ND +-93' EAST OF THE	GEODETIC DATA		20.6' WEST BELTLINE ROAD
			T TO SCAL	E	

	GPS M	IONUMENT CO	NTROL	SHEET	
STATION NAME: LANCAST	ER #9	DATE: OCT & NOV. 2001		ADJUSTED HORIZONTA	AL CONTOL DATA
MONUMENT TYPE: 3 1/2'	BRASS MON. STAMPE	ED #9	ORDER: 21	ND SURVEY METH	OD: GPS <b>I</b> OTHER
CITY: LANCASTER	COUNTY: DALLA	S STATE: TX	COMBINED	SCALE FACTOR: 0.999	879523
SURVEYOR: VANNOY & A	SSOC., INC. PR	PEPARED BY: KCC	NAD 27 GRID DATA	COORDINATES (U.S. SURVEY FEET)	PLANE AZIMUTH ANGLE (CONVERGENCE)
PROJECT NUMBER: 0107			STATE: TX ZONE: NC		(CONVENGENCE)
0.4'	NORTHEAST	INSIDE ELL OF BACK OF CURB			
			NAD 83 GRID DATA	COORDINATES	PLANE AZIMUTH ANGLE (CONVERGENCE)
			STATE: TX ZONE: NC CODE: 4202	N 6906991.2760 E 2495967.6655	0'56'03.309"
			METRIC CO	ONVERSION FACTOR:	3.2808333333
DESCRIPTION TO POINT: 3 1/2" BRASS CAP WI STAMPED ON IT BEING	TH "CITY OF LANCATER MON APPROXIMATELY 0.3' BELOV	NUMENT NO. 9"	GEODETIC DATA	POSITION NAD 27  LATITUDE: 32°36'14.50201"  LONGITUDE: 96°47'13.2540	575 8654
OF A PARKING ISLAND, ROAD AND WEST PLEAS ENTRANCE INTO SHOPP	NEAR THE INTERSECTION OF SANT RUN ROAD BEING EAS ING CENTER ALONG WEST P EXT ENTRANCE EAST ON WE	OF NORTH BLUE GROVE ST OF THE MOST WESTERLY PLEASANT RUN ROAD YET		MOONTH BLUE GROVE ROAD  WENTH BLUE GROVE  WASHERON  WOONTDS  WHINN  WICH CAROLE  WANN  WASHERON  WANN  WANN	WEST PLEASANT RUN ROAD  NON. # 9  MANUARY PARAMETERS A MONUMENT PO

	GPS M	ONUMENT CO	NTROL S	HEET	
STATION NAME: LANCAST	ER #10	DATE: OCT & NOV. 2001	AD	JUSTED HORIZONTAL	CONTOL DATA
MONUMENT TYPE: 3 1/2'	BRASS MON. STAMPE	D #10	ORDER: 2ND	SURVEY METHOL	D: GPS <b>III</b> OTHER 🗆
CITY: LANCASTER	COUNTY: DALLAS	STATE: TX	COMBINED SC	ALE FACTOR: 0.9998	79356
SURVEYOR: VANNOY & A	SSOC., INC. PRE	EPARED BY: KCC	NAD 27 GRID DATA	COORDINATES (U.S. SURVEY FEET)	PLANE AZIMUTH ANGLE (CONVERGENCE)
PROJECT NUMBER: 0107	7-012 THE THE RECTIONS TO REFEREN			(O.S. SONYET VEET)	(CONTENDED)
30.3'	EAST	LIGHT POLE	Present Newson		
12.7'	NORTH	SOUTH BACK OF CURB OF MEDIAN	NAD 83 GRID DATA	COORDINATES (U.S. SURVEY FEET)	PLANE AZIMUTH ANGLE  (CONVERGENCE)
			STATE: TX ZONE: NC CODE: 4202	N 6906968.0153 E 2490024.9691	0'55'25.420"
			METRIC CONV	ERSION FACTOR: 3.	2808333333
STAMPED ON IT BEING THE INTERSECTION OF I RUN ROAD, 30.3' EAST	TH "CITY OF LANCATER MONI APPROXIMATELY 0.3' BELOW NORTH HOUSTON SCHOOL RO OF THE SECOND LIGHT POL HE SOUTH BACK OF CURB O	THE GROUND, WEST OF DAD AND WEST PLEASANT E FROM INTERSECTION.	GEODETIC LA LOI		SCHOOL ROAD

4.

	GPS M	ONUMENT CO	NTROL	SHE	EET	76 M From a 10.0	
STATION NAME: LANCAST	TER #11	DATE: OCT & NOV. 2001		ADJUSTED HORIZONTAL CONTOL DATA			
MONUMENT TYPE: 3 1/2	" BRASS MON. STAMPE	D #11	ORDER: 2	ND	SURVEY METHOD	): GPS 🔳 OTHER 🗆	
CITY: LANCASTER	COUNTY: DALLAS	STATE: TX	COMBINED	SCALE	FACTOR: 0.99987	74888	
SURVEYOR: VANNOY & A		EPARED BY: KCC	NAD 27	1 12	COORDINATES (U.S. SURVEY FEET)	PLANE AZIMUTH ANGLE (CONVERGENCE)	
PROJECT NUMBER: 0107	7-012		GRID DATA STATE: TX ZONE: NC CODE: 4202		(U.S. SURVET FEET)	(CONVERGENCE)	
17.2'	EAST	EAST EDGE OF PAVEMENT	Section Study				
33'	SOUTH	SOUTH POWER POLE	COORDINATES	PLANE AZIMUTH ANGLE			
40' SOUTHWEST	SOUTHWEST	GUY ANCHOR	GRID DATA		(U.S. SURVEY FEET)	(CONVERGENCE)	
			STATE: TX ZONE: NC CODE: 4202		6912195.3980 2490176.3160	0*55*26.923"	
All Land Action and Action St.	VVIII PLEATER		METRIC C	ONVERS	SION FACTOR: 3.	2808333333	
DESCRIPTION TO POINT:			7	POSITIO	N NAD 27	NAD 83 ELEV: (FEET	
			GEODETIC DATA	LONGIT	DE: 32*37'06.92213" UDE: 96*48'19.96897"	NORTH WEST 632.3728	
	TH "CITY OF LANCATER MON APPROXIMATELY 0.3' BELOW		FIELD SKE	TCH:			
THE INTERSECTION OF WINTERGREEN ROAD, 1	NORTH HOUSTON SCHOOL R 7.2' EAST OF THE EAST EDG OOL ROAD, 33' SOUTH OF A	OAD AND EAST OF PAVEMENT OF				▲ MONUMENT IN 1  OF POHER POLE  OUY ANCHOR	
			EAS	T WNTERO	GREEN ROAD 33 1/40'	# 11	
					avo		
					DOL R		
			1		ON SC		
			Ĭ		I E	MINTERGREEN ROAD	
			4		NORTH		

	GPS N	IONUMENT CO	NTROL	SHEET			
STATION NAME: LANCAS	TER #12	DATE: OCT & NOV. 2001	,	ADJUSTED	HORIZONTAL	CONTOL DA	TA
MONUMENT TYPE: 3 1/2	" BRASS MON. STAMPE	ED #12	ORDER: 2	ND SU	RVEY METHOL	D: GPS I OT	HER 🗆
CITY: LANCASTER	COUNTY: DALLA	S STATE: TX	COMBINED	SCALE FAC	TOR: 0.99987	72761	
SURVEYOR: VANNOY &	TOTAL STREET,	EPARED BY: KCC	NAD 27		ORDINATES	PLANE AZIMU	
PROJECT NUMBER: 010	7-012	NAME MARKS	ZONE: NC	(0.5. 3	SURVEY FEET)	(CONVERG	ENCE)
36.6'	NORTHWEST	FIRE HYDRANT	CODE: 4202				
24.7'	NORTHWEST	STOP SIGN					
5*	EAST	BACK OF CURB OF NORTH HOUSTON SCHOOL ROAD	NAD 83 GRID DATA		ORDINATES SURVEY FEET)	PLANE AZIMU (CONVERG	
			STATE: TX ZONE: NC CODE: 4202	N 69164.		0.55'26.8	56"
A CONTRACTOR OF THE PERSON OF			METRIC CO	NVFRSION F	ACTOR: 3.	2808333333	
STAMPED ON IT BEING	ITH "CITY OF LANCATER MOI G APPROXIMATELY 0.3" BELOV	V THE GROUND, AT THE	DATA	LONGITUDE: 9	"37'48.88970" 96'48'20.09218" 	NORTH WEST	645.3488
ROAD AND CEDARDAL NORTHWEST OF A STO	OF THE INTERSECTION OF NO E ROAD, 36.6' NORTHWEST O OP SIGN, AND 5' EAST OF TH OOL ROAD AND ALSO BEING DEWALK.	OF FIRE HYDRANT, 24.7' HE EAST BACK OF CURB OF			ROAD		A MONUMENT J12  FIRE HYDRANT  FIGN POST
			T TO SCALL		STON SCHOOL	12 DALE ROAD	

### GPS MONUMENT CONTROL SHEET ADJUSTED HORIZONTAL CONTOL DATA STATION NAME: LANCASTER #10 DATE: OCT & NOV. 2001 MONUMENT TYPE: 3 1/2" BRASS MON. STAMPED #10 SURVEY METHOD: GPS . OTHER . ORDER: 2ND COMBINED SCALE FACTOR: 0.999879356 STATE: TX CITY: LANCASTER COUNTY: DALLAS COORDINATES PLANE AZIMUTH ANGLE NAD 27 SURVEYOR: VANNOY & ASSOC., INC. PREPARED BY: KCC (CONVERGENCE) (U.S. SURVEY FEET) GRID DATA PROJECT NUMBER: 0107-012 UNIONALIANI DI CONTROLLA DI LA CONTROLLA DI LA CONTROLLA DI LA CONTROLLA DI LA CONTROLLA STATE: TX ZONE: NC DISTANCE & DIRECTIONS TO REFERENCES MARKS CODE: 4202 30.3 EAST LIGHT POLE NANGANAN KANTAN KAN 12.7' SOUTH BACK OF NORTH PLANE AZIMUTH ANGLE NAD 83 COORDINATES CURB OF MEDIAN (U.S. SURVEY FEET) (CONVERGENCE) GRID DATA STATE: TX N 6906968.0153 ZONE: NC 0.55'25.420" E 2490024.9691 CODE: 4202 METRIC CONVERSION FACTOR: 3.2808333333 POSITION NAD 27 NAD 83 ELEV: (FEET) DESCRIPTION TO POINT: GEODETIC LATITUDE: 32'36'15.22530" NORTH DATA 578.9422 LONGITUDE: 96'48'22.72375" WEST 3 1/2" BRASS CAP WITH "CITY OF LANCATER MONUMENT NO. 10" FIELD SKETCH: STAMPED ON IT BEING APPROXIMATELY 0.3' BELOW THE GROUND, WEST OF THE INTERSECTION OF NORTH HOUSTON SCHOOL ROAD AND WEST PLEASANT RUN ROAD, 30.3' EAST OF THE SECOND LIGHT POLE FROM INTERSECTION, AND 12.7' NORTH OF THE SOUTH BACK OF CURB OF THE MEDIAN. 30.3' MON. & WEST PLEASANT RUN ROAD

0

T TO SCALE

A MONUMENT PO O LIGHT POLE

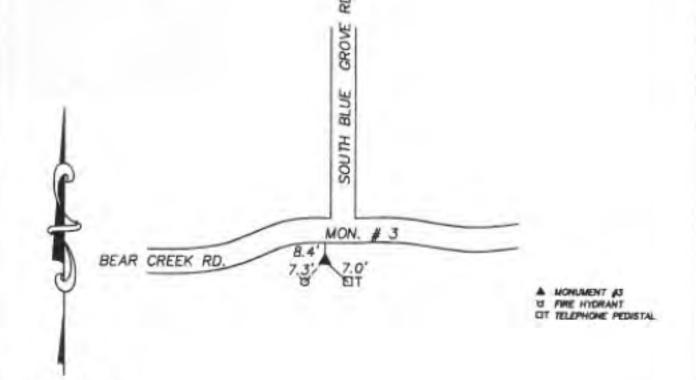
## GPS MONUMENT CONTROL SHEET ADJUSTED HORIZONTAL CONTOL DATA STATION NAME: LANCASTER #11 DATE: OCT & NOV. 2001 SURVEY METHOD: GPS . OTHER . ORDER: 2ND MONUMENT TYPE: 3 1/2" BRASS MON. STAMPED #11 COMBINED SCALE FACTOR: 0.999874888 STATE: TX COUNTY: DALLAS CITY: LANCASTER PLANE AZIMUTH ANGLE COORDINATES NAD 27 SURVEYOR: VANNOY & ASSOC., INC. PREPARED BY: KCC (CONVERGENCE) GRID DATA (U.S. SURVEY FEET) PROJECT NUMBER: 0107-012 THE TX ZONE: NC DISTANCE & DIRECTIONS TO REFERENCES MARKS CODE: 4202 17.2" EAST EAST EDGE OF PAVEMENT POWER POLE 33' SOUTH PLANE AZIMUTH ANGLE COORDINATES NAD 83 40' GUY ANCHOR SOUTHWEST (CONVERGENCE) (U.S. SURVEY FEET) GRID DATA N 6912195.3980 STATE: TX 0'55'26.923" ZONE: NC E 2490176.3160 CODE: 4202 METRIC CONVERSION FACTOR: 3.2808333333 ELEV: (FEET) NAD 83 NAD 27 POSITION DESCRIPTION TO POINT: GEODETIC LATITUDE: 32'37'06.92213" NORTH 632.3728 DATA LONGITUDE: 96'48'19.96897" WEST 3 1/2" BRASS CAP WITH "CITY OF LANCATER MONUMENT NO. 11" FIELD SKETCH: STAMPED ON IT BEING APPROXIMATELY 0.3' BELOW THE GROUND, SOUTH OF THE INTERSECTION OF NORTH HOUSTON SCHOOL ROAD AND EAST WINTERGREEN ROAD, 17.2' EAST OF THE EAST EDGE OF PAVEMENT OF A MONUMENT ATT -Q POWER POLE NORTH HOUSTON SCHOOL ROAD, 33' SOUTH OF A POWER POLE, AND 40' DOLLAR AMOHOR SOUTHWEST OF A GUY ANCHOR. EAST WINTERGREEN ROAD 17 2 MON. # 11 SCHOOL WEST WINTERGREEN ROAD NORTH T TO SCALE

	GPS M	ONUMENT CO	NTROL :	SHE	EET		
STATION NAME: LANCAT	ER #2	DATE: OCT & NOV. 2001	AL	JUS	TED HORIZONTAL	CONTOL DAT	A
MONUMENT TYPE: 3 1/2	" BRASS MON. STAMPE	D #2	ORDER: 2N	D	SURVEY METHOD	: GPS TOTH	IER 🗆
CITY: LANCASTER	COUNTY: DALLA	Certain Certain	COMBINED S	CALE	FACTOR: 0.99988	4104	
SURVEYOR: VANNOY &	7020 - 201	EPARED BY: KCC	NAD 27 GRID DATA		COORDINATES (U.S. SURVEY FEET)	PLANE AZIMUT (CONVERGE	and the same of th
		NCES MARKS					
DISTANCE & D	NORTH	NORTH EDGE OF PAYMENT	CODE: 4202				
9.2'	SOUTHEAST	FENCE CORNER	the contract of the contract o	THE THE	the state of the s		
5.5	EAST	STOP SIGN	NAD 83		COORDINATES (U.S. SURVEY FEET)	PLANE AZIMU	
49.6'	WEST	FIRE HYDRANT	GRID DATA	+	(U.S. SURVET FEET)	(CONVENSE	INCE
			STATE: TX ZONE: NC		6894689.1047	0.56,07.96	52"
			CODE: 4202	E	2496898.4954		
			LIBRARY TO THE SAME	VERS	SION FACTOR: 3.2	2808333333	
<i>naunaugannaununu</i>			And the second s	OSITIO		NAD 83	ELEV: (FEET)
DESCRIPTION TO POINT	•		GEODETIC L	ATITUE	DE: 32'34'12.63140" UDE: 96'47'04.72168"	NORTH WEST	579.4481
STAMPED ON IT BEING	MTH "CITY OF LANCATER MO G APPROXIMATELY 0.3' BELOW	V GROUND AT THE	FIELD SKETC	1111111			
BLUE GROVE ROAD, MO OF PAVEMENT OF TEN	OF THE INTERSECTION OF TEL HONUMENT IS LOCATED 3.5' IN MILE LANE, 9.2' SOUTHEAS P SIGN, AND 49.6' WEST OF	ORTH OF THE NORTH EDGE T OF A FENCE CORNER,			S.S. RO.	2' 49.6' FENCE N. # 2 TEN MILE R	<u>o.</u>
			5		SOUTH BLUE	9	STOP SIGN WORLDENT (IZ PIRE HYDRANT

T TO SCALE

	GPS N	IONUMENT CO	NIROL	SHE	El			
STATION NAME: LANCATER #3 DATE: OCT & NOV. 2001			ADJUSTED HORIZONTAL CONTOL DATA					
MONUMENT TYPE: 3 1/	2" BRASS MON. STAMP	ORDER: 2ND SURVEY METHOD: GPS TOTHER TO				HER 🗆		
CITY: LANCASTER	COUNTY: DALLA	COMBINED	SCALE	FACTOR: 0.99988	4456			
SURVEYOR: VANNOY &	ASSOC., INC. PE	NAD 27 GRID DAT	NAD 27 COORDINATES GRID DATA (U.S. SURVEY FEET)		PLANE AZIMUTH ANGLE (CONVERGENCE)			
DISTANCE &		ENCES MARKS	STATE: TX ZONE: NC			(30,112,13		
8.4'	SOUTH	SOUTH EDGE OF PAYMENT	CODE: 4202	?				
7.3'	NORTHEAST	FIRE HYDRANT						
7.0*	NORTHWEST	TELEPHONE PEDISTAL	GRID DATA	4 (	(U.S. SURVEY FEET)	PLANE AZIMU (CONVERG		
			STATE: TX ZONE: NC CODE: 4202		6891231.1607 2495851.7432	0.56,00.93	2**	
	II		METRIC C	ONVERS	ION FACTOR: 3.2	2808333333		
DESCRIPTION TO POINT				POSITIO	N NAD 27	NAD 83	ELEV: (FEET)	
DESCRIPTION TO TOMY			GEODETIC DATA	LATITUD	E: 32'33'38.58669" IDE: 96'47'17.61111"	NORTH WEST	601.1799	
STAMPED ON IT BEIN	WITH "CITY OF LANCATER MOI G APPROXIMATELY 0.3' BELO	W THE GROUND AT THE OF	FIELD SKE	TCH:				
INTERSECTION OF SOUTH BLUE GROVE ROAD AND BEAR CREEK ROAD, MONUMENT IS LOCATED 8.4' SOUTH OF THE SOUTH EDGE OF PAVE— MENT OF BEAR CREEK ROAD, 7.3' NORTHEAST OF A FIRE HYDRANT, AND 7.0' NORTHWEST OF A TELEPHONE PEDISTAL.					LUE GROVE RD.			
					H BE			

T TO SCALE



## GPS MONUMENT CONTROL SHEET ADJUSTED HORIZONTAL CONTOL DATA STATION NAME: LANCATER #4 DATE: OCT & NOV. 2001 SURVEY METHOD: GPS - OTHER -ORDER: 2ND MONUMENT TYPE: 3 1/2" BRASS MON. STAMPED #4 COMBINED SCALE FACTOR: 0.999885184 COUNTY: DALLAS STATE: TX CITY: LANCASTER COORDINATES PLANE AZIMUTH ANGLE NAD 27 PREPARED BY: KCC SURVEYOR: VANNOY & ASSOC., INC. (CONVERGENCE) (U.S. SURVEY FEET) GRID DATA PROJECT NUMBER: 0107-012 AND CONTROL OF THE PROPERTY OF ZONE: NC DISTANCE & DIRECTIONS TO REFERENCES MARKS CODE: 4202 +/- 309' SOUTH CL OF BEAR CREEK ROAD EAST 17.5' EDGE PAVEMENT OF SOUTH PLANE AZIMUTH ANGLE COORDINATES NAD 83 HOUSTON SCHOOL ROAD (CONVERGENCE) GRID DATA (U.S. SURVEY FEET) STATE: TX N 6890835.4443 0'55'27.236" ZONE: NC E 2490570.0513 CODE: 4202 METRIC CONVERSION FACTOR: 3.2808333333 ELEV: (FEET) POSITION NAD 83 NAD 27 DESCRIPTION TO POINT: GEODETIC LATITUDE: 32'33'35.51870" NORTH DATA 588.7492 LONGITUDE: 96'48'19.39435" WEST 3 1/2" BRASS CAP WITH "CITY OF LANCATER MONUMENT NO. 4" FIELD SKETCH: STAMPED ON IT BEING APPROXIMATELY 0.3' BELOW THE GROUND SOUTH OF THE INTERSECTION OF SOUTH HOUSTON SCHOOL ROAD AND BEAR CREEK ROAD, MONUMENT IS LOCATED +/- 309' SOUTH OF THE CENTERLINE OF BEAR CREEK RD. BEAR CREEK ROAD, AND 17.5' EAST OF EDGE OF PAVEMENT OF SOUTH HOUSTON SCHOOL ROAD. ROAD SCHOOL MON. 17.5 SOUTH HOUSTON A THEMANON A TRANSMISSION LINE T TO SCALE

# GPS MONUMENT CONTROL SHEET

	01 0 11	CIVOIVILIVI OC	NIVINOL O	11111				
STATION NAME: LANCATER	2 #5	DATE: OCT & NOV. 200	ADJUSTED HORIZONTAL CONTOL DATA					
MONUMENT TYPE: 3 1/2"	BRASS MON. STAMPE	D #5	ORDER: 2ND SURVEY METHOD: GPS TOTHER TO					
CITY: LANCASTER	COUNTY: DALLAS	STATE: TX	COMBINED SCALE FACTOR: 0.99885381					
SURVEYOR: VANNOY & AS		EPARED BY: KCC	NAD 27 GRID DATA	(U.S. SURVEY FEET)	PLANE AZIMUTH ANGLE (CONVERGENCE)			
PROJECT NUMBER: 0107-		NCES MARKS	ZONE: NC					
90.1'	WEST	WEST END OF GUARD RAIL	- CODE: 4202					
12.8'	NORTH	NORTH EGDE OF W. MAIN	THE THE PROPERTY OF THE PARTY O	the state of the s				
6.2'	WEST	WEST SIGN POST	ORID DATA (U.S. SURVEY FEET)		PLANE AZIMUTH ANGLE (CONVERGENCE)			
			STATE: TX ZONE: NC CODE: 4202	N 6899656.8623 E 2496206.8983	0'56'04.071"			
				ERSION FACTOR: 3.	2808333333			
STAMPED ON IT BEING A THE INTERSECTION OF S MONUMENT IS LOCATED THE NORTH SIDE OF WE	H "CITY OF LANCATER MONAPPROXIMATELY 0.3' BELOW OUTH BLUE GROVE ROAD A 90.1' WEST OF THE WEST ST MAIN STREET, 12.8' NOI MAIN STREET, AND 6.2' W	THE GROUND NORTH OF AND WEST MAIN STREET, END OF A GUARDRAIL ON RTH OF THE NORTH EDGE	FIELD SKETCH	NON. # 5 90	NORTH WEST 511.7572  PARTITION  A MONUMENT AS			

# GPS MONUMENT CONTROL SHEET ADJUSTED HORIZONTAL CONTOL DATA STATION NAME: LANCATER #6 DATE: OCT & NOV. 2001 SURVEY METHOD: GPS I OTHER -ORDER: 2ND MONUMENT TYPE: 3 1/2" BRASS MON. STAMPED #6 COMBINED SCALE FACTOR: 0.999885578 CITY: LANCASTER COUNTY: DALLAS STATE: TX PLANE AZIMUTH ANGLE COORDINATES NAD 27 SURVEYOR: VANNOY & ASSOC., INC. PREPARED BY: KCC (U.S. SURVEY FEET) (CONVERGENCE) GRID DATA PROJECT NUMBER: 0107-012 CONTROL CONTRO ZONE: NC DISTANCE & DIRECTIONS TO REFERENCES MARKS CODE: 4202 66' SOUTHWEST POWER POLE IN A CEDAR 6.3' NORTH NORTH EGDE OF W. MAIN PLANE AZIMUTH ANGLE COORDINATES NAD 83 (CONVERGENCE) GRID DATA (U.S. SURVEY FEET) STATE: TX N 6898999.1492 ZONE: NC 0'55'32.626" CODE: 4202 E 2491284.0401 METRIC CONVERSION FACTOR: 3.2808333333 NAD 83 | ELEV: (FEET) POSITION NAD 27 DESCRIPTION TO POINT: GEODETIC LATITUDE: 32'34'56.17834" NORTH DATA 512,4708 LONGITUDE: 96'48'09.51136" WEST 3 1/2" BRASS CAP WITH "CITY OF LANCATER MONUMENT NO. 6" FIELD SKETCH: STAMPED ON IT BEING APPROXIMATELY 0.3' BELOW THE GROUND NORTH OF THE INTERSECTION OF NORTH HOUSTON SCHOOL ROAD AND WEST MAIN STREET, MONUMENT IS LOCATED 66' SOUTHWEST OF POWER POLE IN A BIG CEDAR TREE, AND 6.3' NORTH OF THE NORTH EDGE OF PAVEMENT OF WEST MAIN STREET. WEST MAIN STRE ROAD GROVE A MONUMENT A O POWER POLE BLUE OEDAR TREE HUNOS T TO SCALE

# GPS MONUMENT CONTROL SHEET

		TATE: TX	ORDER: 2N	D CALE F	D HORIZONTAL SURVEY METHOD ACTOR: 0.99988 COORDINATES S. SURVEY FEET)	: GPS 🔳 OT	HER   ITH ANGLE
COUNTY: DALLA C., INC. PR  2  TIONS TO REFERE  NORTH	REPARED BY: KO		COMBINED S  NAD 27 GRID DATA  STATE: TX	CALE F	ACTOR: 0.99988	2356 PLANE AZIMU	ITH ANGLE
TIONS TO REFERE	ENCES MARKS  CENTER OF A		NAD 27 GRID DATA STATE: TX		COORDINATES	PLANE AZIMU	
TIONS TO REFERE	ENCES MARKS  CENTER OF A		GRID DATA STATE: TX				
TIONS TO REFERE	CENTER OF A	STORM					EIVOL
NORTH	CENTER OF A	STORM					
FAST	DISMIN MAN		CODE: 4202				
LAST	EAST EDGE OF SIDEWALK		RID DATA		COORDINATES S. SURVEY FEET)	PLANE AZIMUTH ANGLE (CONVERGENCE)	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		***********	ZONE: NC CODE: 4202 E 2495691.66			0.56'01.143"	
CITY OF LANCATER MO ROXIMATELY 0.3' BELO H BLUE GROVE ROAD EXIT OF A SCHOOL, A	NUMENT NO. 7" W THE GROUND NOR AND BELTLINE, MONI	TH OF UMENT CENTER	GEODETIC LA	OSITION ATITUDE: ONGITUDE CH:	NAD 27	NAD 83 NORTH WEST	ELEV: (FEET)  547.4262
100	CITY OF LANCATER MORROXIMATELY 0.3' BELOTH BLUE GROVE ROAD	CITY OF LANCATER MONUMENT NO. 7" ROXIMATELY 0.3' BELOW THE GROUND NOR THE BLUE GROVE ROAD AND BELTLINE, MON		ZONE: NC CODE: 4202  METRIC CON  METRIC CON  GEODETIC DATA  CITY OF LANCATER MONUMENT NO. 7"  FROXIMATELY 0.3' BELOW THE GROUND NORTH OF TH BLUE GROVE ROAD AND BELTLINE, MONUMENT EXIT OF A SCHOOL, 41.3' NORTH OF THE CENTER	ZONE: NC CODE: 4202  E 249  METRIC CONVERSION  POSITION  GEODETIC DATA  CITY OF LANCATER MONUMENT NO. 7"  PROXIMATELY 0.3' BELOW THE GROUND NORTH OF THE BLUE GROVE ROAD AND BELTLINE, MONUMENT E EXIT OF A SCHOOL, 41.3' NORTH OF THE CENTER NLE, AND 0.4' EAST OF THE EAST EDGE OF A  ZONE: NC CODE: 4202  E 249  METRIC CONVERSION  POSITION  GEODETIC DATA  FIELD SKETCH:	ZONE: NC CODE: 4202  E 2495691.6682  METRIC CONVERSION FACTOR: 3.2  POSITION NAD 27   GEODETIC DATA  CITY OF LANCATER MONUMENT NO. 7" ROXIMATELY 0.3' BELOW THE GROUND NORTH OF THE BLUE GROVE ROAD AND BELTLINE, MONUMENT IS EXIT OF A SCHOOL, 41.3' NORTH OF THE CENTER ILE, AND 0.4' EAST OF THE EAST EDGE OF A  THE CODE: 4202  E 2495691.6682  METRIC CONVERSION FACTOR: 3.2  GEODETIC DATA  LATITUDE: 32'35'35.81041" LONGITUDE: 96'47'17.22601"  MANAGEMENT OF THE CENTER ILE, AND 0.4' EAST OF THE EAST EDGE OF A	ZONE: NC CODE: 4202    E 2495691.6682

# GPS MONUMENT CONTROL SHEET

STATION NAME: LANCASTER #8 DATE: OCT & NOV. 2001			ADJUSTED HORIZONTAL CONTOL DATA					
MONUMENT TYPE: 3 1/2" BR	ORDER: 2ND SURVEY METHOD: GPS - OTHER D			IER 🗆				
CITY: LANCASTER	COMBINED SCALE FACTOR: 0.999882445							
SURVEYOR: VANNOY & ASSOC	NAD 27 GRID DATA	(U.S. SURVEY FEET)			PLANE AZIMUTH ANGLE (CONVERGENCE)			
PROJECT NUMBER: 0107-01;				STATE: TX ZONE: NC				
DISTANCE & DIRECT				CODE: 4202				
20.6' 54.4'	SOUTH		EMENT BELTLINE		mananana da			
+-93'	EAST	EAST OF EDG	E OF PAVEMENT	MAD DZ		RDINATES SURVEY FEET)	PLANE AZIMUT (CONVERGE	
				STATE: TX ZONE: NC CODE: 4202	N 690269 E 249042		0'55'27.	.527
				METRIC CON	ERSION F	ACTOR: 3.2	2808333333	
DESCRIPTION TO POINT:  3 1/2" BRASS CAP WITH "CONTAMPED ON IT BEING APPRENT OF THE EDGE OF PAROAD, 54.4" SOUTHWEST OF EAST EDGE OF PAVEMENT OF THE EDGE OF THE EDG	VEMENT OF THE SOU SPEED LIMIT SIGN, A	W THE GROUND, I TH EDGE OF WEST ND +-93' EAST	BELTLINE	GEODETIC LA DATA LO	NGITUDE: 9	HOUSTON SCHOOL ROAD	MON. # 8	

# GPS MONUMENT CONTROL SHEET ADJUSTED HORIZONTAL CONTOL DATA STATION NAME: LANCASTER #9 DATE: OCT & NOV. 2001 SURVEY METHOD: GPS OTHER ORDER: 2ND MONUMENT TYPE: 3 1/2" BRASS MON. STAMPED #9 COMBINED SCALE FACTOR: 0.999879523 CITY: LANCASTER COUNTY: DALLAS STATE: TX COORDINATES PLANE AZIMUTH ANGLE NAD 27 SURVEYOR: VANNOY & ASSOC., INC. PREPARED BY: KCC (CONVERGENCE) GRID DATA (U.S. SURVEY FEET) PROJECT NUMBER: 0107-012 ZONE: NC DISTANCE & DIRECTIONS TO REFERENCES MARKS CODE: 4202 0.4' NORTHEAST INSIDE ELL OF BACK OF CURB PLANE AZIMUTH ANGLE COORDINATES NAD 83 (CONVERGENCE) (U.S. SURVEY FEET) GRID DATA STATE: TX N 6906991.2760 ZONE: NC 0'56'03.309" E 2495967.6655 CODE: 4202 METRIC CONVERSION FACTOR: 3.2808333333 ELEV: (FEET) NAD 27 NAD 83 POSITION DESCRIPTION TO POINT: GEODETIC LATITUDE: 32'36'14.50201" NORTH DATA 575.8654 LONGITUDE: 96°47'13.25404" WEST 3 1/2" BRASS CAP WITH "CITY OF LANCATER MONUMENT NO. 9" FIELD SKETCH: STAMPED ON IT BEING APPROXIMATELY 0.3' BELOW THE GROUND, 0.4' NORTHEAST OF THE POINT OF THE INSIDE ELL CORNER OF A BACK OF CURB OF A PARKING ISLAND, NEAR THE INTERSECTION OF NORTH BLUE GROVE ROAD AND WEST PLEASANT RUN ROAD BEING EAST OF THE MOST WESTERLY ENTRANCE INTO SHOPPING CENTER ALONG WEST PLEASANT RUN ROAD YET BEING WEST OF THE NEXT ENTRANCE EAST ON WEST PLEASANT RUN ROAD. MODOWLDS CHEVERON WEST PLEASANT RUN ROAD MON. # 9 THE PERSON ROAD ABANDON GAS STATION GROVE MONUMENT # 0 MINN DEADE T TO SCALE

# CITY OF LANCASTER, TEXAS STANDARD CONSTRUCTION DETAILS



SIGNATURE: \_\_\_\_\_\_PUBLIC WORKS DIRECTOR

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4	GN-04	GENERAL NOTES & TESTING REQUIREMENTS
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GENERAL NOTES - CITY OF LANCASTER

ALL WORK AND MATERIALS WILL BE IN ACCORDANCE WITH CITY OF LANCASTER STANDARD SPECIFICATIONS AND GENERAL DESIGN STANDARDS. IN THE EVENT AN ITEM IS NOT COVERED IN THE CITY OF LANCASTER SPECIFICATIONS AND DETAILS, THEN THE CITY ENGINEER SHALL MAKE THE FINAL DECISION ON MATERIALS, METHODS OF INSTALLATION AND PROCEDURES. THESE GENERAL NOTES ARE FOR CONSTRUCTION OF THE CITY INFRASTRUCTURE WITHIN CITY RIGHT OF WAYS AND EASEMENTS.

- 1. IT IS THE INTENT OF THESE PLANS TO SHOW THE LOCATION AND ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES IN ACCORDANCE WITH EXISTING RECORDS. HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY AND ALL DAMAGES TO EXISTING UTILITIES, WHETHER IN OR OUT OF RIGHT-OF-WAY.
- 2. FENCES, LANDSCAPING, AND ALL OTHER IMPROVEMENTS REMOVED TO ALLOW CONSTRUCTION SHALL BE IN THE SAME LOCATION AND IN CONDITION AS GOOD OR BETTER THAN THAT IN WHICH THEY WERE FOUND. NO COMPENSATION SHALL BE GIVEN TO THE CONTRACTOR FOR REMOVAL AND REPLACEMENT OF SUCH IMPROVEMENTS.
- 3. CONTRACTOR SHALL MAINTAIN WATER AND SEWER SERVICE TO ALL EXISTING CONNECTIONS AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING CONNECTIONS, WATER METERS, WATER LINES, AND SEWER LINES IN THE FIELD PRIOR TO CONSTRUCTION.
- 4. THE CONTRACTOR SHALL ADHERE TO THE CITY OF LANCASTER'S CURRENT ADOPTED TREE ORDINANCE IN REFERENCE TO ALL TREES LOCATED WITH IN THE PROJECT.
- 5. ONLY THOSE ITEMS LISTED IN THE BID SCHEDULE WILL BE MEASURED AND PAID FOR AT THE UNIT PRICE. ALL OTHER WORK NOT LISTED IN THE BID SCHEDULE WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS BID ITEMS.
- 6. ALL PAVEMENT TO BE REMOVED (ASPHALT OR CONCRETE) SHALL BE SAWCUT AT FULL DEPTH OR REMOVED TO THE NEAREST JOINT.
- 7. BRACE ALL UTILITY POLES AS REQUIRED TO MAINTAIN STABILITY OF THE POLES DURING CONSTRUCTION. YOU MUST NOTIFY FRANCHISE UTILITIES FOR APPROVAL.
- 8. CONTRACTOR SHALL NOTIFY THE ENGINEERING DEPARTMENT ASSIGNED INSPECTOR 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- 9. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE CURRENT TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND AMENDMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL TRAFFIC CONTROL DEVICES THROUGH OUT THE PROJECT DURING CONSTRUCTION.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS, ALLEYS, AND SIDEWALKS ADJACENT TO THE PROJECT FREE OF MUD AND DEBRIS DURING CONSTRUCTION OF THE PROJECT.
- 11. THE CONTRACTOR MUST MAINTAIN TWO-WAY TRAFFIC IN CONSTRUCTION AREAS. ONE LANE OF TRAVEL WITH FLAGMAN WILL BE ALLOWED AS INDICATED IN THE APPROVED TRAFFIC CONTROL PLAN (TCP). THE CONTRACTOR SHALL NOTIFY THE CITY OF LANCASTER CITY ENGINEER 48 HOURS IN ADVANCE OF ANY LANE CLOSURES FOR APPROVAL. THE CONTRACTOR MUST MAINTAIN ACCESS TO ALL DRIVEWAYS UNLESS WRITTEN APPROVAL IS GIVEN BY THE CITY ENGINEER.
- 12. THE CLOSING OF STREET OR LANE SHALL BE BETWEEN 9.00AM TO 3.00PM MONDAY THROUGH FRIDAY.

  CONTRACTOR SHALL NOTIFY THE CITY 48 HOURS IN ADVANCED BEFORE CLOSING ANY LANE OR STREET.
- 13. CONTRACTOR SHALL NOT PLACE FILL OR WASTE MATERIAL ON PRIVATE PROPERTY WITHOUT A NOTARIZED WRITTEN AGREEMENT WITH THE PROPERTY OWNER AND PROPER PERMITTING AND VERIFICATION BY THE CITY ENGINEER.
- 14. EXCESS EXCAVATED MATERIAL SHALL NOT BE DEPOSITED IN LOW AREAS OR ALONG NATURAL WATERWAYS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM SUCH FILL AND SHALL REMOVE THE MATERIAL AT HIS OWN COST.
- 15. CONTRACTOR SHALL REMOVE AND REINSTALL ALL EXISTING STREET SIGN POSTS AND SIGNS WHICH INTERFERE WITH THE CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO NOTIFY THE LANCASTER STREET SUPERINTENDENT AT LEAST (5) DAYS IN ADVANCE OF THE TIME A STREET SIGN MUST BE RELOCATED. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY STREET SIGNS AS MAY BE REQUIRED DURING CONSTRUCTION.
- 16. BEFORE FINAL COMPLETION OF PROPOSED WORK, ALL ROADWAYS, SIGNS, SLOPES, MAIL BOXES, DITCHES AND BERMS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
- 17. CONTRACTOR SHALL RE-ESTABLISH AND MAINTAIN ALL DRAINAGE TO CHANNELS, DITCHES, AND DRAINAGE PATHS DISTURBED DURING CONSTRUCTION WITH PROPER GRADE TO DRAIN.
- 18. ALL DISTURBED SOIL SHALL BE RE-ESTABLISHED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR AFTER CONSTRUCTION.
- 19. ALL EXCESS EXCAVATION AND TRENCH SOIL SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFIED IN THESE PLANS AND APPROVED BY THE CITY ENGINEER.
- 20.THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS GOVERNING EXCAVATION, TRENCHES, AND SIDE SLOPES, AND SHALL MEET OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.
- 21. ANY CHANGES OR DEVIATIONS FROM THESE APPROVED PLANS MUST BE SUBMITTED IN WRITING AND APPROVED BY THE CITY ENGINEER PRIOR TO MAKING THE CHANGES.
- 22. A CITY OF LANCASTER RIGHT OF WAY PERMIT IS REQUIRED PRIOR TO BEGINNING WORK WITHIN A CITY EASEMENT OR RIGHT-OF-WAY. THE CONTRACTOR SHALL REGISTER WITH THE CITY AND PROVIDE LIABILITY INSURANCE TO OBTAIN THE PERMIT.
- 23.TRACKING OF MUD FROM SITE IS NOT ALLOWED ON CITY STREETS. IF THE MUD IS TRACKED ON CITY STREETS, IT SHALL BE CLEANED IMMEDIATELY AS PER MS-4 PERMIT.

# EROSION CONTROL

1. EVERY SOIL DISTURBING ACTIVITY SHALL HAVE AN ACCOMPANYING EROSION CONTROL PLAN (ECP), AND EITHER A CONSTRUCTION SITE NOTICE (CSN) FOR THOSE ACTIVITIES DISTURBING MORE THAN 1 BUT LESS THAN 5 ACRES, OR A NOTICE OF INTENT (NOI) FOR THOSE ACTIVITIES DISTURBING MORE THAN 5 ACRES. A COPY OF THE APPROPRIATE CSN OR NOI SHALL BE PROVIDED TO THE CITY OF LANCASTER PRIOR TO ISSUANCE OF A GRADING PERMIT. THE ECP SHALL BE PROVIDED TO THE LANCASTER CITY ENGINEER PRIOR TO GRADING.

- 2. THE CSN OR NOI SHALL BE POSTED IN A LOCATION VIEWABLE TO THE PUBLIC UNTIL CONSTRUCTION IS COMPLETE AND A NOTICE OF TERMINATION (NOT) IS SUBMITTED. THE STORM WATER PREVENTION PLAN (SWP3) SHALL BE READILY AVAILABLE FOR REVIEW BY FEDERAL, STATE, OR LOCAL AUTHORITIES.
- 3. NO SOIL DISTURBING ACTIVITIES WILL OCCUR PRIOR TO SWP3, ECP, AND ASSOCIATED BEST MANAGEMENT PRACTICES (BMP) BEING FULLY IMPLEMENTED, THEN INSPECTED BY THE CITY OF LANCASTER'S INSPECTOR.
- 4. THE CONTRACTOR SHALL COMPLY WITH THE CITY OF LANCASTER'S STORM WATER ORDINANCE, THE CURRENT NCTCOG BEST MANAGEMENT PRACTICES MANUAL, THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) GENERAL CONSTRUCTION PERMIT TXR150000, AND ANY OTHER STATE AND OR LOCAL REGULATIONS.
- 5. THE SITE SHALL BE REVIEWED BY THE CONTRACTOR OR HIS REPRESENTATIVE WEEKLY, AND AFTER ANY MAJOR STORM ADJUSTMENTS/REPAIRS TO THE EROSION CONTROL MEASURES WILL BE MADE AS NEEDED. THE CONTRACTOR SHALL NOTIFY THE CITY OF LANCASTER'S INSPECTOR OF ADJUSTMENTS/REPAIRS MAY BE INSPECTED AND APPROVED.INSPECTION REPORTS MUST BE EMAILED TO CITY INSPECTOR WEEKLY.
- 6. FINAL ACCEPTANCE OF A SITE SHALL BE CONTINGENT UPON VEGETATION BEING ESTABLISHED PER THE TPDES GENERAL CONSTRUCTION PERMIT TXR150000, AND PROPER NOTICE OF TERMINATION (NOT) HAS BEEN SUBMITTED TO THE STATE OF TEXAS. A COPY OF THE NOTICE OF TERMINATION (NOT) SHALL BE SUBMITTED TO THE CITY OF LANCASTER.
- 7. CONTRACTOR (OR SUBCONTRACTOR) SHALL PROVIDE A COPY OF SELF INSPECTION REPORT TO THE CITY INSPECTOR ON WEEKLY BASIS.

# WATER

ALL WORK AND MATERIALS WILL BE IN ACCORDANCE WITH CITY OF LANCASTER STANDARD SPECIFICATIONS AND GENERAL DESIGN STANDARDS. IN THE EVENT AN ITEM IS NOT COVERED IN THE CITY OF LANCASTER SPECIFICATIONS AND DETAILS, THEN THE CITY ENGINEER SHALL MAKE THE FINAL DECISION ON MATERIALS, METHODS OF INSTALLATION AND PROCEDURES.

- 1. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OPEN AND OR CLOSE ALL VALVES INCLUDING BUT NOT LIMITED TO THE CITY OF LANCASTER VALVES DURING CONSTRUCTION OF A PROJECT. THE PROCEDURES TO OPEN OR CLOSE CITY VALVES ARE AS FOLLOWS
  - A.THE CONTRACTOR SHALL CONTACT THE CITY OF LANCASTER INSPECTOR AT LEAST 48 HOURS PRIOR TO OPERATING CITY WATER VALVE(S)TO GET PERMISSION TO OPEN OR CLOSE A VALVE(S).
- B.IF THE CONTRACTOR IS GIVEN PERMISSION BY THE CITY INSPECTOR TO OPERATE THE VALVE(S), THEN THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR AND DEVELOP A LIST OF ADDRESSES THAT WILL BE AFFECTED BY ANY VALVE CLOSINGS. AFTER THE LIST HAS BEEN DEVELOPED EACH ADDRESS AFFECTED SHALL BE GIVEN A WRITTEN NOTICE STATING THE WATER WILL BE OFF DUE TO CONSTRUCTION FOR A GIVEN PERIOD OF TIME (NOT TO EXCEED 4 HOURS) AND THE NOTICE(S) SHALL BE DELIVERED BY THE CONTRACTOR TO THE ADDRESS(S) AFFECTED, AT LEAST 48 HOURS PRIOR TO CLOSING THE VALVE(S). AFTER THE NOTIFICATION HAS BEEN DELIVERED AND 48 HOURS HAVE ELAPSED THE CONTRACTOR MAY OPERATE THE VALVE(S) WITH THE INSPECTOR PRESENT AND AT HIS INSTRUCTION.
- C.IN NO CASE SHALL CITY PERSONNEL BE RESPONSIBLE FOR OPERATING VALVES FOR CONSTRUCTION IN THE EVENT THE VALVE(S) DOES NOT OPERATE PROPERLY, THEN THE CONTRACTOR SHALL ASK THE INSPECTOR FOR ASSISTANCE. NO TIME OR CHARGES SHALL BE CHARGED TO THE CITY BY THE CONTRACTOR FOR OPERATING VALVES.
- D.TCEQ RULES AND REGULATIONS SHALL APPLY TO ALL WATER LINES THAT FALL BELOW THE TCEQ'S MINIMUM PRESSURES.
- 2. ALL FIRE HYDRANTS SHALL BE M&H, MUELLER, AND KENNEDY, AND EQUAL TO, APPROVED BY DIRECTOR OF PUBLIC WORKS. HYDRANTS SHALL BE THREE-WAY STANDARD THREAD WITH 4" NOZZLE AND 2 1/2" NOZZLES.
- 3. GATE VALVES SHALL BE RESILIENT WEDGE EPOXY COATED GATE VALVES, ISO TEST, MUELLER OR CLOW.
- 4. TAPPING SLEEVES SHALL BE ALL STAINLESS STEEL WITH STAINLESS STEEL BOLTS AND NUTS.
- 5. ALL WATER MAINS SHALL HAVE A MINIMUM OF 48" COVER OVER THE TOP OF THE PIPE UNLESS STIPULATED ON THE PLAN.
- 6. ALL CONNECTIONS USED FOR FLUSHING SHALL BE METERED WITH A CERTIFIED BACK FLOW PREVENTION DEVICE AND ALL WATER USED SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 7. WATER LINES SHALL BE TESTED AT 150 PSI PRESSURE FOR A FOUR-HOUR CONTINUOUS PERIOD. THE LEAKAGE RATE WILL NOT EXCEED 25 GALLONS PER INCH OF NOMINAL DIAMETER PER MILE OF PIPE OVER A 24-HOUR PERIOD. THE CONTRACTOR WILL FLUSH AND STERILIZE LINES AND PERFORM BACTERIOLOGICAL TESTS AS DIRECTED BY THE CITY INSPECTOR AND TO PROVE LINES TO BE FREE OF COLIFORM ORGANISMS. THE CHLORINATION STEPS ARE AS FOLLOWS, CHLORINATE TO AT LEAST 50 PPM-WAIT 24 HOURS. FLUSH SUPERCHLORINATION, CHECK CL2, THEN WAIT ADDITIONAL 24 HOURS BEFORE TAKING SAMPLE.ALL CHLORINATION NEEDS TO BE METERED.IF SAMPLES ARE REPORTED POSITIVE, THE CONTRACTOR WILL FLUSH WITH METER AND RESTERILIZE AND REPEAT STEPS UNTIL WATER SAMPLES ARE FREE FROM COLIFORM ORGANISMS.
- 8. CONNECTION TO THE WATER SYSTEM SHALL NOT BE MADE UNTIL ALL LINES HAVE BEEN PRESSURE TESTED AND SATISFACTORY WRITTEN BACTERIOLOGICAL REPORT RESULTS HAVE BEEN RECEIVED BY THE CITY OF LANCASTER INSPECTOR.
- 9. ALL RESIDENTIAL SERVICES SHALL BE INSTALLED AS FOLLOWS:
- A.METER BOXES SHALL BE A PLASTIC BODY TYPE WITH LOCKING CAST IRON OR STEEL RINGED PLASTIC AND LID DALLAS SPECS.OR APPROVED EQUAL AND WILL BE INSTALLED TWO (2) FEET BACK OF CURB LINE. ALL METER BOXES IN PAVING SHALL BE TRAFFIC RATED. ALL WATER SERVICES WILL BE MINIMUM 1" IN DIAMETER, AND MADE OF TYPE "K" SOFT COPPER OR POLY PIPE UNLESS OTHERWISE SHOWN ON THE PLANS AND APPROVED BY THE CITY. REFER TO STANDARD CONSTRUCTION DETAIL WATER SHEET. WATER SERVICES SHALL BE LOCATED UPSTREAM OF THE SANITARY SEWER SERVICES EXCEPT AS MAY BE SHOWN ON THE PLANS.
- B.THE UTILITY CONTRACTOR WILL INSTALL THE WATER SERVICE TO A POINT TWO (2) FEET PAST THE BACK OF CURB, OR AS MAY BE SHOWN ON THE PLANS, AT A DEPTH OF 12 INCHES. THE METER BOX WILL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AFTER THE PAVING CONTRACTOR HAS COMPLETED THE FINAL GRADING IN BACK OF THE CURB. ALL WATER SERVICES SHALL BE EMBEDDED IN AT LEAST 6" OF SAND FROM TAP TO METER BOX.

- C.CONTRACTOR WILL TIE A 1" WIDE PIECE OF BLUE PLASTIC FLAGGING TO THE WATER SERVICE CURB STOP AND WILL LEAVE A MINIMUM OF 36" OF FLAGGING EXPOSED AFTER BACKFILLING CURB AND PAVING IS COMPLETE.
- D.CONTRACTOR IS RESPONSIBLE TO PROVIDE AND INSTALL METERS TO CITY SPECIFICATION AT HIS OWN COST.

# 10. POLYTUBEWRAPING:

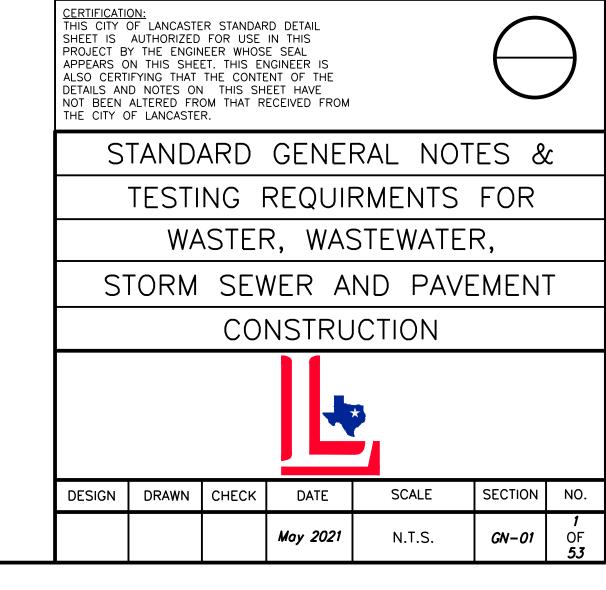
THE CONTRACTOR SHALL FURNISH AND INSTALL POLYETHYLENE WRAP AROUND THE DUCTILE IRON PIPE, FIRE HYDRANT UP TO THE BURY LINE AND RELATED FITTINGS AND VALVES. THIS WRAP WILL BE AN 8 MIL THICKNESS POLYTUBE. SEAMS AND OVERLAPS WILL BE WRAPPED AND HELD IN PLACE BY TWO INCH (2") WIDE PLASTIC BACKED ADHESIVE TAPE, POLYKEN NO. 900 OR SCOTHRAF NO. 50 OR AN EQUAL WITH APPROXIMATELY TWO (2") FOOTLAPS ON THE POLYTUBE. THE WRAP ON THE BARREL OF THE PIPE WILL BE LOOSE ENOUGH TO ALLOW THE FILM TO SHIFT WITH THE SOIL. THE WRAP WILL BE INSTALLED WITHOUT BREAKS, TEARS OR HOLES IN THE FILM. THE COST OF THE POLYEHTYLENE TUBE WRAP AND COMPLETE INSTALLATION WILL BE INCLUDED IN THE UNIT PRICE BID FOR FURNISHING AND INSTALLING DUCTILE IRON PIPE AND RELATED FITTINGS, VALVES AND FIRE HYDRANTS.

- 11. DUCTILE IRON FITTINGS SHALL BE A MINIMUM C-ISO, PRESSURE CLASS 250 AND ALL MECHANICAL BENDS AND FITTINGS SHALL BE MEGA-LUG RESTRAINED AND BLOCKED WITH 3600 PSI CONCRETE.
- 12. THE CONTRACTOR SHALL INSTALL FIRE HYDR4NTS 2' FROM BACK OF CURB OR AS MAY BE SHOWN ON THE PLANS OR AS MAY BE REQUIRED TO AVOID CONFLICTS. THE SPLASHPAD WILL BE IN FRONT OF FIRE HYDRANTS THAT ARE NOT ABUTTING SIDEWALKS OR CLOSE ENOUGH TO FLOW ONTO PAVED ROADWAYS. THE SPLASHBLOCK SHALL BE CONNECTED AND DOWELLED IN TO CURB, WHEN THERE IS CURB.
- 13. ALL BOLTS AND NUTS USED WITH MECHANICAL JOINT FITTINGS WILL BE HIGH STRENGTH, CORROSION RESISTANT STEEL PER ASTM A235 TYPE 3.
- 14. VALVE BOXES WILL BE FURNISHED AND SET ON EACH GATE VALVE. AFTER FINAL CLEAN UP AND ALIGNMENT HAS BEEN COMPLETED. THE CONTRACTOR (UTILITY) WILL POUR A STEEL REINFORCED CONCRETE BLOCK AROUND ALL VALVE BOX TOPS SO THE FINISHED GRADE IS LEVEL WITH THE FINISHED PARKWAY.
- 15. THE CONTRACTOR SHALL FURNISH THE CITY OF LANCASTER WITH A MAINTENANCE BOND FROM AN APPROVED SURETY COMPANY WHICH PROTECTS THE CITY AGAINST DEFECTIVE WORKMANSHIP AND MATERIALS FOR A PERIOD OF TWO (2) YEARS FROM THE DATE OF THE FINAL ACCEPTANCE BY THE CITY. WHERE DEFECTIVE WORKMANSHIP AND/OR MATERIALS ARE DISCOVERED REQUIRING REPAIRS TO BE MADE UNDER THIS GUARANTEE, ALL SUCH REPAIR WORK SHALL BE DONE BY THE CONTRACTOR AT HIS OWN EXPENSE WITHIN FIVE (5) DAYS AFTER WRITTEN NOTICE OF SUCH DEFECT HAS BEEN GIVEN TO HIM BY THE CITY. SHOULD THE CONTRACTOR FAIL TO REPAIR LEAKS OR CORRECT SUCH DEFECTIVE WORKMANSHIP AND /OR MATERIAL WITHIN FIVE (5) DAYS AFTER BEING NOTIFIED, THE CITY MAY MAKE THE NECESSARY REPAIRS AND CHARGE THE CONTRACTOR WITH THE ACTUAL COST OF ALL LABOR AND MATERIAL REQUIRED. THE MAINTENANCE BOND SHALL IN THE AMOUNT OF \$50,000.00 OR 10 PERCENT(10%) OF THE AMOUNT OF THE CONTRACT, WHICHEVER IS GREATER, BUT NOT EXCEED 100 PERCENT (100%) OF THE CONTRACT AMOUNT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING "RECORD DRAWINGS" TO THE ENGINEER SHOWING LOCATION OF WATER SERVICES AND VALVES BY DISTANCE TO BOTH LOT LINES.

THIS INFORMATION SHALL BE PLACED AND MARKED "RECORD DRAWINGS" BY THE ENGINEER OF RECORD.

COPIES OF "RECORD DRAWINGS" PLANS SHALL BE FURNISHED TO THE CITY.

- 16. THE INSTALLATION OF BLUE STEMSONITE (OR APPROVED EQUAL) MODEL 88-SSA FIRE HYDRANT MARKER WILL BE FURNISHED AND INSTALLED BY CONTRACTOR.
- 17. FIRE HYDRANTS WILL BE PAINTED AS NOTED. ALL HYDRANTS ARE TO BE PAINTED WITH TWO (2) COATS OF ALUMINUM PAINT.
- 18. PVC PIPE WILL BE A MINIMUM C-900 CLASS (DR-18) UNLESS INDICATED OTHERWISE ON THE PLANS.
  ALL WATER PIPE WILL BE INSTALLED WITH A "TRACER TAPE" PLACED OVER THE TOP OF THE SAND WITH WORD "WATER" MULTIPLY REPEATED ON THE TAPE, LAID 2' ABOVE THE PIPE PRIOR TO FINAL BACK FILL.
- 19. WATER MAINS WILL BE INSTALLED WITH A CLASS B+ EMBEDMENT AND ALL DITCHES AND TRENCHES WILL BE TAMPED AND COMPACTED TO 95% PROCTOR DENSITY. MOISTURE CONTENT SHALL BE WITHIN 0 TO +4 OF OPTIMUM.
- 20. DOUBLE STRAP BRASS SADDLE TO BE USED ON ALL SERVICE LINES INSTALLED ON PVC PIPE.
- 21. CONTRACTOR WILL PROTECT ALL PUBLIC UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT. THE UTILITY CONTRACTOR MUST ADJUST ALL EXISTING MANHOLES, CLEAN OUTS, VALVES, BOXES, FIRE HYDRANTS AND APPURTENANCES TO PROPER LINE AND GRADE AFTER REPLACEMENT OF PAVING. NO ADDITIONAL PAY ITEM.



- 22.THE LOCATIONS OF ALL UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM EXISTING PUBLIC RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL PUBLIC UTILITIES. IT WILL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL UTILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BY PRESENT.
- 23. WHERE STORM SEWER INLETS ARE INSTALLED OVER TOP OF WATER LINES, THE CONTRACTOR MUST PROVIDE A MINIMUM CLEARANCE OF 18". WHERE THE WATER CROSSES OVER TOP OF THE STORM SEWER, THERE MUST BE A MINIMUM OF 18" OF CLEARANCE.
- 24.REFER TO CITY OF LANCASTER STANDARD DETAILS FOR ADDITIONAL INFORMATION REGARDING CONSTRUCTION OF WATER & SANITARY SEWER SYSTEMS.
- 25.WATER SYSTEMS WILL NEED A KUPFERLE ECLIPSE 88 OR APPROVED EQUAL BY THE CITY. REFER TO STANDARD CONSTRUCTION DETAIL SHEETS FOR WATER.
- 26.DEAD END LINES SHOULD BE AVOIEDED BUT IN CASES WHERE THEY CAN NOT, CONTRACTOR MUST INSTALL A FLUSH POINT PER TCEQ STANDARDS.
- 27.A LIST OF APPROVED WATER UTILITY MATERIALS AND APPROVAL OF ALTERNATE MATERIALS MUST BE OBTAINED FROM THE CITY WATER AND SEWER SUPERINTENDENT PRIOR TO BEGINNING OF CONSTRUCTION.
- 28.AT THE END OF THE PROJECT AND BEFORE FINAL ACCEPTANCE, ALL VALVES AND WATER SERVICES LOCATED BEHIND THE CURB SHALL BE MARKED BY SAWING OR INSCRIBING INTO THE CURB 2" LETTER W FOR WATER SERVICES AND THE LETTER V FOR VALVES AND FH FOR FIRE HYDRANT. PAINTING OF SUCH LETTERING SHALL NOT BE AN ACCEPTED SUBSTITUTE.
- 29.CONTRACTORS ARE REQUIRED TO SUBMIT AN APPLICATION/DEPOSIT FOR USE OF CITY WATER METER WITH THE CITY UTILITY BILLING DEPARTEMENT, PRIOR TO STARTING WORK. THE CONTRACTOR MUST SUPPLY A TESTABLE BACKFLOW PREVENTER TO BE TESTED AFTER INSTALLED. TEST REPORTS MUST BE SUBMITTED TO THE CITY.

#### SANITARY SEWER

ALL WORK AND MATERIALS WILL BE IN ACCORDANCE WITH THE CITY OF LANCASTER STANDARD SPECIFICATIONS AND GENERAL DESIGN STANDARDS. IN THE EVENT AN ITEM IS NOT COVERED IN THE CITY OF LANCASTER SPECIFICATIONS AND DETAILS, THEN THE CITY ENGINEER SHALL MAKE THE FINAL DECISION ON MATERIALS, METHODS OF INSTALLATION AND PROCEDURES.

- 1. ALL PVC SEWER PIPE WILL BE SDR 35 FOR DEPTH LESS THEN 10' AND SDR 26 FOR DEPTH 10' OR GREATER AS PER CITY SPECIFICATIONS AND WILL BE INSTALLED WITH A MINIMUM OF CLASS B+EMBEDMENT.
- 2. ANY OTHER PIPE FOR SANITARY SEWER MAIN CONSTRUCTION MUST BE APPROVED BY THE CITY ENGINEER.
- 3. ALL RESIDENTIAL SEWER SERVICES WILL BE A MINIMUM DIAMETER OF FOUR (4") INCHES OR AS SPECIFIED ON THE PLANS AND SHALL TERMINATE AT THE PROPERTY LINE WITH A CLEANOUT. SERVICES SHALL BE LOCATED DOWNSTREAM OF THE WATER SERVICES EXCEPT AS MAY BE SHOWN ON THE PLANS. ALL SERVICES SHALL BE EMBEDDED IN CLASS B+ EMBEDMENT.
- 4. ALL SEWER MAINS WILL BE A MINIMUM DIAMETER OF EIGHT (8") INCHES AND WILL BE INSTALLED PER THE PLAN PROFILE.
- 5. ALL TRENCHES WILL BE TAMPED AND COMPACTED TO A 95% PROCTOR DENSITY. MOISTURE CONTENT SHALL BE WITHIN 0 TO +4 OF OPTIMUM. AFTER PIPE HAS BEEN LAID ON PROPER BEDDING, BACKFILL WITH 8" MAXIMUM LOOSE LIFTS MECHANICALLY COMPACTED TO 95% STANDARD PROCTOR. MOISTURE CONTENT SHALL BE WITHIN 0 TO +4 OF OPTIMUM UNDER ROADWAY AND 12" MAXIMUM LOOSE LIFT BEHIND CURB. MAXIMUM SIZE ROCK IN BACKFILL SHALL NOT EXCEED 6" IN DIAMETER.
- 6. CONTRACTOR WILL TIE 1" WIDE PIECE OF RED PLASTIC FLAGGING TO THE END OF THE SEWER SERVICE AND WILL LEAVE A MINIMUM OF 36" OF FLAGGING EXPOSED AFTER BACKFILL. AT THE END OF THE PROJECT AND BEFORE FINAL ACCEPTANCE, ALL MANHOLES AND SEWER SERVICES LOCATED BEHIND THE CURB SHALL BE MARKED 2" BY SAWING INTO THE CURB. THE LETTERS FOR SEWER SERVICES AND THE LETTER MH FOR MANHOLE. PAINTING OF SUCH LETTERING SHALL NOT BE AN ACCPETED SUBSTITUTE.
- 7. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING "AS-BUILT" PLANS TO THE ENGINEER SHOWING THE LOCATION OF SEWER SERVICES. THIS INFORMATION WILL BE PLACED ON THE ENGINEERING PLANS AND MARKED "AS-BUILT" BY THE DESIGN ENGINEER. COPIES OF THESE "AS-BUILT" PLANS WILL BE FURNISHED TO THE CITY. TIES WILL BE MADE BY DISTANCE MEASUREMENTS FROM BOTH LOT LINES FOR ALL MANHOLES. CLEANOUTS AND SERVICES.
- 8. ALL SANITARY SEWER LINES AND MANHOLES WILL BE TESTED FOR INFILTRATION AND EXFILTRATION BY THE LOW PRESSURE AIR TEST METHOD IN ACCORDANCE WITH THE TCEQ CURRE SPECIFICATIONS.
- 9. ALL SEWER PIPES WILL BE INSTALLED WITH A RED PLASTIC IDENTIFICATION TAPE MARKED "SEWER" LAID 2' ABOVE THE PIPE.
- 10.A LOW PRESSURE AIR TEST WILL BE PREFORMED ON ALL INSTALLED SECTIONS OF SEWER MAINS. SUCCESSFUL AIR TESTS WILL BE MANDATORY TO PROVE ACCEPTABILITY OF THE SEWER LINES.
- 11.ALL NEW SANITARY SEWER MAINS WILL REQUIRE MANDREL TESTS IN ACCORDANCE WITH TCEQ REQUIREMENTS.
- 12.MANHOLES ARE TO BE INSTALLED WITH A DUCTILE IRON HINGED RING AND WATER TIGHT COVER GASKET TYPE TO PREVENT INFILTRATION WITH AND LOCKING DEVICE PAM-REX BRAND OR APPROVED EQUAL WITH THE WORDING SANITARTY SEWER FORGED INTO THE LID.
- 13.THE CONTRACTOR SHALL CENTER A 20 FOOT JOINT OF PRESSURE RATED PVC SANITARY SEWER PIPE AT ALL WATER LINE CROSSINGS. EMBED SANITARY SEWER LINE IN CEMENT STABILIZED SAND IN ACCORDANCE WITH TCEQ REGULATIONS CHAPTER 290, PAGE 43. THE PRESSURE RATED PIPE SHALL BE ASTM 2241 SDR-26 OR APPROVED EQUAL.
- 14.A LIST OF APPROVED SANITARY SEWER UTILITY MATERIALS AND APPROVAL OF ALTERNATE MATERIALS MUST BE OBTAINED FROM THE CITY WATER AND SEWER SUPERINTENDENT PRIOR TO BEGINNING OF CONSTRUCTION.
- 15.FOR FINAL ACCEPTANCE, THE CITY WILL REQUIRE VIDEO INSPECTION OF ALL SANITARY SEWER MAINS. A COPY OF THE RESULTS MUST BE PROVIDED TO THE CITY ON A CD ROM OR DVD DISC. VHS TAPES WILL NOT BE ACCEPTED.

#### STORM SEWER

ALL WORK AND MATERIALS WILL BE IN ACCORDANCE WITH CITY OF LANCASTER STANDARD SPECIFICATIONS, STORM WATER DESIGN MANUAL AND ORDINANCE AND GENERAL DESIGN MANUAL. IN THE EVENT AN ITEM IS NOT COVERED IN THE CITY OF LANCASTER SPECIFICATIONS AND DETAILS, THEN THE CITY ENGINEER SHALL MAKE THE FINAL DECISION ON MATERIALS, METHODS OF INSTALLATION AND PROCEDURES.

- 1. INLET INSTALLATION; THE FLOOR OF THE EXCAVATION FOR THE INLET BOX MUST PROVIDE A FIRM, LEVEL BED FOR THE BASE SECTION TO REST UPON. USE A MINIMUM OF 6" DEPTH OF 1" DIAMETER (MAXIMUM) ROCK OR GRAVEL TO PREPARE THE INLET BEDDING TO FINAL GRADE. WHEN INSTALLING INLET WITH WET SOIL CONDITIONS, USE CEMENT STABILIZED—SAND AND ALLOW IT TO SET UP BY KEEPING HOLE PUMPED DRY.
- 2. AFTER PIPE HAS BEEN LAID ON PROPER BEDDING, BACKFILL WITH 8" MAXIMUM LOOSE LIFTS MECHANICALLY COMPACTED TO 95% STANDARD PROCTOR. MOISTURE CONTENT SHALL BE WITHIN 0 TO +4 OF OPTIMUM UNDER ROADWAY AND 12" MAXIMUM LOOSE LIFT BEHIND CURB. MAXIMUM SIZE ROCK IN BACKFILL SHALL NOT EXCEED 6" IN DIAMETER.
- 3. PRECAST INLETS AND HEADWALLS MUST BE APPROVED BY THE CITY ENGINEER.
- 4. CONCRETE FOR INLETS AND HEAD WALLS MUST BE A MINIMUM OF 4500 PSI.
- 5. CONNECTION OF THE STORM SEWER PIPE LATERALS TO INLETS SHALL BE MADE WITH PIPE THAT IS SMOOTH AND EVEN. IF THE PIPE HAS TO BE CUT THEN THE END OF THE PIPE SHALL BE EVENLY SAW CUT. CHIPPED OR BROKEN PIPE WILL BE REJECTED.
- 6. LOCKING DEVICE IS REQUIRED FOR ALL STORM SEWER LIDS.
- 7. THE WORDING "STORM WATER" SHALL BE FORGED INTO ALL INLET LIDS AND LETTERS SHALL BE A MINIMUM OF 2" IN HEIGHT.
- 8. EXISTING STORM SEWER PIPE AND/OR LATERALS SHALL BE LOCATED PRIOR TO CONSTRUCTION OF INLET BOXES. IF ADJUSTMENT IN GRADE OF LATERAL IS REQUIRED, A REVISED DESIGN BY THE ENGINEER OF RECORD SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL.
- 9. REINFORCED CONCRETE PIPE SHALL BE CLASS III MINIMUM OR APPROVED EQUAL, INSTALLED ON A CLASS B+ EMBEDMENT.
- 10. CONNECTIONS BETWEEN PIPE SIZE CHANGES SHALL BE MADE WITH ONLY PRE-CAST MANUFACTURED PIPE FITTINGS.
- 11. ALL TRANSITIONS AND BENDS MUST BE PRE-CAST MANUFACTURED.
- 12. ALL STORM SEWER PIPE SPIGOT AND BELL ENDS SHALL BE ASPHALT PRIMERED.
- 13. FOR FINAL ACCEPTANCE, THE CITY WILL REQUIRE VIDEO INSPECTION OF ALL STORM SEWER MAINS. A COPY OF THE RESULTS MUST BE PROVIDED TO THE CITY ON A CD ROM OR DVD DISC. VHS TAPES WILL NOT BE ACCEPTED.
- 14. ALL INLETS SHALL HAVE MS-4 DRAIN TILE MARKERS. FOR DETAIL, CONTACT CITY INSPECTOR.
- 15. NO TRACKING OF MUD FROM CONSTRUCTION SITE IS ALLOWED. THE MUD TRACKED SHALL BE CLEANED IMMEDIATELY.

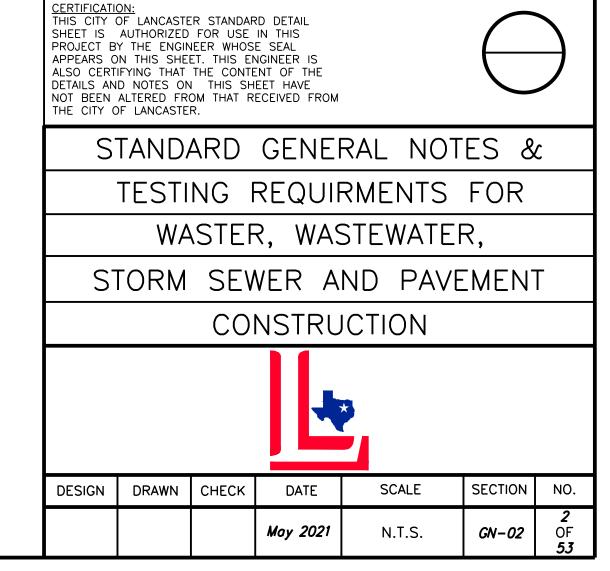
### <u>PAVING</u>

ALL WORK AND MATERIALS WILL BE IN ACCORDANCE WITH CITY OF LANCASTER STANDARD SPECIFICATIONS AND GENERAL DESIGN STANDARDS. IN THE EVENT AN ITEM IS NOT COVERED IN THE CITY OF LANCASTER SPECIFICATIONS AND DETAILS, THEN THE CITY ENGINEER SHALL MAKE THE FINAL DECISION ON MATERIALS, METHODS OF INSTALLATION AND PROCEDURES.

- 1. CONCRETE FOR ALL STREETS AND ALLEYS SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE NCTCOG, FOR 4,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS OR AS SHOWN IN THE PLANS.
- 2. REINFORCEMENT SHALL IN ACCORDANCE WITH CITY PAVING DETAILS.
- 3. ALL REINFORCEMENT STEEL SHALL BE 100% TIED, WITH NO SKIP TIES. REINFORCING STEEL SHALL BE SET ON CHAIRS. THE CHAIRS SHALL BE PLACED UNFORMLY AT EVERY OTHER BAR. BAR LAPS SHALL BE EXTENDED TO A MINIMUM OVERLAP OF 18 INCHES.
- 4. ALL STREETS AND ALLEYS SHALL HAVE EXPANSION JOINTS INSTALLED AT 200 FT. INTERVALS AND AT ALL INTERSECTIONS OR AS MAY BE SHOWN ON THE PLANS. THE EXPANSION JOINTS SHALL BE INSTALLED AT ALL RADIUS RETURNS.
- 5. SAWED TRANSVERSE DUMMY JOINTS SHALL BE PLACED IN PAVEMENT EVERY 20'. SAWING OF PAVEMENT SHALL OCCUR WITHIN 5 TO 12 HOURS AFTER CURING AND SEALING. OTHERWISE, THE SECTION SHALL BE REMOVED AND A LONGITUDINAL BUTT JOINT CONSTRUCTED.
- 6. ALL STREETS, ALLEYS, AND FIRE LANES REQUIRE A COMPACTED LIME STABILIZED SUBGRADE TO A DISTANCE OF 12 INCHES BEYOND THE BACK OF CURB OR EDGE OF PAVEMENT. ONLY HYDRATED LIME SHALL BE UTILIZED. OPTIMUM LIME SHALL BE APPLIED. OPTIMUM LIME APPLICATION RATE SHALL BE DETERMINED BY A LIME SERIES TEST TO REDUCE THE PLASTICITY INDEX (PI) TO 15 OR LESS AS CONDUCTED BY A CITY APPROVED TESTING LABORATORY. THE CITY WILL ADD 1% FOR FIELD VARIATION. LIME SERIES TEST SHALL BE TAKEN ALONG THE EXCAVATION AT ALL CHANGES IN SOIL OR AT A MAXIMUM OF 300 FEET BETWEEN SAMPLE SPOTS. THE LIME TREATED SUBGRADE SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698. MOISTURE CONTENT SHALL BE WITHIN 0 TO +4 OF OPTIMUM. DENSITY TEST RESULTS SHALL BE COMPLETED BY AN INDEPENDENT LABORATORY APPROVED BY THE CITY AT THE CONTRACTOR'S EXPENSE. A COPY OF ALL RESULTS SHALL BE GIVEN TO THE CITY INSPECTOR. SULFATE TESTS SHALL ALSO BE CONDUCTED AT THE DISCRETION OF THE CITY.DURING POURING OF CONCRETE, LAB MUST BE PRESENT.
- 7. LIME TRIMMINGS ARE NOT ACCEPTABLE FOR ANY USE. FILL IN OR LEVEL UP IS TO BE COMPLETED WITH FLOWABLE FILL (MIN. 2000 PSI). NO ROCKS LARGER THAN 6" IN ANY DIRECTION.
- 8. ALL FILL SHALL BE COMPACTED BY MECHANICAL METHODS. MAXIMUM LOOSE LIFT FOR COMPACTION SHALL BE 8 INCHES. ALL LIFTS SHALL BE TESTED FOR DENSITY BY AN INDEPENDENT LABORATORY APPROVED BY THE CITY AT THE CONTRACTOR'S EXPENSE. DENSITY REQUIREMENT SHALL BE AS SHOWN ON THE PLANS FOR THE TYPE OF MATERIAL CALLED FOR ON THE PLANS.
- 9. ALL DISTURBED AREAS OF ROADWAY WORK SHALL HAVE GRASS ESTABLISHED IMMEDIATELY.

- 10. ALL AREAS TO BE EXCAVATED OR FILLED SHALL HAVE EROSION CONTROL PLACED PRIOR TO COMMENCING ANY WORK. EROSION CONTROL DEVICES SHALL BE MAINTAINED THROUGHOUT THE PROJECT.
- 11. ALL SIDEWALKS SHALL INCLUDE BARRIER-FREE RAMPS AT INTERSECTING STREETS, ALLEYS, DRIVEWAYS, ETC. BARRIER-FREE RAMPS SHALL MEET CURRENT TAS AND ADA ACCESSIBILITY GUIDELINE REQUIREMENTS.
- 12. SIDEWALKS SHALL BE DOWELED INTO PAVEMENT WHERE IT ABUTS ANY PAVEMENT. EXPANSION JOINT MATERIAL SHALL BE USED AT THESE LOCATIONS. STEEL FOR SIDEWALKS SHALL BE NUMBER 3 BARS PLACED PER THE DETAIL SHEET 100 PERCENT TIED. PLASTIC CHAIRS WILL BE PLACED UNIFROMLY AT EVERY OTHER BAR. CONCRETE SHALL BE 3,000 PSI AT 28 DAYS COMPRESSIVE STRENGTH.
- 13. TEST CYLINDERS: 1 SET OF 4 EVERY 80 TO 100 CY POURED, BUT NO LESS THAN 1 SET PER POUR OR PER DAY @ 7 DAYS, 2 @ 28 DAYS AND HOLD ONE. 56 DAY BREAKS ARE NOT ACCEPTABLE. MINIMUM 28 DAY DESIGN STRENGTH FOR ALL STREETS, ALLEYS, AND FIRE LANES IS 4000 PSI. IF 28 DAY STRENGTH IS NOT ATTAINED, THE LABORATORY NEEDS TO SCHEDULE CORES TO PROVE OUT THE DEFICIENT SECTION NO MORE THAN 2 DAYS BEYOND 28. AS A MINIMUM, ALL REPORTS SHALL INDICATE UNIT WEIGHT, AIR CONTENT, SLUMP, AND AMBIENT/CONCRETE TEMPERATURES. FOR ANY FAILED PARAMETER FOR STREETS, ALLEYS, AND FIRE LANES, THE CITY ENGINEER OR FIRE MARSHALL SHALL DETERMINE IF THE PAVEMENT NEEDS TO BE CORED FOR DEPTH CHECKS EVERY 300 LF. LT-CNTR-RT. THERE IS A MINIMUM OF ONE QUARTER INCH TOLERANCE FOR ALL CONCRETE DEPTHS. ANYTHING MORE THAN ONE QUARTER INCH SHY WILL BE REMOVED AND REPLACED ACCORDING TO CITY CRITERIA.
- 14. ALL SUB-GRADE TESTING (INCLUDES FIRE LANES) GRADATIONS/PULVERIZATIONS SHALL BE TAKEN EVERY 300 LF. AND PI'S EVERY 300 LF. DENSITIES (95%, 0 TO +4% OF OPTIMUM MOISTURE) EVERY 300 LF. LT-CNTR-RT. GRAB SAMPLES WILL NEED TO BE TESTED FOR P.I.'S AT EACH GRADATION CHECK TO MAKE SURE SUFFICIENT LIME WAS INSTALLED. LIME DEPTH CHECKS EVERY 300 LF. LT-CNTR-RT OR WHEN THE SOIL CHANGES COMPOSITION.
- 15. ALL DENSITY CONTROL SHALL BE RECEIVED, REVIEWED, AND APPROVED BY THE CITY PRIOR TO ANY SUBGRADE WORK. DENSITY REPORTS ARE ONLY GOOD FOR 48 HOURS AFTER TAKEN OR RIGHT BEFORE A RAIN. 2 BATCH DESIGNS REQUIRED, ONE EACH FOR MACHINE AND HAND POURS.

SPECIAL DETAILS OR MODIFICATIONS TO THESE STANDARD DETAILS TO BE UTILIZED ON ANY GIVEN PROJECT SHALL BE SUBMITTED TO THE CITY FOR APPROVAL FOR USE.



THIS INFORMATION IS AN EXPLANATION OF BASIC TESTING PROCEDURES AND IS MEANT TO BE USED IN CONJUNCTION WITH THE CITY OF LANCASTER STANDARD CONSTRUCTION DETAILS AND THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, FOURTH EDITION

#### TESTING OF MATERIALS:

- THE CONTRACTOR WILL PROVIDE BACKFILL, DENSITY AND CONCRETE TESTING FOR ALL PUBLIC AND PRIVATE PROJECTS WITHIN THE CITY R.O.W. AND EASEMENTS UNLESS SPECIFIED OTHERWISE. ALL FINAL REPORTS SHALL BE TURNED IN TO THE INSPECTOR AND CONTRACTOR WITHIN FIVE WORKING DAYS. FIELD COPIES MUST BE SUBMITTED TO THE INSPECTOR AND CONTRACTOR UPON COMPLETION OF THE TESTING AND PRIOR TO LEAVING THE JOB SITE. FAILED SAMPLES MUST BE REPORTED TO THE CITY INSPECTOR AND CONTRACTOR IMMEDIATELY.
- PRIVATE DEVELOPMENT PROJECTS: THE DEVELOPER/OWNER SHALL PROVIDE TESTING FOR ALL PROJECT UNLESS SPECIFIED OTHERWISE. ALL REPORTS SHALL BE TURNED INTO THE INSPECTOR WITHIN FIVE (5) WORKING DAYS. THE DEVELOPER/OWNER SHALL PROVIDE GEOTECHNICAL TESTING PRIOR TO CONSTRUCTION COMMENCING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY'S APPROVED TESTING FIRM AND THE CITY'S INSPECTOR AT LEAST 24 HOURS PRIOR TO ANY REQUIRED TESTING.
- THE CONTRACTOR SHALL COORDINATE ALL TESTING ACTIVITIES WITH THE CITY AND ITS INSPECTOR AND SHALL FACILITATE REQUIRED TESTING THROUGHOUT THE CONSTRUCTION PERIOD. THE INSPECTOR SHALL BE PRESENT DURING ALL TESTING. ALL PIPE, FITTINGS, AND OTHER CONSTRUCTION MATERIALS SHALL BE INSPECTED FOR DEFECTS AND CONFORMANCE TO CITY OF LANCASTER STANDARDS PRIOR TO PLACEMENT.
- ALL TESTING RESULTS WILL BE SUBMITTED TO THE CONTRACTOR AND INSPECTOR WITHIN FIVE WORKING DAYS OF TESTING.
- THE CITY SHALL MAKE FINAL DECISION AS TO THE VALIDITY OF ALL

### TESTING RESULTS.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT MATERIALS TO BE TESTED ARE IN COMPLIANCE WITH ALL PLANS AND SPECIFICATIONS PRIOR TO TESTING. ALL MATERIALS FOUND NOT TO BE IN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS BEFORE AND AFTER TESTING SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- ALL COSTS ASSOCIATED WITH THE RETESTING OF WORK THAT FAILS TO MEET THE SPECIFICATIONS REQUIRED IN THE CONTRACT DOCUMENTS SHALL BE BORNE BY THE CONTRACTOR THROUGH THE DEVELOPER/CITY. FOR CITY PROJECTS RETESTING COST SHALL BE WITHHELD FROM PAY REQUESTS SUBMITTED BY THE CONTRACTOR, THIS COST WILL BE BASED ON THE CITY'S COST WITH NO ADDITIONAL MARK-UP. A LETTER OF ACCEPTANCE WILL NOT BE ISSUED UNTIL ALL TESTING DEFICIENCIES ARE ADDRESSED AND ALL RELATED COST PAID.

#### MATERIALS TESTING POLICIES:

- INSPECTOR AND TESTING FIRM MUST BE NOTIFIED 24 HOURS PRIOR TO ANY REQUIRED TESTING. FAILURE TO NOTIFY INSPECTOR AND TESTING FIRM MAY RESULT IN REJECTION OF THE WORK AND THE REMOVAL AND REPLACEMENT OF THE MATERIAL. INSPECTOR SHALL BE PRESENT DURING ALL TESTING. ALL PIPE, FITTINGS, AND OTHER CONSTRUCTION MATERIALS SHALL BE INSPECTED FOR DEFECTS AND CONFORMANCE TO CITY OF LANCASTER STANDARDS PRIOR TO PLACEMENT.
- THE CONTRACTOR MAKING ANY CONNECTION, EXTENSION OR MODIFICATION TO A PUBLIC UTILITY (WATER, WASTEWATER, OR STORM DRAIN), SHALL ALSO BE RESPONSIBLE FOR THE COMPACTION OF THE UTILITY TRENCH BACKFILL WITHIN THE EASEMENT OR RIGHT-OF-WAY. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE REPLACEMENT OF ANY PAVING THAT IS REMOVED TO MAKE ANY CONNECTION, EXTENSION OR MODIFICATION TO SAID PUBLIC UTILITY.

### SECTION 1: SANITARY SEWER MAINS

## BACKFILL AND DENSITY TESTING

- ALL TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH SECTION 7 MECHANICAL TAMPING (ON THIS SHEET) MECHANICALLY COMPACTED WITH APPROVED VIBRATORY METHODS IN ACCORDANCE WITH NCTCOG SPECIFICATIONS ITEM 504.5.3.2.1 UNLESS OTHERWISE STATED ON THE PLANS OR IN THE SPECIFICATIONS.
- DENSITIES SHALL CONFORM TO SECTION 7 AND NCTCOG SPECIFICATIONS ITEM 504.5.3.2.1, UNLESS OTHERWISE STATED ON THE PLANS OR IN THE SPECIFICATIONS. PROCTOR SAMPLES SHALL BE TAKEN FOR ALL CLASSIFICATIONS OF SOIL ON SITE. ATTERBERG LIMITS SHALL BE DETERMINED ON ALL PROCTOR SAMPLES. DENSITIES SHALL BE IN ACCORDANCE WITH SECTION 7. NO "POTHOLING" OR "DIG-BACKS" WILL BE ALLOWED. DENSITIES SHALL BE TAKEN ON ALL SEWER SERVICES BOTH SIDES OF THE STREET WITHIN THE RIGHT-OF-WAY AND SHALL CONFORM TO SECTION 7 AND NCTCOG SPECIFICATIONS ITEM 504.5.3.2.1, UNLESS OTHERWISE STATED ON THE PLANS OR IN THE SPECIFICATIONS. BACKFILL ADJACENT TO ALL STRUCTURES SHALL BE COMPACTED MANUALLY AND DENSITY TESTED ON EVERY LIFT.

### SEWER LINE INSPECTION AND TESTING:

- ALL SEWER LINES SHALL BE TESTED WITH A MANDREL FOR 5% DEFLECTION (MAX.) IN ACCORDANCE WITH NCTCOG SPECIFICATION, ITEM 507.5.1.4.1. INSPECTOR OR OTHER CITY REPRESENTATIVE MUST BE PRESENT. ALL SEWER LINES SHALL BE TESTED BY A LOW PRESSURE AIR TEST ACCORDING TO THE NCTCOG SPECIFICATIONS, ITEM 507.5.1.3. INSPECTOR OR OTHER CITY REPRESENTATIVE MUST BE PRESENT. ALL SEWER LINES SHALL BE TELEVISED AND PLACED ON DVD (DIGITAL VIDEO DISK). A COPY OF THE DVD AND T.V. REPORT SHALL BE SUBMITTED TO THE CITY PRIOR TO ANY PAVING ACTIVITIES SO FAILURES MAY BE IDENTIFIED AND REPAIRED ACCORDINGLY (NCTCOG SPECIFICATIONS ITEM 507.5.2). ALL SERVICES SHALL NOT BE "PANNED" MANDRELED, AIR TESTED, NOR T.V. INSPECTED UNTIL ALL UTILITIES ARE COMPLETE IN PLACE AND BACKFILLED.

### MANHOLE CONSTRUCTION:

- A CONCRETE MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY PRIOR TO ANY PLACEMENT OF CONCRETE. SEE CITY OF LANCASTER STANDARD CONSTRUCTION DETAILS FOR CONCRETE REQUIREMENTS. SULFATE RESISTANT CONCRETE SHALL BE USED FOR ALL MANHOLES.
- INSPECTOR SHALL BE NOTIFIED OF CONCRETE PLACEMENT 24 HOURS IN ADVANCE FOR STEEL AND FORM INSPECTION.
- ONE SET OF FOUR CYLINDERS (2-7 DAY, 2-28 DAY) FOR CAST-IN-PLACE MANHOLES SHALL BE MADE FOR EVERY DAY CONCRETE IS PLACED (ASTM C-31). AIR, SLUMP, AND TEMPERATURE TESTS SHALL BE TAKEN FOR EVERY SET OF CYLINDERS MADE. CONCRETE WITH A TEMPERATURE ABOVE 95° F WILL BE REJECTED. ADDITIONAL CYLINDERS AND OR TESTS MAY BE REQUESTED AT THE INSPECTOR OR ENGINEER'S DISCRETION. EXTERIOR FORMS SHALL NOT BE REMOVED FOR A MINIMUM OF 24 HOURS UNLESS APPROVED BY INSPECTOR OR ENGINEER.
- NO BACKFILLING AROUND MANHOLES SHALL BE PERMITTED UNTIL AT LEAST 72 HOURS AFTER FORM REMOVAL.
- ALL BACKFILL AROUND MANHOLES AND OTHER STRUCTURES SHALL BE MANUALLY PERFORMED AND SOIL DENSITIES SHALL BE TAKEN AT EVERY LIFT (6-8") IN SPIRAL FASHION.
- MAXIMUM SIZE ROCK IN BACKFILL SHALL NOT EXCEED 6" IN DIAMETER.

SECTION 2: WATER MAINS

#### BACKFILL AND DENSITY TESTING

- ALL TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH SECTION 7 (ON THIS SHEET) AND MECHANICALLY COMPACTED WITH APPROVED VIBRATORY METHODS (NCTCOG SPECIFICATIONS ITEM 504.5.3.2.1). DENSITIES SHALL CONFORM TO SECTION 7 AND NCTCOG SPECIFICATIONS ITEM 504.5.3.2.1 UNLESS OTHERWISE STATED ON THE PLANS OR IN THE SPECIFICATIONS. PROCTOR SAMPLES SHALL BE TAKEN FOR ALL CLASSIFICATIONS OF SOIL ON SITE. ATTERBERG LIMITS SHALL BE DETERMINED ON ALL PROCTOR SAMPLES.
- DENSITIES SHALL BE IN ACCORDANCE WITH SECTION 7. NO "POTHOLING" WILL BE ALLOWED. DENSITIES SHALL BE TAKEN ON ALL LONG SERVICES UNDER PAVEMENT AND SHALL CONFORM TO SECTION 7 AND NCTCOG SPECIFICATIONS ITEM 504.5.3.2.1, UNLESS OTHERWISE STATED ON THE PLANS OR IN THE SPECIFICATIONS. BACKFILL ADJACENT TO HYDRANTS, METER VAULTS, AND OTHER WATER RELATED STRUCTURES SHALL BE COMPACTED MANUALLY AND DENSITY TESTED ON EVERY LIFT.

#### WATER MAIN TESTING

- SAMPLE LOCATIONS SHALL BE DETERMINED BY INSPECTOR. (SAMPLES MAY ONLY BE TAKEN MONDAY THROUGH THURSDAY FROM 8 AM TO 12 PM). INSPECTION OF WATER SERVICES AND MAIN LINE VALVES WILL BE DONE AT PRELIMINARY AND FINAL WALK THROUGH TO ENSURE SERVICES ARE "HOT" AND VALVES ARE OPERATIONAL AND FULLY OPEN. THIS WILL BE DONE BY OPERATING EACH SERVICE BRIEFLY TO VERIFY WATER FLOW AND OPERATING EACH VALVE TO A CLOSED POSITION AND BACK TO THE FULL OPEN POSITION. INSPECTION OF FIRE HYDRANTS WILL ALSO BE DONE AT FINAL WALK-THROUGH. THE HYDRANT WILL BE OPERATED WITH ALL CAPS CLOSED TO DEMONSTRATE NO FLANGE SEAL LEAKAGE. THEN THE HYDRANT WILL BE OPERATED WITH ONE CAP REMOVED TO DEMONSTRATE EASE OF OPERATION, WATER FLOW. AND WEEP-HOLE PERFORMANCE.
- MAXIMUM SIZE ROCK IN BACKFILL SHALL NOT EXCEED 6" IN DIAMETER.

#### SECTION 3: STORM DRAINS

#### BACKFILL AND DENSITY TESTING

- ALL TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH SECTION 7 (ON THIS SHEET) AND MECHANICALLY COMPACTED WITH APPROVED VIBRATORY METHODS (NCTCOG SPECIFICATIONS ITEM 504.5.3.2.1) UNLESS OTHERWISE STATED ON THE PLANS OR IN THE SPECIFICATIONS. DENSITIES SHALL CONFORM TO SECTION 7 AND NCTCOG SPECIFICATIONS ITEM 504.5.3.2.1 UNLESS OTHERWISE STATED ON THE PLANS OR IN THE SPECIFICATIONS. PROCTOR SAMPLES SHALL BE TAKEN FOR ALL CLASSIFICATIONS OF SOIL ON SITE. ATTERBERG LIMITS SHALL BE DETERMINED ON ALL PROCTOR SAMPLES. DENSITIES SHALL BE IN ACCORDANCE WITH SECTION 7. NO "POTHOLING" WILL BE ALLOWED. DENSITIES SHALL BE TAKEN ON EVERY LATERAL UNDER PAVEMENT AND SHALL CONFORM TO SECTION 7 AND NCTCOG SPECIFICATIONS ITEM 504.5.3.2.1 UNLESS OTHERWISE STATED ON THE PLANS OR IN THE SPECIFICATIONS. BACKFILL ADJACENT TO INLETS, HEADWALLS, JUNCTION BOXES, AND OTHER STRUCTURES SHALL BE COMPACTED MANUALLY AND DENSITY TESTED ON EVERY LIFT

#### CONNECTIONS

- BELL & SPIGOT ENDS SHALL BE PRIMER COATED. COLLARS, JUNCTIONS, WYES, AND DAMAGE REPAIRS WILL BE INSPECTED PRIOR TO CONCRETE PLACEMENT AND AGAIN PRIOR TO FINAL EMBEDMENT AND BACKFILL.

#### STRUCTURE CONSTRUCTION

- PRE-CAST MANHOLES OR INLETS SHALL BE PERMISSIBLE FOR PUBLIC STORM DRAIN. A CONCRETE MIX DESIGN MUST BE SUBMITTED AND APPROVED BY GEOTECH PRIOR TO ANY PLACEMENT OF CONCRETE. SEE CITY OF LANCASTER STANDARD CONSTRUCTION DETAILS FOR CONCRETE REQUIREMENTS. INSPECTOR SHALL BE NOTIFIED OF CONCRETE PLACEMENT 24 HOURS IN ADVANCE FOR STEEL AND FORM INSPECTION. ONE SET OF FOUR CYLINDERS (2-7 DAY, 2-28 DAY) SHALL BE MADE FOR EVERY DAY CONCRETE IS PLACED (ASTM C-31). AIR, SLUMP, AND TEMPERATURE TESTS SHALL BE TAKEN FOR EVERY SET OF CYLINDERS MADE. CONCRETE WITH A TEMPERATURE ABOVE 95° F WILL BE REJECTED. ADDITIONAL CYLINDERS AND OR TESTS MAY BE REQUESTED AT THE INSPECTOR OR ENGINEER'S DISCRETION. EXTERIOR FORMS SHALL NOT BE REMOVED FOR A MINIMUM OF 24 HOURS UNLESS APPROVED BY INSPECTOR OR ENGINEER.
- NO BACKFILLING ROUND STRUCTURES SHALL BE PERMITTED UNTIL AT LEAST 72 HOURS AFTER FORM REMOVAL.
- ALL STORM DRAIN LINES SHALL BE TELEVISED AND PLACE ON DVD (DIGITAL VIDEO DISK). A COPY OF THE DVD AND STATIONED REPORT SHALL BE SUBMITTED TO THE CITY PRIOR TO ANY PAVING ACTIVITIES SO FAILURES MAY BE IDENTIFIED AND REPAIRED ACCORDINGLY (NCTCOG SPECIFICATIONS ITEM 507.5.2).
- MAXIMUM SIZE ROCK IN BACKFILL SHALL NOT EXCEED 6" IN DIAMETER.

## SECTION 4: STABILIZATION OF SUB-GRADE

### SOIL CLASSIFICATION AND SAMPLING "

- SAMPLES SHALL BE TAKEN FOR ALL CLASSIFICATIONS OF SOILS ON SITE. TESTING FOR SULFATE PRESENCE AND LIME SERIES TESTS SHALL BE CONDUCTED FOR ALL SAMPLES PRIOR TO ANY STABILIZATION. SPECIFIC RECOMMENDATION SHALL BE MADE BY GEOTECHNICAL ENGINEER FOR SUBGRADE PREPARATION AND THICKER PAVEMENT SECTION TO BE APPROVED BY THE CITY IF SULFATE CONTENT IS GREATER THAN 2,000 PPM (PARTS PER MILLION). WHERE LIME IS RECOMMENDED, LIME CONTENT SHALL BE 6% MINIMUM. FOR SOILS WITH A P.I. OF LESS THAN 10, A MINIMUM OF 5% PORTLAND CEMENT SHALL BE USED. ADDITIONAL GEOTECHNICAL TESTING AND RECOMMENDATIONS MAY BE REQUIRED BY CITY AS FIELD CONDITIONS DICTATE. ATTERBERG LIMITS SHALL BE DETERMINED ON ALL PROCTOR SAMPLES.
- LIME STABILIZED SUB-GRADE SHALL HAVE AN INITIAL CURE TIME OF NOT LESS THAN 72 HOURS PRIOR TO RE-MIXING ACCORDING TO NCTCOG SPEC. ITEM 301.2.3.5.1.

### SUB-GRADE TESTING

- GRADATIONS FOR LIME TREATED SUB-GRADE SHALL BE TAKEN AT INTERVALS NOT EXCEEDING 300 FEET ALONG ROAD AND MUST PASS 100% THROUGH A 1 3/4" SIEVE AND 60% THROUGH A #4 SIEVE ACCORDING TO NCTCOG SPECIFICATIONSITEM 301.2.3.5.1.
- GRADATIONS FOR PORTLAND CEMENT TREATED SUB-GRADE SHALL BE TAKEN PRIOR TO PLACEMENT OF CEMENT AND AT INTERVALS NOT EXCEEDING 100 FEET ALONG ROAD AND MUST PASS 100% THROUGH A 1" SIEVE AND 80% THROUGH A #4 SIEVE ACCORDING TO NCTCOG SPECIFICATIONS(ITEM 301.3.3.2).
- LIME SUB-GRADE SHALL BE TESTED IN ACCORDANCE WITH NCTCOG SPECIFICATIONS(ITEM 301.2.1.3). TESTS
  WILL BE PERFORMED BY EXCAVATING DEEPER THAN LIME TREATMENT AND ADMINISTERING A
  PHENOLPHTHALEIN INDICATOR.
- DENSITIES SHALL BE TAKEN ON SUB-GRADE IN ACCORDANCE WITH SECTION 7 MECHANICAL TAMPING AND IN ACCORDANCE WITH (NCTCOG SPECIFICATIONS ITEM 301.2.3.6) UNLESS OTHERWISE STATED ON THE PLANS OR IN THE SPECIFICATIONS.
- ALL SUB-GRADE SHALL BE VISUALLY 'PROOF ROLLED' AFTER IT IS TRIMMED AND PRIOR TO PLACEMENT OF STEEL.
- DENSITIES SHALL BE TAKEN WITHIN 48 HOURS OF CONCRETE PLACEMENT (NCTCOG SPECIFICATIONS ITEM 303.5.1). IF MORE THAN 48 HOURS ELAPSE, DENSITIES MUST BE RETAKEN UNLESS AN APPROVED EMULSION SEALANT IS USED (NCTCOG SPECIFICATIONS ITEM 302.3.5).

- LOCATIONS FOR DENSITIES, GRADATIONS, AND DEPTH CHECKS SHALL BE AT THE DISCRETION OF THE INSPECTOR AND SHALL BE REPRESENTATIVE OF THE ENTIRE CROSS SECTION OF THE SUB-GRADE.
- SUB-GRADE FAILURES SHALL BE DEFINED BY INSPECTOR OR ENGINEER. REPAIR METHOD WILL BE DISCUSSED WITH INSPECTOR OR ENGINEER AND APPROVED PRIOR TO BEGINNING REPAIR WORK.
- AT ALL TESTING LOCATION INTERVALS, MULTIPLE TESTS MAY BE REQUIRED ACROSS WIDTH OF RIGHT-OF-WAY.
- FOR EMULSION PLACEMENT OVER SUB-GRADE PLEASE REFER TO NCTCOG SPECIFICATIONS ITEM 302.3.5

#### SECTION 5: CONCRETE PAVEMENT (NCTCOG SECTION-303)

#### MATERIALS AND BATCH DESIGN SUBMITTED FOR APPROVAL:

- THE CONTRACTOR SHALL SUBMIT FOR THE APPROVAL OF THE ENGINEER, PRIOR TO COMMENCING WORK, CONCRETE BATCH DESIGN MIXES TO BE USED IN ALL STRUCTURAL CONCRETE, SHOWING BY WEIGHT AND PROPORTION EACH OF CEMENT, FLYASH, ADMIXTURE, FINE AGGREGATE, AND COURSE AGGREGATE AND WATER TO OBTAIN A CONCRETE OF PROPER CONSISTENCY, DENSITY AND WORKABILITY. TESTING INFORMATION SHALL BE PROVIDED TO CONFIRM THE MIX DESIGN IS CAPABLE OF PRODUCING CONCRETE IN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS. NO NATIVE/NATURAL STONE, RIVER ROCK/PEA GRAVEL SHALL BE ALLOWED. FINE AGGREGATE IE. (SAND) SHALL BE NATURAL SAND. NO BLEND WILL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ENGINEER. NO MORE THAN 20% MANUFACTURED SAND BLEND WILL BE ALLOWED UNDER ANY CIRCUMSTANCE.

#### CONCRETE TESTING

- CONCRETE MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY PRIOR TO ANY PLACEMENT OF CONCRETE. SEE CITY OF LANCASTER STANDARD CONSTRUCTION DETAILS FOR CONCRETE REQUIREMENTS. INSPECTOR SHALL BE NOTIFIED OF CONCRETE PLACEMENT 24 HOURS IN ADVANCE FOR STEEL AND FORM INSPECTION. A MINIMUM OF FOUR TEST CYLINDERS SHALL BE OBTAINED PER ONE HUNDRED CUBIC YARD OF CONCRETE PRODUCTION; TESTS SHALL ALSO INCLUDE SLUMP, AIR CONTENTS AND TEMPERATURE OF CONCRETE MIXTURE; EACH MIX DESIGN OF CONCRETE PLACED EACH DAY SHALL ALSO BE TESTED. CONCRETE STRENGTH SHALL BE TESTED AT 7 DAYS (2 CYLINDERS) AND 28 DAYS (2 CYLINDERS). ADDITIONAL CYLINDERS AND OR TESTS MAY BE REQUESTED AT THE INSPECTOR OR ENGINEER'S DISCRETION.

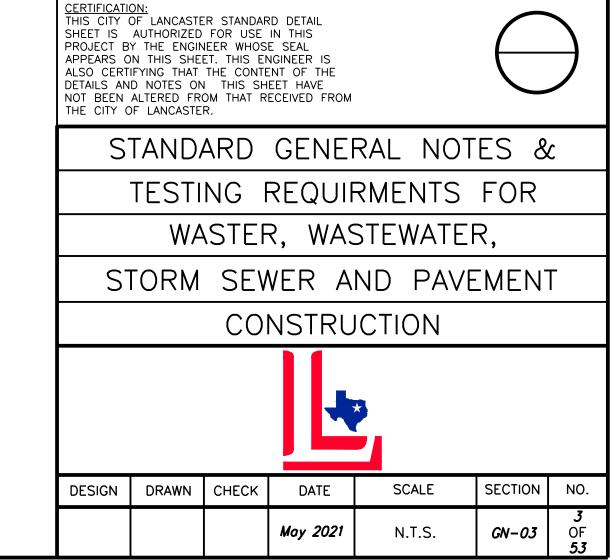
#### HOT WEATHER CONCRETE PLACEMENT

- CONCRETE WITH A TEMPERATURE OF 85° OR HIGHER WILL REQUIRE A RETARDING AGENT ADMIXTURE. THE MAXIMUM TEMPERATURE OF CONCRETE AT THE TIME OF PLACEMENT SHALL NOT EXCEED 95°. IT SHALL BE THE CONTRACTOR AND/OR HIS SUPPLIERS'S RESPONSIBILITY TO TAKE STEPS TO CONTROL THE TEMPERATURE OF CONCRETE. ALL CONCRETE THAT EXCEEDS THE TEMPERATURE LIMIT OF 95° WILL BE REJECTED.

- STAMP OR DIE PROJECT PAVING LIMITS INCLUDING ALL STREET INTERSECTIONS TO N.C.T.C.O.G. ITEM. 303.5.6.1.3.

#### SECTION 6: CURE TIME, CORES, & FORM REMOVAL

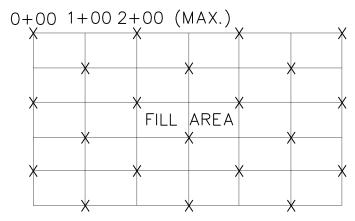
- FORMS SHALL NOT BE REMOVED FROM PAVEMENT, SIDEWALKS, RAMPS, OR RETAINING WALLS FOR 24 HOURS MINIMUM, AND SHALL NOT BE BACKFILLED LESS THAN 72 HOURS AFTER CONCRETE PLACEMENT. PAVEMENT SHALL HAVE A MINIMUM CURE TIME OF 7 DAYS, BUT MAY BE OPENED TO TRAFFIC EARLIER AT THE DISCRETION OF THE INSPECTOR OR ENGINEER ONLY AFTER REVIEW OF COMPRESSIVE STRENGTH DATA. TEMPORARY PERPENDICULAR CROSSINGS MAY BE MADE AFTER 72 HOURS BY RAMPING SOIL OVER THE NEW PAVEMENT AT A DEPTH OF NOT LESS THAN 18" AND A WIDTH OF NOT LESS THAN 10". PRIOR TO GROUT WIPING ANY CONCRETE, CONTRACTOR SHALL DEMONSTRATE METHOD OF SURFACE PREPARATION TO ENSURE ADHESION OF GROUT. ALL STREET PAVEMENT SHALL BE CORED TO VERIFY PROPER PAVEMENT THICKNESS AND STRENGTH PRIOR TO ACCEPTANCE. CORES FOR STRENGTH AND DEPTH SHALL BE 4" DIAMETER AND TAKEN AT INTERVALS NOT EXCEEDING 600 FEET; CORES FOR DEPTH ONLY SHALL BE 2" DIAMETER AND SHALL BE TAKEN AT INTERMEDIATE INTERVALS NOT EXCEEDING 300". LOCATIONS WILL BE APPROVED BY THE CITY. MULTIPLE CORES MAY BE REQUIRED AT EACH INTERVAL TO REPRESENT ENTIRE CROSS SECTION. ALL CORES SHALL BE TAKEN AT 28 DAYS AND RESULTS SHALL BE CORRELATED WITH THE CYLINDER TEST RESULTS. EVALUATION OF CORES WILL BE IN ACCORDANCE WITH NCTCOG SPECIFICATIONS(ITEM 303.8.2). ALL REQUIRED PAVEMENT REPLACEMENT SHALL BE IN FULL PANEL INCREMENTS.



SECTION 7: MECHANICAL TAMPING OF BACKFILL

- ALL DITCH LINES AND BORE PITS SHALL BE MECHANICALLY TAMPED.

- BACKFILL, OTHER THAN SELECT FILL, MAY CONSIST OF ONSITE OR OFFSITE INORGANIC SOILS AND SHOULD BE PLACED IN LOOSE LIFTS 6"-8" IN THICKNESS AND SHOULD BE MECHANICALLY COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY
- AS DEFINED BY ASTM D-698 (STANDARD PROCTOR) PROCEDURES UNDER EXISTING AND PROPOSED PAVEMENT, AND TO 95 PERCENT STANDARD PROCTOR PROCEDURES ELSEWHERE. THE MOISTURE CONTENT OF THE FILL AT THE TIME OF COMPACTION SHALL BE BETWEEN 0 TO FOUR PERCENTAGE POINTS ABOVE THE PROCTOR OPTIMUM VALUE.
- ALL BACKFILL MATERIAL TO BE SELECT NATIVE MATERIAL 6" DIAMETER CLODS AND SMALLER UNLESS DIRECTED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS AND TO BE MECHANICALLY TAMPED AND DENSITY CONTROLLED AS DESCRIBED IN ITEM NO. B. ABOVE.
- WATER JETTING IS NOT PERMITTED.
- DENSITIES SHALL BE TAKEN EVERY ONE LIFT AT STAGGERED LOCATIONS NOT TO EXCEED 200 FEET INCREMENTS. OFFSET FIFTY FEET EVERY OTHER LIFT.
- DENSITIES MAY BE TAKEN AT TYPICAL LOCATIONS AS SHOWN BELOW; ALSO DENSITIES WILL BE TAKEN AT RANDOM LOCATIONS AND AT THE GEO-TECHNICIAN'S DISCRETION.



#### (LEGEND: X DENOTES DENSITIES.)

- SOLUBLE SULFATE TESTS SHALL BE PERFORMED EVERY THREE HUNDRED LINEAR FEET AFTER UTILITY CONSTRUCTION HAS BEEN COMPLETED AND FINAL PAVEMENT SUB-GRADES HAVE BEEN ACHIEVED. SULFATE RESISTANT CONCRETE SHALL BE UTILIZED FOR ALL AREAS WHERE HIGH CONCENTRATIONS OF SOLUBLE SULFATES ARE PRESENT; SULFATE CONTENTS EXCEEDING 2000 PARTS PER MILLION (PPM) ARE CONSIDERED HIGH. SULFATE TESTING METHOD SHALL COMPLY WITH TXDOT'S TEST METHOD TEX145E.

SECTION 8: BATCH PLANT REQUIREMENTS WITHIN THE CITY LIMITS AND ETJ:

- THE CONTRACTOR SHALL COMPLY WITH THE CITY OF LANCASTER REQUIREMENTS:
- PERMITS:
- PERMIT FOR TEMPORARY CONCRETE, ASPHALT OR ANY OTHER TYPE PLANT ESTABLISHED FOR MIXING MATERIALS FOR PAVING OR BUILDING MUST BE GRANTED BY THE CITY BUILDING INSPECTIONS.

SECTION 9: GENERAL:

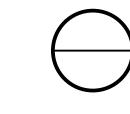
- SOIL TESTING TECHNICIANS SHALL PROVIDE WRITTEN PROOF OF HAVING MINIMUM OF TWO YEARS OF RELATED FIELD EXPERIENCE.
- HOT-MIX ASPHALT CONCRETE PAVEMENT
- SPECIFICATION SHALL FOLLOW ITEM 302 OF THE N.C.T.C.O.G. AND CONFORM TO THE TXDOT STANDARD FOR HOT-MIX ASPHALTIC CONCRETE.
- THE ASPHALTIC MIXTURE SHALL BE TESTED FOR OVEN BURN OFF/GRADATION AND STABILITY.
- A RELATIVE DENSITY OF NOT LESS THAN 92% WILL BE REQUIRED AFTER FINAL COMPACTION OF THE IN-PLACE PAVEMENT SECTION. THE CONTRACTOR SHALL SCHEDULE THE CMT LABORATORY TO COME OUT IN THE FIELD AND ESTABLISH A ROLLING PATTERN. THE USE OF NUCLEAR FIELD DENSITY DETERMINATIONS SHALL NOT BE ACCEPTED AS THE BASIS FOR ACCEPTANCE WITH RESPECT TO DENSITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THAT THE COMPACTION OF THE ASPHALTIC CONCRETE IN PLACE WILL ATTAIN BETWEEN FIVE AND NINE PERCENT AIR VOIDS. THE CONTRACTORS' RESPONSIBILITY FOR THE REQUIRED COMPACTION INCLUDES THE SELECTION OF ROLLING EQUIPMENT AND SELECTION OF ROLLING PATTERNS TO ACHIEVE THE REQUIRED COMPACTION.
- HMAC MIX TEMPERATURE RANGE AT TIME OF PLACEMENT SHALL BE BETWEEN 260° AND 325°. THE ASPHALTIC MIXTURE SHALL NOT BE PLACED WHEN THE AIR TEMPERATURE IS BELOW 50°F BUT MAY BE PLACED WHEN THE AIR TEMPERATURE IS ABOVE 40°F AND RISING, THE TEMPERATURE BEING TAKEN IN THE SHADE AND AWAY FROM ARTIFICIAL HEAT.
- -IN-PLACE COMPACTION CONTROL IS REQUIRED FOR ALL MIXTURES. ASPHALTIC CONCRETE SHOULD BE PLACED AND COMPACTED TO CONTAIN NOT MORE THAN NINE PERCENT NOR LESS THAN FIVE PERCENT AIR VOID UNLESS OTHERWISE INDICATED. THE PERCENT AIR VOIDS WILL BE CALIBRATED USING THE MAXIMUM THEORETICAL SPECIFIC GRAVITY OF THE MIXTURE DETERMINED ACCORDING TO TXDOT TEST METHOD TEX-227-F ROADWAY SPECIMEN, WHICH SHALL EITHER BE CORES OR SECTIONS OF PAVEMENT, WILL BE TESTED ACCORDING TO TXDOT TEST METHOD TEX-207F. THE SAME SPECIMEN SHALL BE USED TO DETERMINING BOTH THE THEORETICAL DENSITY AND FIELD DENSITY.
- PRIME COAT WILL FOLLOW N.C.T.C.O.G. SPECIFICATIONS 302.7 AND 302.9.6.1.
- TACK COAT WILL FOLLOW N.C.T.C.O.G. SPECIFICATION ITEM 302.9.6.2.
- HMAC MIX DESIGNS SHALL FOLLOW N.C.T.C.O.G. SPECIFICATION ITEM 302.9.3 AND THE GRADING TABLES INCLUDED IN THIS SECTION. THESE MIXTURES WILL BE IN ACCORDANCE WITH TXDOT TEST METHOD TEX-204-F, DESIGN OF BITUMINOUS MIXTURES.
- FLOWABLE FILL SPECIFICATIONS
- COMPOSITION OF FLOWABLE FILL SHALL INCLUDE NATIVE SAND OR A BLEND OF NATIVE SAND/MANUFACTURED SAND, CEMENT AND FLY ASH WHICH WILL PRODUCE A MATERIAL WITH UNCONFINED COMPRESSIVE STRENGTH OF 250 TO 450 PSI AFTER TWENTY-EIGHT DAYS.
- FLOWABLE FILL MUST BE MIXED AT A CONCRETE BATCH PLANT OR A MOBILE TRANSIT AND SHALL HAVE A SLUMP OF FIVE TO EIGHT INCHES AND AN AIR CONTENT OF SIX TO TWENTY PERCENT. THE MIXTURE MUST BE ALLOWED TO SET PRIOR TO THE PLACEMENT OF ANY OVERLYING MATERIAL.
- THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A MIX DESIGN TO BE USED TEN DAYS PRIOR TO THE START OF THE BACKFILL OPERATION. CONTRACTOR SHALL ALSO SUPPLY THE PUBLIC WORKS INSPECTOR A COPY OF THE BATCH PLANT DELIVERY TICKET FOR EACH DELIVERED TRUCKLOAD.

- THE CITY MAY EXERCISE THE OPTION OF TESTING THE MATERIAL AT RANDOM. IT SHALL BE THE OWNER/DEVELOPER'S RESPONSIBILITY FOR ANY COST ASSOCIATED WITH TESTING OF THE MATERIAL

#### TESTING OF MANHOLES:

- ALL MANHOLES SHALL BE VACUUM TESTED. MANHOLES SHALL BE TESTED IN THE PRESENCE OF THE CITY'S REPRESENTATIVE. THE VACUUM TEST SHALL CONSIST OF APPLYING A VACUUM TO THE MANHOLE. EACH MANHOLE SHALL BE TESTED AFTER THE INSTALLATION HAS BEEN COMPLETED. ALL PIPES ENTERING THE MANHOLE SHALL BE PLUGGED, TAKING CARE TO SECURELY BRACE THE PLUG FROM BEING DRAWN INTO THE MANHOLE. THE TEST HEAD SHALL BE PLACED AT THE INSIDE OF THE MANHOLE COVER FRAME, THE SEAL INFLATED AND THE MANHOLE SHALL BE TESTED IN ACCORDANCE WITH THE FOLLOWING A VACUUM OF 10 INCHES OF MERCURY SHALL BE DRAWN AND THE VACUUM PUMP SHUT OFF. WITH THE VALVES CLOSED, THE TIME SHALL BE MEASURED FOR THE VACUUM TO DROP TO 9 INCHES OF MERCURY. THE MANHOLE SHALL PASS IF THE TIME IS GREATER THAN 120 SECONDS.

CERTIFICATION:
THIS CITY OF LANCASTER STANDARD DETAIL
SHEET IS AUTHORIZED FOR USE IN THIS
PROJECT BY THE ENGINEER WHOSE SEAL
APPEARS ON THIS SHEET. THIS ENGINEER IS
ALSO CERTIFYING THAT THE CONTENT OF THE
DETAILS AND NOTES ON THIS SHEET HAVE
NOT BEEN ALTERED FROM THAT RECEIVED FROM
THE CITY OF LANCASTER.



STANDARD GENERAL NOTES &
TESTING REQUIRMENTS FOR

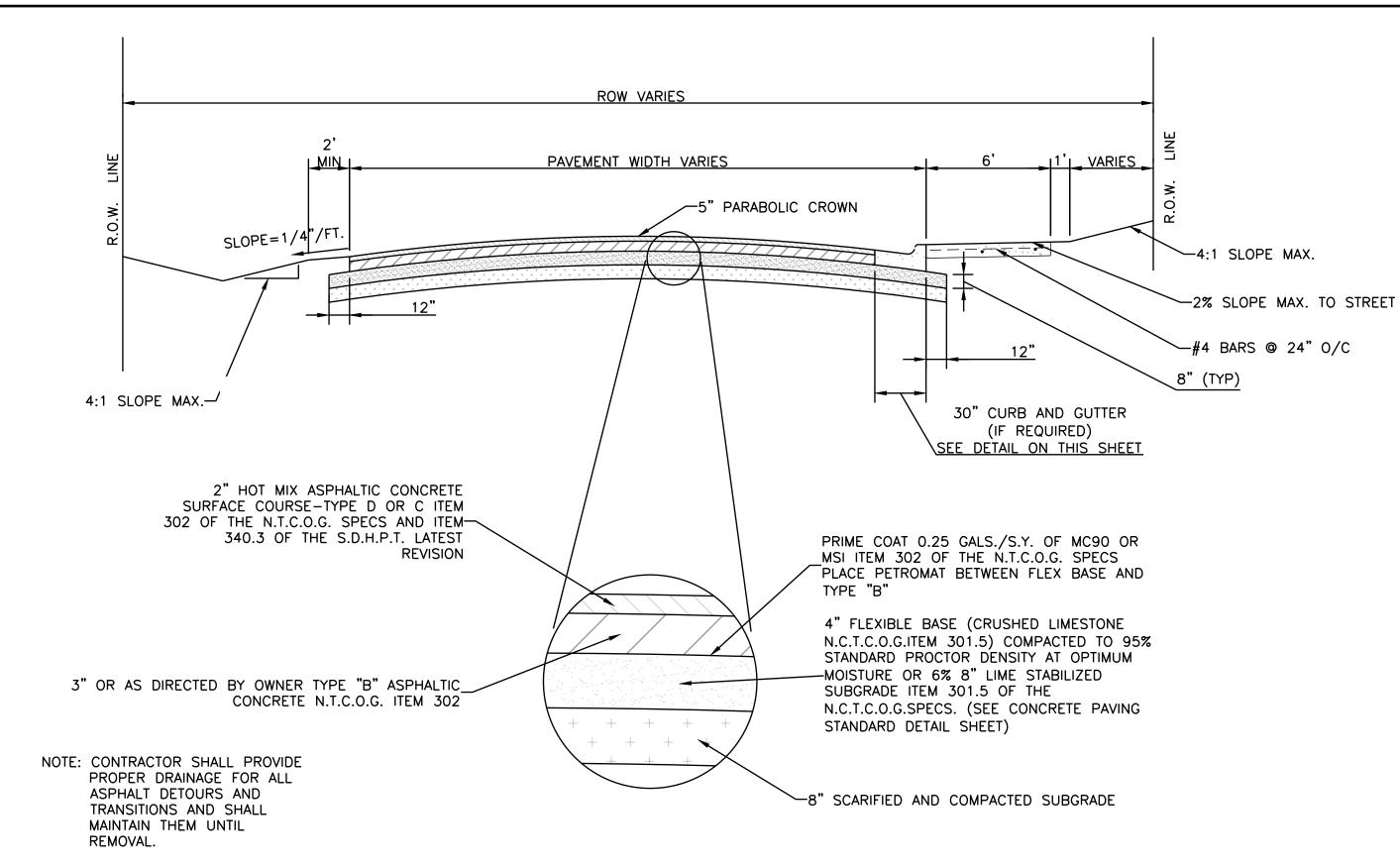
WASTER, WASTEWATER,

STORM SEWER AND PAVEMENT

CONSTRUCTION

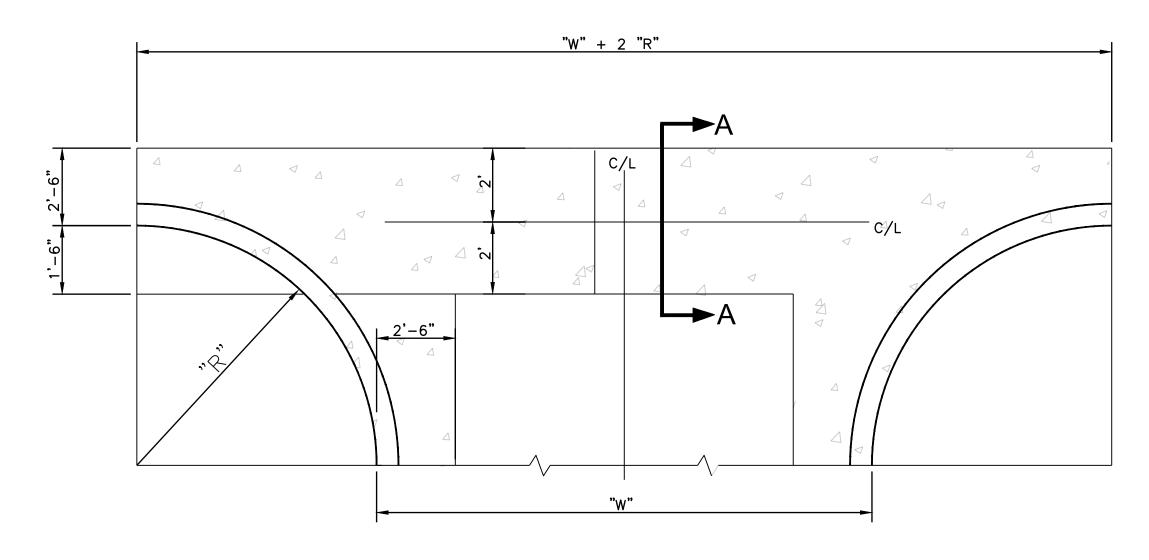


DESIGN	DRAWN	CHECK	DATE	SCALE	SECTION	NO.
			May 2021	N.T.S.	GN-04	<b>4</b> OF <b>53</b>



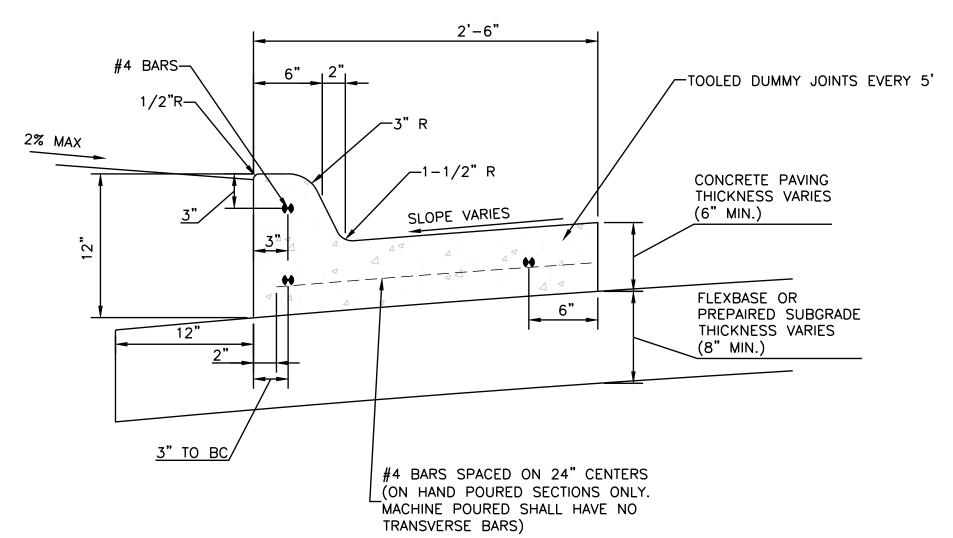
# ASPHALT PAVEMENT CROSS SECTION

(FOR EXISTING ASPHALT ROADWAY EXTENSION TEMPORARY DETOURS AND TRANSITIONS) NOT TO SCALE



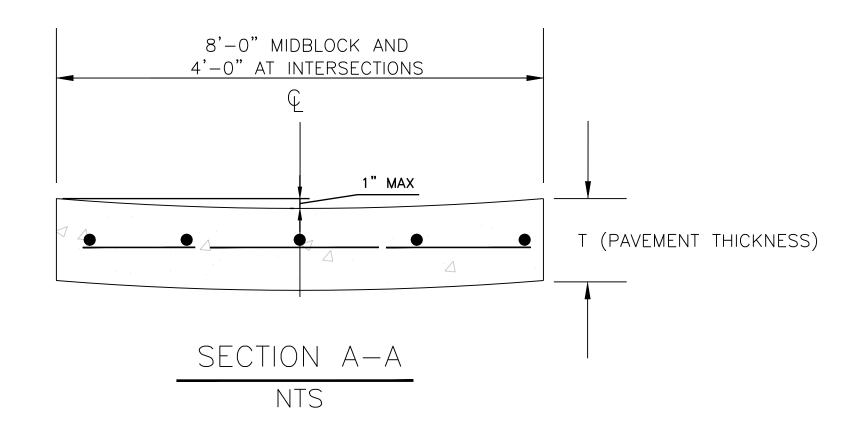
NOTE: ALL CONCRETE FOR VALLEY GUTTER SHALL BE CLASS "A"4500 PSI COMPRESSION STRENGTH. REINFORCING STEEL SHALL BE NO. 4 BARS ON 12" CENTERS BOTH WAYS.

VALLEY GUTTER PLAN NOT TO SCALE



## 6" MONOLITHIC CONCRETE CURB & GUTTER

NOT TO SCALE



VALLEY GUTTER SECTION NOT TO SCALE

## ASPHALT PAVING STANDARD RESIDENTIAL, COMMERCIAL INDUSTRIAL STREETS

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE CITY OF LANCASTER, WHICH HAS ALSO ADOPTED THE FOURTH EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION — NORTH CENTRAL TEXAS" HEREIN REFERRED TO AS "N.C.T.C.O.G." SPECIFICATIONS. COPIES MAY BE OBTAINED FROM THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, 616 SIX FLAGS DRIVE, SUITE 200, ARLINGTON, TEXAS 76005-5888 (817) 640-3300. ALSO REFER TO N.C.T.C.O.G. ITEM 303 SPECIFICATIONS THERE SHALL BE NO LEAVE OUTS FOR UTILITY ADJUSTMENTS; ALL MANHOLE, VALVE SETS ETC. SHALL BE CONSTRUCTED TO FINAL GRADE PRIOR TO PAVING. MEDIANS AND PARKWAYS SHALL BE SODDED. (NO SEEDING)

CONTRACTOR SHALL CONTACT STREETS DEPARTMENT FOR THE REMOVAL OF CITY SIGNS IN RIGHT-OF-WAY.

SUBGRADE PREPARATION:

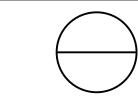
PLEASE REFER TO ITEM 301 OF THE N.C.T.C.O.G. SPECIFICATIONS. LIME STABILIZED SUBGRADE:

- A. PLEASE REFER TO ITEM 301.2 OF THE N.C.T.C.O.G. SPECIFICATIONS. LIME SHALL BE PLACED USING THE SLURRY METHOD, MAY BE MIXED ON-SITE OR TRUCKED IN. PLEASE REFER N.C.T.C.O.G. ITEM 301.2.3.4.2.
- 3. SEE CITY OF LANCASTER STANDARD GENERAL TESTING REQUIREMENTS FOR WATER, WASTEWATER, STORM DRAIN, AND PAVEMENT CONSTRUCTION.
- A. ALL MATERIAL INCORPORATED IN THE CONSTRUCTION SHALL BE NEW.
- B. HOT-MIX ASPHALT CONCRETE PAVEMENT: 1. SPECIFICATION SHALL FOLLOW SECTION 302 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION N.C.T.C.O.G. AND CONFORM TO THE TXDOT STANDARD
- FOR HOT-MIX ASPHALTIC CONCRETE. 2. THE ASPHALTIC MIXTURE SHALL BE TESTED FOR OVEN BURN OFF/GRADATION AND
- STABILITY. DENSITY (a) A RELATIVE DENSITY OF NOT LESS THAN 95% STANDARD PROCTOR AND MOISTURE
- CONTENT WITHIN 0 TO +4% OPTIMUM WILL BE REQUIRED AFTER FINAL COMPACTION OF THE IN-PLACE PAVEMENT SECTION. (b) THE CONTRACTOR SHALL SCHEDULE THE CMT LABORATORY TO COME OUT IN THE
- FIELD AND ESTABLISH A ROLLING PATTERN. (c) THE USE OF NUCLEAR FIELD DENSITY DETERMINATIONS SHALL NOT BE ACCEPTED
- AS THE BASIS FOR ACCEPTANCE WITH RESPECT TO DENSITY. (d) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THAT THE COMPACTION OF THE ASPHALTIC CONCRETE IN PLACE WILL ATTAIN BETWEEN 5% AND 9% (FIVE
- AND NINE PERCENT) AIR VOIDS. (e) THE CONTRACTORS' RESPONSIBILITY FOR THE REQUIRED COMPACTION INCLUDES THE SELECTION OF ROLLING EQUIPMENT AND SELECTION OF ROLLING PATTERNS
- TO ACHIEVE THE REQUIRED COMPACTION. 4. HMAC MIX TEMPERATURE RANGE AT TIME OF PLACEMENT SHALL BE BETWEEN 260° AND 325°. THE ASPHALTIC MIXTURE SHALL NOT BE PLACED WHEN THE AIR TEMPERATURE IS BELOW 50°F BUT MAY BE PLACED WHEN THE AIR TEMPERATURE IS ABOVE 40°F AND RISING, THE TEMPERATURE BEING TAKEN IN THE SHADE AND AWAY
- 5. COMPACTION CONTROL (a) IN-PLACE COMPACTION CONTROL IS REQUIRED FOR ALL MIXTURES.
- (b) ASPHALTIC CONCRETE SHOULD BE PLACED AND COMPACTED TO CONTAIN NOT MORE THAN 9% (NINE PERCENT) NOR LESS THAN 5% (FIVE PERCENT) AIR VOID UNLESS OTHERWISE INDICATED.
- (c) THE PERCENT AIR VOIDS WILL BE CALIBRATED USING THE MAXIMUM THEORETICAL SPECIFIC GRAVITY OF THE MIXTURE DETERMINED ACCORDING TO TXDOT TEST METHOD TEX-227-F ROADWAY SPECIMEN, WHICH SHALL EITHER BE CORES OR SECTIONS OF PAVEMENT, WILL BE TESTED ACCORDING TO TXDOT TEST METHOD
- (d) THE SAME SPECIMEN SHALL BE USED TO DETERMINING BOTH THE THEORETICAL DENSITY AND FIELD DENSITY.
- 6. PRIME COAT WILL FOLLOW N.C.T.C.O.G. SPECIFICATIONS 302.7 AND 302.9.6.1. 7. TACK COAT WILL FOLLOW N.C.T.C.O.G. SPECIFICATION 302.9.6.2.
- 8. HMAC MIX DESIGNS SHALL FOLLOW N.C.T.C.O.G. SPECIFICATION 302.9.3 AND THE GRADING TABLES INCLUDED IN THIS SECTION. THESE MIXTURES WILL BE IN ACCORDANCE WITH TXDOT TEST METHOD TEX-204-F, DESIGN OF BITUMINOUS
- C. CONCRETE CURB AND GUTTER:

FROM ARTIFICIAL HEAT.

- 1. ALL CONCRETE FOR CURB AND GUTTER SHALL BE 4500 PSI, 5% AIR (±1.5%) 2. EXPANSION JOINTS SHALL BE PLACED AT ALL INTERSECTIONS CR.S, PT.S, DRIVEWAYS, INLETS, AND OTHER CURB AND GUTTER OR EVERY 200 LF.
- 3. ALL EXPANSION JOINTS SHALL NOT BE LESS THAN 3/4" IN THICKNESS WITH LONGITUDINAL DOWELS.
- 4. DOWEL BARS SHALL BE THREE NO. 4 SMOOTH BARS, WITH A GREASED EXPANSION GAP WITH LENGTH AS FOLLOWS.
- (a) FOR 30" G&G LENGTH EQUALS 24"
- (b) FOR 24" G&G LENGTH EQUALS 18" (c) FOR 18" G&G LENGTH EQUALS 12"
- 5. ALL LOOSE MATERIAL BETWEEN THE FORM WILL BE REMOVED AND THE GRADE WETTED PRIOR TO THE PLACEMENT OF CONCRETE.
- (a) PLEASE REFER TO ITEM 303.5.8 AND 303.2.13.1.1 OF N.C.T.C.O.G.
- SPECIFICATIONS (b) THE CONTRACTOR SHALL USE A WHITE PIGMENTED LIQUID CURING COMPOUND AS
- PER N.C.T.C.O.G. 303.5.8 AND 303.2.13.1.1
- 7. CURB & GUTTER REPLACEMENT IS 30" MONOLITHIC CONC. PLACEMENT
- A. PLEASE REFER TO THE GENERAL NOTES SHEETS, GN-01 GN 04, FOR TESTING
- REQUIREMENTS FOR WATER, WASTEWATER, STORM DRAIN AND PAVEMENT CONSTRUCTION 3. THE CONTRACTOR WILL PROVIDE BACKFILL, DENSITY AND CONCRETE TESTING FOR ALL PROJECTS UNLESS SPECIFIED OTHERWISE. ALL REPORTS SHALL BE TURNED INTO THE
- INSPECTOR WITHIN FIVE (5) WORKING DAYS. PRIVATE DEVELOPMENT PROJECTS: A. THE DEVELOPER/OWNER SHALL PROVIDE TESTING FOR ALL PROJECT UNLESS SPECIFIED
- OTHERWISE. ALL REPORTS SHALL BE TURNED INTO THE INSPECTOR WITHIN FIVE (5) WORKING DAYS. THE DEVELOPER/OWNER SHALL PROVIDE GEOTECHNICAL TESTING PRIOR TO CONSTRUCTION COMMENCING.

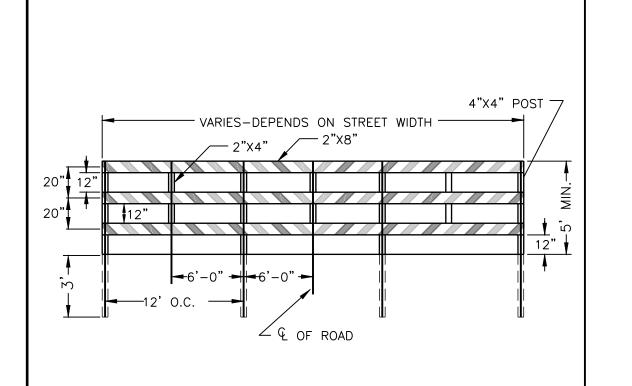
CERTIFICATION:
THIS CITY OF LANCASTER STANDARD DETAIL
SHEET IS AUTHORIZED FOR USE IN THIS PROJECT BY THE ENGINEER WHOSE SEAL APPEARS ON THIS SHEET. THIS ENGINEER IS ALSO CERTIFYING THAT THE CONTENT OF THE DETAILS AND NOTES ON THIS SHEET HAVE NOT BEEN ALTERED FROM THAT RECEIVED FROM THE CITY OF LANCASTER.

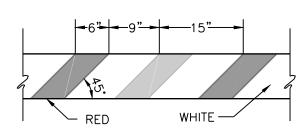


ASPHALT PAVEMENT, DETOURS

DESIGN DRAWN CHECK SECTION NO. DATE **PAV-01** OF May 2021 N.T.S.

AND TRANSITIONS STANDARD DETAILS



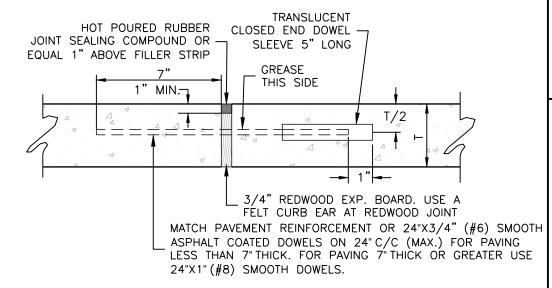


## END OF ROAD BARRICADE DETAIL

NOTES:

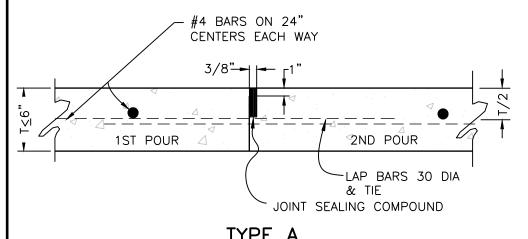
1. REFLECTIVE SHEETING FOR ALL TRAFFIC CONTROL DEVICES SHALL BE OF HIGH SPECIFIC INTENSITY (TYPE IIIA OR IIIB) ALL CHANNELIZATION DEVICES SHALL USE TYPE IIIA REBOUNDABLE SHEETING. 2. ATTACH 2"X 8" BOARDS TO 4"X 4" PRESSURE TREATED POST WITH LAG BOLTS. 3. ATTACH 2"X 4" BRACES TO 2"X 8" BOARDS WITH 10d-NAILS.

4. BARRICADE TO BE FULL WIDTH OF STREET BACK OF CURB TO BACK OF CURB. 5. IF BARRICADE IS USED TO DENOTE END OF ROADWAY, DIAGONAL STRIPES USED SHALL BE RED AND WHITE.

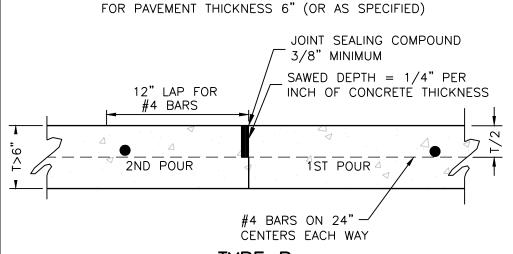


NOTE: SLEEVES FOR DOWELS SHALL HAVE AN INSIDE DIAMETER OF 1/16" GREATER THAN THE DIAMETER OF THE DOWELS AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE. EXPANSION JOINTS TO BE CONSTRUCTED A MAXIMUM OF 500' APART ON STRAIGHT PAVING AND ON ALL RADII, PC, PT AND CR OR OTHERWISE SPECIFIED.

#### **EXPANSION JOINT** NOT TO SCALE

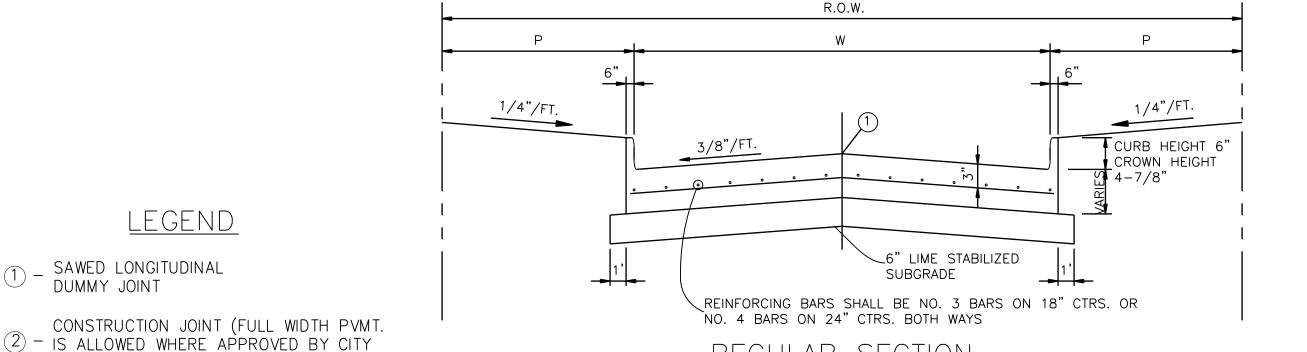


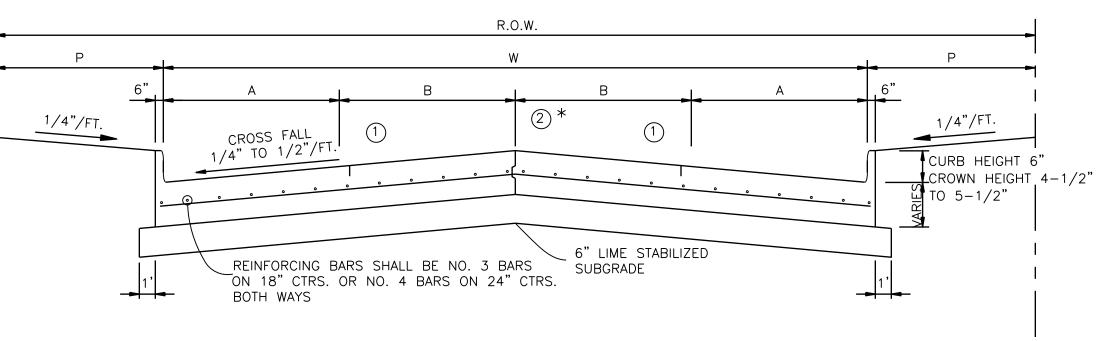
FOR PAVEMENT THICKNESS 6" (OR AS SPECIFIED)



TYPE B FOR PAVEMENT THICKNESS GREATER THAN 6" (OR AS SPECIFIED)

**CONSTRUCTION JOINT** 





C4U

M4U

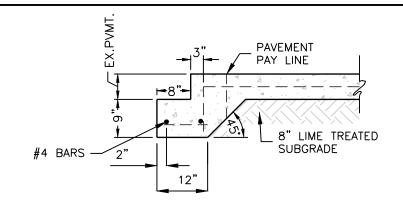
M5U

REGULAR SECTION

R2U

C2U

R2U, C2U, C4U, M4U & M5U PAVING SECTIONS SHALL HAVE A MINIMUM PAVEMENT REGULAR SECTION THICKNESS OF 6 INCHES.



DUMMY JOINT

OF LANCASTER)

NOTE: PAVEMENT BARS TO BE BENT DOWN INTO

HEADER AND PAVEMENT TO BE MONOLITHIC

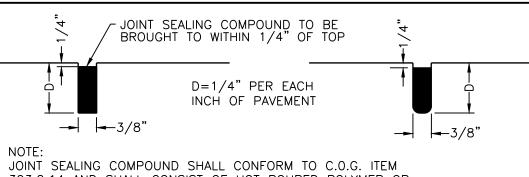
## TYPE-A CONCRETE HEADER NOT TO SCALE

2' TO BE REMOVED 3/4" REDWOOD WHEN STREET IS EXP. BOARD EXTENDED DOWEL BAR DOWEL BAR -SLEEVE 5" LONG

NOTE: TYPE-B HEADER TO BE USED FOR FUTURE STREET EXTENSION OR WHEN SPECIFIED ON PLANS TO BE USED.

# TYPE-B CONCRETE HEADER

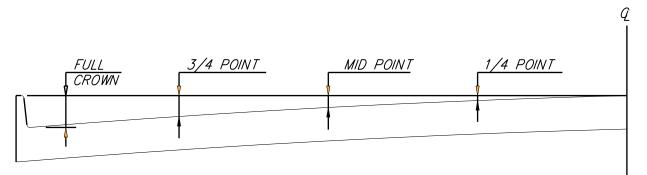
NOTE: UNLESS TYPE 'A' OR 'B' HEADERS ARE SPECIFIED, WHEN CONSTRUCTING NEW PAVEMENT, THE CONTRACTOR MUST A) EXPOSE THE REINFORCING STEEL FROM THE EXISTING PAVEMENT AND TIE IT TO THE PROPOSED STEEL MAT, OR B) DOWEL #3 REINFORCING STEEL BARS INTO THE EXISTING PAVEMENT A A MINIMUM OF (6) SIX INCHES AT 24" CENTERS AND HAVE A MINIMUM OF 15" LAP.



303.2.14 AND SHALL CONSIST OF HOT POURED POLYMER OR READY-MIXED COLD APPLIED SEALANT AS FOLLOWS. 1. CLASS 3-SEALTIGHT 3405 2. CLASS 3-HOT POURED RUBBER JOINT SEALANT # 3405

CLASS 4-DOW CORNING 888 4. CLASS 5 & 8 SIKASIL 728-SL 5. CLASS 8 - DOW CORNING 890-SL

JOINT SEALING



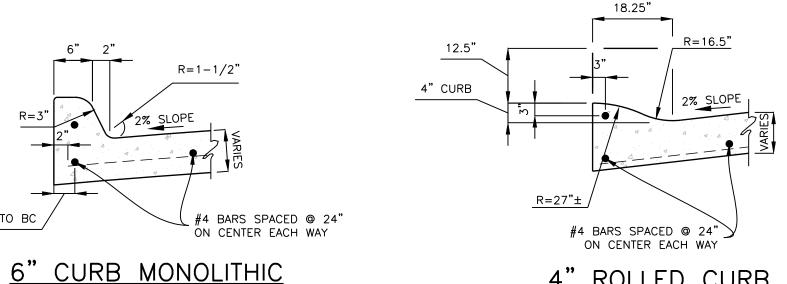
WITH PAVING

NOT TO SCALE

ROADWAY WIDTH (W)	TOTAL CROWN HEIGHT	3/4 POINT	MID- POINT	1/4 POINT
26'	4"	2-1/4"	1"	1/4"
36'	6"	3-3/8"	1-1/2"	3/8"
44'	6"	3-3/8"	1-1/2"	3/8"

## TABLE OF CROWN HEIGHTS AND ORDINATES FOR VARIOUS PARABOLIC SECTIONS

SLLIP FORM PAVEMENT MUST MEET CROWN GRADES AT GUTTERS, AT MID-POINTS & PARABOLIC ROADS ONLY TO BE CONSTRUCTED WITH SLIP FORM PAVERS



4" ROLLED CURB MONOLITHIC WITH PAVING NOT TO SCALE

- 1. STREET CROWN FOR ROLLED CURB SECTION, SHALL BE 3" ROOF TOP. 2. ENGINEERING PLANS FOR ROLLED CURB

CONSTRUCTION MUST BE PRE-APPROVED BY THE

- CITY ENGINEER FOR DRAINAGE CONVEYANCE AS ADDITIONAL INLETS MAY BE REQUIRED. 3. STREET SECTIONS FOR 4" ROLLED DOWN CURB
- SHALL HAVE ROOF TOP CROWN. 4. IF THE 4-INCH HIGH CURBED STREET SECTION IS USED, INCREASE THE LINEAR FEET OF INLETS

PROVIDED BY 84% TO MEET CURRENT CITY DRAINAGE

REQUIREMENTS. 5. AT CURB INLETS, CURB HEIGHT SHALL BE TRANSITIONED FROM 6" TO 4" (TO MATCH THE 4" ROLLED CURB)

#### P.C. CONCRETE STANDARD RESIDENTIAL, COMMERCIAL & INDUSTRIAL STREETS

(A) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS

- OF THE CITY OF LANCASTER, WHICH HAS ALSO ADOPTED THE FOURTH EDITION OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - NORTH CENTRAL TEXAS" HEREIN REFERRED TO AS "N.C.T.C.O.G." SPECIFICATIONS. COPIES MAY BE OBTAINED FROM THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, 616 SIX FLAGS DRIVE, SUITE 200, ARLINGTON, TEXAS 76005-5888 (817)640-3300. THESE SPECIFICATIONS ARE ALSO AVAILABLE AT WWW.PUBLICWORKS.DFWINFO.COM ALSO REFER TO N.C.T.C.O.G. ITEM 303 SPECIFICATIONS
- THERE SHALL BE NO LEAVE OUTS FOR UTILITY ADJUSTMENTS; ALL MANHOLE, VALVE SETS ETC. SHALL BE CONSTRUCTED TO FINAL GRADE PRIOR TO PAVING. MEDIANS AND PARKWAYS SHALL BE SODDED. (NO SEEDING)
- CONTRACTOR SHALL CONTACT PUBLIC WORKS OR STREETS DEPARTMENT FOR THE REMOVAL OF CITY SIGNS IN RIGHT-OF-WAY.

SUBGRADE PREPARATION: PLEASE REFER TO ITEM 301 OF THE N.C.T.C.O.G. SPECIFICATIONS.

LIME STABILIZED SUBGRADE: (A) PLEASE REFER TO ITEM 301.2 OF THE N.C.T.C.O.G. SPECIFICATIONS. LIME SHALL BE PLACED USING THE SLURRY METHOD, MAY BE MIXED ON-SITE OR TRUCKED IN. PLEASE REFER N.C.T.C.O.G. ITEM 301.2.3.4.2.

B) SEE CITY OF LANCASTER STANDARD GENERAL TESTING REQUIREMENTS FOR WATER, WASTEWATER, STORM DRAIN AND PAVEMENT CONSTRUCTION.

FORMS: PLEASE REFER TO N.C.T.C.O.G. ITEM 303.4.4

REINFORCEMENT BARS: ONLY STEEL RODS SHALL BE USED. PLEASE REFER TO ITEM 303.2.9 OF THE N.C.T.C.O.G. SPECIFICATIONS. **REINFORCEMENT BAR CHAIRS:** 

THE CONTRACTOR SHALL INSTALL SUPPORTING CHAIRS FOR REINFORCING STEEL ON A ONE SQUARE YARD SPACING IN ALL CONCRETE PAVEMENTS. THE CHAIRS ARE TO BE PLASTIC AND INSTALLED AS PER ITEM 303.2.11 OF THE N.C.T.C.O.G. SPECIFICATIONS.

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- . (B) UP-TO 25% (BY WEIGHT) OF THE CEMENT CONTENT MAY BE REPLACED WITH TYPE ( FLY ASH. FLY ASH REPLACEMENT SHALL BE 1.25 POUNDS PER 1.0 POUND OF CEMENT REDUCTION. ALSO REFER TO N.C.T.C.O.G. ITEM 303.2.4
- AGGREGATES SHALL BE AS PER N.C.T.C.O.G. ITEM 303.2.1. RIVER ROCK OR BLENDED AGGREGATES SHALL NOT BE ALLOWED. MANUFACTURED SAND SHALL NOT EXCEED 20% OF THE TOTAL SAND CONTENT IN
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- HAND PLACED CONCRETE SHALL HAVE A MINIMUM 6 1/2 SACK/CUBIC YARD OF CEMENT CONTENT AND MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI. THE DESIGN ENGINEER SHALL APPROVE THE CONCRETE MIX DESIGN IN WRITING PRIOR TO USF.
- PAVEMENT CURBS SHALL BE POURED MONOLITHICALLY. PLEASE REFER TO N.C.T.C.O.G. ITEM. 303.5.2.4.
- ) STAMP OR DIE PROJECT PAVING LIMITS INCLUDING ALL STREET INTERSECTIONS TO N.C.T.C.O.G. ITEM. 303.5.6.1.3 AND DETAIL ON THIS SHEET. THERE SHALL BE ZERO TOLERANCES FOR CONCRETE STRENGTH AND DEPTH. NO
- VARIANCES ARE ALLOWED. ANY AREAS OF DEFICIENCY SHALL BE PROVED, REMOVED AND REPLACED. ALL CURBS AND GUTTERS SHALL BE POURED IN ONE COURSE. CONSTRUCTION CONCRETE SHALL BE PLACED IN FORMS ON COMPACTED, WETTED SUBGRADE AND SHALL BE TAMPED AND SPADED UNTIL MORTAR COVERS THE ENTIRE SURFACE. TAMPING AND SPADING OF NEWLY POURED CONCRETE SHALL BE GIVEN SPECIAL
- ATTENTION TO ENSURE ADEQUATE COMPACTION AND SURFACES FREE OF HONEYCOMBS.
- () ALL CONCRETE SHALL BE VIBRATED. <u>CURING</u>:
- (A) PLEASE REFER TO ITEM 303.5.8 AND 303.2.13.1.1 OF THE N.C.T.C.O.G.
- B) THE CONTRACTOR SHALL USE A WHITE PIGMENTED LIQUID CURING COMPOUND AS PER N.C.T.C.O.G. ITEM 303.5.8. AND 303.2.13.1.1
- (A) CONSTRUCTION JOINTS SHALL BE USED IN ALL BLOCK-OUTS FOR DRIVEWAYS, INLETS
- B) TRANSVERSE JOINTS SHALL BE SAWED ON 15' CENTERS. THE CONCRETE SAW MUST
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  - SAW JOINT ALONG THE CENTER TWO EVENLY SPACED JOINTS
  - OVER 37' WIDTH MINIMUM TWO JOINTS OUTSIDE JOINTS SAWED AT 12'-6" MAX. D) SAW JOINTS TO BE 1/4" DEPTH FOR EACH 1" OF PAVEMENT THICKNESS.
  - 6" PAVEMENT = 1 1/2" DEEP, 7" PAVEMENT = 1.3/4 DEEP"
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  - THE CONTRACTOR WILL PROVIDE BACKFILL, DENSITY AND CONCRETE TESTING FOR ALI PROJECTS UNLESS SPECIFIED OTHERWISE. ALL REPORTS SHALL BE TURNED INTO THE INSPECTOR WITHIN FIVE WORKING DAYS.
  - MATERIAL: ALL MATERIAL INCORPORATED IN THE CONSTRUCTION SHALL BE NEW. <u>RIVATE DEVELOPMENT PROJECTS:</u> THE DEVELOPER/OWNER SHALL PROVIDE TESTING FOR ALL PROJECT UNLESS SPECIFIED OTHERWISE. ALL REPORTS SHALL BE TURNED INTO THE INSPECTOR WITHIN FIVE (5) WORKING DAYS. THE DEVELOPER/OWNER SHALL PROVIDE GEOTECHNICAL TESTING PRIOR TO CONSTRUCTION COMMENCING.

CERTIFICATION:
THIS CITY OF LANCASTER STANDARD DETAIL SHEET IS AUTHORIZED FOR USE IN THIS PROJECT BY THE ENGINEER WHOSE SEAL APPEARS ON THIS SHEET. THIS ENGINEER IS ALSO CERTIFYING THAT THE CONTENT OF THE DETAILS AND NOTES ON THIS SHEET HAVE NOT BEEN ALTERED FROM THAT RECEIVED FROM

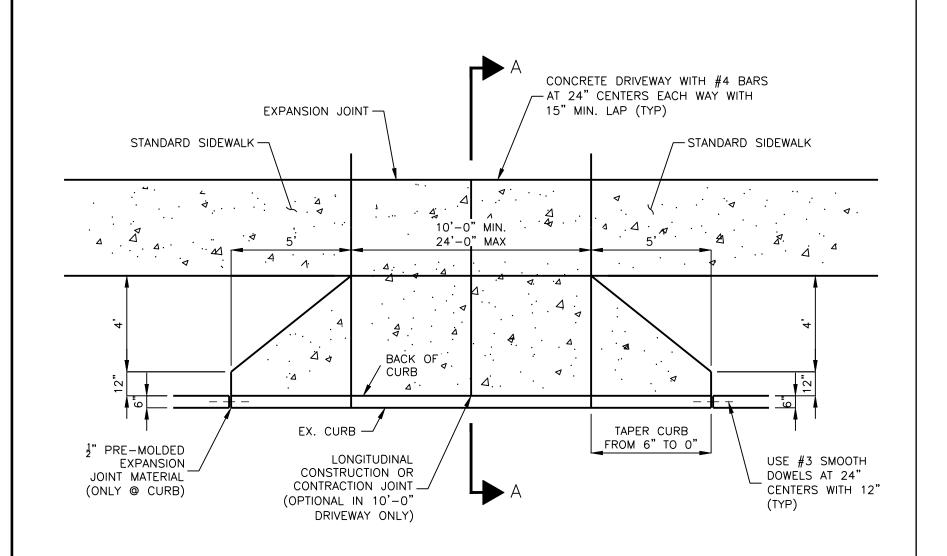
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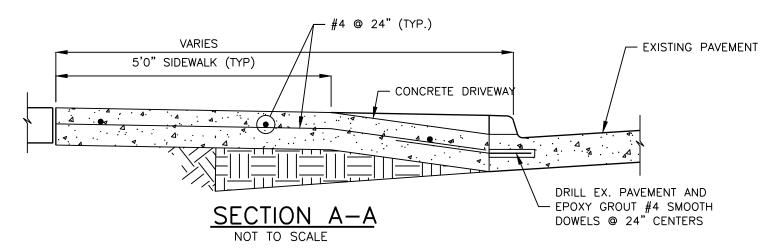
# CONCRETE PAVING



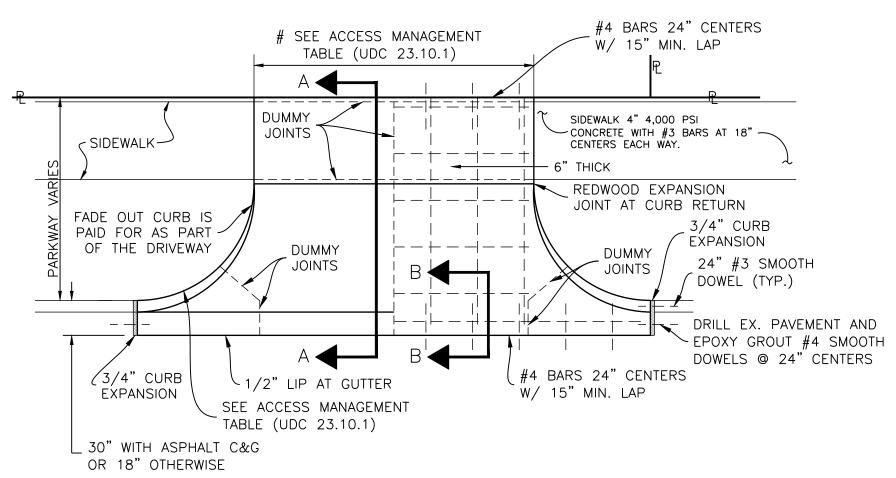
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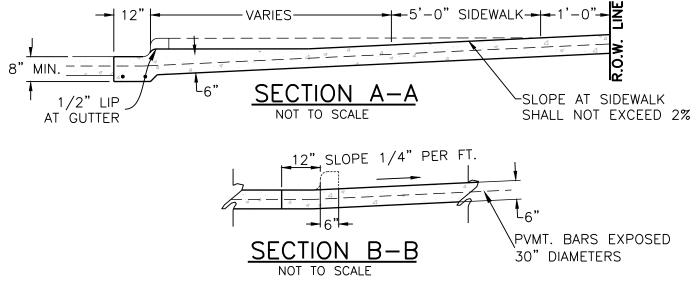
## NEW RESIDENTIAL DRIVEWAY DETAIL WITH LAY DOWN CURB (AS DIRECTED BY THE DESIGN ENGINEER)



- 1. SIDEWALK SECTION THROUGH DRIVEWAY SHALL BE POURED SAME THICKNESS AND STEEL REINFORCEMENT AS DRIVEWAY APPROACH (EXISTING SIDEWALK, IF ANY, SHALL BE REMOVED)
- 2. DRIVEWAY APPROACH THICKNESS SHALL BE A MINIMUM OF 6" (SIX INCHES)
- DRIVEWAYS CONSTRUCTED ON PRIVATE PROPERTY SHALL TAPER AT A 1:1 RATIO TO INTERSECT APPROACH AT PROPERTY LINE NO GREATER THAN 24' WIDTH.
- 4. NEW RESIDENTIAL DRIVEWAYS SHALL HAVE A MAXIMUM GRADE NOT TO EXCEED 10%. NEW COMMERCIAL DRIVEWAYS SHALL HAVE A MAXIMUM GRADE NOT TO EXCEED 6%.



STANDARD COMMERCIAL AND RESIDENTIAL DRIVEWAY DETAIL SEE ACCESS MANAGEMENT TABLE (UDC 23.10.1)



NOTE: CURB, GUTTER, PAVEMENT AND VALLEY TO BE POURED MONOLITHIC THE REINFORCED CONCRETE VALLEY SHALL REPLACE THE CONCRETE PAVING WITH THE SUBGRADE AND BASE TREATMENT REMAINING THE SAME IN ACCORDANCE WITH THE TYPICAL PAVING SECTION. DO NOT DOWEL IN NEW CONCRETE DRIVES INTO EXISTING ASPHALT ROADS. UTILIZE MODIFIED TYPE-A CONCRETE HEADER.

1. SIDEWALK SECTION THROUGH DRIVEWAY SHALL BE POURED SAME THICKNESS AND STEEL REINFORCEMENT AS DRIVEWAY APPROACH (EXISTING SIDEWALK, IF ANY,

> SHALL BE REMOVED) NEW COMMERCIAL DRIVEWAYS SHALL HAVE A MAXIMUM GRADE NOT TO EXCEED 10%. NEW COMMERCIAL DRIVEWAYS SHALL HAVE A MAXIMUM GRADE NOT TO EXCEED 6%.

	# ACCESS MANA	GEMEN	TABLE (UDC	23.10.1)	
		LOCAL	COLLECTOR	MINOR ARTERIAL	PRINCIPA ARTERIAL
RESIDENTIAL	THROAT WIDTH	15-28 ft.	15-28 ft.	N/A	N/A
DRIVEWAY	CURB RADIUS	N/A	N/A	N/A	N/A
INDUSTRIAL	THROAT WIDTH	40 ft.	40-60 ft.*	40-60 ft.*	40-60 ft.*
DRIVEWAY	CURB RADIUS	30 ft.	40 ft.	40 ft.	40 ft.
COMMERCIAL	THROAT WIDTH	30-40 ft.	30-40 ft.	30-40 ft.	30-40 ft.
DRIVEWAY	CURB RADIUS	20 ft.	25 ft.	30 ft.	35 ft.

## 1. NEW RESIDENTIAL DRIVEWAYS SHALL BE 15' (MIN.)

- 2. EXISTING RESIDENTIAL DRIVEWAY APPROACHES SHALL NOT BE RECONSTRUCTED TO LESS THAN 9' WIDTH.
- CONSTRUCTED TO 5' RADIUS B.O.C.
- 4. IN REPLACING EXISTING DRIVES, THE EXISTING DRIVE SHALL BE SAWED AND REMOVED AT A DISTANCE WHICH WILL ASSURE A SMOOTH GRADE, (TO BE SPECIFIED BY THE ENGINEER) AND WILL BE REPLACED TO THAT POINT.

3. CURB RETURNS FOR NEW DRIVES SHALL BE

- 5. NEW RESIDENTIAL DRIVEWAYS SHALL HAVE A MAXIMUM GRADE NOT TO EXCEED 10%.
- 6. NEW COMMERCIAL DRIVEWAYS SHALL HAVE A
- MAXIMUM GRADE NOT TO EXCEED 6%. 7. VERTICAL CURVES SHALL BE USED FOR ALL GRADE BREAKS IN DRIVEWAYS EXCEEDING 12%

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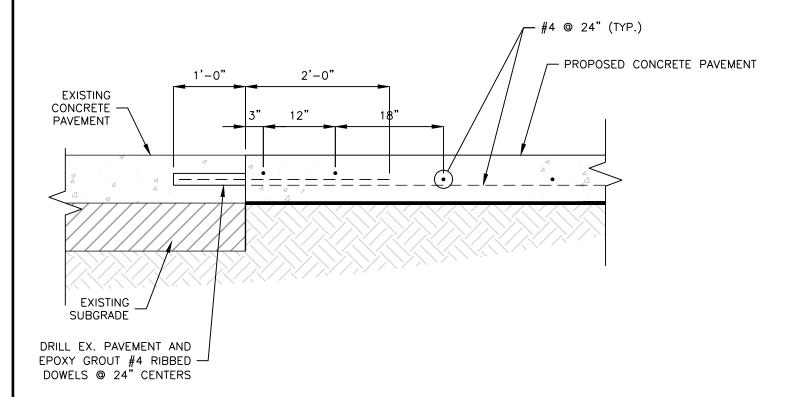
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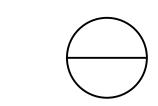
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PROPOSED PAVING **CONNECTION TO EXISTING PAVEMENT** 

NOT TO SCALE

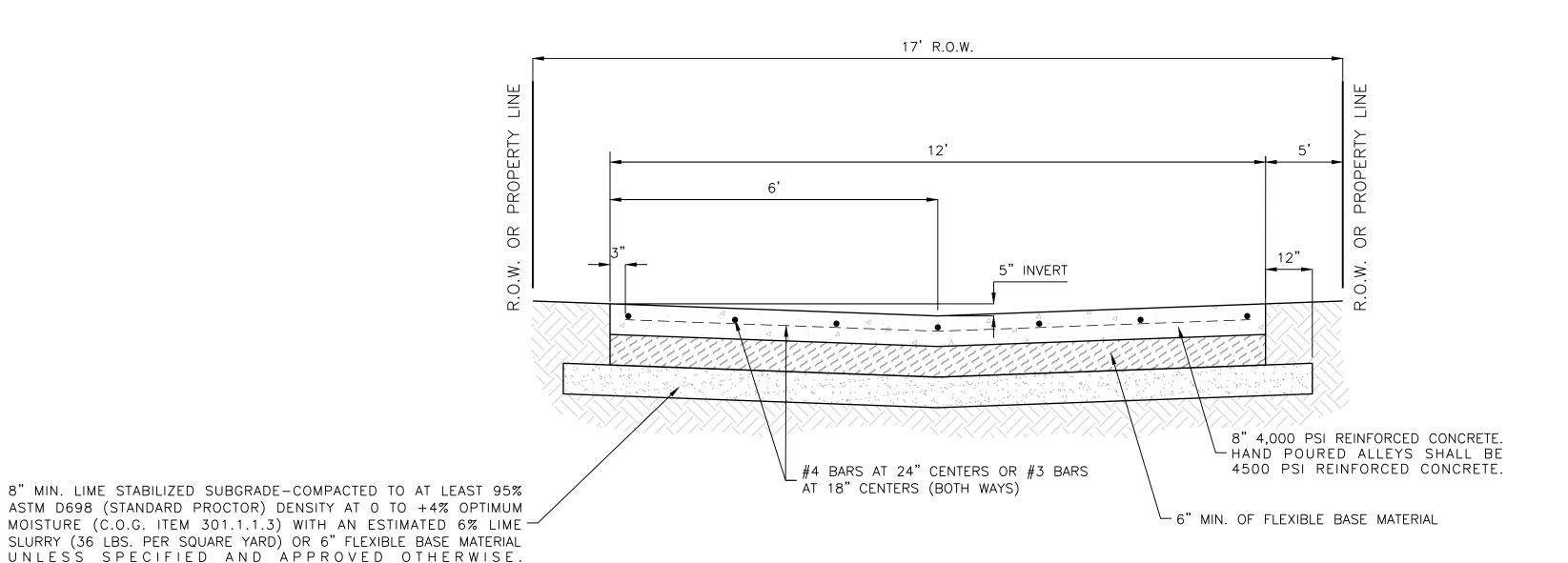
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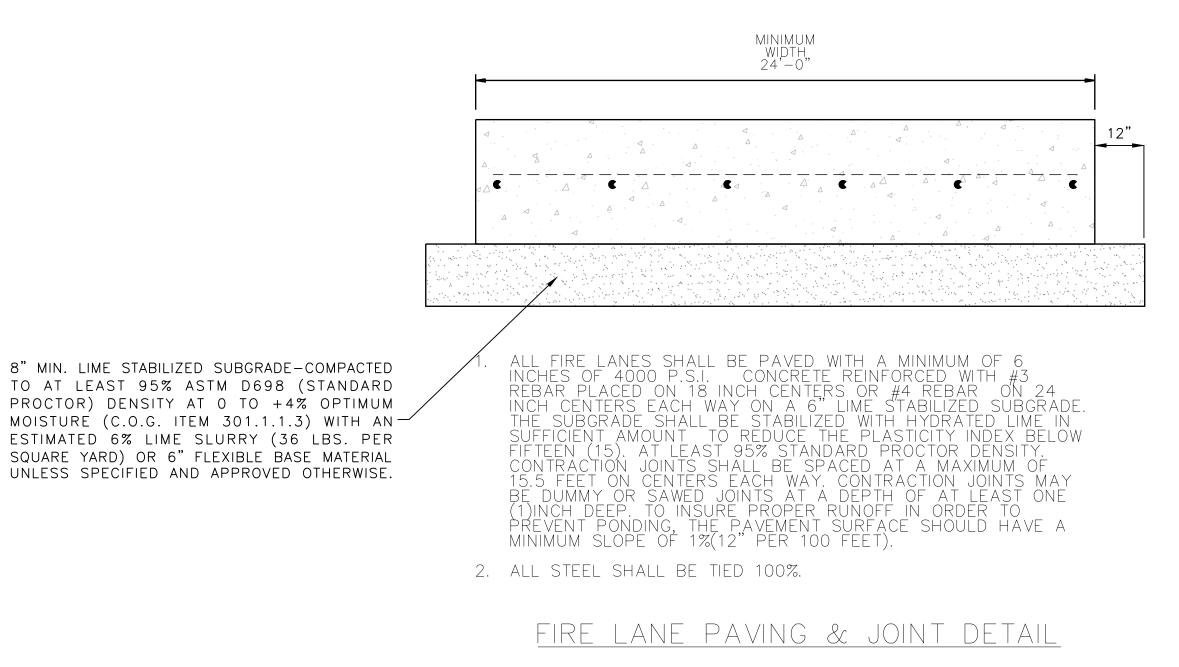
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			May 2021	N.T.S.	PAV-03	7 OF <b>53</b>

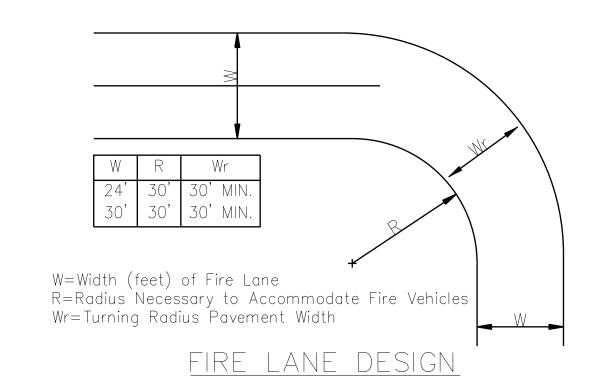


NOTE:

- 1. CONSTRUCT TRANSVERSE SAW JOINT @ 20' (MAX)
- EXPANSION JOINTS TO BE PLACED AT ALL INTERSECTIONS AND RADIUS POINTS; AND NOT TO EXCEED 240' BETWEEN JOINTS.

## ALLEY DETAILS





NO PARKING FIRE LANE NO PARKING FIRE LANE

NO PARKING FIRE LANE

NO PARKING FIRE LANE

NO PARKING FIRE LANE

NO PARKING FIRE LANE

- 1. THE FIRE MARSHAL IS AUTHORIZED TO DESIGNATE FIRE LANES.
- 2. FIRE LANES SHALL BE MARKED BY SIX INCH (6") WIDE LINES USING RED TRAFFIC 2. PAINT, WITH THE WORDING "NO PARKING" AND "FIRE LANE" PAINTED ON THE LINES AT INTERVALS OF TWENTY—FIVE (25'). THE LETTERING WILL BE FOUR INCHES (4") HIGH WITH A ONE INCH (1") WIDE STROKE PAINTED WITH WHITE TRAFFIC PAINT.
- 3. FIRE LANES SHALL BE A MINIMUM OF TWENTY FOUR-FEET (24') IN
- ANY DEAD-END FIRE LANE MORE THAN ONE HUNDRED FIFTY-FEET (150') LONG SHALL 4. PROVIDE A TURN AROUND OF ONE HUNDRED FEET (100') IN DIAMETER AT THE CLOSED END, OR A 50' HAMMER

FIRE LANE MARKING

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<u>GENERAL</u>

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- (D) MEDIANS AND PARKWAYS SHALL BE SODDED. (NO SEEDING)
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ONLY STEEL RODS SHALL BE USED. PLEASE REFER TO ITEM 303.2.9 OF THE N.C.T.C.O.G. SPECIFICATIONS.
REINFORCEMENT BAR CHAIRS:

THE CONTRACTOR SHALL INSTALL SUPPORTING CHAIRS FOR REINFORCING STEEL ON A ONE SQUARE YARD SPACING IN ALL CONCRETE PAVEMENTS. THE CHAIRS ARE TO BE PLASTIC AND INSTALLED AS PER ITEM 303.2.11 OF THE N.C.T.C.O.G. SPECIFICATIONS. CONCRETE:

- (A) PORTLAND CEMENT SHALL BE AS PER N.C.T.C.O.G. ITEM 303.2.2
  (B) UP-TO 25% (BY WEIGHT) OF THE CEMENT CONTENT MAY BE REPLACED WITH TYPE (
- B) UP-TO 25% (BY WEIGHT) OF THE CEMENT CONTENT MAY BE REPLACED WITH TYPE FLY ASH. FLY ASH REPLACEMENT SHALL BE 1.25 POUNDS PER 1.0 POUND OF CEMENT REDUCTION. ALSO REFER TO N.C.T.C.O.G. ITEM 303.2.4
- C) AGGREGATES SHALL BE AS PER N.C.T.C.O.G. ITEM 303.2.1. RIVER ROCK OR BLENDED
   AGGREGATES SHALL NOT BE ALLOWED.
   D) MANUFACTURED SAND SHALL NOT EXCEED 20% OF THE TOTAL SAND CONTENT IN

HAND PLACED CONCRETE SHALL HAVE A MINIMUM 6 1/2 SACK/CUBIC YARD OF

- THE CONCRETE MIX DESIGN.

  (E) CONCRETE FOR ALL PAVING AND CURBS WITHIN THE RIGHT-OF-WAY SHALL HAVE A MINIMUM 5 1/2 SACK/CUBIC YARD OF CEMENT CONTENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI WHEN TESTED AT THE AGE OF 28 DAYS.
- CEMENT CONTENT AND MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI.

  (F) THE DESIGN ENGINEER SHALL APPROVE THE CONCRETE MIX DESIGN IN WRITING PRIOR TO USE.
- (G) PAVEMENT CURBS SHALL BE POURED MONOLITHICALLY. PLEASE REFER TO N.C.T.C.O.G. ITEM. 303.5.2.4.
- (H) STAMP OR DIE PROJECT PAVING LIMITS INCLUDING ALL STREET INTERSECTIONS TO N.C.T.C.O.G. ITEM. 303.5.6.1.3 AND DETAIL ON THIS SHEET.
   (I) THERE SHALL BE ZERO TOLERANCES FOR CONCRETE STRENGTH AND DEPTH. NO VARIANCES ARE ALLOWED. ANY AREAS OF DEFICIENCY SHALL BE PROVED, REMOVED
- (J) ALL CURBS AND GUTTERS SHALL BE POURED IN ONE COURSE. CONSTRUCTION CONCRETE SHALL BE PLACED IN FORMS ON COMPACTED, WETTED SUBGRADE AND SHALL BE TAMPED AND SPADED UNTIL MORTAR COVERS THE ENTIRE SURFACE. TAMPING AND SPADING OF NEWLY POURED CONCRETE SHALL BE GIVEN SPECIAL ATTENTION TO ENSURE ADEQUATE COMPACTION AND SURFACES FREE OF
- HONEYCOMBS.
  (K) ALL CONCRETE SHALL BE VIBRATED.

(A) PLEASE REFER TO ITEM 303.5.8 AND 303.2.13.1.1 OF THE N.C.T.C.O.G.

- SPECIFICATIONS.

  (B) THE CONTRACTOR SHALL USE A WHITE PIGMENTED LIQUID CURING COMPOUND AS PER N.C.T.C.O.G. ITEM 303.5.8. AND 303.2.13.1.1
- <u>JOINTS</u>: (A) CONSTRUCTION JOINTS SHALL BE USED IN ALL BLOCK—OUTS FOR DRIVEWAYS, INLETS,
- B) TRANSVERSE JOINTS SHALL BE SAWED ON 15' CENTERS. THE CONCRETE SAW MUST BE STATIONED ON THE JOB-SITE PRIOR TO PLACING THE PAVEMENTS. ALL JOINTS SHALL BE SAWED WITHIN AN EIGHTEEN (18) HOUR PERIOD FROM THE TIME OF THE
- (C) LONGITUDINAL JOINTS SHALL BE SAWED BASED ON THE FOLLOWING:
  - 25' WIDTH (BLVD.) SAW JOINT 3" FROM THE CENTER 27' " SAW JOINT ALONG THE CENTER
  - 31' " SAW JOINT ALONG THE CENTER
- 37' TWO EVENLY SPACED JOINTS

  OVER 37' WIDTH MINIMUM TWO JOINTS OUTSIDE JOINTS SAWED AT 12'-6" MAX.

  (D) SAW JOINTS TO BE 1/4" DEPTH FOR EACH 1" OF PAVEMENT THICKNESS.

  6" PAVEMENT = 1 1/2" DEEP.
- 7" PAVEMENT = 1 3/4 DEEP"

8" PAVEMENT = 2" DEEP, ETC. TESTING:

- 1.) PLEASE REFER TO THE GENERAL NOTES SHEETS, GN-01 GN 04, FOR TESTING REQUIREMENTS FOR WATER, WASTEWATER, STORM DRAIN AND PAVEMENT
- CONSTRUCTION.

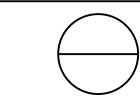
  2.) THE CONTRACTOR WILL PROVIDE BACKFILL, DENSITY AND CONCRETE TESTING FOR ALL PROJECTS UNLESS SPECIFIED OTHERWISE. ALL REPORTS SHALL BE TURNED INTO THE
- INSPECTOR WITHIN FIVE WORKING DAYS.

  3.) MATERIAL: ALL MATERIAL INCORPORATED IN THE CONSTRUCTION SHALL BE NEW.

  PRIVATE DEVELOPMENT PROJECTS: THE DEVELOPER/OWNER SHALL PROVIDE TESTING FOR
- PRIVATE DEVELOPMENT PROJECTS: THE DEVELOPER/OWNER SHALL PROVIDE TESTING FOR ALL PROJECT UNLESS SPECIFIED OTHERWISE. ALL REPORTS SHALL BE TURNED INTO THE INSPECTOR WITHIN FIVE (5) WORKING DAYS. THE DEVELOPER/OWNER SHALL PROVIDE GEOTECHNICAL TESTING PRIOR TO CONSTRUCTION COMMENCING.

CERTIFICATION:
THIS CITY OF LANCASTER STANDARD DETAIL
SHEET IS AUTHORIZED FOR USE IN THIS
PROJECT BY THE ENGINEER WHOSE SEAL
APPEARS ON THIS SHEET. THIS ENGINEER IS
ALSO CERTIFYING THAT THE CONTENT OF THE
DETAILS AND NOTES ON THIS SHEET HAVE
NOT BEEN ALTERED FROM THAT RECEIVED FROM

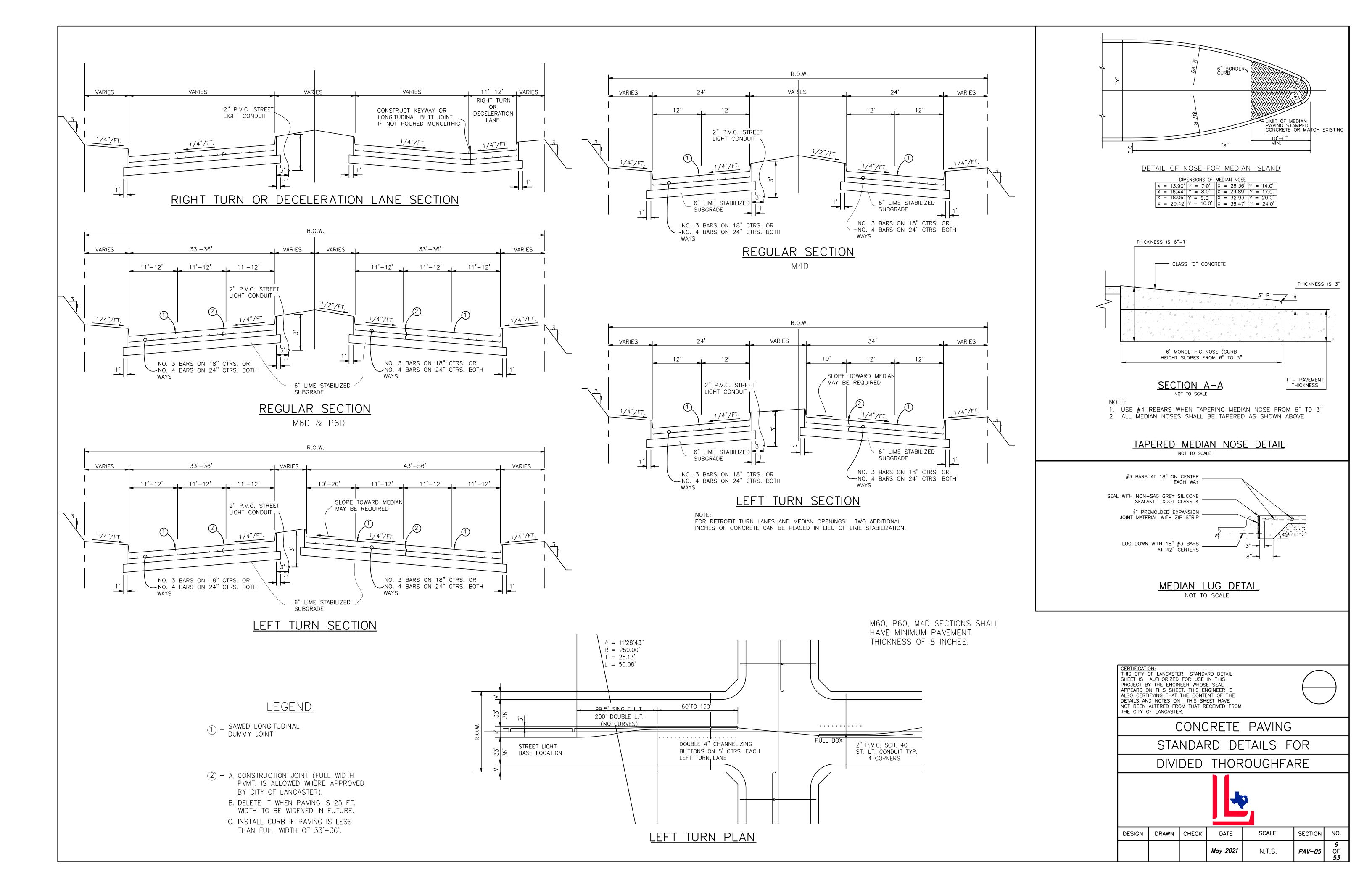
THE CITY OF LANCASTER.



# CONCRETE PAVING ALLEY & FIRE LANE STANDARD DETAILS



DESIGN	DRAWN	CHECK	DATE	SCALE	SECTION	NO.
			May 2021	N.T.S.	PAV-04	<b>8</b> OF <b>53</b>

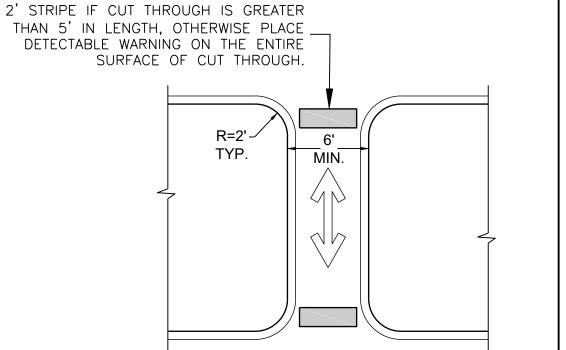




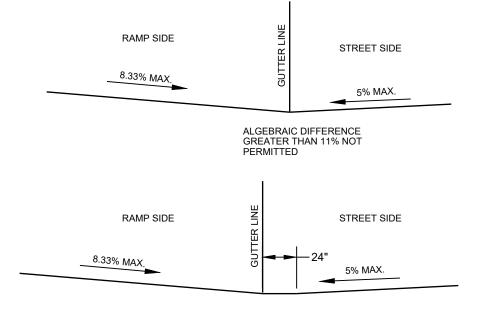
- 3. LAY-DOWN CURB LENGTH VARIES (MINIMUM LENGTH AS SHOWN)
- BARRIER FREE RAMPS SHALL BE DOWELED INTO EXISTING STREET

PAVEMENT (MIN. 9") WITH #3 @ 18" O.C. x 24" LONG.

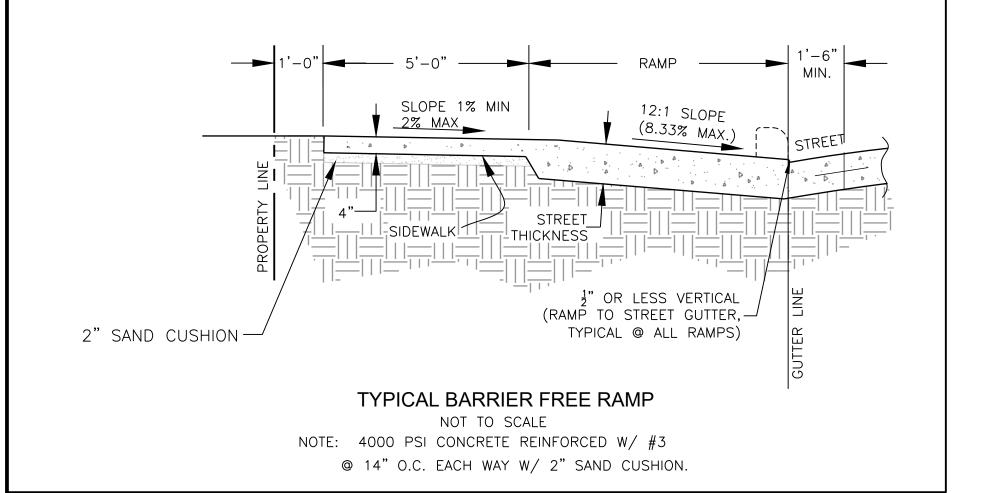
- BARRIER FREE RAMPS SHALL BE REINFORCED CONCRETE (4000 PSI) FOR A 2 FOOT WIDTH FROM BACK OF CURB & MATCH STREET THICKNESS. THE REMAINDER OF THE BARRIER FREE RAMP SHALL BE 5" REINFORCED CONCRETE (4000 PSI). THE ENTIRE RAMP MAY HAVE A 2" SAND CUSHION.
- 6. ALL 12:1 RAMPS SHALL NOT EXCEED 6' IN LENGTH.
- FILL TO BE MINIMUM 95% STANDARD PROCTOR DENSITY AT  $\pm$  2% OF OPTIMUM MOISTURE CONTENT AND SHALL BE SELECT FILL WITH P.I. LESS THAN 15.
- BARRIER FREE RAMPS SHALL BE CONSTRUCTED AT ALL STREET AND ALLEY INTERSECTIONS EVEN IF THE SIDEWALKS ARE NOT INCLUDED IN THE CONSTRUCTION PLANS.

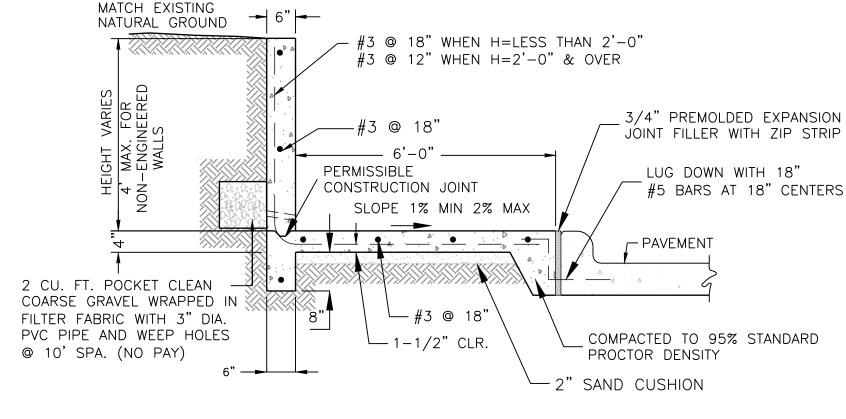


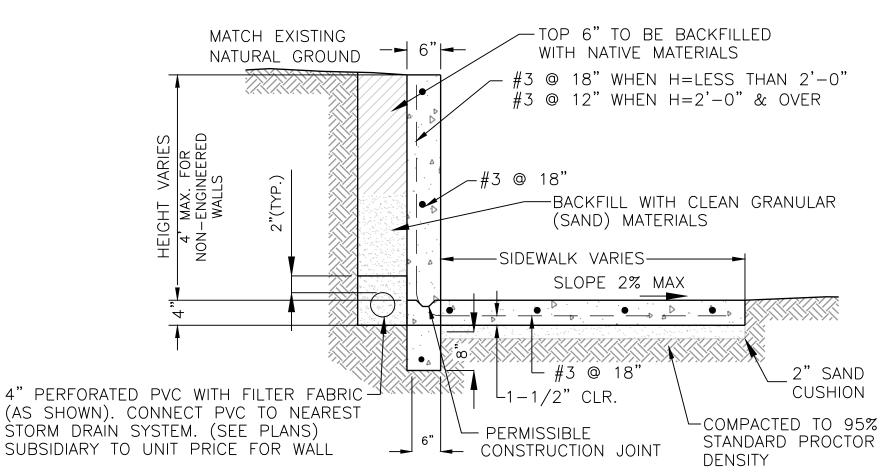
CUT THROUGH AT ISLAND/MEDIAN



COUNTER SLOPE CONDITIONS

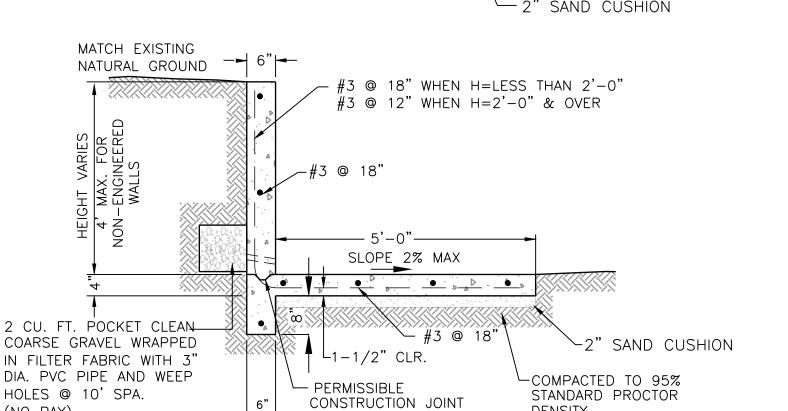






## SIDEWALK AND RETAINING WALL PLAN WITHOUT WEEP HOLES

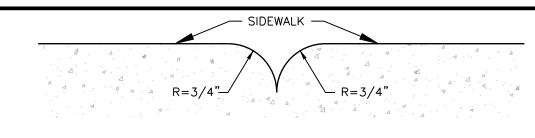
(DRAINAGE BEHIND WALL TO BE USED WHEN DRAINAGE SYSTEM IS IN NEAR PROXIMITY) NOT TO SCALE



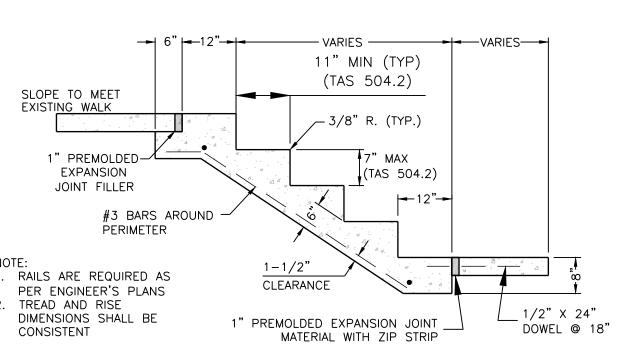
## SIDEWALK AND RETAINING WALL PLAN WITH WEEP HOLES

(NO PAY)

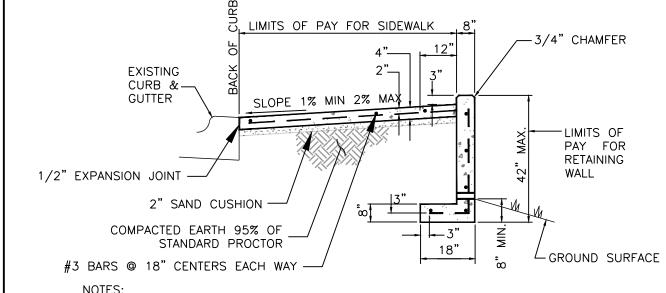
(DRAINAGE THROUGH WEEP HOLES, TO BE USED IN THE ABSENCE OF DRAINAGE SYSTEM)



# TOOLED JOINT



#### SIDEWALK STEPS NOT TO SCALE

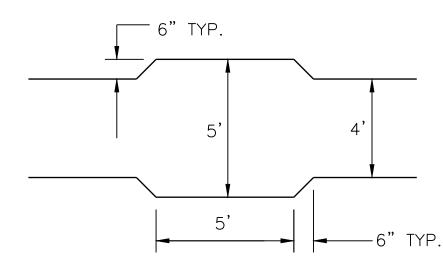


1. STEEL REINFORCING IN WALL SHALL BE #3 BARS @ 12" CENTERS

3. CONCRETE TO HAVE COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.

HORIZONTALLY AND #4 BARS @ 8" CENTERS VERTICALLY. 2. REDWOOD JOINTS IN WALL SHALL MATCH REDWOOD JOINTS IN THE SIDEWALK. THE WALL SHALL BE DOUBLE CHAMFERED AT THE REDWOOD LOCATIONS.3. ENDS OF WALL SHALL ALSO BE CHAMFERED.

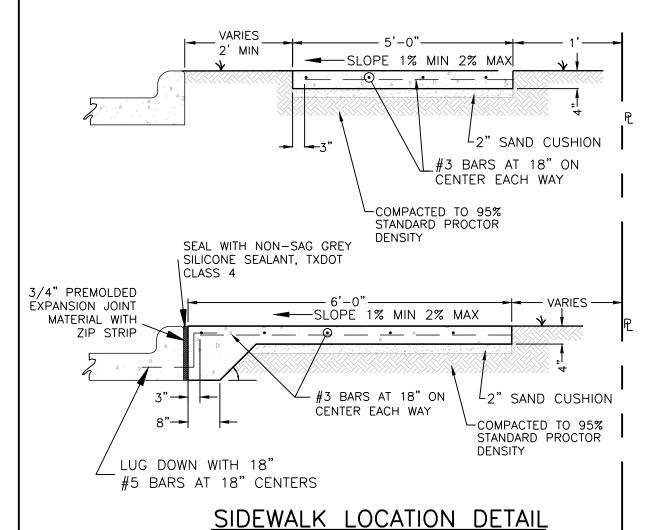
## SIDEWALK WITH LOW WALL



SIDEWALK PASSING AREA \* NOT TO SCALE

NOTE: DRIVEWAY CROSSING QUALIFY AS PASSING AREA. \*MAXIMUM 200' INTERVALS

NOTE: NO TREES OR BUSHES SHALL BE PLACED BETWEEN BACK OF CURB AND SIDEWALK



NOT TO SCALE

SIDEWALK AND BARRIER RAMPS NOTES:

- <u>GENERAL REQUIREMENTS</u> A. BARRIER FREE RAMPS SHALL BE CONSTRUCTED AS PER THE LATEST REQUIREMENTS AND SPECIFICATIONS OF THE TEXAS ACCESSIBILITY STANDARDS AND THE AMERICANS WITH DISABILITIES ACT.
- B. CONTRACTOR SHALL CONTACT THE PUBLIC WORKS OR STREET DEPARTMENT FOR THE REMOVAL OF CITY SIGNS IN RIGHT-OF-WAY.
  - LOCATION:
    A. BARRIER FREE RAMPS UNDER THESE PROVISIONS, SHALL BE WHEREVER AN ACCESSIBLE ROUTE CROSSES A CURB.
  - A. SLOPES ON BARRIER FREE RAMPS SHALL BE AS FOLLOWS:
- B. THE SLOPE SHALL BE MEASURED AS SHOWN IN COUNTER SLOPE CONDITION DETAIL
- & SECTION B-B OF BARRIER FREE RAMP TYPE-VI (DUAL) TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
- D. MAXIMUM SLOPES OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO THE BARRIER FREE RAMP, OR ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20.
- . THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION SHALL BE 1:12. THE MAXIMUM RISE FOR ANY RUN SHALL BE 30" (760 MM). BARRIER FREE RAMPS AND RAMPS TO BE CONSTRUCTED ON EXISTING SITES OR IN EXISTING BUILDING OR
- FACILITIES MAY HAVE SLOPES AND RISES IF SPACE LIMITATIONS PROHIBIT THE USE OF A 1:12 SLOPE OR LESS, AS FOLLOWS: 1. A SLOPE BETWEEN 1:10 AND 1:12 IS ALLOWED FOR A MAXIMUM RISE OF 6".
- 2. A SLOPE BETWEEN 1:8 AND 1:10 IS ALLOWED FOR A MAXIMUM OF 3" A SLOPE
- STEEPER THAN 1:8 IS NOT ALLOWED.
- A. THE MINIMUM WIDTH OF A BARRIER FREE RAMP SHALL BE 36" EXCLUSIVE OF FLARED SIDES.
- SIDEWALK WIDTH: A. THE MINIMUM WIDTH OF ALL SIDEWALKS SHALL BE 5', AND TO BE CONSTRUCTED AS PER THE "SIDEWALK LOCATION DETAIL" ON THIS SHEET.
- B. MINIMUM 6' SIDEWALK MAY BE PLACED ADJACENT TO THE CURB, WITH THE APPROVAL OF THE CITY ENGINEER.
- A. SURFACES OF CURB RAMPS, ALONG ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS AND SPACES INCLUDING FLOORS, WALKS, RAMPS, STAIRS, AND CURB RAMPS, SHALL BE STABLE, FIRM, AND SLIP RESISTANT.
- <u>SIDES OF BARRIER FREE RAMPS:</u> A. IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP. OR WHERE IT IS NOT PROTECTED BY HANDRAILS OR GUARDRAILS, IT SHALL HAVE
- 3. THE MAXIMUM SLOPE OF THE FLARE SHALL BE 1:10 BARRIER FREE RAMPS WITH RETURNED CURBS MAY BE USED WHERE PEDESTRIANS WOULD NOT WALK ACROSS
- THE RAMP
- A. BUILT-UP BARRIER FREE RAMPS SHALL BE LOCATED SO THEY DO NOT PROJECT INTO
- VEHICULAR TRAFFIC LANES. **OBSTRUCTIONS:**
- A. BARRIER FREE RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED VEHICLES. B. ALL EFFORT SHALL BE MADE TO ENSURE AN UNOBSTRUCTED ACCESSIBLE ROUTE AND
- ALL WORK SHALL COMPLY WITH TEXAS ACCESSIBILITY STANDARDS (TAS) AND TDLR REQUIREMENTS. OCATION AT MARKED CROSSINGS: A. BARRIER FREE RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN
- THE MARKINGS, EXCLUDING ANY FLARED SIDES. DIAGONAL BARRIER FREE RAMPS:
- A. IF DIAGONAL (OR CORNER TYPE) BARRIER FREE RAMPS HAVE RETURNED CURBS OR OTHER WELL DEFINED EDGES, SUCH EDGES SHALL BE PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW
- B. THE BOTTOM OF DIAGONAL BARRIER FREE RAMPS SHALL HAVE 48" (1220 MM) MIN. C. IF DIAGONAL BARRIER FREE RAMPS ARE PROVIDED AT MARKED CROSSINGS, THE 48" (1220 MM) CLEAR SPACE SHALL BE WITHIN THE MARKINGS.
- ). İF DIAGONAL BARRIER FREE RAMPS HAVE FLARED SIDES, THEY SHALL ALSO HAVE AT LEAST A 24" (610 MM) LONG SEGMENT OF STRAIGHT CURB LOCATED ON EACH SIDE
- OF THE BARRIÈR FREE RAMP AND WITHIN THE MARKED CROSSING. . ANY RAISED ISLANDS IN CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET OR HAVE BARRIER FREE RAMPS AT BOTH SIDES AND A LEVEL AREA AT LEAST 48" (1220 MM) LONG BETWEEN THE BARRIER FREE RAMPS IN THE PART OF THE
- A. THE CONTRACTOR SHALL SAWCUT, REMOVE AND DISPOSE OFF-SITE THE REQUIRED EXISTING CONCRETE SIDEWALK, CURB AND GUTTER, TO CONSTRUCT THE PROPOSED

ISLAND INTERSÉCTED BY THE CROSSINGS.

- B. CONCRETE SIDEWALKS AND RAMPS SHALL BE MINIMUM 5 1/2 SACK/CUBIC YARD OF CEMENT AND MINIMUM 4" THICK 4,000 PSI CONCRETE, REINFORCED WITH #3 BARS AT 18" CENTERS BOTH WAYS. PLACED OVER A 2" THICK SAND CUSHION EMBEDMENT. THE CONTRACTOR SHALL USE 1" PREMOLDED EXPANSION JOINT MATERIAL BETWEEN
- THE PROPOSED SIDEWALKS AND RAMPS AT THE BACK OF CURBS, AND AT JOINTS AT NO EXTRA PAY. EXPANSION JOINTS AND DUMMY JOINTS
- 1. FOR 4' SIDEWALK: REDWOOD EXPANSION JOINTS REQUIRED AT EVERY 40' AND DUMMY JOINTS AT EVERY 4'.
- 2. FOR 5' SIDEWALK: REDWOOD EXPANSION JOINTS REQUIRED AT EVERY 40' AND DUMMY JOINTS AT EVERY 5'
- 3. FOR 6' SIDEWALK: REDWOOD EXPANSION JOINTS REQUIRED AT EVERY 42' AND
- DUMMY JOINTS AT EVERY 6'. 4. FOR 8' SIDEWALK: REDWOOD EXPANSION JOINTS REQUIRED AT EVERY 40' AND DUMMY JOINTS AT EVERY 8'.
- . INSTALL 1/2" SLIP DOWELS (SMOOTH) ALONG LEAD WALKS AND AT BARRIER FREE
- A. PLEASE REFER TO THE GENERAL NOTES SHEETS, GN-01 GN 04, FOR TESTING REQUIREMENTS FOR WATER, WASTEWATER, STORM DRAIN AND PAVEMENT
- 3. THE CONTRACTOR WILL PROVIDE BACKFILL, DENSITY AND CONCRETE TESTING FOR ALL PROJECTS UNLESS SPECIFIED OTHERWISE. ALL REPORTS SHALL BE TURNED INTO THE INSPECTOR WITHIN FIVE (5) WORKING DAYS.
- <u>PRIVATE DEVELOPMENT PROJÈCTS</u> A. THE DEVELOPER/OWNER SHALL PROVIDE TESTING FOR ALL PROJECT UNLESS SPECIFIED OTHERWISE. ALL REPORTS SHALL BE TURNED INTO THE INSPECTOR WITHIN
- FIVE (5) WORKING DAYS. THE DEVELOPER/OWNER SHALL PROVIDE GEOTECHNICAL TESTING PRIOR TO CONSTRUCTION COMMENCING. 3. ALL MATERIAL INCORPORATED IN THE CONSTRUCTION SHALL BE NEW.
- . CONCRETE SHALL BE MADE WITH A MINIMUM OF 5 1/2 SACKS OF CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.

CERTIFICATION: THIS CITY OF LANCASTER STANDARD DETAIL SHEET IS AUTHORIZED FOR USE IN THIS PROJECT BY THE ENGINEER WHOSE SEAL APPEARS ON THIS SHEET. THIS ENGINEER IS ALSO CERTIFYING THAT THE CONTENT OF THE DETAILS AND NOTES ON THIS SHEET HAVE NOT BEEN ALTERED FROM THAT RECEIVED FROM

THE CITY OF LANCASTER.

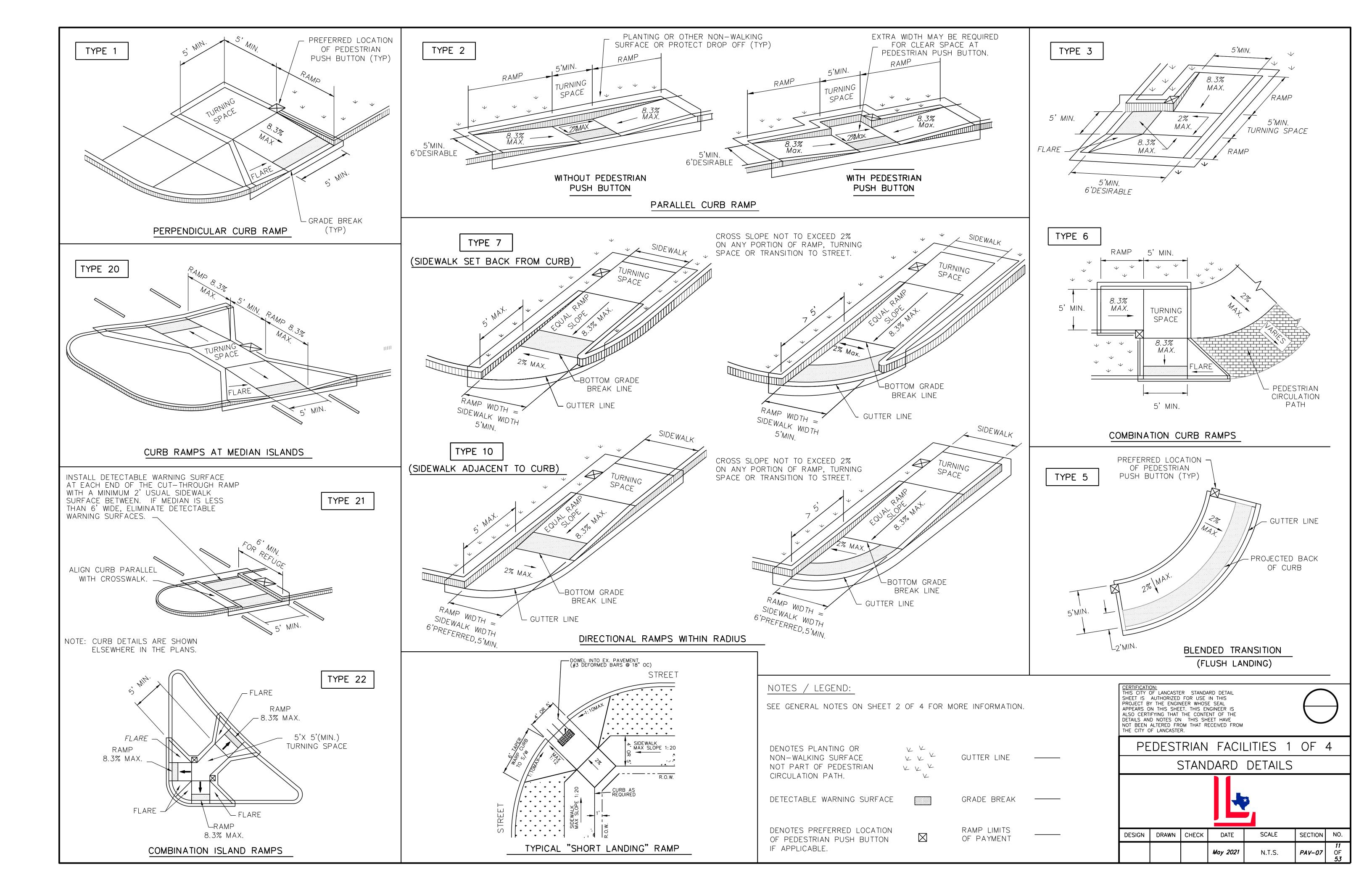


## SIDEWALK AND

## BARRIER FREE RAMPS



DESIGN DRAWN CHECK DATE SECTION May 2021 N.T.S. OF PAV-06



## GENERAL NOTES

#### CURB RAMPS

- 1. Install a curb ramp or blended transition at each pedestrian street crossing.
- 2. All slopes shown are maximum allowable. Cross slopes of 1.5% and lesser running should be used. Adjust curb ramp length or grade of approach sidewalks as directed.
- 3. Maximum allowable cross slope on sidewalk and curb ramp surfaces is 2%.
- 4. The minimum sidewalk width is 5'. Where the sidewalk is adjacent to the back of curb, a 6' sidewalk width is desirable. Where a 5' sidewalk cannot be provided due to site constraints, sidewalk width may be reduced to 4' for short distances. 5'x 5' passing areas at intervals not to exceed 200' are required.
- 5. Turning Spaces shall be 5'x 5' minimum. Cross slope shall be maximum 2%.
- 6. Clear space at the bottom of curb ramps shall be a minimum of 4'x 4' wholly contained within the crosswalk and wholly outside the parallel vehicular travel path.
- 7. Provide flared sides where the pedestrian circulation path crosses the curb ramp. Flared sides shall be sloped at 10% maximum, measured parallel to the curb. Returned curbs may be used only where pedestrians would not normally walk across the ramp, either because the adjacent surface is planted, substantially obstructed, or otherwise protected.
- 8. Additional information on curb ramp location, design, light reflective value and texture may be found in the latest draft of the Proposed Guidelines for Pedestrian Facilities in the Public Right of Way (PROWAG) as published by the U.S. Architectural and Transportation Barriers Compliance Board (Access Board).
- 9. To serve as a pedestrian refuge area, the median should be a minimum of 6' wide, measured from back of curbs. Medians should be designed to provide accessible passage over or through them.
- 10. Small channelization islands, which do not provide a minimum 5'x 5' landing at the top of curb ramps, shall be cut through level with the surface of the street.
- 11. Crosswalk dimensions, crosswalk markings and stop bar locations shall be as shown elsewhere in the plans. At intersections where crosswalk markings are not required, curb ramps shall align with theoretical crosswalks unless otherwise directed.
- 12. Provide curb ramps to connect the pedestrian access route at each pedestrian street crossing. Handrails are not required on curb ramps.
- 13. Curb ramps and landings shall be constructed and paid for in accordance with Item 531 "Sidewalks".
- 14. Place concrete at a minimum depth of 5" for ramps, flares and landings, unless otherwise directed.
- 15. Furnish and install No. 3 reinforcing steel bars at 18" o.c. both ways, unless otherwise directed.
- 16. Provide a smooth transition where the curb ramps connect to the street.
- 17. Curbs shown on sheet 1 within the limits of payment are considered part of the curb ramp for payment, whether it is concrete curb, gutter, or combined curb and gutter.
- 18. Existing features that comply with applicable standards may remain in place unless otherwise shown on the plans.

### DETECTABLE WARNING MATERIAL

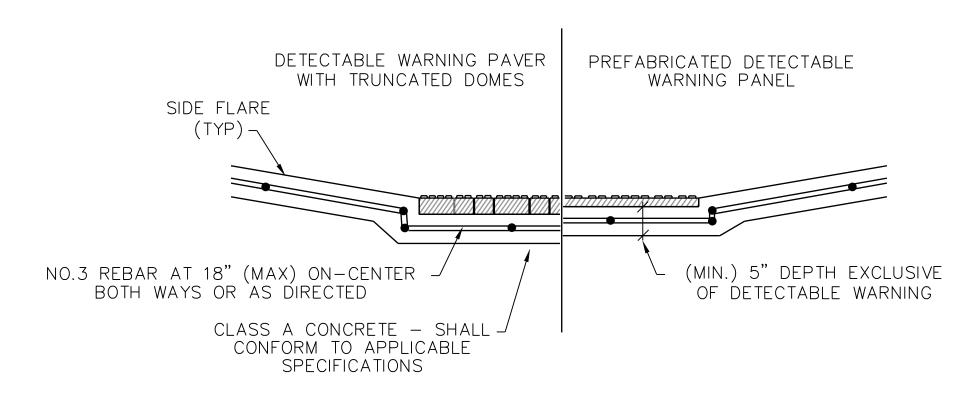
- 19. Curb ramps must contain a detectable warning surface that consists of raised truncated domes complying with PROWAG. The surface must contrast visually with adjoining surfaces, including side flares. Furnish and install an approved cast—in—place dark brown or dark red detectable warning surface material adjacent to uncolored concrete, unless specified elsewhere in the plans.
- 20. Detectable Warning Materials must meet TxDOT Departmental Materials Specification DMS 4350 and be listed on the Material Producer List. Install products in accordance with manufacturer's specifications.
- 21. Detectable warning surfaces must be firm, stable and slip resistant.
- 22. Detectable warning surfaces shall be a minimum of 24 inches in depth in the direction of pedestrian travel, and extend the full width of the curb ramp or landing where the pedestrian access route enters the street.
- 23. Detectable warning surfaces shall be located so that the edge nearest the curb line is at the back of curb and neither end of that edge is greater than 5 feet from the back of curb. Detectable warning surfaces may be curved along the corner radius.
- 24. Shaded areas on Sheet 1 of 4 indicate the approximate location for the detectable warning surface for each curb ramp type.

#### DETECTABLE WARNING PAVERS (IF USED)

- 25. Furnish detectable warning paver units meeting all requirements of ASTM C-936, C-33. Lay in a two by two unit basket weave pattern or as directed.
- 26. Lay full—size units first followed by closure units consisting of at least 25 percent (25%) of a full unit. Cut detectable warning paver units using a power saw.

#### SIDEWALKS

- 27. Provide clear ground space at operable parts, including pedestrian push buttons. Operable parts shall be placed within unobstructed reach range specified in PROWAG section R406.
- 28. Place traffic signal or illumination poles, ground boxes, controller boxes, signs, drainage facilities and other items so as not to obstruct the pedestrian access route or clear ground space.
- 29. Street grades and cross slopes shall be as shown elsewhere in the plans.
- 30. Changes in level greater than 1/4 inch are not permitted.
- 31. The least possible grade should be used to maximize accessibility. The running slope of sidewalks and crosswalks within the public right of way may follow the grade of the parallel roadway. Where a continuous grade greater than five percent (5%) must be provided, handrails may be desirable to improve accessibility. Handrails may also be needed to protect pedestrians from potentially hazardous conditions. If provided, handrails shall comply with PROWAG R409.
- 32. Handrail extensions shall not protrude into the usable landing area or into intersecting pedestrian routes.
- 33. Driveways and turnouts shall be constructed and paid for in accordance with Item "Intersections, Driveways and Turnouts". Sidewalks shall be constructed and paid for in accordance with Item, "Sidewalks".
- 34. Sidewalk details are shown elsewhere in the plans.



SECTION VIEW DETAIL

CURB RAMP AT DETECTIBLE WARNINGS

BOTTOM GRADE BREAK OF CURB RAMP WILL NORMALLY BE AT GUTTER LINE.
SURFACE SLOPES AT GRADE BREAKS
SHALL BE FLUSH.

CONTINUOUS CURB
BEYOND

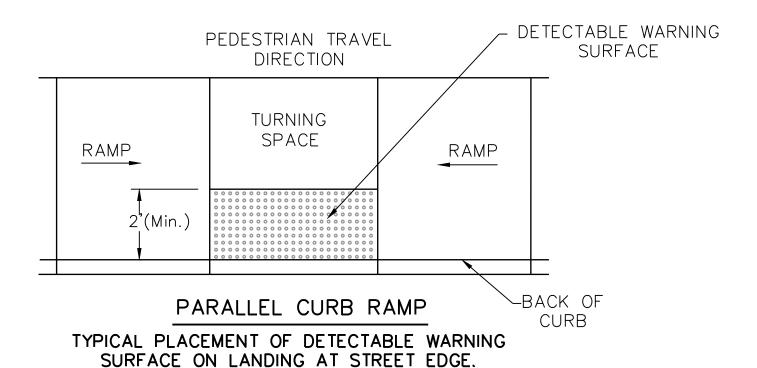
RAMP SLOPE

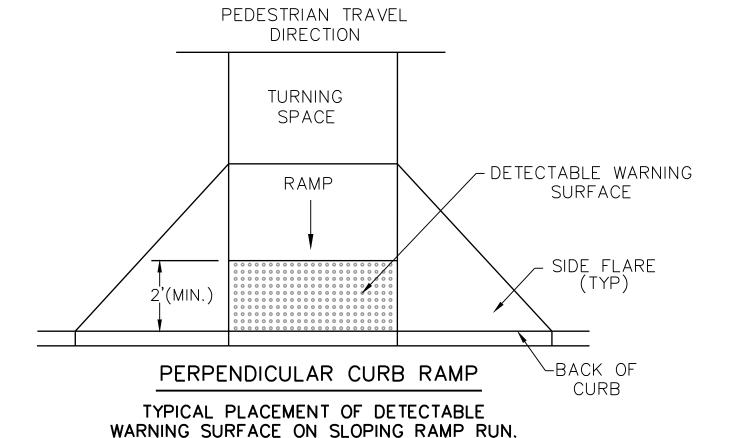
COUNTER SLOPE

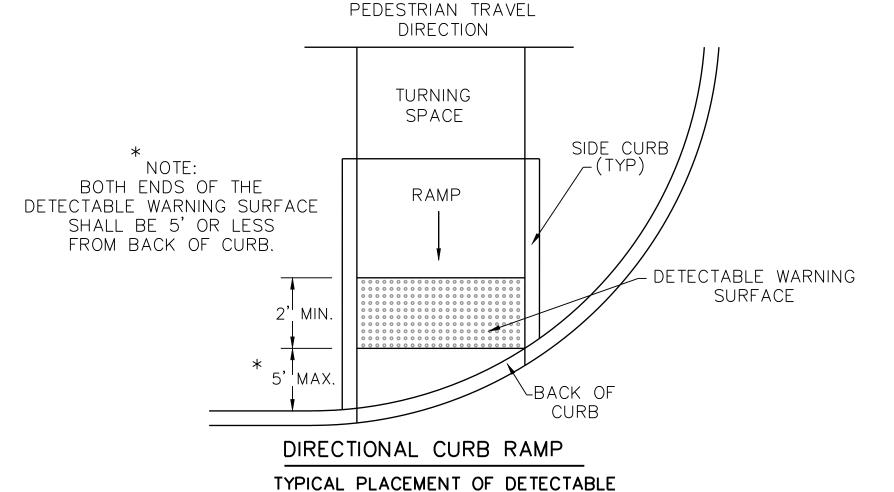
5% MAX.

TYPICAL SECTION OF PERPENDICULAR
CURB RAMP AT CONNECTION TO ROADWAY

## DETECTABLE WARNING SURFACE DETAILS







WARNING SURFACE ON SLOPING RAMP RUN.

CERTIFICATION:
THIS CITY OF LANCASTER STANDARD DETAIL
SHEET IS AUTHORIZED FOR USE IN THIS
PROJECT BY THE ENGINEER WHOSE SEAL
APPEARS ON THIS SHEET. THIS ENGINEER IS
ALSO CERTIFYING THAT THE CONTENT OF THE
DETAILS AND NOTES ON THIS SHEET HAVE
NOT BEEN ALTERED FROM THAT RECEIVED FROM
THE CITY OF LANCASTER.

PEDESTRIAN FACILITIES 2 OF 4

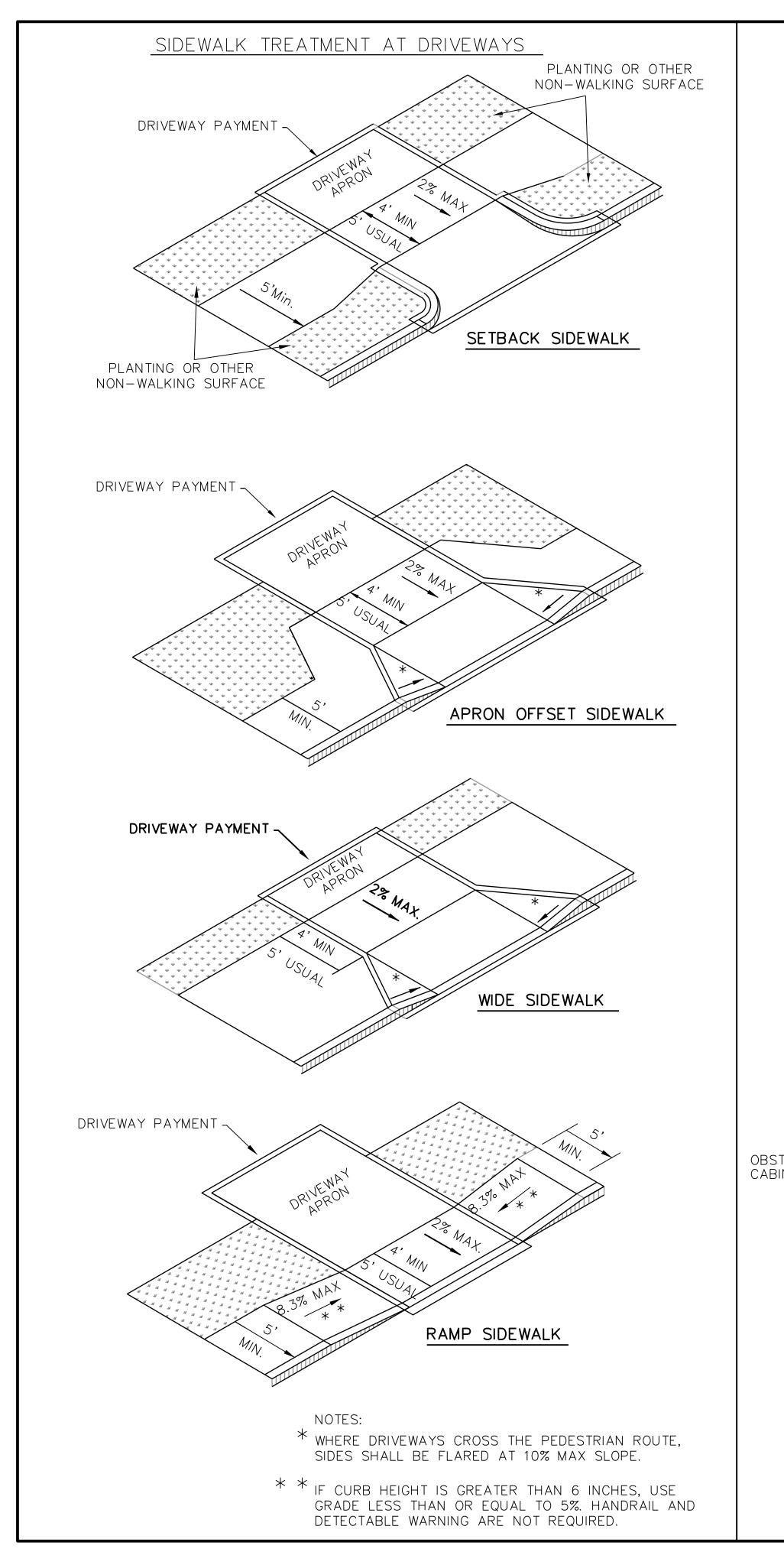
STANDARD DETAILS

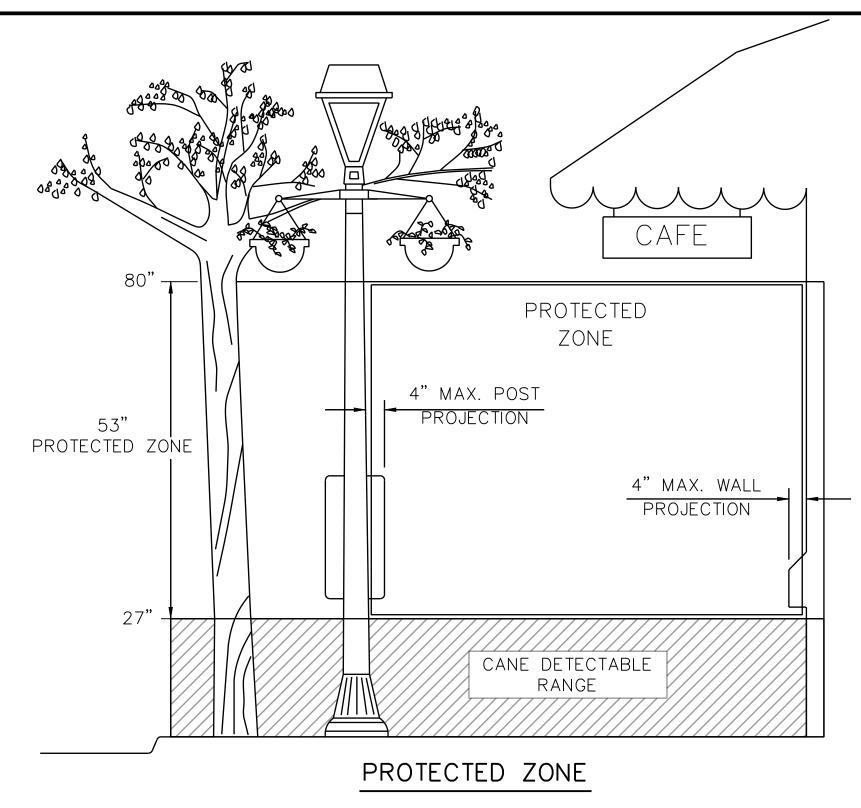
DESIGN DRAWN CHECK DATE SCALE SECTION NO.

May 2021

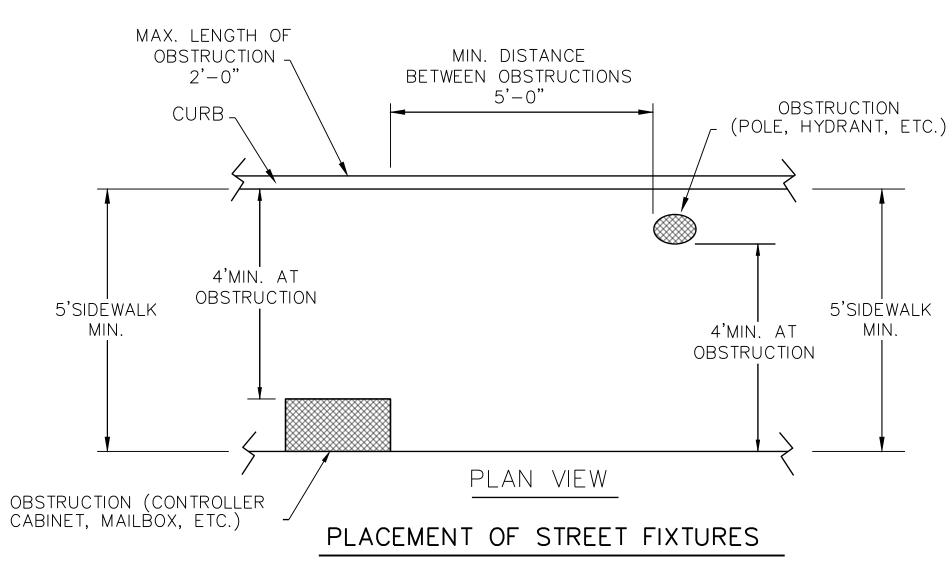
N.T.S.

PAV-08

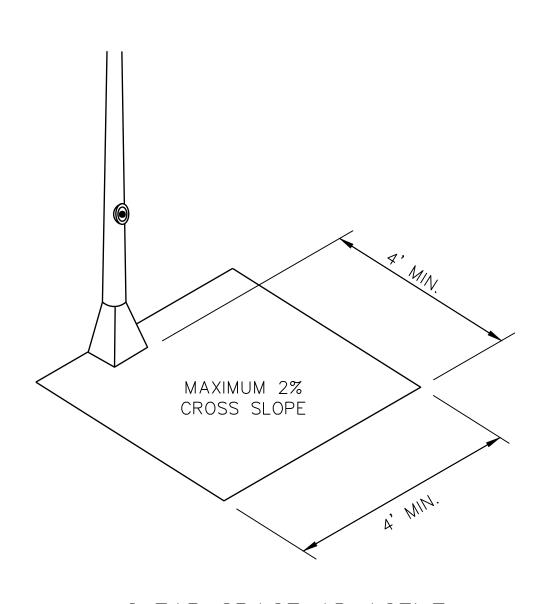




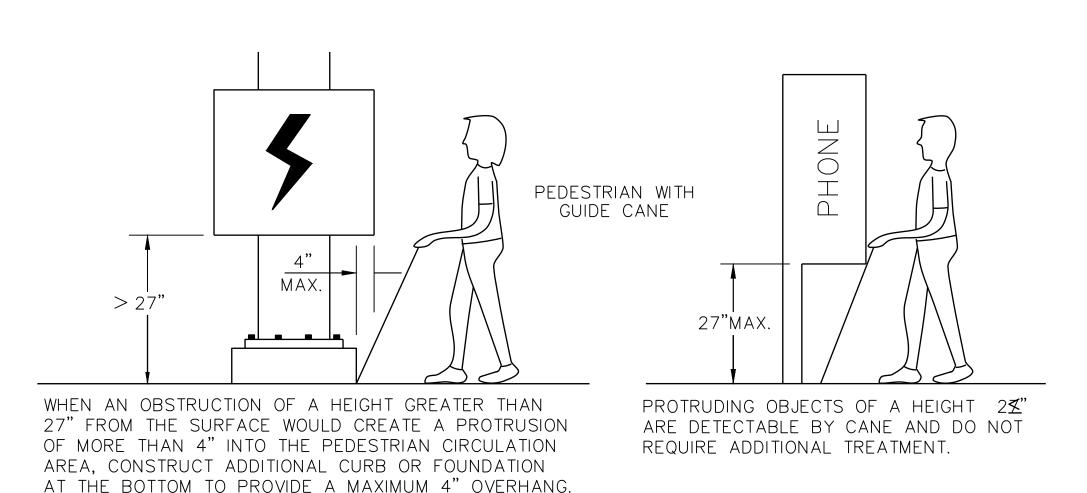
NOTE: IN PEDESTRIAN CIRCULATION AREA, MAXIMUM 4" PROJECTION FOR POST OR WALL MOUNTED OBJECTS BETWEEN 27" AND 80" ABOVE THE SURFACE.



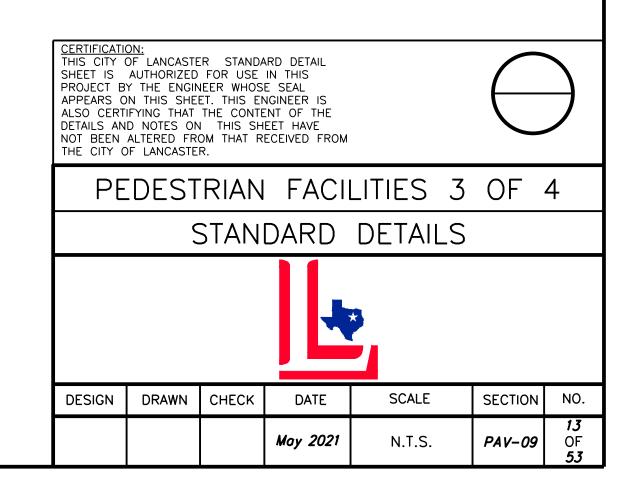
NOTE: ITEMS NOT INTENDED FOR PUBLIC USE.
MINIMUM 4' X 4' CLEAR GROUND SPACE
REQUIRED AT PUBLIC USE FIXTURES.



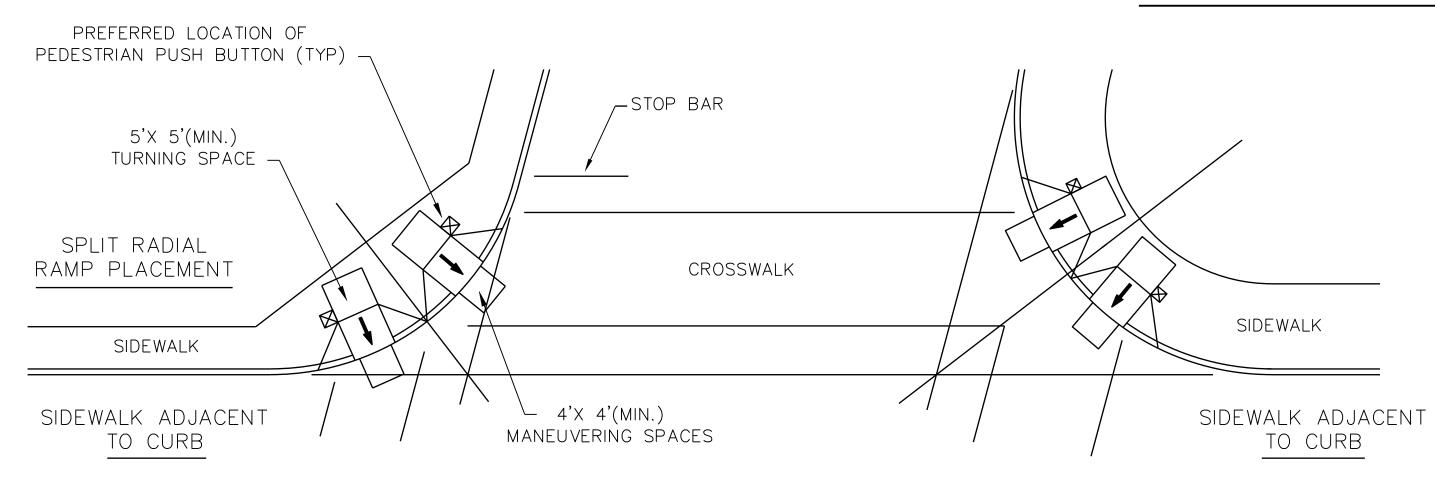
CLEAR SPACE ADJACENT TO PEDESTRIAN PUSH BUTTON



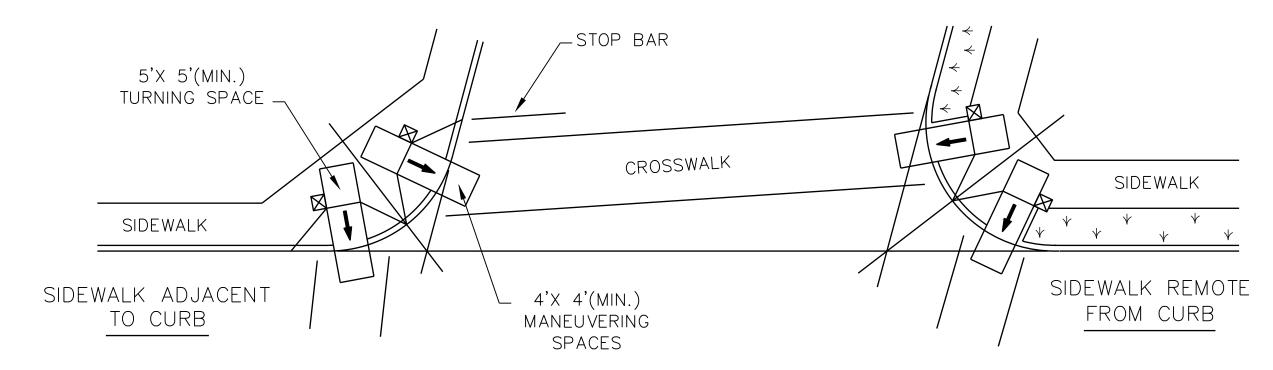
DETECTION BARRIER FOR VERTICAL CLEARANCE <80"



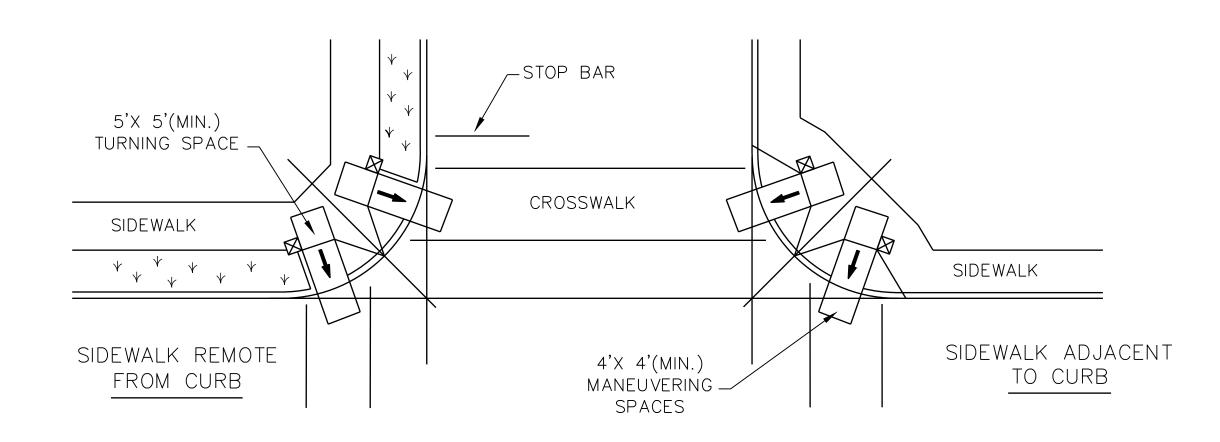
# TYPICAL CROSSING LAYOUTS SEE SHEET 1 OF 4 FOR DETAILS AND DIMENSIONS



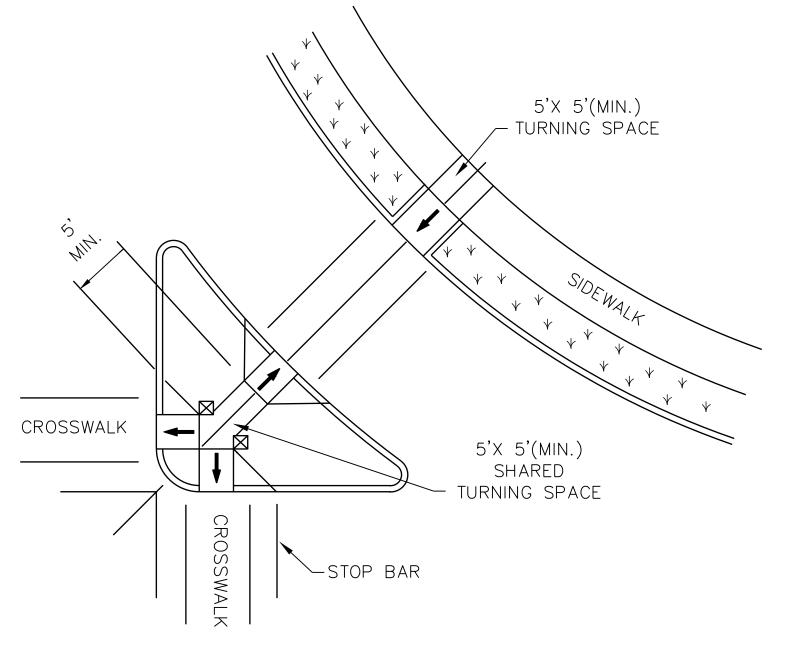
## SKEWED INTERSECTION WITH "LARGE" RADIUS



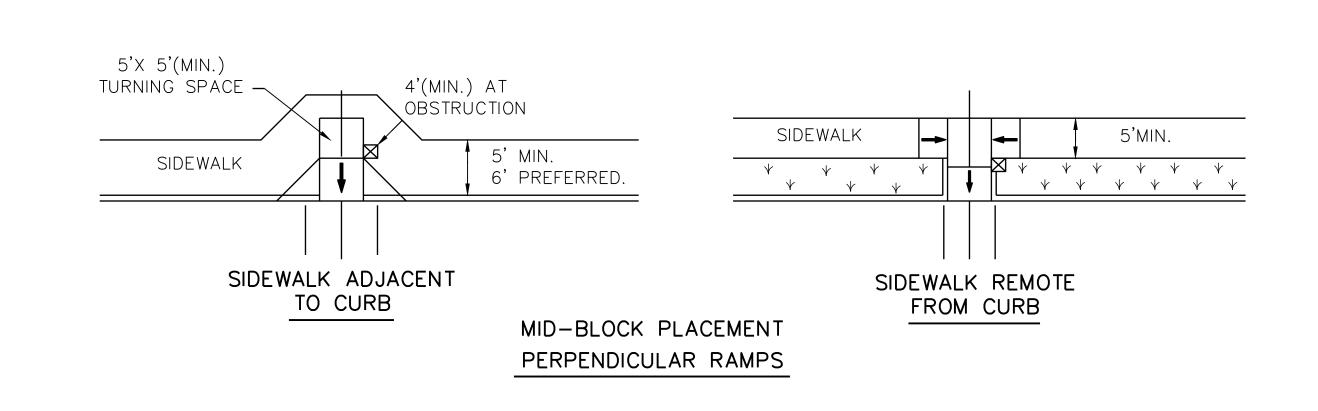
## SKEWED INTERSECTION WITH "SMALL" RADIUS



## NORMAL INTERSECTION WITH "SMALL" RADIUS









SHOWS DOWNWARD SLOPE.

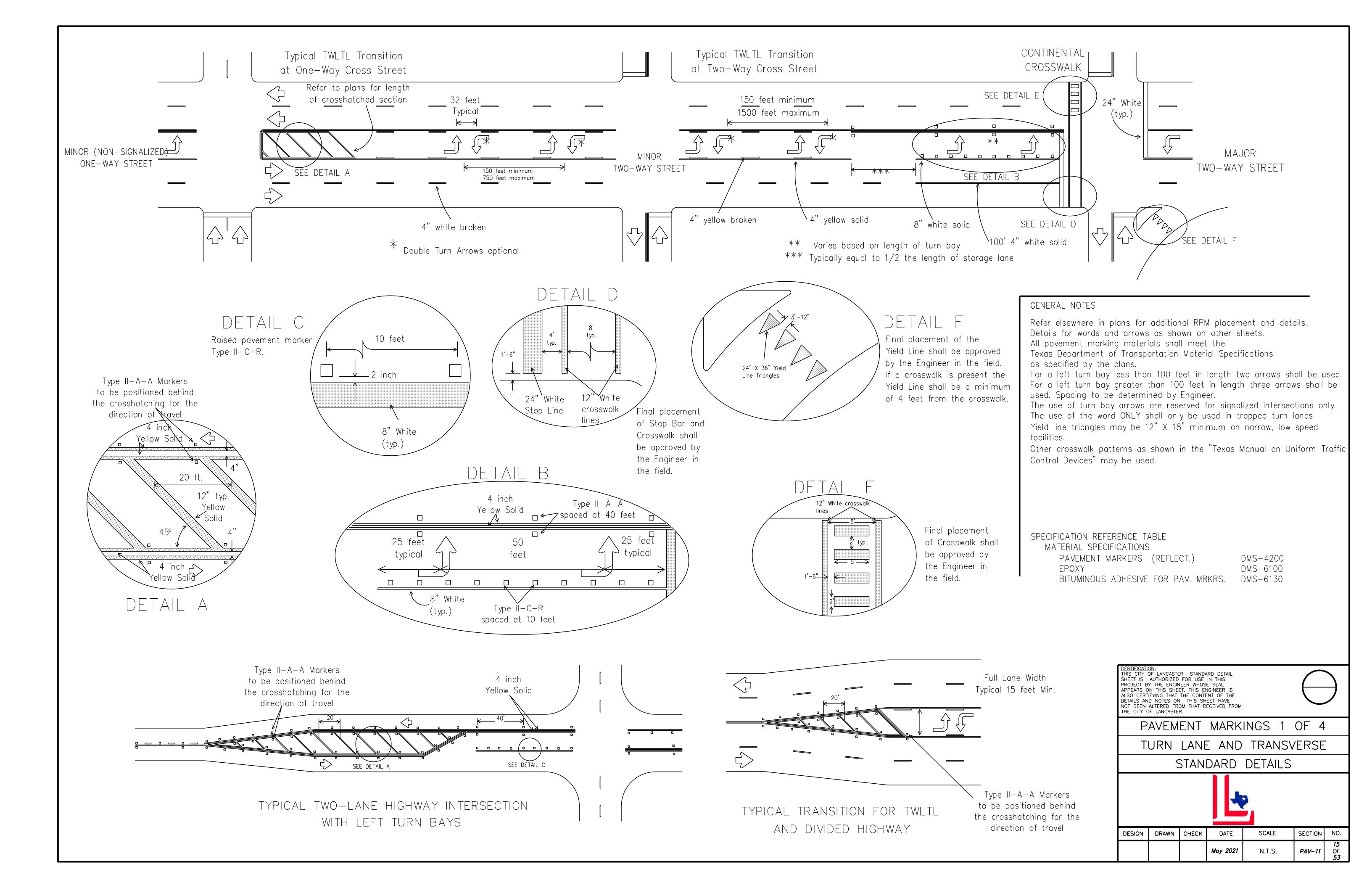
DENOTES PREFERRED LOCATION OF PEDESTRIAN PUSH BUTTON (IF APPLICABLE).

DENOTES PLANTING OR NON-WALKING SURFACE NOT PART OF PEDESTRIAN CIRCULATION PATH.

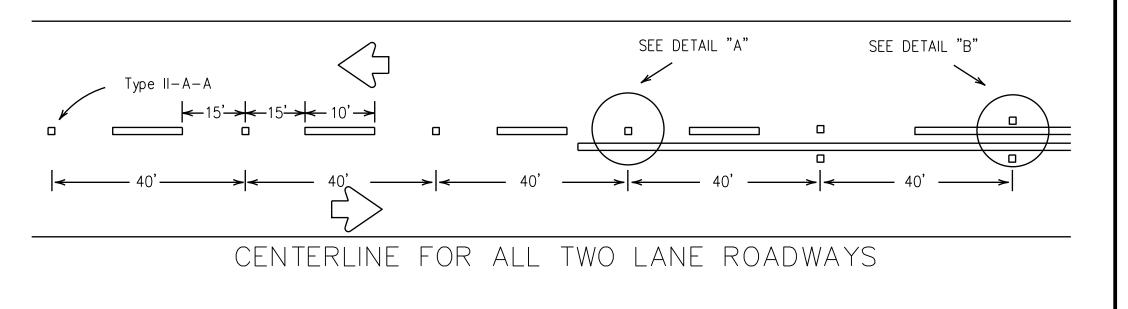
V V V V V

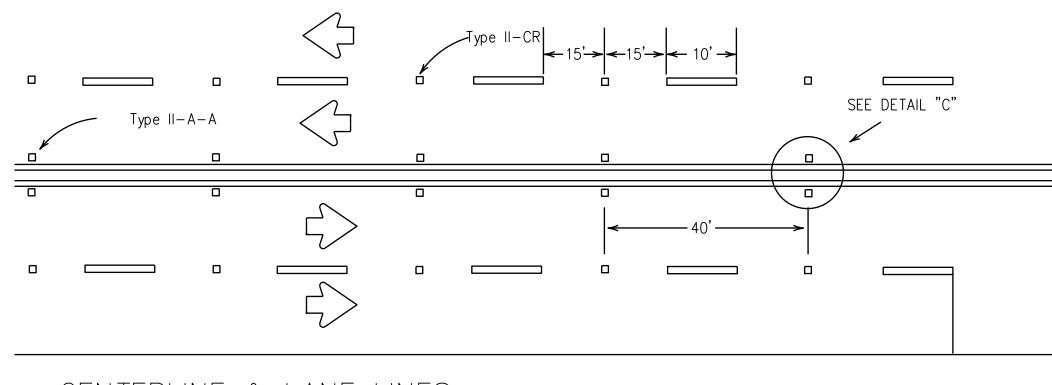
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SHEET IS PROJECT B APPEARS C ALSO CERT DETAILS AN NOT BEEN	OF LANCASTE AUTHORIZED Y THE ENGIN N THIS SHE IFYING THAT D NOTES ON	FOR USE IEER WHOS ET. THIS EN THE CONTE I THIS SH DM THAT R	IN THIS E SEAL NGINEER IS ENT OF THE		$\subset$	
PE	DEST	RIAN	FACII	LITIES 4	OF	4
		STAN	DARD	DETAILS		
			4			
DESIGN	DRAWN	CHECK	DATE	SCALE	SECTION	NO.
			May 2021	N.T.S.	PAV-10	14 OF 53



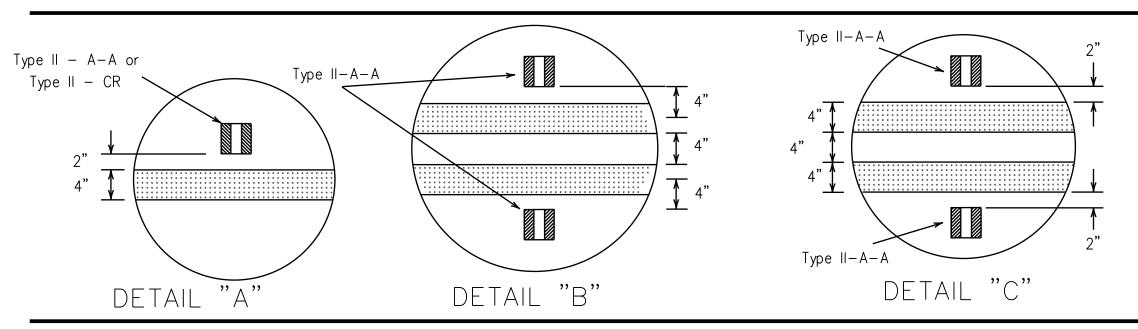
# REFLECTIVE RAISED PAVEMENT MARKERS FOR VEHICLE POSITIONING GUIDANCE

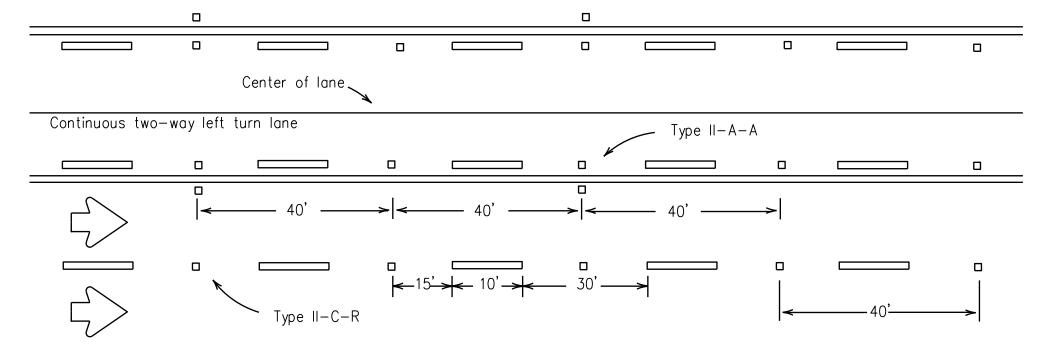




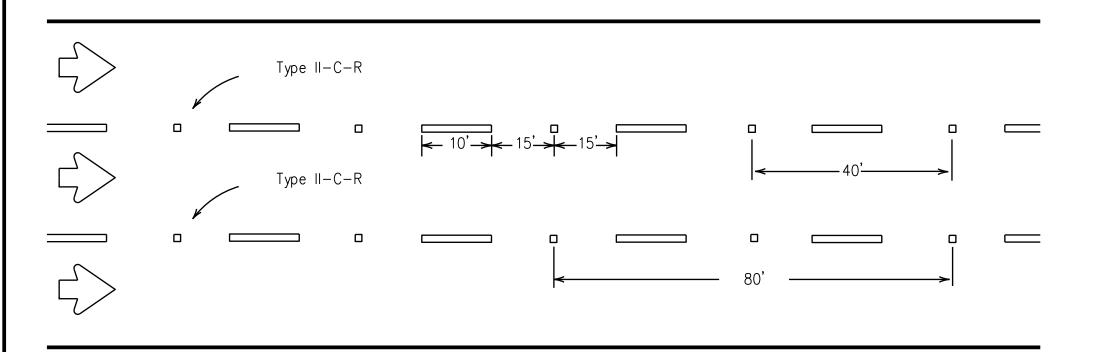
CENTERLINE & LANE LINES FOR FOUR LANE TWO-WAY HIGHWAYS

Raised pavement marker Type II—CR, shall have clear side face toward normal traffic. Red side shall face wrong way traffic. Shall be placed on 40' centers.





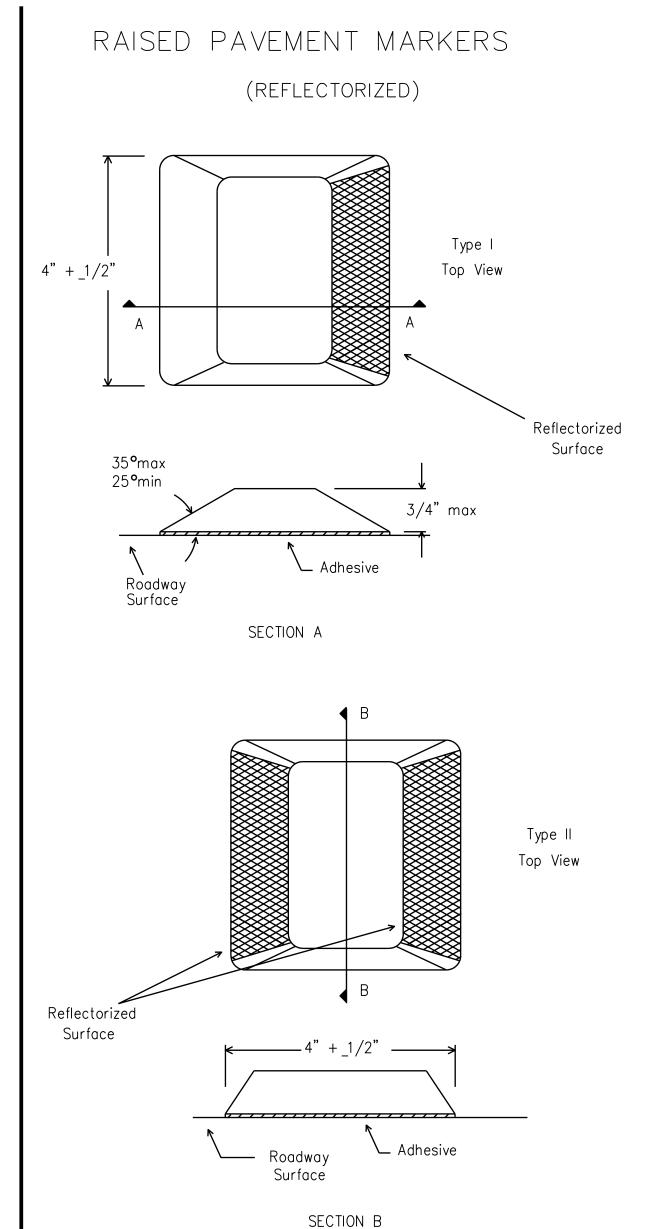
CENTERLINE AND LANE LINES FOR TWO-WAY LEFT TURN LANE



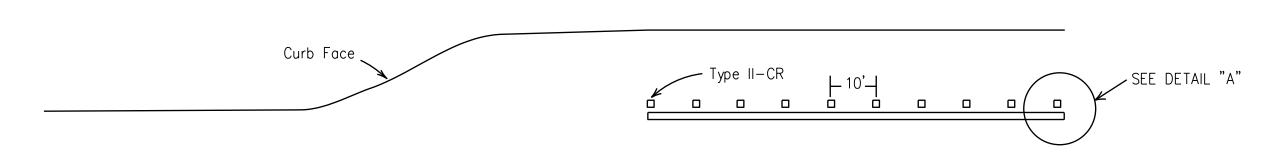
LANE LINES FOR ONE-WAY ROADWAY (NON-FREEWAY FACILITIES)

Raised pavement markers Type II—C—R shall have clear face toward normal traffic and red face toward wrong—way traffic.

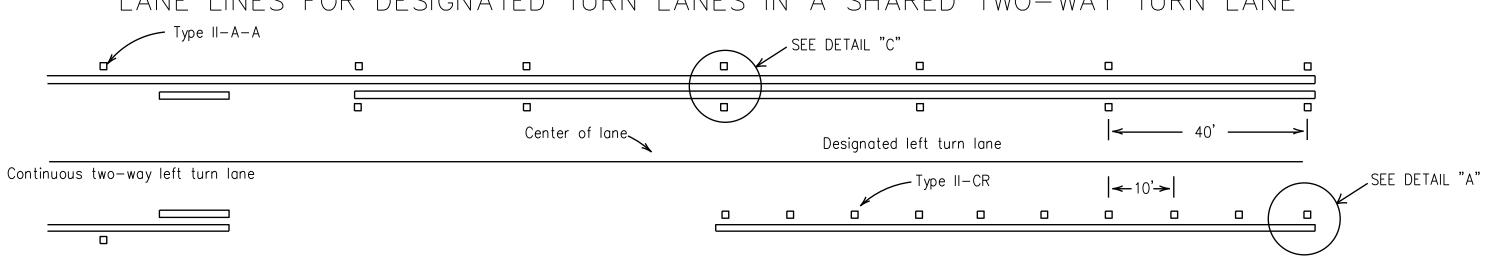
Type I — C markers may be used in place of Type II — CR markers at the discrection of the Engineer.







LANE LINES FOR DESIGNATED TURN LANES IN A SHARED TWO-WAY TURN LANE



GENERAL NOTES:

All raised pavement markers placed in broken lines shall be placed in line with and midway between the stripes.

On concrete pavements the raised pavement markers should be placed to the same side of the longitudinal joints as the lane line.

All pavement markers installed on concrete shall be installed using Epoxy adhesive.

All pavement markers installed on asphalt shall be installed using Bituminous adhesive.

All pavement marking materials shall meet the Texas Department of Transportation Material Specifications as specified by the plans.

SPECIFICATION REFERENCE TABLE

MATERIAL SPECIFICATIONS

PAVEMENT MARKERS (REFLECT.)

FPOXY

DMS-4200

DMS-6100

BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS

DMS-6130

CERTIFICATION:
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SHEET IS AUTHORIZED FOR USE IN THIS
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PAVEMENT MARKINGS 2 OF 4

RAISED PAVEMENT MARKERS

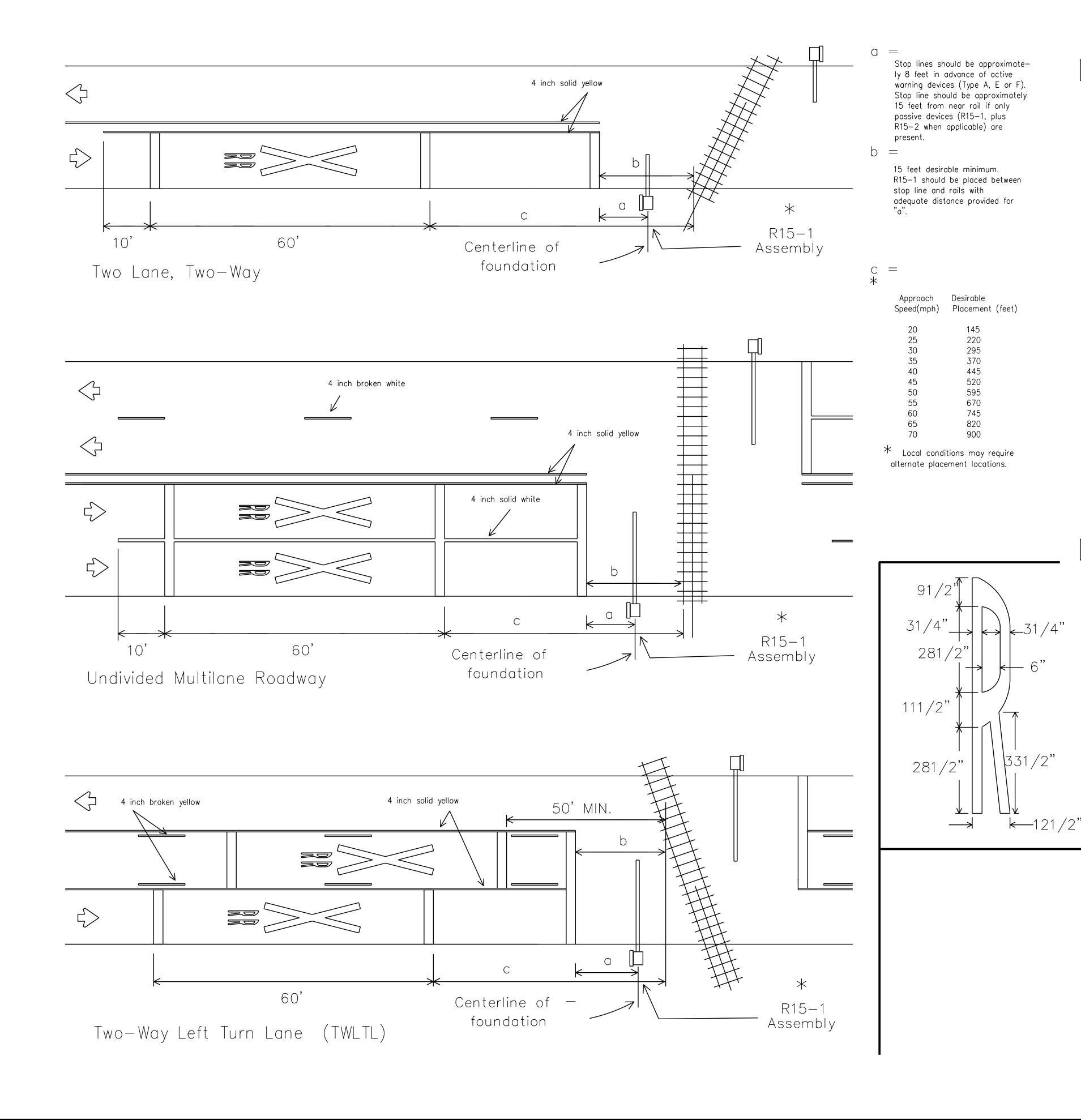
STANDARD DETAILS

DESIGN DRAWN CHECK DATE SCALE SECTION NO

May 2021

N.T.S.

*PAV-12* OF



## ESTIMATED QUANTITIES

(for Contractor Information ONLY)

24 INCH WHITE TRANSVERSE MARKINGS AND STOP LINES

No. of Approach Lanes (Include TWLTL) LANE WIDTH (FT)

11 12 13 14

1 33 36 39 42

2 66 72 78 84

3 99 108 117 126

4 132 144 156 168

4 INCH SOLID YELLOW NO PASSING LINE = "d" - "c" + 70

For: Two Lane, Two-Way, Single Lane Approach per Direction

4 INCH SOLID WHITE LANE LINE = "d" - "a" + 70

For: Two—Way or One—Way Traffic, 2 or More Approach Lanes in Same Direction (Do NOT Include TWLTL)

#### GENERAL NOTES

24"

16"

16'

18"

78"

53/4

- The pavement markings on an approach to a railroad grade crossing shall consist of:
  - a. The RR Xing symbol,
  - b. Three transverse 24" lines, and
  - c. Lane lines: a solid no passing line for two-way
    - traffic approaches, or solid lane lines for multilane approaches.
- 2. For bidding purposes, the RR Xing symbol will be measured and paid for as for each lane in place. The transverse markings and lane lines will be measured and paid for by the lineal foot
- 3. Centerlines shall be yellow, other markings shall be white.
- 4. Approach lanes less than 8 foot width shall NOT have markings.
- 5. Markings should NOT be placed where less than 110 feet of
- approach roadway is available for placement.

  6. RR Xing symbols should be placed approximately in the center of
- the approach lane.
- 7. All transverse markings, including stop lines, shall be placed at right angles to the centerline and across all approach lanes.
- 8. Existing non-standard markings shall be removed to the fullest extent possible so as not to leave a discernable marking, by any method approved by the engineer. OVERPAINTING WILL NOT BE
- 9. Additional markings and placement details may be found in the TMUTCD, Appendix H.
- 10. The Engineer may require additional longitudinal markings if the distance between the stop lines is greater than 80 feet. Markings are not required across or between the rails unless specified elsewhere in the plans.

\*

R15-1 Assembly

May consist of one or more of the following:

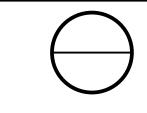
R15-1 Crossbuck Sign

R15-2 Multiple Track Sign

Type A Mast Flashers

Type E Cantilevers
Type F Gates

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PAVEMENT MARKINGS 3 OF 4

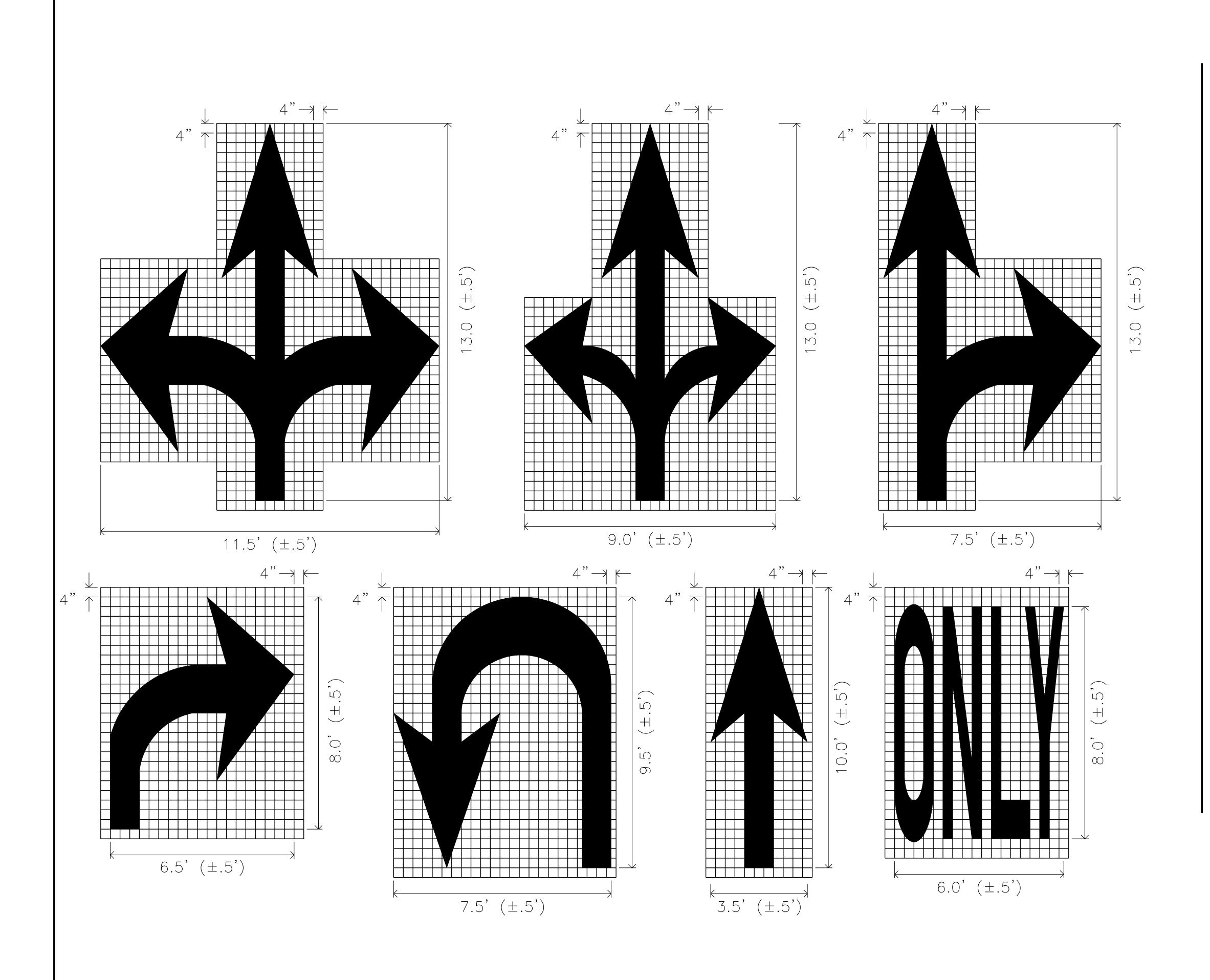
RAILROAD CROSSINGS

STANDARD DETAILS



DESIGN DRAWN CHECK DATE SCALE SECTION NO.

May 2021 N.T.S. PAV-13 OF 53



#### GENERAL NOTES;

- 1. Minimum 8 foot white markings should be used, unless otherwise noted. If message consists of more than one word, it should be placed with first word nearest the driver.
- 2. These details are standard size for normal installation; sizes may be reduced approximately one—third for low speed urban conditions; larger sizes may be needed for freeways, above average speed conditions or other critical locations.
- 3. The longitudinal space between markings should be at least four times the height of the markings, on low speed roads, but should not exceed ten times the height under any condition.
- 4. Markings considered appropriate for use when warranted include the following:

A. Regulatory
STOP
RIGHT (LEFT) TURN ONLY
25 MPH
SYMBOL ARROWS
B. Warning
STOP AHEAD
SIGNAL AHEAD
CCHOOL

- SIGNAL AHEAD
  SCHOOL
  SCHOOL X-ING
  PED X-ING
- PED X-ING R X R (see RCPM standard) C. Guide
- US XXX
  ROUTE XXX
  STATE XXX
- Other words or symbols may be necessary under certain conditions

  5. Uncontrolled use of pavement markings can result
- in driver confusion. Word and symbol markings should be no more than three lines.

  6. The word "STOP" shall not be used on the pavement unless accompanied by a Stop line and Stop sign. The
- unless accompanied by a Stop line and Stop sign. The word "STOP" shall not be placed on the pavement in advance to a stop line, unless every vehicle is required to stop at all times.
- 7. Pavement markings should generally be no more than one lane in width, with School messages being the exception. For details of School and School crossing pavement markings, refer to Part VII of the "Texas Manual on Uniform Traffic Control Devices".

  8. Spacing between letters should be approximately 4 inches. The width of letters may vary depending on the width of the travel lanes.
- 9. Lane—Use arrow markings may be used to convey either guidance or mandatory messages. Arrows used to convey a mandatory movement must be accompanied by standard signs. The use of the pavement marking word "ONLY" shall be determined by the Engineer.

  10. Pavement markings are to be located as specified elsewhere in the plans.

SPAC	ING BETWEEN LINES
OF P	AVEMENT MARKING
MPH	SPACING
≤45	MINIMUM 4 TIMES THE LETTER HEIGHT
>45	MINIMUM — 4 TIMES THE LETTER HEIGHT MAXIMUM — 10 TIMES THE LETTER HEIGHT

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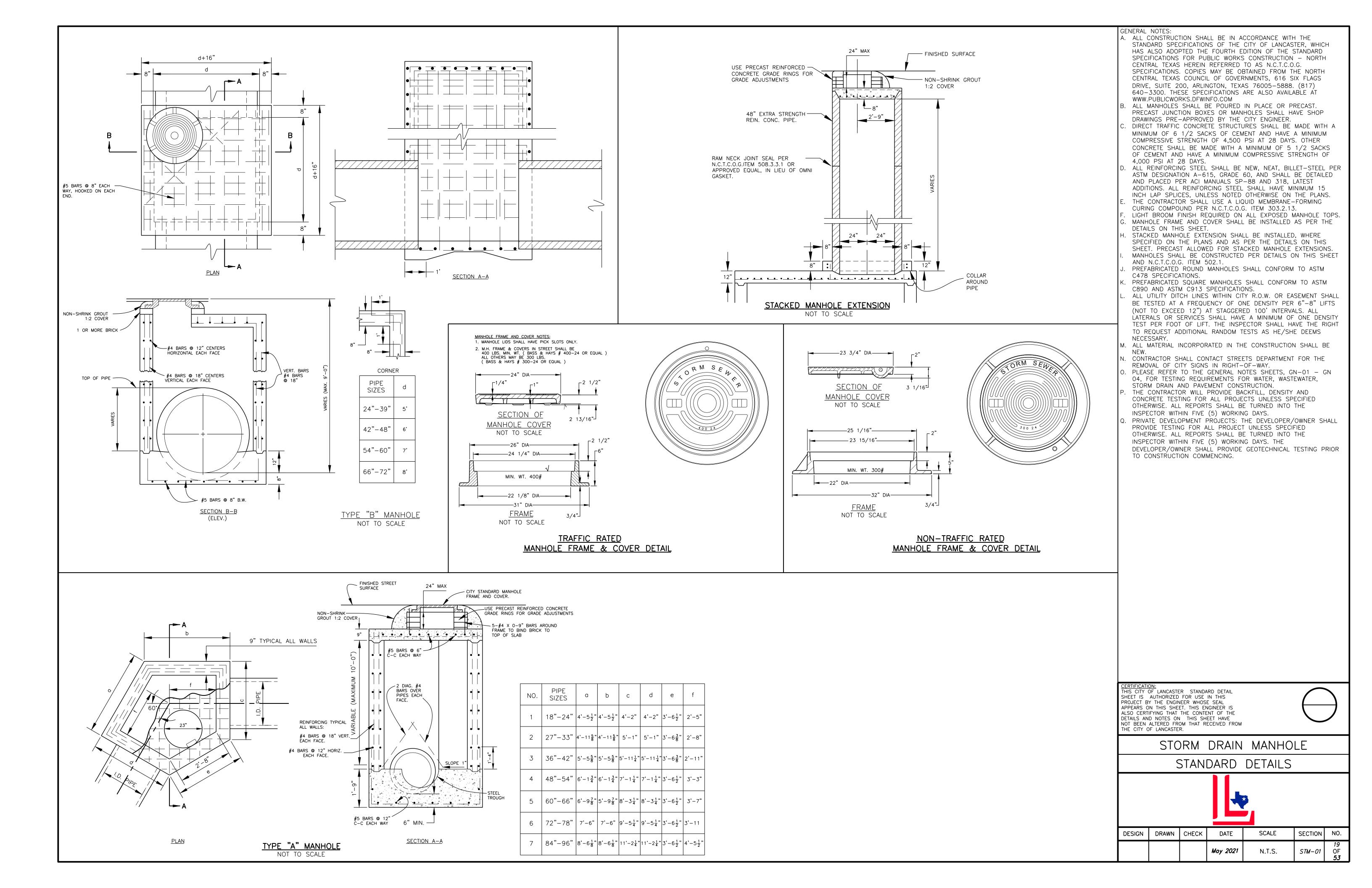


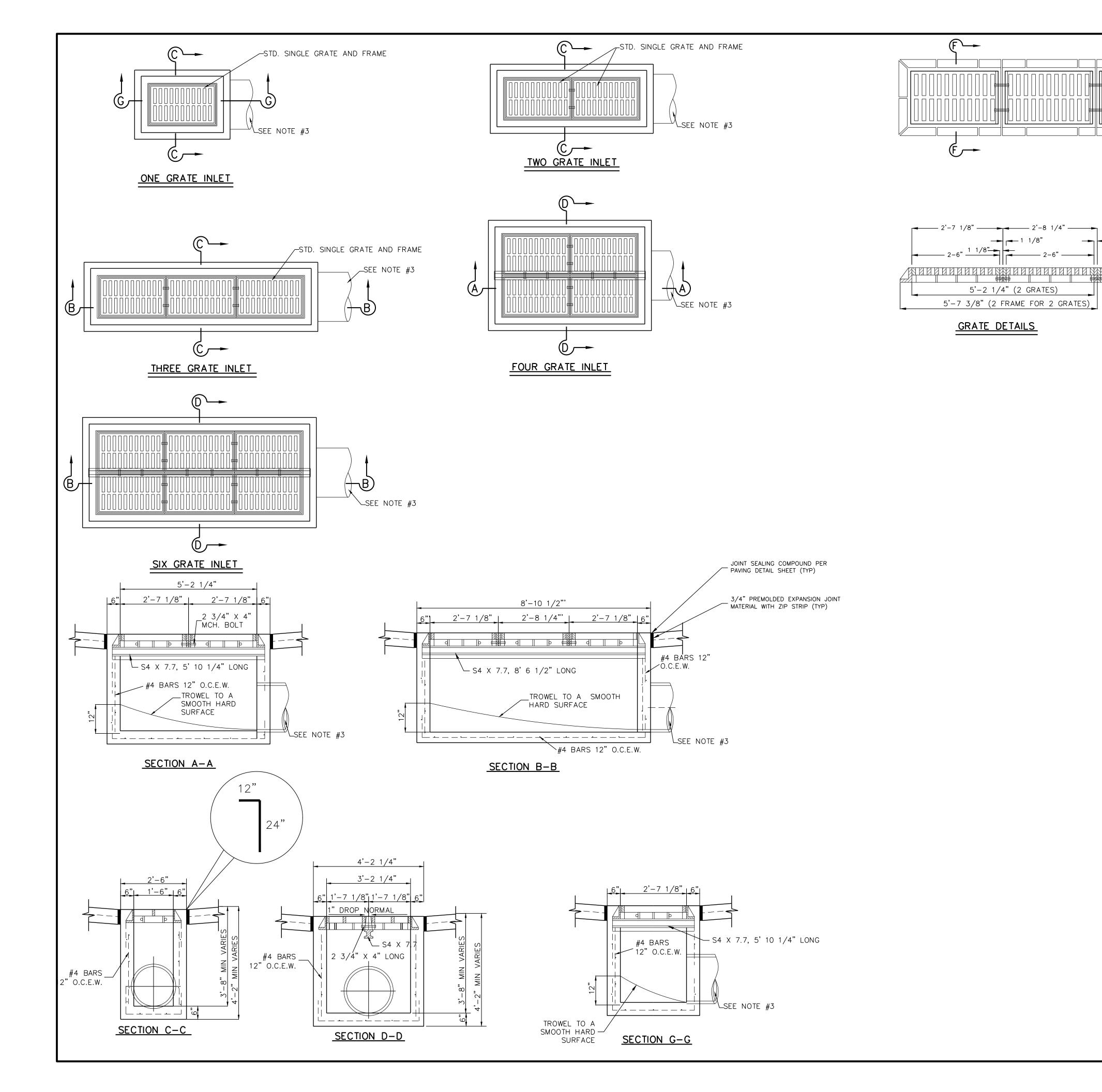
## PAVEMENT MARKINGS 4 OF 4

ARROWS AND SYMBOLS



DESIGN	DRAWN	CHECK	DATE	SCALE	SECTION	NO.
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#### GENERAL:

(A) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE CITY OF LANCASTER, WHICH HAS ALSO ADOPTED THE FOURTH EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION — NORTH CENTRAL TEXAS HEREIN REFERRED TO AS N.C.T.C.O.G. SPECIFICATIONS. COPIES MAY BE OBTAINED FROM THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, 616 SIX FLAGS DRIVE, SUITE 200, ARLINGTON, TEXAS 76005—5888. (817) 640—3300. THESE SPECIFICATIONS ARE ALSO AVAILABLE AT WWW.PUBLICWORKS.DFWINFO.COM

#### CLOSED CONDU

SECTION F-F

GRATE AND FRAME SHALL BE

MANUFACTURED BY BASS &

HAYES FOUNDRY OR APPROVED

PATTERN NO. 814 AS

EQUAL.

1. ALL LAPS AND EXTENSIONS OF REINFORCING

2. TACK WELD GRATES IN PLACE OR USE GRATE

3. PIPE MAY BE PLACED IN ANY WALL, BUT

5. GRATE INLET DESIGN TO BE ONLY USED IN

4. CONCRETE TO MIN. OF 4200 PSI.

BARS SHALL BE 30 BAR DIAMETERS UNLESS

SHALL NOT ENTER ANY CORNER OR BOTTOM.

<u>NOTES</u>

LOCK.

NOTED OTHERWISE.

PAVED AREAS ONLY.

A) CLOSED CONDUITS SHALL BE INSTALLED PER N.C.T.C.O.G. ITEM 508

- (B) ONLY REINFORCED CONCRETE PIPE (RCP) OR REINFORCED CONCRETE BOX (RCB) IS APPROVED FOR USE FOR STORM DRAIN CONDUIT, UNLESS APPROVED OTHERWISE BY THE CITY ENGINEER.
- (C) CLASS IV RCP SHALL BE USED WHERE THE PIPE COVER IS GREATER THAN 1 FEET AND LESS THAN 2 FEET. CLASS III RCP SHALL BE USED WHERE THE PIPE COVER VARIES FROM 2 FEET TO 6 FEET. THE CLASS OF ALL OTHER RCP SHALL DETERMINED BY AN ENGINEER PER LOADS AND SUPPORTING STRENGTHS, AMERICAN CONCRETE PIPE ASSOCIATION.
- (D) C-850 RCB SHALL BE USED WHERE THE COVER IS LESS THAN 3 FEET. C-789 SHALL BE USED WHERE THE COVER VARIES FROM 3 FEET TO 6 FEET. THE DESIGN OF ALL OTHER RCB SHALL BE DETERMINED BY AN ENGINEER.
- (E) FOR PIPES, EMBEDMENT SHALL BE PER THE STREET BACKFILL & REPAIR DETAIL ON STORM DRAIN & INLET STANDARD DETAIL SHEET. FOR BOX CULVERTS, EMBEDMENT SHALL BE PER THE BOX CULVERT EMBEDMENT DETAIL ON STORM DRAIN & INLET STANDARD DETAIL SHEET. NOTE THAT FLOWABLE BACKFILL IS ONLY REQUIRED BELOW AREAS TO BE PAVED.
- (F) THE CONTRACTOR SHALL SEAL ALL JOINTS ON CLOSED CONDUITS WITH OMNI-FLEX JOINT SEALS OR EQUAL; UNLESS APPROVED OTHERWISE BY THE CITY ENGINEER.
- (G) THE MINIMUM SIZE FOR LATERALS IS 18 INCHES IN DIAMETER. THE MINIMUM SIZE FOR MAINS IS 24 INCHES IN DIAMETER.

#### FITTINGS COLLARS AND CONNECTIONS:

- (A) THE CONTRACTOR SHALL USE ONLY PRE-FABRICATED FITTINGS ON NEW CONSTRUCTION PROJECTS. FIELD CONNECTIONS SHALL BE MADE ONLY TO EXISTING PIPE WITH CITY APPROVAL. THE CONNECTION SHALL BE A SMOOTH CONNECTION AND CONCRETE WRAPPED ON THE OUTSIDE AND INSIDE.
- (B) CONCRETE COLLARS SHALL BE CONSTRUCTED PER THE CONCRETE COLLAR DETAILS, ON THE STORM DRAIN AND INLET STANDARD DETAIL SHEET, AT ALL STORM DRAIN SIZE AND AT GRADE CHANGES OR IN CURVES WHERE THE JOINT IS BEING PULLED MORE THAN RECOMMENDED BY THE MANUFACTURER. PLEASE ALSO REFER TO THE DETAILS ON THIS SHEET AND N.C.T.C.O.G. ITEM 508.3.4.1.

#### INLETS:

- (A) ALL INLETS SHALL BE POURED IN PLACE OR PRECAST. PRECAST INLETS, JUNCTION BOXES, MANHOLES, AND HEADWALLS SHALL HAVE SHOP DRAWINGS PRE-APPROVED BY THE CITY ENGINEER.
- (B) INLETS SHALL NOT BE USED AS JUNCTION BOXES OR PLACED ON A MAIN, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
   (C) THE MINIMUM OPENING FOR A CURB INLET SHALL BE 5 FEET. CURB INLETS SHALL BE CONSTRUCTED IN 5 FOOT INCREMENTS. ALL CURB INLETS WITH 15 FEET WIDE OR
- LARGER OPENINGS SHALL HAVE A CENTER SUPPORT. ALL CURB INLETS GREATER
  THAN 7 FEET DEEP SHALL BE DESIGNED AND SEALED BY AN ENGINEER.

  (D) BOTTOMS, TOPS, AND VARIABLE HEIGHT CURB TO BE SEPARATE POURS (3 POURS)
- FOR CURB INLETS.

  (E) CURB INLET BOTTOMS SHALL BE POURED PRIOR TO ANY PAVING. (F) CURB INLETS
- SHALL HAVE 10 LINEAR FEET OF VARIABLE HEIGHT CURB ON BOTH SIDES OF THE INLET OPENING.

  FRAME AND COVER ON CURB INLETS TO BE LOCATED DIRECTLY OVER THE OUTLET.
- (G) FRAME AND COVER ON CURB INLETS TO BE LOCATED DIRECTLY OVER THE OUTLET PIPE.

#### ONCRETE:

- A) CONCRETE SHALL BE MADE WITH A MINIMUM OF 6 1/2 SACKS OF CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS. NO CONTINUOUS VOLUMETRIC MIX CONCRETE ALLOWED IN STRUCTURAL POURS. ALL CONCRETE MUST BE PLANT RUN/TRANSIT MIX CONCRETE. UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- (B) ALL REINFORCING STEEL SHALL BE NEW, NEAT, BILLET—STEEL PER ASTM DESIGNATION A—615, GRADE 60, AND SHALL BE DETAILED AND PLACED PER ACI MANUALS SP—88 AND 318, LATEST ADDITIONS. ALL REINFORCING STEEL SHALL HAVE MINIMUM 15 INCH LAP SPLICES, UNLESS NOTED OTHERWISE ON THE PLANS.
- C) THE CONTRACTOR SHALL USE A LIQUID MEMBRANE—FORMING CURING COMPOUND PER N.C.T.C.O.G. ITEM ITEM 303.2.13.1.1.

### TESTING:

- (A) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:

  (a) ALL CLOSED CONDUITS SHALL BE T.V. INSPECTED PER N.C.T.C.O.G. ITEM
- 507.5.2 METHOD AND BE COMPLETED PRIOR TO PLACING PAVEMENT.

  (b) ALL UTILITY DITCH LINES WITHIN CITY R.O.W. OR EASEMENT SHALL BE TESTED AT A FREQUENCY OF ONE DENSITY PER 6"-8" LIFTS (NOT TO EXCEED 12") AT STAGGERED 100' INTERVALS. ALL LATERALS OR SERVICES SHALL HAVE A MINIMUM OF ONE DENSITY TEST PER FOOT OF LIFT. THE INSPECTOR SHALL HAVE THE RIGHT TO REQUEST ADDITIONAL RANDOM TESTS AS HE/SHE DEEMS
- (B) PLEASE REFER TO THE GENERAL NOTES SHEETS, GN-01 GN 04, FOR TESTING REQUIREMENTS FOR WATER, WASTEWATER, STORM DRAIN AND PAVEMENT CONSTRUCTION.
- C) THE CONTRACTOR WILL PROVIDE BACKFILL, DENSITY AND CONCRETE TESTING FOR ALL PROJECTS UNLESS SPECIFIED OTHERWISE. ALL REPORTS SHALL BE TURNED INTO THE INSPECTOR WITHIN FIVE (5) WORKING DAYS.

### MATERIAL: ALL MATERIAL INCORPORATED IN THE CONSTRUCTION SHALL BE NEW.

### PRIVATE DEVELOPMENT PROJECTS:

NECESSARY.

- THE DEVELOPER/OWNER SHALL PROVIDE TESTING FOR ALL PROJECT UNLESS SPECIFIED OTHERWISE. ALL REPORTS SHALL BE TURNED INTO THE INSPECTOR WITHIN FIVE (5) WORKING DAYS. THE DEVELOPER/OWNER SHALL PROVIDE GEOTECHNICAL TESTING PRIOR TO CONSTRUCTION COMMENCING
- TESTING PRIOR TO CONSTRUCTION COMMENCING. WELD CHAINS TO GRATES OR TACK WELD.

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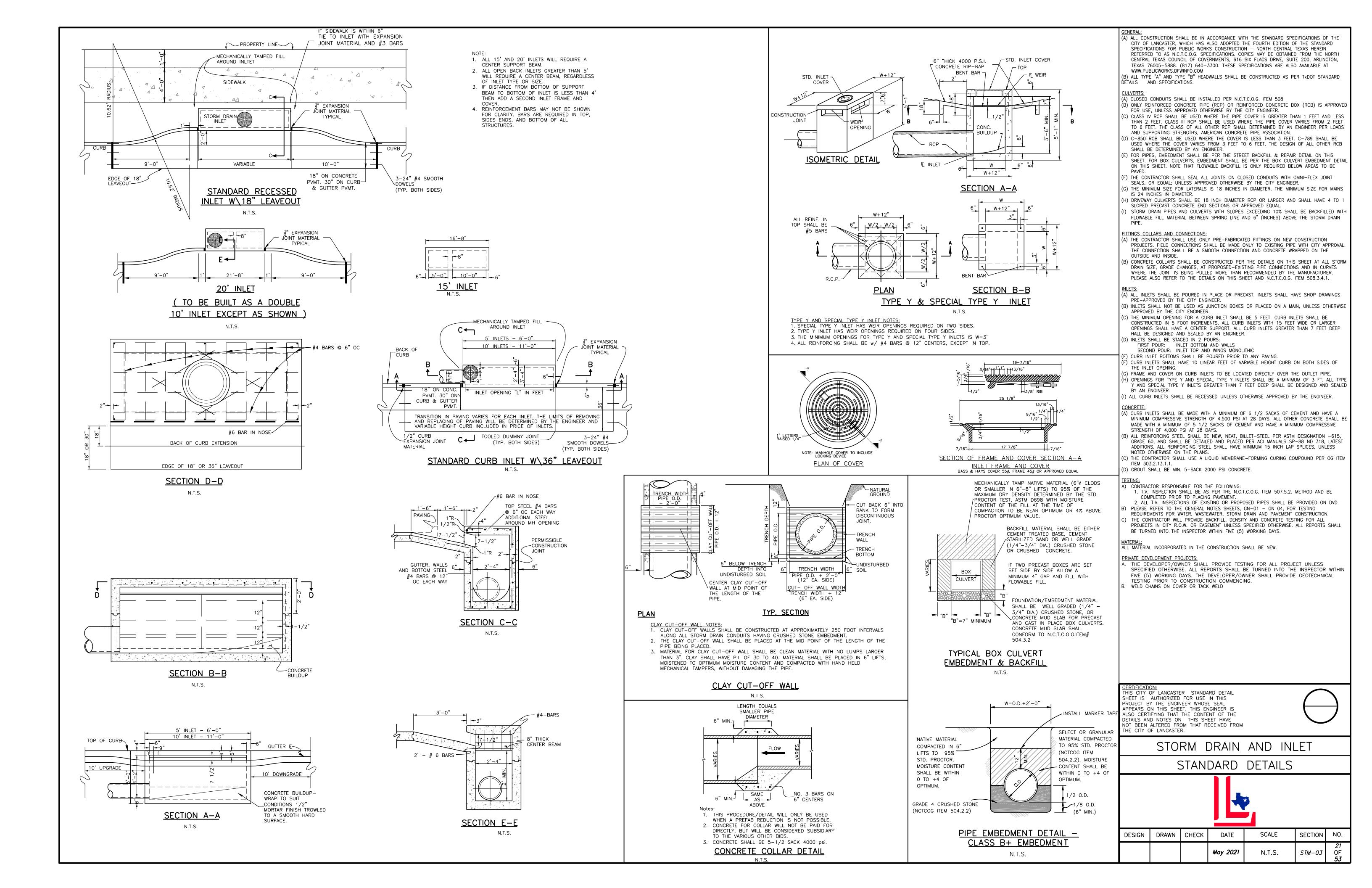
THE CITY OF LANCASTER.

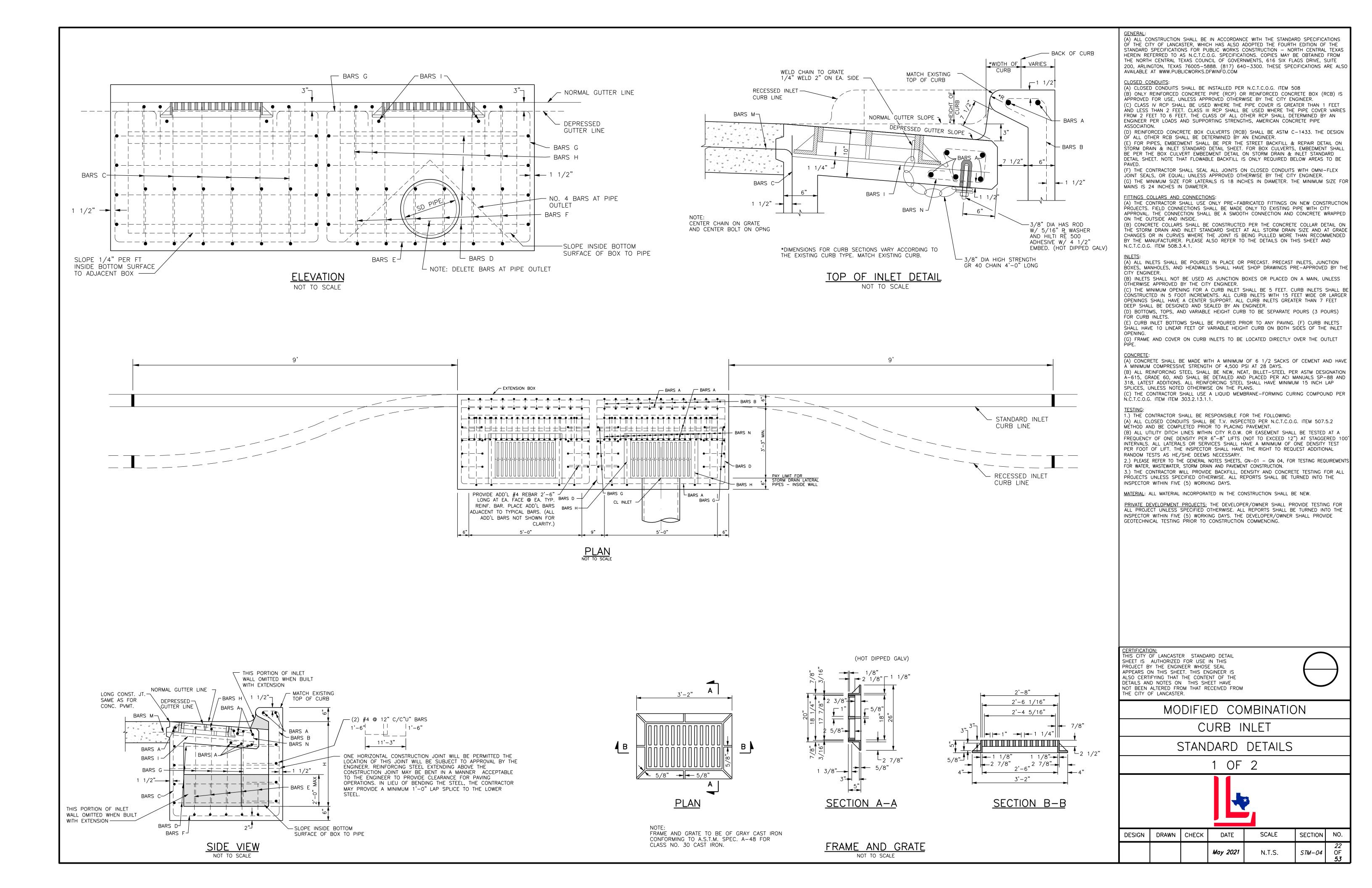


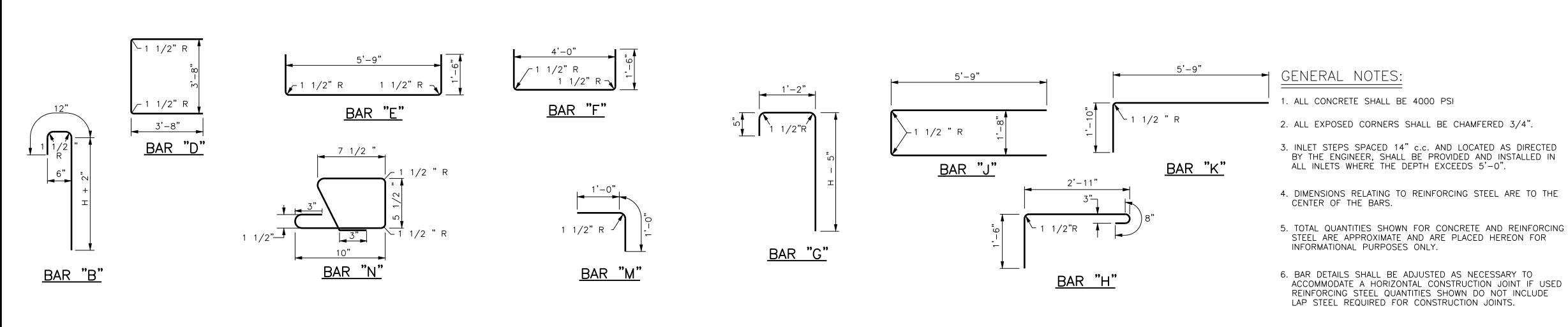
## GRATE INLETS



DESIGN	DRAWN	CHECK	DATE	SCALE	SECTION	NO.
			Moy 2021	N.T.S.	STM-02	20 OF 53







LIMITS OF DEPRESSED

GUTTER SLOPE

CONST. JT. SAME AS LONG CONSTR. JT. FOR CONC. PAVEMENT

(PAY LIMITS FOR CONC. PAVEMENT

LIMITS OF DEPRESSED

BACK OF CURB

GUTTER SLOPE

FACE OF CURB —

BACK OF INLET

PLAN OF INLET

BACK OF CURB —

CONST. JT. SAME AS LONG CONSTR. JT. FOR CONC. PAVEMENT

(PAY LIMITS FOR CONC. PAVEMENT

# REINFORCING STEEL AND CONCRETE FOR 5' INLET

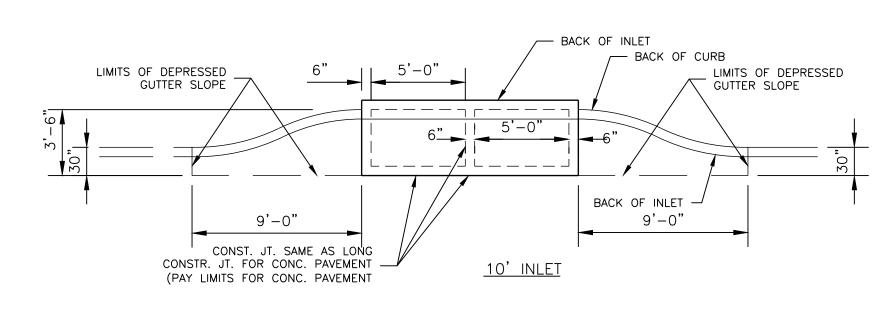
<u>10' INLET</u>

PLAN OF INLET AND EXTENSIONS

FACE OF CURB —

LIMITS OF DEPRESSED

GUTTER SLOPE



## PLAN OF RECESSED INLET AND EXTENSIONS

INLET SIZE																		STE	EL																	
HEIGHT WIDTH			BAF	₹ 'A'					BAF	? 'B'			BAR 'C'						BAR 'D'					BAR 'E'						BAR 'G'						
FT. FT.	No.	SIZE	Ту	SPACIN	G LENGTH	Wt.	No.	SIZE	Ту	SPACING	LENGTH	Wt.	No.	SIZE	Ту	SPACING	LENGTH	Wt.	No.	SIZE	Ту	SPACING	LENGTH	Wt.	No.	SIZE	Ту	SPACING	LENGTH	Wt.	No.	SIZE	Ту	SPACING	LENGTH	Wt.
2.5 3.0	8	6	ST	AS SHO	VN 5'-9"	69	11	4	ST	6" cc	3'-8"	27	6	4	ST	10" cc	2'-4"	9	2	4	ST	12" cc	11'-0"	28	5	4	ST	7" cc	8'-9"	29	10	4	ST	6" cc	6'-9"	27
3.0 3.0	8	6	ST	AS SHO	VN 5'-9"	69	11	4	ST	6" cc	4'-2"	31	6	4	ST	10" cc	3'-0"	11	4	4	ST	12" cc	11'-0"	42	5	4	ST	7" cc	8'-9"	29	10	4	ST	6" cc	6'-9"	27
3.5 3.0	8	6	ST	AS SHO	VN 5'-9"	69	11	4	ST	6" cc	4'-8"	34	6	4	ST	10" cc	3'-4"	13	6	4	ST	12" cc	11'-0"	42	5	4	ST	7" cc	8'-9"	29	10	4	ST	6" cc	6'-9"	27
4.0 3.0	8	6	ST	AS SHO	VN 5'-9"	69	11	4	ST	6" cc	5'-2"	38	6	4	ST	10" cc	3'-10"	15	8	4	ST	12" cc	11'-0"	56	5	4	ST	7" cc	8'-9"	29	10	4	ST	6" cc	6'-9"	27
4.5 3.0	8	6	ST	AS SHO	VN 5'-9"	69	11	4	ST	6" cc	5'-8"	42	6	4	ST	10" cc	4'-4"	17	8	4	ST	12" cc	11'-0"	56	5	4	ST	7" cc	8'-9"	29	10	4	ST	6" cc	6'-9"	27
5.0 3.0	8	6	ST	AS SHO	VN 5'-9"	69	11	4	ST	6" cc	6'-2"	45	6	4	ST	10" cc	4'-10"	19	10	4	ST	12" cc	11'-0"	70	5	4	ST	7" cc	8'-9"	29	10	4	ST	6" cc	6'-9"	27
5.5 3.0	8	6	ST	AS SHO	VN 5'-9"	69	11	4	ST	6" cc	6'-8"	49	6	4	ST	10" cc	5'-4"	21	10	4	ST	12" cc	11'-0"	70	5	4	ST	7" cc	8'-9"	29	10	4	ST	6" cc	6'-9"	27
6.0 3.0	8	6	ST	AS SHO	VN 5'-9"	69	11	4	ST	6" cc	7'-2"	53	6	4	ST	10" cc	5'-10"	23	12	4	ST	12" cc	11'-0"	84	5	4	ST	7" cc	8'-9"	29	10	4	ST	6" cc	6'-9"	27
7.0 3.0	8	6	ST	AS SHO	VN 5'-9"	69	11	4	ST	6" cc	8'-2"	60	6	4	ST	10" cc	6'-10"	27	14	4	ST	12" cc	11'-0"	99	5	4	ST	7" cc	8'-9"	29	10	4	ST	6" cc	6'-9"	27
8.0 3.0	8	6	ST	AS SHO	VN 5'-9"	69	11	4	ST	6" cc	9'-2"	67	6	4	ST	10" cc	7'-10"	31	16	4	ST	12" cc	11'-0"	112	5	4	ST	7" cc	8'-9"	29	10	4	ST	6" cc	6'-9"	27
9.0 3.0	8	6	ST	AS SHO	VN 5'-9"	69	11	4	ST	6" cc	10'-2"	75	6	4	ST	10" cc	8'-10"	35	18	4	ST	12" cc	11'-0"	120	5	4	ST	7" cc	8'-9"	29	10	4	ST	6" cc	6'-9"	27
10.0 3.0	8	6	ST	AS SHO	VN 5'-9"	69	11	4	ST	6" cc	11'-2"	82	6	4	ST	10" cc	9'-10"	39	20	4	ST	12" cc	11'-0"	140	5	4	ST	7" cc	8'-9"	29	10	4	ST	6" cc	6'-9"	27

INLET	SIZE												ST	EEL												TOTA	ALS
HEIGHT	WIDTH			ВА	R 'H'					BA	AR 'I'					BAF	R'M'					BAF	₹ 'N'			STEEL	CONC.
FT.	FT.	No.	SIZE	Ту	SPACING	LENGTH	Wt.	No.	SIZE	Ту	SPACING	LENGTH	Wt.	No.	SIZE	Ту	SPACING	LENGTH	Wt.	No.	SIZE	Ту	SPACING	LENGTH	Wt.	Lbs.	CY
2.5	3.0	4	4	ST	AS SHOWN	5'-9"	13	2	4	ST	AS SHOWN	2'-9"	4	7	4	ST	24" cc	2'-0"	9	21	4	ST	3" cc	2'-7"	36	271	163
3.0	3.0	4	4	ST	AS SHOWN	5'-9"	13	2	4	ST	AS SHOWN	2'-9"	4	7	4	ST	24" cc	2'-0"	9	21	4	ST	3" cc	2'-7"	36	271	163
3.5	3.0	4	4	ST	AS SHOWN	5'-9"	13	2	4	ST	AS SHOWN	2'-9"	4	7	4	ST	24" cc	2'-0"	9	21	4	ST	3" cc	2'-7"	36	271	163
4.0	3.0	4	4	ST	AS SHOWN	5'-9"	13	2	4	ST	AS SHOWN	2'-9"	4	7	4	ST	24" cc	2'-0"	9	21	4	ST	3" cc	2'-7"	36	271	163
4.5	3.0	4	4	ST	AS SHOWN	5'-9"	13	2	4	ST	AS SHOWN	2'-9"	4	7	4	ST	24" cc	2'-0"	9	21	4	ST	3" cc	2'-7"	36	271	163
5.0	3.0	4	4	ST	AS SHOWN	5'-9"	13	2	4	ST	AS SHOWN	2'-9"	4	7	4	ST	24" cc	2'-0"	9	21	4	ST	3" cc	2'-7"	36	271	163
5.5	3.0	4	4	ST	AS SHOWN	5'-9"	13	2	4	ST	AS SHOWN	2'-9"	4	7	4	ST	24" cc	2'-0"	9	21	4	ST	3" cc	2'-7"	36	271	163
6.0	3.0	4	4	ST	AS SHOWN	5'-9"	13	2	4	ST	AS SHOWN	2'-9"	4	7	4	ST	24" cc	2'-0"	9	21	4	ST	3" cc	2'-7"	36	271	163
7.0	3.0	4	4	ST	AS SHOWN	5'-9"	13	2	4	ST	AS SHOWN	2'-9"	4	7	4	ST	24" cc	2'-0"	9	21	4	ST	3" cc	2'-7"	36	271	163
8.0	3.0	4	4	ST	AS SHOWN	5'-9"	13	2	4	ST	AS SHOWN	2'-9"	4	7	4	ST	24" cc	2'-0"	9	21	4	ST	3" cc	2'-7"	36	271	163
9.0	3.0	4	4	ST	AS SHOWN	5'-9"	13	2	4	ST	AS SHOWN		4	7	4	ST	24" cc	2'-0"	9	21	4	ST	3" cc	2'-7"	36	271	163
10.0	3.0	4	4	ST	AS SHOWN	5'-9"	13	2	4	ST	AS SHOWN	2'-9"	4	7	4	ST	24" cc	2'-0"	9	21	4	ST	3" cc	2'-7"	36	271	163

## REINFORCING STEEL AND CONCRETE FOR 5' INLET TABLE

BAR	No.	SIZE	Ту	SPACING	LENGTH	Wt.
Α	6	6	ST	AS SHOWN	5'-9"	23
J	1	4	ST	AS SHOWN	13'-2"	9
K	1	4	ST	AS SHOWN	7'-7"	5
L	10	4	ST	6" cc	7'-3" TO 7'-9"	50
М	4	4	ST	24" cc	2'-0"	5
		·	·			·

. ALL CONCRETE SHALL BE 4000 PSI

CENTER OF THE BARS.

INFORMATIONAL PURPOSES ONLY.

BY THE ENGINEER, SHALL BE PROVIDED AND INSTALLED IN

STEEL ARE APPROXIMATE AND ARE PLACED HEREON FOR

ACCOMMODATE A HORIZONTAL CONSTRUCTION JOINT IF USED

REINFORCING STEEL QUANTITIES SHOWN DO NOT INCLUDE

ALL INLETS WHERE THE DEPTH EXCEEDS 5'-0".

# REINFORCING STEEL AND CONCRETE FOR ONE 5' EXT. TABLE

15" 0.04 24" 0.09 27" 0.11 30" 0.14

## CONCRETE TO BE DEDUCTED FOR PIPES (ONE PIPE)

(A) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE CITY OF LANCASTER, WHICH HAS ALSO ADOPTED THE FOURTH EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - NORTH CENTRAL TEXAS HEREIN REFERRED TO AS N.C.T.C.O.G. SPECIFICATIONS. COPIES MAY BE OBTAINED FROM THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, 616 SIX FLAGS DRIVE, SUITE 200, ARLINGTON, TEXAS 76005-5888. (817) 640-3300. THESE SPECIFICATIONS ARE ALSO AVAILABLE AT WWW.PUBLICWORKS.DFWINFO.COM

(A) CLOSED CONDUITS SHALL BE INSTALLED PER N.C.T.C.O.G. ITEM 508 (B) ONLY REINFORCED CONCRETE PIPE (RCP) OR REINFORCED CONCRETE BOX (RCB) IS APPROVED FOR USE, UNLESS APPROVED OTHERWISE BY THE CITY ENGINEER. (C) CLASS IV RCP SHALL BE USED WHERE THE PIPE COVER IS GREATER THAN 1 FEET AND LESS THAN 2 FEET. CLASS III RCP SHALL BE USED WHERE THE PIPE COVER VARIES FROM 2 FEET TO 6 FEET. THE CLASS OF ALL OTHER RCP SHALL DETERMINED BY AN

(D) REINFORCED CONCRETE BOX CULVERTS (RCB) SHALL BE ASTM C-1433. THE DESIGN OF ALL OTHER RCB SHALL BE DETERMINED BY AN ENGINEER. (E) FOR PIPES, EMBEDMENT SHALL BE PER THE STREET BACKFILL & REPAIR DETAIL ON STORM DRAIN & INLET STANDARD DETAIL SHEET. FOR BOX CULVERTS, EMBEDMENT SHALL BE PER THE BOX CULVERT EMBEDMENT DETAIL ON STORM DRAIN & INLET STANDARD DETAIL SHEET. NOTE THAT FLOWABLE BACKFILL IS ONLY REQUIRED BELOW AREAS TO BE

ENGINEER PER LOADS AND SUPPORTING STRENGTHS, AMERICAN CONCRETE PIPE

(F) THE CONTRACTOR SHALL SEAL ALL JOINTS ON CLOSED CONDUITS WITH OMNI-FLEX JOINT SEALS, OR EQUAL; UNLESS APPROVED OTHERWISE BY THE CITY ENGINEER. (G) THE MINIMUM SIZE FOR LATERALS IS 18 INCHES IN DIAMETER. THE MINIMUM SIZE FOF MAINS IS 24 INCHES IN DIAMETER.

#### FITTINGS COLLARS AND CONNECTIONS:

(A) THE CONTRACTOR SHALL USE ONLY PRE-FABRICATED FITTINGS ON NEW CONSTRUCTION PROJECTS. FIELD CONNECTIONS SHALL BE MADE ONLY TO EXISTING PIPE WITH CITY APPROVAL. THE CONNECTION SHALL BE A SMOOTH CONNECTION AND CONCRETE WRAPPED ON THE OUTSIDE AND INSIDE.

(B) CONCRETE COLLARS SHALL BE CONSTRUCTED PER THE CONCRETE COLLAR DETAIL ON THE STORM DRAIN AND INLET STANDARD SHEET AT ALL STORM DRAIN SIZE AND AT GRADE CHANGES OR IN CURVES WHERE THE JOINT IS BEING PULLED MORE THAN RECOMMENDED BY THE MANUFACTURER. PLEASE ALSO REFER TO THE DETAILS ON THIS SHEET AND N.C.T.C.O.G. ITEM 508.3.4.1.

(A) ALL INLETS SHALL BE POURED IN PLACE. PRECAST INLETS, JUNCTION BOXES, MANHOLES, AND HEADWALLS SHALL HAVE SHOP DRAWINGS PRE-APPROVED BY THE CITY

(B) INLETS SHALL NOT BE USED AS JUNCTION BOXES OR PLACED ON A MAIN, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. (C) THE MINIMUM OPENING FOR A CURB INLET SHALL BE 5 FEET. CURB INLETS SHALL E CONSTRUCTED IN 5 FOOT INCREMENTS. ALL CURB INLETS WITH 15 FEET WIDE OR LARGER OPENINGS SHALL HAVE A CENTER SUPPORT. ALL CURB INLETS GREATER THAN 7 FEET

DEEP SHALL BE DESIGNED AND SEALED BY AN ENGINEER. (D) BOTTOMS, TOPS, AND VARIABLE HEIGHT CURB TO BE SEPARATE POURS (3 POURS) FOR CURB INLETS. (E) CURB INLET BOTTOMS SHALL BE POURED PRIOR TO ANY PAVING. (F) CURB INLETS

SHALL HAVE 10 LINEAR FEET OF VARIABLE HEIGHT CURB ON BOTH SIDES OF THE INLET (G) FRAME AND COVER ON CURB INLETS TO BE LOCATED DIRECTLY OVER THE OUTLET PIPE.

(A) CONCRETE SHALL BE MADE WITH A MINIMUM OF 6 1/2 SACKS OF CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS. (B) ALL REINFORCING STEEL SHALL BE NEW, NEAT, BILLET-STEEL PER ASTM DESIGNATION À-615, GRADE 60, AND SHALL BE DETAILED AND PLACED PER ACI MANUALS SP-88 AND

318. LATEST ADDITIONS. ALL REINFORCING STEEL SHALL HAVE MINIMUM 15 INCH LAP SPLICES, UNLESS NOTED OTHERWISE ON THE PLANS. (C) THE CONTRACTOR SHALL USE A LIQUID MEMBRANE-FORMING CURING COMPOUND PER N.Ć.T.C.O.G. ITEM ITEM 303.2.13.1.1.

1.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING: (A) ALL CLOSED CONDUITS SHALL BE T.V. INSPECTED PER N.C.T.C.O.G. ITEM 507.5.2

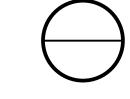
METHOD AND BE COMPLETED PRIOR TO PLACING PAVEMENT. (B) ALL UTILITY DITCH LINES WITHIN CITY R.O.W. OR EASEMENT SHALL BE TESTED AT A FREQUENCY OF ONE DENSITY PER 6"-8" LIFTS (NOT TO EXCEED 12") AT STAGGERED 100 INTERVALS. ALL LATERALS OR SERVICES SHALL HAVE A MINIMUM OF ONE DENSITY TEST PER FOOT OF LIFT. THE INSPECTOR SHALL HAVE THE RIGHT TO REQUEST ADDITIONAL RANDOM TESTS AS HE/SHE DEEMS NECESSARY.

2.) PLEASE REFER TO THE GENERAL NOTES SHEETS, GN-01 - GN 04, FOR TESTING REQUIREMENT FOR WATER, WASTEWATER, STORM DRAIN AND PAVEMENT CONSTRUCTION. 3.) THE CONTRACTOR WILL PROVIDE BACKFILL, DENSITY AND CONCRETE TESTING FOR ALL PROJECTS UNLESS SPECIFIED OTHERWISE. ALL REPORTS SHALL BE TURNED INTO THE INSPECTOR WITHIN FIVE (5) WORKING DAYS.

### MATERIAL: ALL MATERIAL INCORPORATED IN THE CONSTRUCTION SHALL BE NEW.

PRIVATE DEVELOPMENT PROJECTS: THE DEVELOPER/OWNER SHALL PROVIDE TESTING FOR ALL PROJECT UNLESS SPECIFIED OTHERWISE. ALL REPORTS SHALL BE TURNED INTO THE INSPECTOR WITHIN FIVE (5) WORKING DAYS. THE DEVELOPER/OWNER SHALL PROVIDE GEOTECHNICAL TESTING PRIOR TO CONSTRUCTION COMMENCING.

CERTIFICATION:
THIS CITY OF LANCASTER STANDARD DETAIL SHEET IS AUTHORIZED FOR USE IN THIS PROJECT BY THE ENGINEER WHOSE SEAL APPEARS ON THIS SHEET. THIS ENGINEER IS ALSO CERTIFYING THAT THE CONTENT OF THE DETAILS AND NOTES ON THIS SHEET HAVE NOT BEEN ALTERED FROM THAT RECEIVED FROM THE CITY OF LANCASTER.

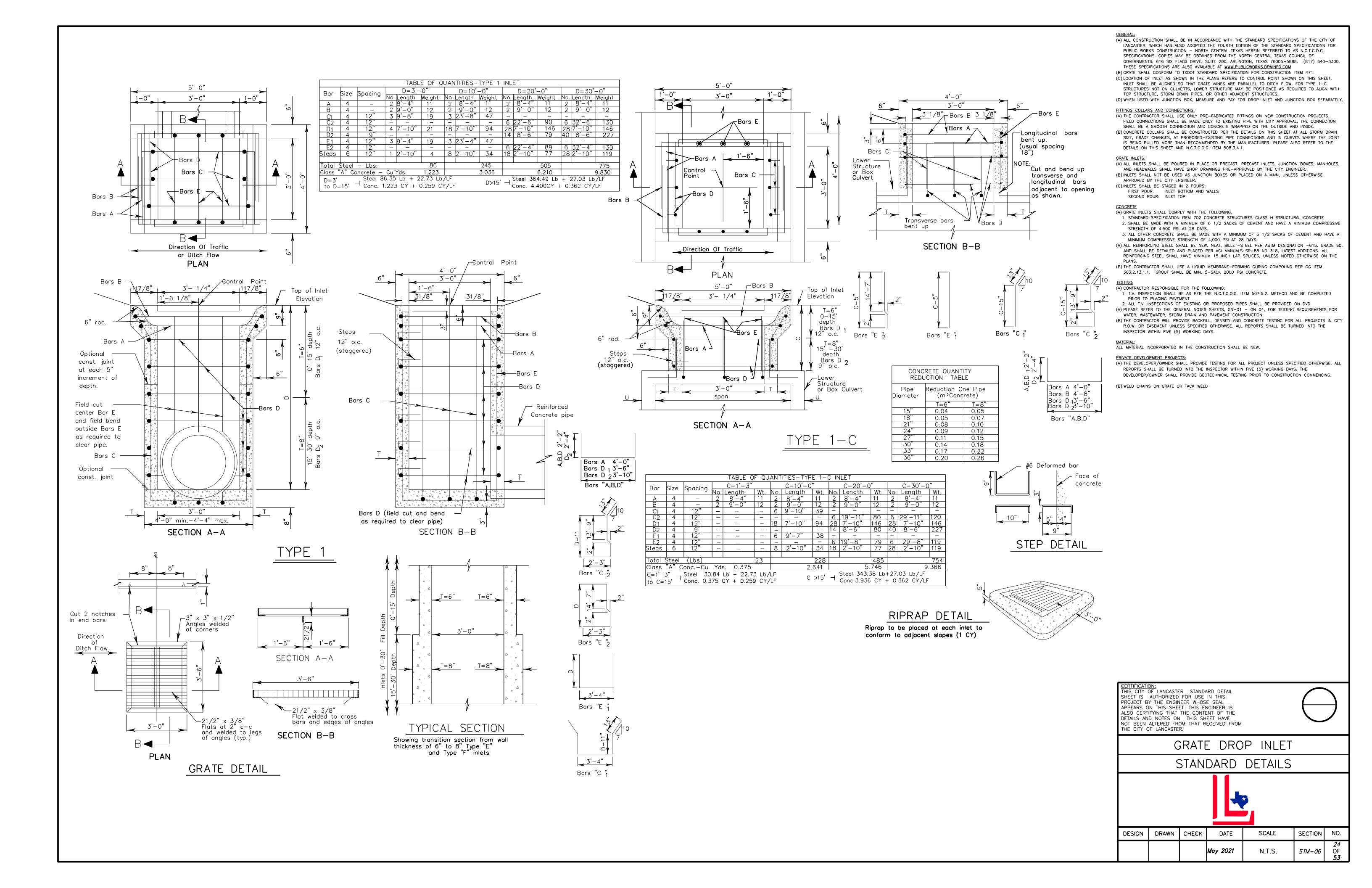


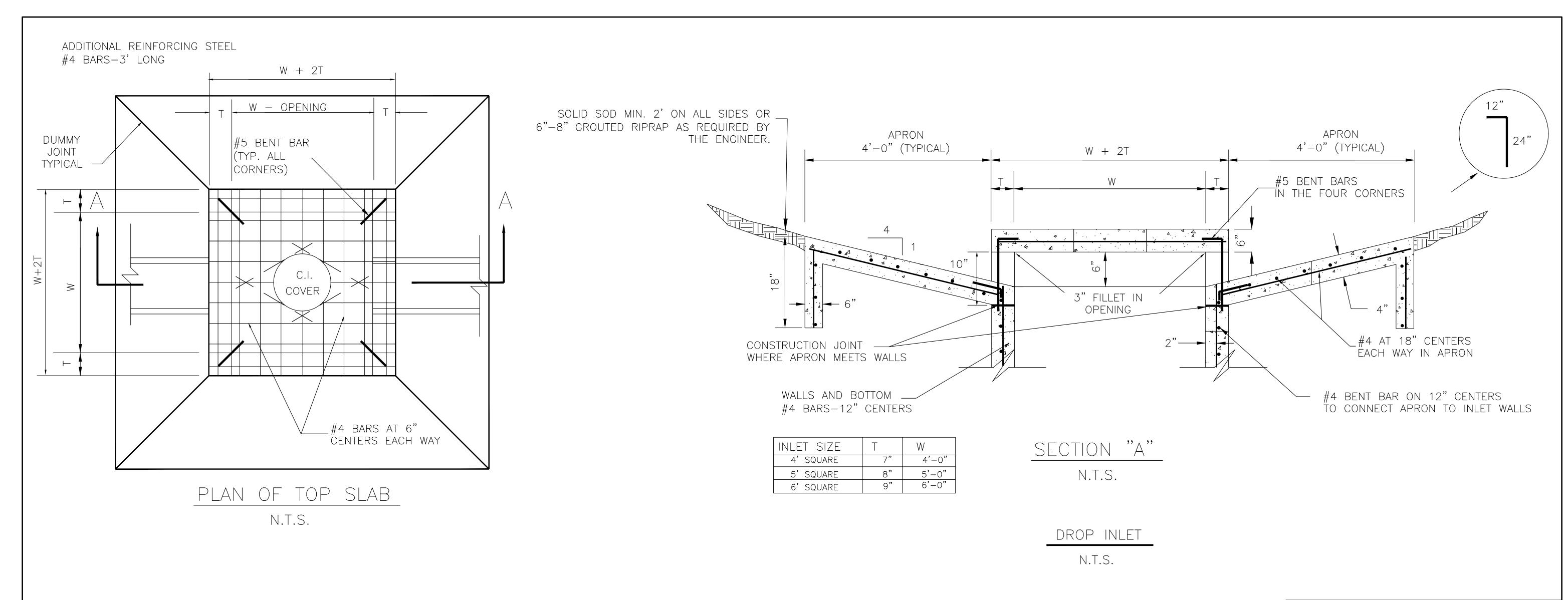
## MODIFIED COMBINATION

CURB INLET



ESIGN	DRAWN	CHECK	DATE	SCALE	SECTION	NO.
			May 2021	N.T.S.	STM-05	23 OF 53





# INLET FRAME & COVER NOTES:

- 1. THE STD. INLET COVER SHALL BE BASS & HAYES FRAME & COVER PATTERN No. 226 OR APPROVED EQUAL.
- 2. APPROXIMATE WEIGHT OF FRAME=75 lbs. AND COVER=155 lbs.
- 3. TACK WELD COVER IN 4 SPOTS AFTER FINAL INSPECTION

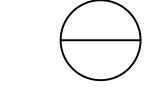
### GENERAL NOTES:

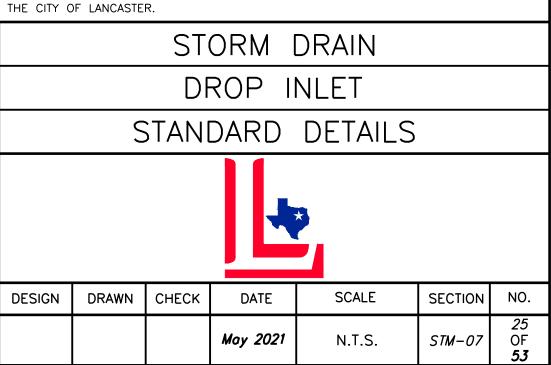
REINFORCING STEEL SHALL BE #4 BARS ON 12" CENTERS EACH WAY FOR BOTTOM SLAB AND WALLS, AND #4 BARS ON 6" CENTERS EACH WAY FOR TOP SLAB. ADDITIONAL REINFORCING STEEL SHALL BE PLACED AROUND MANHOLES AS SHOWN.

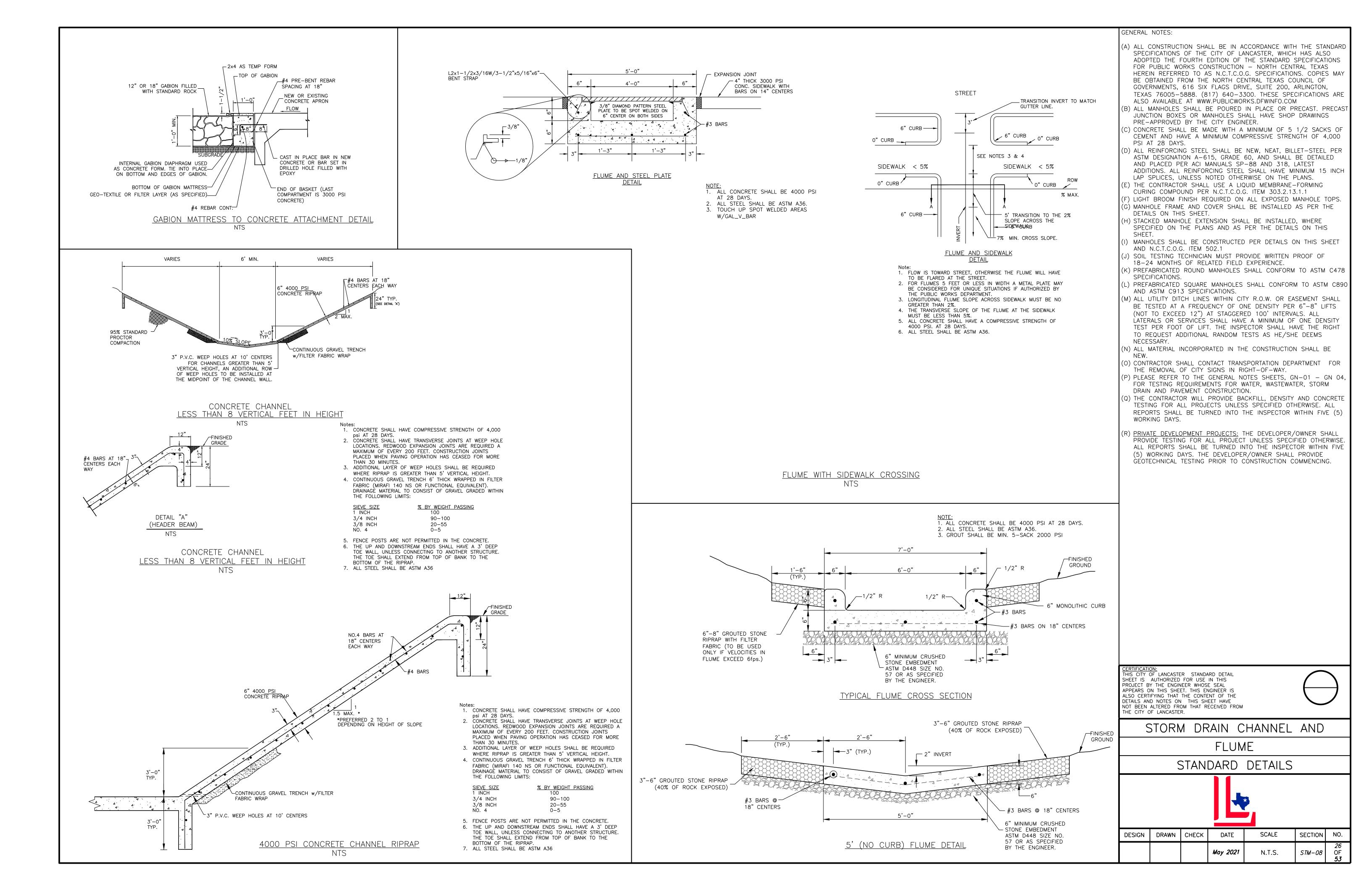
- 1. ALL REINFORCING STEEL SHALL BE GRADE 60.
- 2. ALL CONCRETE SHALL BE CLASS "A" 4000 PSI AT 28 DAYS. 5 1/2 SACK MINIMUM.
- 3. ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4"
  4. ALL REINFORCING STEEL SHALL HAVE A MINIMUM COVER
- OF 2" ON INSIDE FACE WALL.

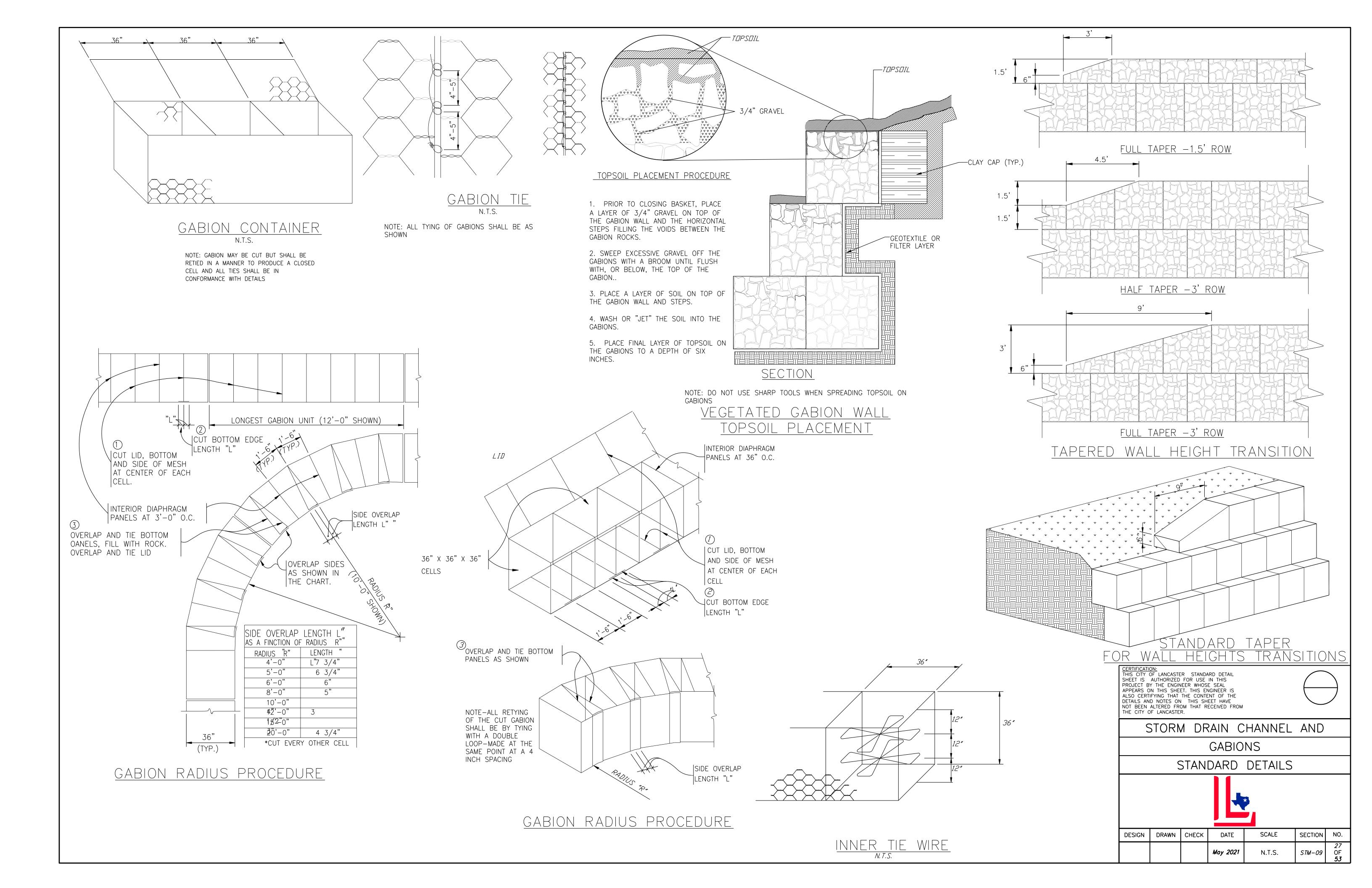
  5. ALL BACKFILLING SHALL BE PERFORMED BY MECHANICAL TAMPING TO 95% STANDARD PROCTOR DENSITY.
- 6. ALL DROP INLETS SHALL HAVE ONE OPENING ON EACH SIDE UNLESS OTHERWISE SHOWN ON PLANS.
- 7. PROVIDE LIGHT BROOM FINISH ON ALL SURFACES.

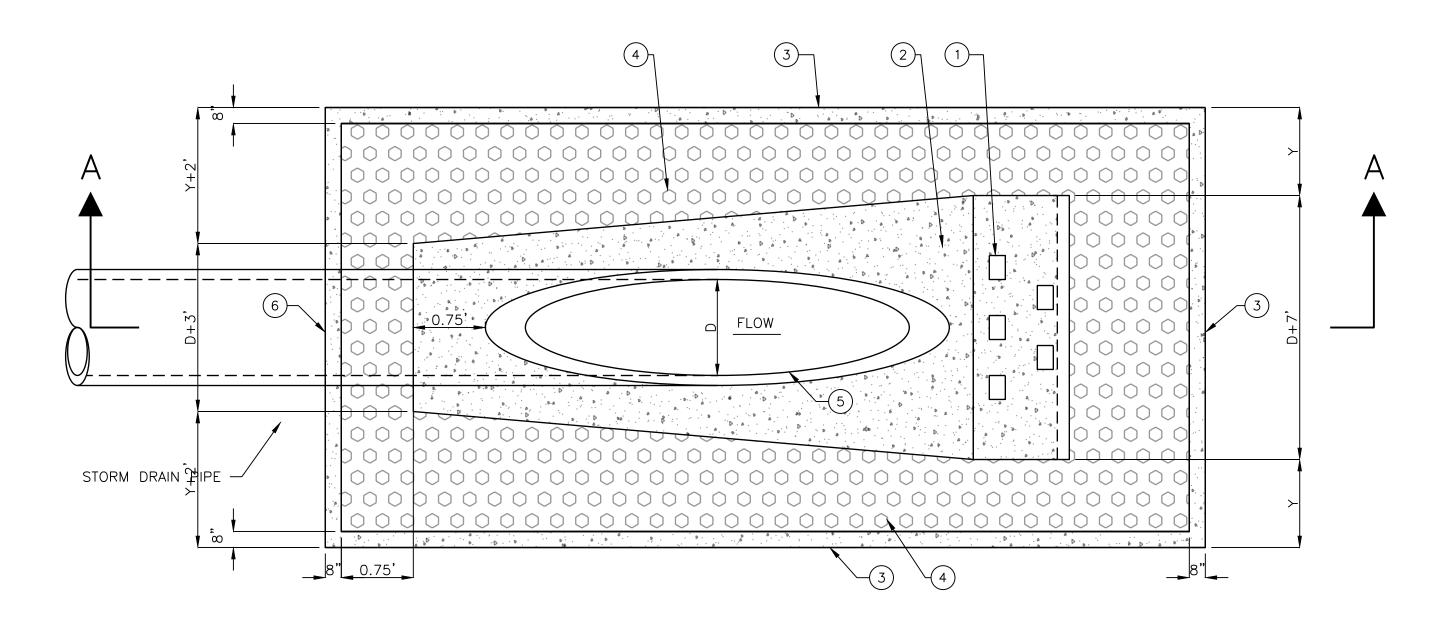
CERTIFICATION:
THIS CITY OF LANCASTER STANDARD DETAIL
SHEET IS AUTHORIZED FOR USE IN THIS
PROJECT BY THE ENGINEER WHOSE SEAL
APPEARS ON THIS SHEET. THIS ENGINEER IS
ALSO CERTIFYING THAT THE CONTENT OF THE
DETAILS AND NOTES ON THIS SHEET HAVE
NOT BEEN ALTERED FROM THAT RECEIVED FROM

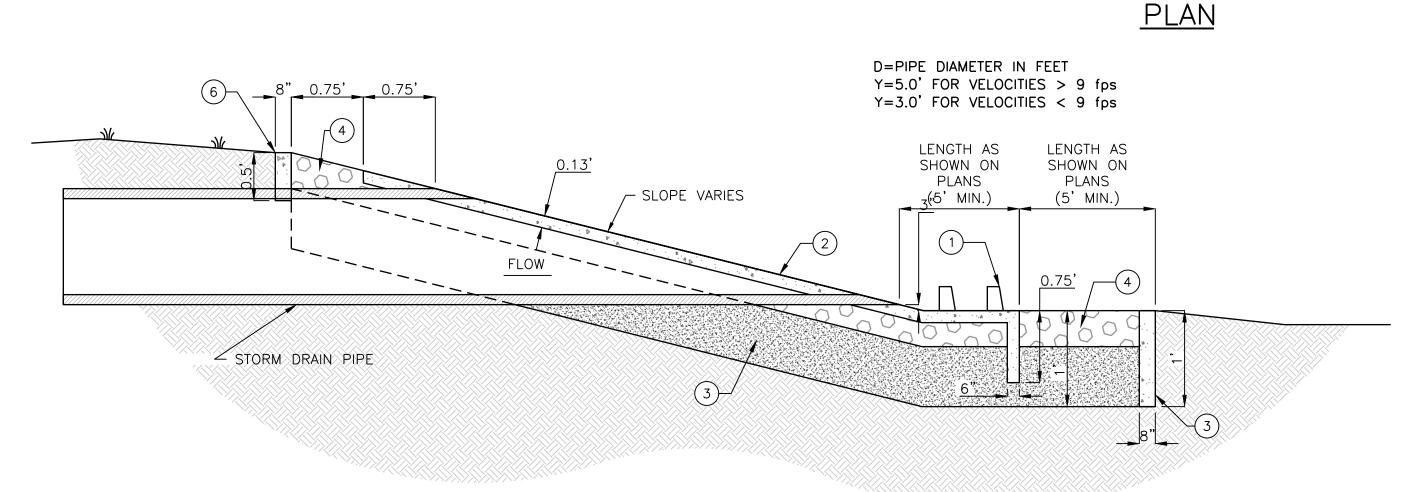




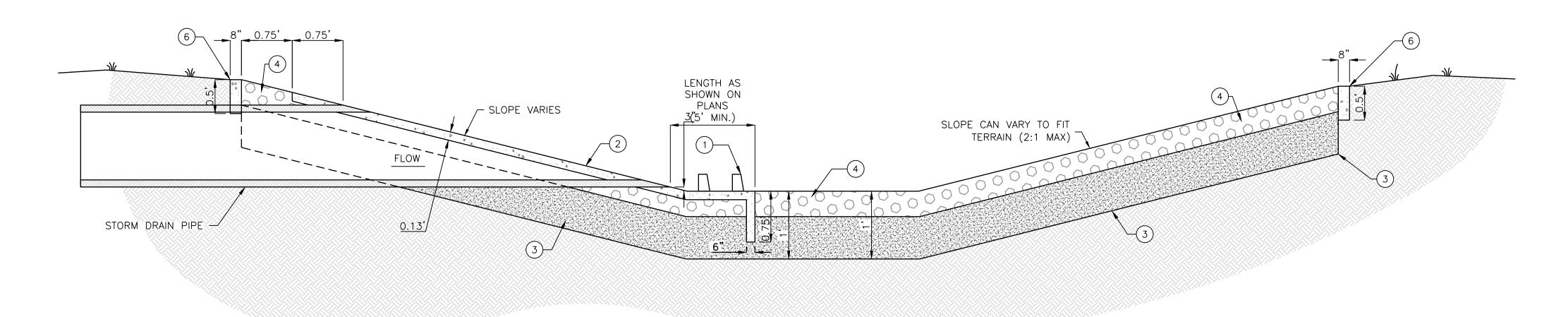








SECTION A-A (WITHOUT CREEK BANKS)



SECTION A-A (WITH CREEK BANKS)

BAFFLES REQUIIRED FOR VELOCITY > 6 fps. SPECIALLY DESIGNED ENERGY DISSIPATION STRUCTURE REQUIRED IF VELOCITIES EXCEED 12 fps. DESIGN PER HEC-14 "HYDRAULIC DESIGN OF ENERGY DISSIPATERS FOR CULVERTS AND CHANNELS" 6" THICK REINFORCED CONCRETE CHANNEL LINING. SEE STANDARD DETAIL STORM DRAIN CHANNEL AND FLUME FOR DETAILS 8" WIDE, 4' DEEP REINFORCED CONCRETE TOE WALL (REQUIRED ALONG ALL GROUTED RIPRAP EDGES EXCEPT WHERE NOTED OTHERWISE.) 12"-18" GROUTED STONE RIPRAP ON FILTER FABRIC (40% OF ROCKEXPOSED). 10" MIN. STONE GRADATION PERMITTED WHEN DETAILED DESIGN PROVIDED BY ENGINEER OF RECORD MAX. 48" DIA. RCP. FOR PIPES LARGER THAN 48" DIA. USE TXDOT FLARED WING WALLS WITH A 4:1 SLOPE.

TOP OF SLOPE APPLICATIONS

8" WIDE, 2' DEEP REINFORCED CONCRETE TOE WALL FOR

#### <u>GENERAL</u>

- (A) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE CITY OF LANCASTER, WHICH HAS ALSO ADOPTED THE FOURTH EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION NORTH CENTRAL TEXAS HEREIN REFERRED TO AS N.C.T.C.O.G. SPECIFICATIONS. COPIES MAY BE OBTAINED FROM THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, 616 SIX FLAGS DRIVE, SUITE 200, ARLINGTON, TEXAS 76005-5888. (817) 640-3300. THESE SPECIFICATIONS ARE ALSO AVAILABLE AT WWW.PUBLICWORKS.DFWINFO.COM
- (B) ALL CONCRETE HEADWALLS WITH FLARED WING WALLS SHALL BE CONSTRUCTED AS PER TXDOT STANDARD DETAILS AND SPECIFICATIONS WITH A 4:1 SLOPE.

#### **CULVERTS:**

(A) CLOSED CONDUITS SHALL BE INSTALLED PER N.C.T.C.O.G. ITEM 508
(B) ONLY REINFORCED CONCRETE PIPE (RCP) OR REINFORCED CONCRETE BOX (RCB) IS APPROVED

- FOR USE, UNLESS APPROVED OTHERWISE BY THE CITY ENGINEER.

  (C) CLASS IV RCP SHALL BE USED WHERE THE PIPE COVER IS GREATER THAN 1 FEET AND LESS THAN 2 FEET. CLASS III RCP SHALL BE USED WHERE THE PIPE COVER VARIES FROM 2 FEET
- TO 6 FEET. THE CLASS OF ALL OTHER RCP SHALL DETERMINED BY AN ENGINEER PER LOADS AND SUPPORTING STRENGTHS, AMERICAN CONCRETE PIPE ASSOCIATION.

  (D) C-850 RCB SHALL BE USED WHERE THE COVER IS LESS THAN 3 FEET. C-789 SHALL BE USED WHERE THE COVER VARIES FROM 3 FEET TO 6 FEET. THE DESIGN OF ALL OTHER RCB
- SHALL BE DETERMINED BY AN ENGINEER.

  (E) FOR PIPES, EMBEDMENT SHALL BE PER THE STREET BACKFILL & REPAIR DETAIL.

  (E) THE CONTRACTOR SHALL SEAL ALL JOINTS ON CLOSED CONDUITS WITH OMNIL FLEX JOINTS
- (F) THE CONTRACTOR SHALL SEAL ALL JOINTS ON CLOSED CONDUITS WITH OMNI-FLEX JOINT SEALS, OR EQUAL; UNLESS APPROVED OTHERWISE BY THE CITY ENGINEER.
- (G) THE MINIMUM SIZE FOR LATERALS IS 18 INCHES IN DIAMETER. THE MINIMUM SIZE FOR MAINS IS 24 INCHES IN DIAMETER.
- (H) DRIVEWAY CULVERTS SHALL BE 18 INCH DIAMETER RCP OR LARGER AND SHALL HAVE 4 TO 1 SLOPED PRECAST CONCRETE END SECTIONS OR APPROVED FOLIAI
- SLOPED PRECAST CONCRETE END SECTIONS OR APPROVED EQUAL.

  (I) STORM DRAIN PIPES AND CULVERTS WITH SLOPES EXCEEDING 10% SHALL BE BACKFILLED WITH

FLOWABLE FILL MATERIAL BETWEEN SPRING LINE AND 6" (INCHES) ABOVE THE STORM DRAIN

CONCRETE:

(A) CONCRETE LINING SHALL BE MADE WITH A MINIMUM OF 5 1/2 SACKS OF CEMENT AND HAVE

ADDITIONS. ALL REINFORCING STEEL SHALL HAVE MINIMUM 15 INCH LAP SPLICES, UNLESS

- A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.

  (B) ALL REINFORCING STEEL SHALL BE NEW, NEAT, BILLET-STEEL PER ASTM DESIGNATION -615, GRADE 60, AND SHALL BE DETAILED AND PLACED PER ACI MANUALS SP-88 ND 318, LATEST
- NOTED OTHERWISE ON THE PLANS.

  (C) THE CONTRACTOR SHALL USE A WHITE LIQUID MEMBRANE-FORMING CURING COMPOUND PER
- OG ITEM ITEM 303.2.13.1.1.
  (D) GROUT SHALL BE MIN. 5-SACK 2000 PSI CONCRETE.

#### TESTING:

- A) CONTRACTOR RESPONSIBLE FOR THE FOLLOWING:
- T.V. INSPECTION SHALL BE AS PER THE N.C.T.C.O.G. ITEM 507.5.2. METHOD AND BE COMPLETED PRIOR TO PLACING PAVEMENT.
- 2. ALL T.V. INSPECTIONS OF EXISTING OR PROPOSED PIPES SHALL BE PROVIDED ON DVD.

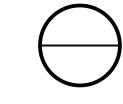
  B) PLEASE REFER TO THE GENERAL NOTES SHEETS, GN-01 GN 04, FOR TESTING REQUIREMENTS FOR WATER, WASTEWATER, STORM DRAIN AND PAVEMENT
- C) THE CONTRACTOR WILL PROVIDE BACKFILL, DENSITY AND CONCRETE TESTING FOR ALL PROJECTS IN CITY R.O.W. OR EASEMENT UNLESS SPECIFIED OTHERWISE. ALL REPORTS SHALL BE TURNED INTO THE INSPECTOR WITHIN FIVE (5) WORKING DAYS.

## MATERIAL: ALL MATERIAL INCORPORATED IN THE CONSTRUCTION SHALL BE NEW.

#### PRIVATE DEVELOPMENT PROJECTS:

A. THE DEVELOPER/OWNER SHALL PROVIDE TESTING FOR ALL PROJECT UNLESS SPECIFIED OTHERWISE. ALL REPORTS SHALL BE TURNED INTO THE INSPECTOR WITHIN FIVE (5) WORKING DAYS. THE DEVELOPER/OWNER SHALL PROVIDE GEOTECHNICAL TESTING PRIOR TO CONSTRUCTION COMMENCING.

CERTIFICATION:
THIS CITY OF LANCASTER STANDARD DETAIL
SHEET IS AUTHORIZED FOR USE IN THIS
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## STORM DRAIN OUTFALL WITH

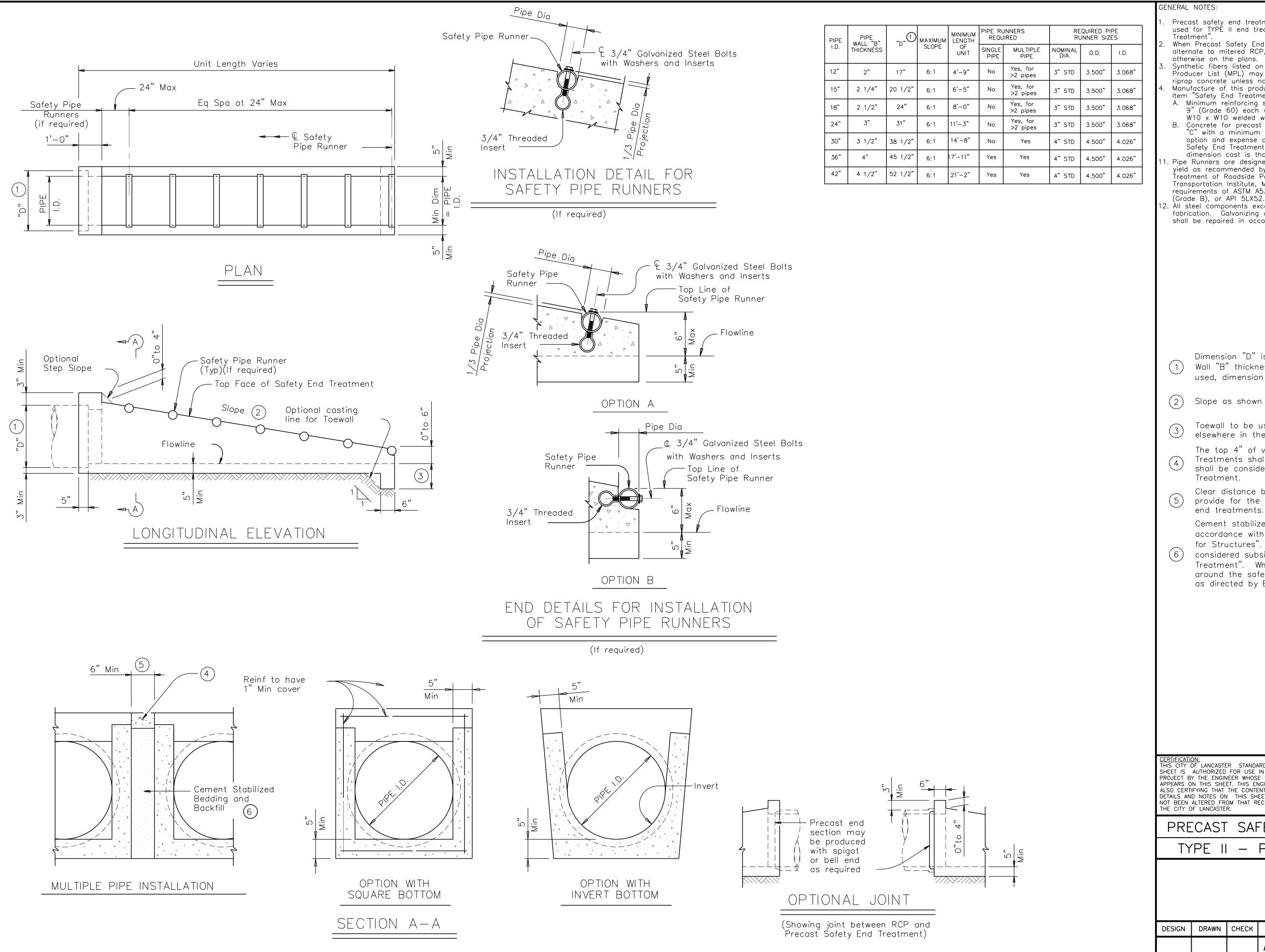
SLOPED HEADWALL

STANDARD DETAILS



DESIGN DRAWN CHECK DATE SCALE SECTION NO.

May 2021 N.T.S. STM-10 OF 53

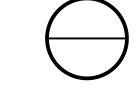


GENERAL NOTES:

- Precast safety end treatment for reinforced concrete pipe may be used for TYPÉ II end treatment as specified in Item "Safety Énd
- Treatment". When Precast Safety End Treatment is used as a Contractor's alternate to mitered RCP, Riprap will not be required unless noted
- Synthetic fibers listed on the "Fibers for Concrete" Material
- Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise.
- Manufacture of this product shall conform to requirements of Item "Safety End Treatment" except as noted below:
- A. Minimum reinforcing shall be #4 at 6" (Grade 40) or #4 at 9" (Grade 60) each way or 6 x 6 W12 x W12 or 5 x 5 W10 x W10 welded wire reinforcement (WWR). B. Concrete for precast (steel formed) sections shall be Class
- "C" with a minimum compressive strength of 3600 psi. At the option and expense of the Contractor the next larger size of Safety End Treatment may be furnished; as long as the "D" dimension cast is that of the required size of pipe.
- 11. Pipe Runners are designed for a traversing load of 10,000 Lbs at yield as recommended by Research Report 280-2F, "Safety Treatment of Roadside Parallel-Drainage Structures", Texas Transportation Institute, March Pipe Runners shall conform to the requirements of ASTM A53 (Type E or S, Grade B), ASTM A500
- All steel components except reinforcing, shall be galvanized after fabrication. Galvanizing damaged during transport or construction shall be repaired in accordance with the specifications.

- Dimension "D" is based on ASTM C-76, Class III, Wall "B" thickness. If any other wall thickness is used, dimension "D" must be adjusted accordingly.
- (2) Slope as shown elsewhere in the plans.
- Toewall to be used only when dimension is shown elsewhere in the plans.
- The top 4" of void between Precast End Treatments shall be filled with concrete Riprap and shall be considered subsidiary to Safety End Treatment.
- Clear distance between pipes shall be adjusted to provide for the minimum distance between safety end treatments.
  - Cement stabilized bedding and backfill shall be in accordance with the Item, "Excavation and Backfill for Structures". Bedding and backfill shall be
- considered subsidiary to the Item "Safety End Treatment". When concrete riprap is specified around the safety end treatment, backfill shall be as directed by Engineer.

<u>CERTIFICATION:</u> THIS CITY OF LANCASTER STANDARD DETAIL SHEET IS AUTHORIZED FOR USE IN THIS PROJECT BY THE ENGINEER WHOSE IN THIS
PROJECT BY THE ENGINEER WHOSE SEAL
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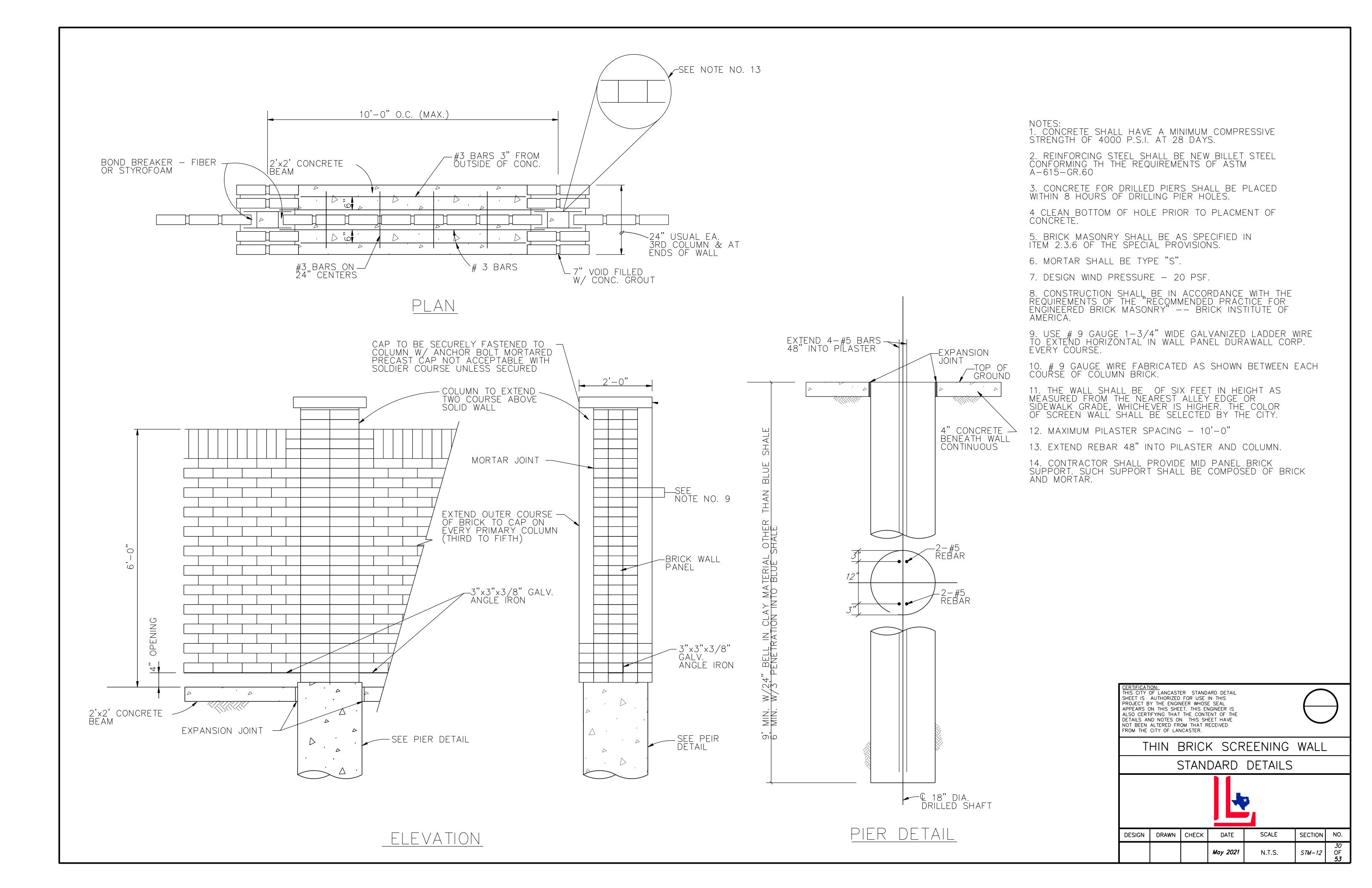


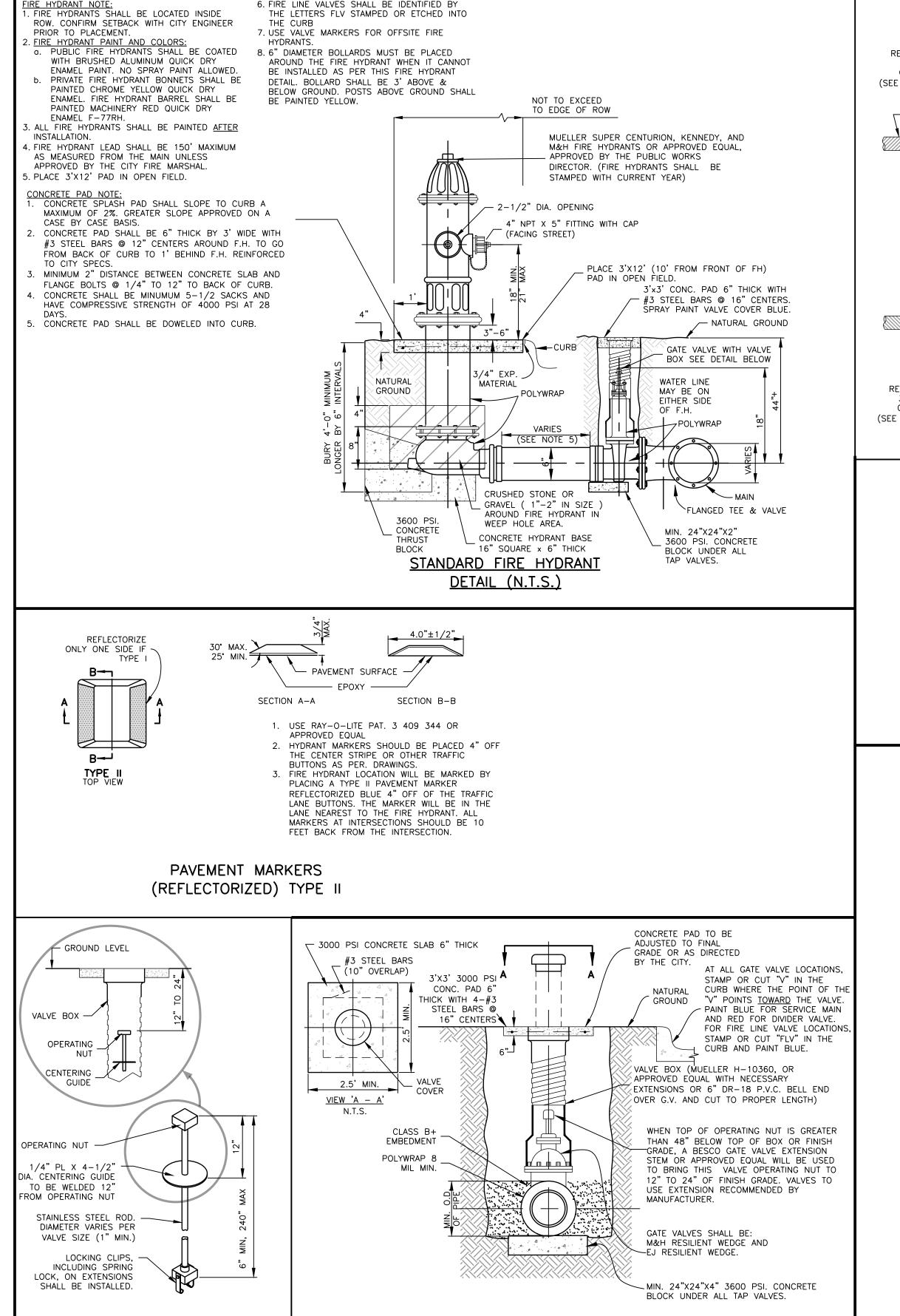
# PRECAST SAFETY END TREATMENT

TYPE II - PARALLEL DRAINAGE



SIGN	DRAWN CHECK		DATE	SCALE	SECTION	NO.
			May 2021	N.T.S.	STM-11	<i>29</i> OF <b>5.3</b>





TYPICAL GATE VALVE SETTING AND BOX

(N.T.S.)

1. GATE VALVE EXTENSION RODS SHALL BE ONE PIECE

A PERMANENTLY ATTACHED VALVE EXTENSION STEM

SHALL BE REQUIRED FOR ANY VALVE WHOSE

BELOW THE TOP OF THE VALVE BOX. THIS

GATE VALVE EXTENSION STEM

(N.T.S.)

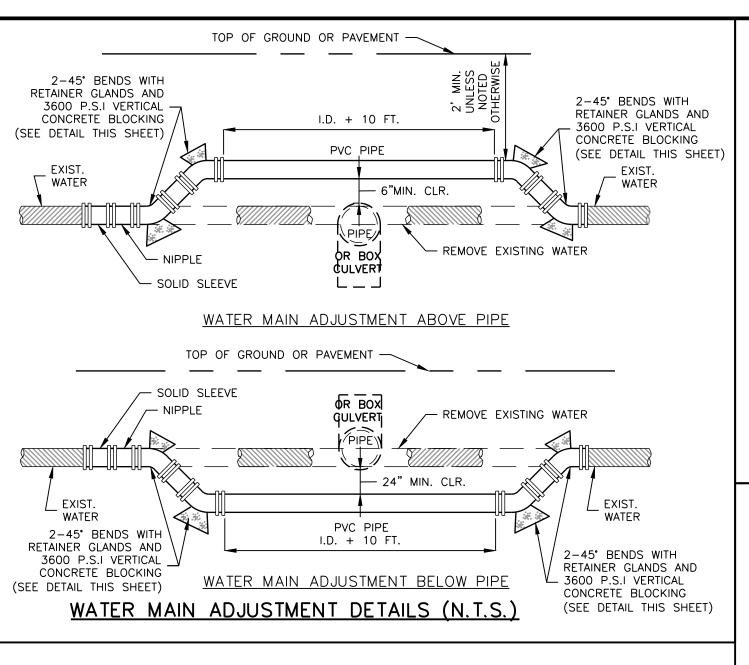
OPERATING NUT IS LOCATED IN EXCESS OF 4'

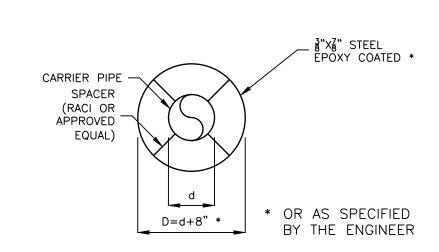
EXTENSIONS SHALL BRING THIS VALVE OPERATING

NUT TO 12" TO 24" OF FINISH GRADE. VALVES TO

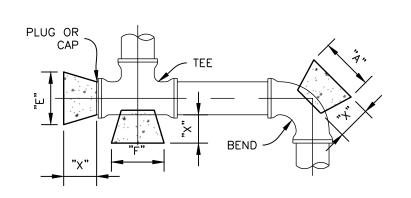
USE EXTENSION RECOMMENDED BY MANUFACTURER.

CONSISTING OF 304 STAINLESS STEEL.





### STEEL PIPE ENCASEMENT DETAIL(N.T.S.)



		11.25*		22.5°			45°		90 <b>°</b>	TEE & PLUG	
PIPE SIZE	X DIA. FT.	"A"	MIN. AREA	"A"	MIN. AREA	"A"	MIN. AREA	"A"	MIN. AREA	"E"	MIN. AREA
4"	1.5	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.06	1.00	1.00
6"	1.5	1.00	1.00	1.00	1.00	1.14	1.30	1.55	2.40	1.30	1.70
8"	1.5	1.00	1.00	1.08	1.18	1.52	2.31	2.07	4.27	1.74	3.02
10"	1.5	1.00	1.00	1.35	1.84	1.90	3.61	2.58	6.66	2.17	4.71
12"	1.5	1.00	1.33	1.63	2.65	1.86	5.19	3.10	9.60	2.61	6.79
14"	1.5	1.03	1.81	1.90	3.60	2.66	7.07	3.61	13.06	3.04	9.246
16"	2.0	1.18	2.36	2.17	4.71	3.04	9.23	4.13	17.06	3.47	12.06
18"	2.0	1.33	2.99	2.44	5.96	3.42	11.69	4.65	21.59	3.91	15.27
20"	2.0	1.48	3.70	2.71	7.35	3.80	14.43	5.16	26.86	4.34	18.85
21"	2.0	1.55	4.07	2.85	8.11	3.99	15.91	5.42	29.39	4.56	20.78
24"	2.0	1.77	5.32	3.25	10.59	4.56	20.77	6.20	38.39	5.21	27.14
27"	2.5	1.99	6.73	3.66	13.40	5.13	26.29	6.97	48.58	5.86	34.35
30"	2.5	2.22	8.31	4.07	16.55	5.70	32.46	7.74	59.98	6.51	42.41
33"	2.5	2.44	10.06	4.47	20.02	6.27	39.28	8.52	72.57	7.16	51.31
36"	2.5	2.66	11.97	4.88	23.83	6.84	46.74	9.29	86.37	7.81	61.07
39"	3.0	2.88	14.05	5.29	27.97	7.41	54.86	10.07	101.36	8.47	71.68
42"	3.0	3.10	16.30	5.69	32.43	7.98	63.62	10.85	117.56	9.12	83.13

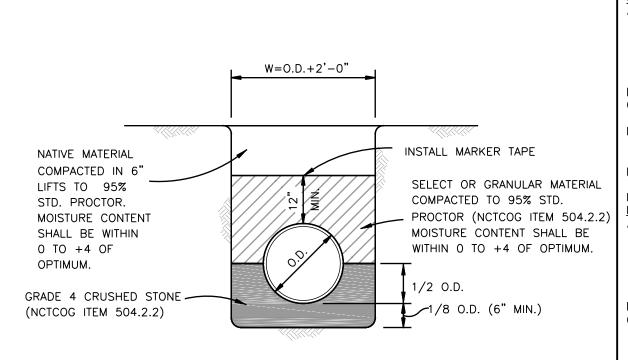
### **HORIZONTAL THRUST BLOCK NOTES:**

RETAINER GLANDS OR OTHER RESTRAINING DEVICES MAY BE REQUIRED AS NEEDED. 1. ALL CALCULATIONS ARE BASED ON A WATER LINE PRESSURE OF 150 p.s.i. AND AN ALLOWABLE SOIL BEARING VALUE OF 2,500 POUNDS PER SQUARE FOOT. 2. 3600 PSI. CONCRETE SHALL BE USED FOR

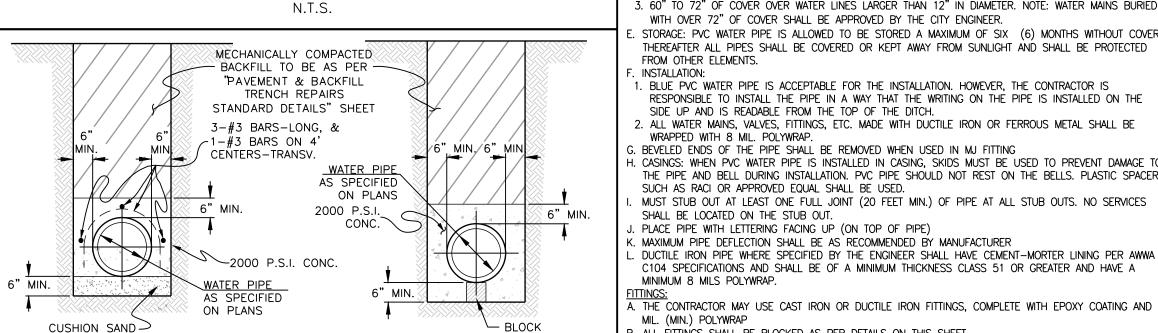
ALL BLOCKING. 3. THE MINIMUM VERTICAL DIMENSIONS OF ALL BLOCKING SHALL BE 1.5 TIMES THE PIPE DIAMETER WITH AT LEAST 0.75 TIMES THE PIPE DIAMETER EXTENDING BOTH ABOVE AND BELOW THE PIPE CENTERLINE. THIS DIMENSION DETERMINES THE "X" DIMENSION FOR  $11-1/4^{\circ}$  BENDS.

4. FOR 22-1/2°, 45°, 90°, TEES AND PLUGS, THE VERTICAL DIMENSION SHALL BE EQUAL TO THE HORIZONTAL DIMENSION SHOWN TO PRODUCE THE REQUIRED MINIMUM AREA. 5. ALL MINIMUM AREAS ARE IN SQUARE FEET.

**DIMENSIONS OF CONCRETE FOR HORIZONTAL THRUST** CONCRETE BLOCKING AT FITTINGS (N.T.S.)



## PIPE EMBEDMENT DETAIL - CLASS B+ EMBEDMENT



FIRE HYDRANT

CUT AND PLUG FOR ABANDONED WATER

LINES. VALVES. AND FIRE HYDRANTS

CAP DETAIL (N.T.S.)

TRENCH

WIDTH

GROUND



GROUND

1. TEES SHALL BE STRAIGHT PIPED WITH CUT AND PLUG AT A TEE OR CROSS

PLUG CAN BE USED AS LONG AS THE CROSS IS MJ OR FLANGED. 4. IF PUSH-ON FITTING IS FOUND, THE

A. VALVES INSTALLED ON WATER LINES 12" IN DIAMETER OR LESS SHALL BE VERTICAL GATE VALVES. CROSS SHALL BE REMOVED AND PIPED CUT AND PLUG AT . VALVES INSTALLED ON WATER LINES LARGER THAN 12" IN DIAMETER SHALL BE DIRECT BURY BUTTERFLY WITH PROPER MJ FITTINGS. TEE OR CROSS. VALVES WITH A VALVE BOX. PLEASE NOTE THAT SPECIAL FITTINGS SHALL BE INSTALLED TO ALLOW POLY-PIGGING OF NEW INSTALLATIONS. COST INCIDENTAL TO PROJECT OVERALL

NOTE: USE 8 MIL

BUTTERFLY VALVES SHALL CONFORM TO AWWA C504 STANDARDS LATEST REVISION. ). BUTTERFLY VALVES SHALL BE MUELLER, CLOW, PRATT, M&H OR AN APPROVED EQUAL ALL GATE VALVES SHALL HAVE NON-RISING STEMS AND RESILIENT SEATED WEDGE. ALL VALVES AND FIRE HYDRANTS SHALL BE IN LINE WITH THE PROPERTY LINE, WHERE POSSIBLE

ALL VALVE LOCATIONS SHALL BE MARKED WITH "V" STAMPED OR CUT ON THE CURB. H. PLEASE ALSO REFER TO THE DETAILS ON THIS SHEET AND N.C.T.C.O.G. ITEM 502.6. SPECIFICATIONS. ALL STUB-OUT VALVES TO HAVE A MINIMUM 20' JOINT OF PIPE.

J. ALL VALVES TO BE FLANGED VALVES OR ANCHOR COUPLE TO TEE WHERE APPLICABLE. A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:

PURGING BY USING THE "POLY-PIG" METHOD TO ENTER AND EXIT AT APPROVED STRATEGIC LOCATIONS AND AS PER N.C.T.C.O.G. ITEM 506.7.3.1 SPECIFICATIONS, TO INCLUDE ALL EQUIPMENT, MATERIAL, FITTINGS, AND LABOR. 2. HYDROSTATIC TEST AS PER GENERAL NOTES SHEETS, GN-01 - GN 04, FOR TESTING REQUIREMENTS I

A ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE CITY OF

PUBLIC WORKS CONSTRUCTION - NORTH CENTRAL TEXAS" HEREIN REFERRED TO AS "N.C.T.C.O.G."

616 SIX FLAGS DRIVE, SUITE 200, ARLINGTON, TEXAS 76005-5888. (817) 640-3300. THESE

. PLEASE ALSO REFER TO N.C.T.C.O.G. ITEM 501, 502, 503, 504, 505, 506 & 509 SPECIFICATIONS.

FOR APPROVAL UPON SUBMITTAL OF ALL SUPPORTING DATA TO THE CITY ENGINEER FOR REVIEW.

ITEM 403.2.3 TO BE PLACED OVER ALL VEHICULAR TRAVELED AREAS UNTIL THE FINAL

P. PVC PIPE SHALL BE DR18 C900 (CLASS 235) OR AS APPROVED BY THE ENGINEER.

BELOW PIPE TO 6" ABOVE PIPE UNLESS SPECIFIED OTHERWISE BY THE ENGINEER.

COVER: THE FOLLOWING MINIMUM COVERS OVER THE WATERLINE ARE REQUIRED:

WITH OVER 72" OF COVER SHALL BE APPROVED BY THE CITY ENGINEER.

BEVELED ENDS OF THE PIPE SHALL BE REMOVED WHEN USED IN MJ FITTING

MAXIMUM PIPE DEFLECTION SHALL BE AS RECOMMENDED BY MANUFACTURER

1. 42" OF COVER OVER WATER LINES 8" IN DIAMETER OR LESS

SIDE UP AND IS READABLE FROM THE TOP OF THE DITCH.

SUCH AS RACI OR APPROVED EQUAL SHALL BE USED.

. PLACE PIPE WITH LETTERING FACING UP (ON TOP OF PIPE)

B. ALL FITTINGS SHALL BE BLOCKED AS PER DETAILS ON THIS SHEET.

). PLEASE ALSO REFER TO N.C.T.C.O.G. ITEM 501 SPECIFICATIONS.

. ALL BENDS, TEES AND PLUGS SHALL HAVE RETAINER GLANDS.

IRON COMPACT FITTINGS FOR PIPES 3"-16" IN DIAMETER.

POLYWRAP SADDLES WITH 8 MIL POLYWRAP.

2. 48" OF COVER OVER WATER LINES 12" IN DIAMETER,

B. PVC PIPE SHALL NOT BE USED FOR MAINS GREATER THAN 24" IN DIAMETER.

SPECIFICATIONS ARE ALSO AVAILABLE AT WWW.PUBLICWORKS.DFWINFO.COM

REPAIRS/IMPROVEMENTS ARE MADE.

FOLLOWING:

FMBFDMFNT:

BY THE ENGINEER.

OTHERWISE BY THE ENGINEER.

FROM OTHER ELEMENTS.

WRAPPED WITH 8 MILL POLYWRAP

SHALL BE LOCATED ON THE STUB OUT.

MINIMUM 8 MILS POLYWRAP.

MIL. (MIN.) POLYWRAP

INSTALLATION:

SURFACE SHALL BE REPAIRED TO MATCH EXISTING.

LANCASTER, WHICH HAS ALSO ADOPTED THE FOURTH EDITION OF THE "STANDARD SPECIFICATIONS FOR

SPECIFICATIONS. COPIES MAY BE OBTAINED FROM THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS.

. WHERE SPECIFIED NAME BRANDS ARE INDICATED, PRODUCTS OF EQUAL OR BETTER MAY BE CONSIDERED

THE CONTRACTOR SHALL PROVIDE FOR TEMPORARY 3" COLD MIX ASPHALTIC CONCRETE AS PER N.C.T.C.C

ALL VALVES, VALVE STACKS AND COVERS ON ABANDONED WATER MAINS SHALL BE REMOVED COMPLETELY

CONTRACTOR SHALL CONTACT STREETS DEPARTMENT FOR THE REMOVAL OF CITY SIGNS IN RIGHT-OF-WAY.

REINFORCED CONCRETE CYLINDER PIPE (RCCP) C303 PRESSURE CLASS 150 OR GREATER AS SPECIFIED

WATER MAINS UP TO 12" DIAMETER SHALL BE POLYVINYL CHLORIDE PVC DR18 C900 (CLASS 150), OR

EMBEDMENT SHALL BE AS PER THE "PIPE EMBEDMENT DETAIL" ON THIS SHEET UNLESS SPECIFIED

2. FOR PIPE SIZES LARGER THAN 12", MINIMUM EMBEDMENT SHALL BE 1/4"-3/4" CRUSHED STONE 6"

3. 60" to 72" of cover over water lines larger than 12" in diameter. Note: water mains buried

STORAGE: PVC WATER PIPE IS ALLOWED TO BE STORED A MAXIMUM OF SIX (6) MONTHS WITHOUT COVER

THEREAFTER ALL PIPES SHALL BE COVERED OR KEPT AWAY FROM SUNLIGHT AND SHALL BE PROTECTED

RESPONSIBLE TO INSTALL THE PIPE IN A WAY THAT THE WRITING ON THE PIPE IS INSTALLED ON THE

2. ALL WATER MAINS, VALVES, FITTINGS, ETC. MADE WITH DUCTILE IRON OR FERROUS METAL SHALL BE

I. CASINGS: WHEN PVC WATER PIPE IS INSTALLED IN CASING, SKIDS MUST BE USED TO PREVENT DAMAGE ' THE PIPE AND BELL DURING INSTALLATION. PVC PIPE SHOULD NOT REST ON THE BELLS. PLASTIC SPACER

MUST STUB OUT AT LEAST ONE FULL JOINT (20 FEET MIN.) OF PIPE AT ALL STUB OUTS. NO SERVICES

DUCTILE IRON PIPE WHERE SPECIFIED BY THE ENGINEER SHALL HAVE CEMENT-MORTER LINING PER AWWA

C104 SPECIFICATIONS AND SHALL BE OF A MINIMUM THICKNESS CLASS 51 OR GREATER AND HAVE A

USE AWWA C110 DUCTILE IRON FITTINGS FOR PIPES 3"-48" IN DIAMETER AND AWWA C153 FOR DUCTILE

C. DUCTILE IRON INTEGRAL RESTRAINED JOINT FITTINGS ARE PERMISSIBLE FOR PVC AND DUCTILE IRON PIPE

SIZES 4"-12" IN DIAMETER; NOTE: CONCRETE BLOCKING IS NOT REQUIRED WITH THESE FITTINGS.

. ALL DUCTILE IRON AND CAST IRON FITTINGS SHALL BE MANUFACTURED IN THE UNITED STATES.

C. ALL FITTINGS SHALL BE MJ UNLESS SPECIFIED OTHERWISE. PVC FITTINGS ARE NOT ALLOWED

BLUE PVC WATER PIPE IS ACCEPTABLE FOR THE INSTALLATION. HOWEVER, THE CONTRACTOR IS

DR14 C900 (CLASS 200). WATER MAINS GREATER THAN 12" IN DIAMETER MAY BE ONE OF THE

THE CONTRACTOR WILL FLUSH AND STERILIZE LINES AND PERFORM BACTERIOLOGICAL TESTS AS DIRECTED BY THE CITY INSPECTOR AND TO PROVIDE LINES TO BE FREE OF COLIFORM ORGANISMS.. 4. ALL TEMPORARY TEST POINTS TO HAVE CORPORATION STOPS AT THE MAIN.

5. ALL TEMPORARY TESTING & CHLORINATION POINTS AND ASSOCIATED CORPORATION STOPS SHALL BE REMOVED AND PLUGGED, PRIOR TO FINAL ACCEPTANCE

5. ONE WATER SAMPLE PER EACH STREET NAME, OR AS APPROVED BY THE CITY ENGINEER. (a) PLEASE REFER TO THE GENERAL NOTES SHEETS, GN-01 - GN 04, FOR TESTING REQUIREMENTS FOR

WATER, WASTEWATER, STORM DRAIN AND PAVEMENT CONSTRUCTION. (b) THE CONTRACTOR WILL PROVIDE BACKFILL, DENSITY AND CONCRETE TESTING FOR ALL PROJECTS UNLES SPECIFIED OTHERWISE. ALL REPORTS SHALL BE TURNED IN TO THE INSPECTOR WITHIN FIVE (5) WORKING DAYS.

A. ALL MATERIAL INCORPORATED IN THE CONSTRUCTION SHALL BE NEW.

PRIVATE DEVELOPMENT PROJECTS:

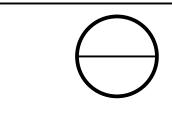
. THE DEVELOPER/OWNER SHALL PROVIDE TESTING FOR ALL PROJECT UNLESS SPECIFIE OTHERWISE, ALL REPORTS SHALL BE TURNED INTO THE INSPECTOR WITHIN FIVE (5) WORKING DAYS. THE DEVELOPER/OWNER SHALL PROVIDE GEOTECHNICAL TESTING PRIOR TO CONSTRUCTION COMMENCING.

TYPICAL WATER CURB MARKINGS VALVE (WATER MAIN LINE)

"FHV" - FIRE HYDRANT VALVE "BOV" - BLOW OFF VALVE "ARV" - AIR RELEASE VALVE

"W" — WATER METER ALL "V" MARKINGS POINT TOWARD LOCATION OF VALVE EXAMPLE: FH (FIRE HYDRANT VALVE BEHIND THE CURB)

<u>CERTIFICATION:</u>
THIS CITY OF LANCASTER STANDARD DETAIL SHEET IS AUTHORIZED FOR USE IN THIS PROJECT BY THE ENGINEER WHOSE SEAL APPEARS ON THIS SHEET. THIS ENGINEER IS ALSO CERTIFYING THAT THE CONTENT OF THE DETAILS AND NOTES ON THIS SHEET HAVE NOT BEEN ALTERED FROM THAT RECEIVED FROM THE CITY OF LANCASTER.



# WATER 1 STANDARD DETAILS





DESIGN DRAWN CHECK DATE SCALE SECTION May 2021 N.T.S. WAT-01 OF

#### POLYETHYLENE WRAP OR EQUAL BETWEEN CONCRETE AND BEND STANDARD TO PREVENT NOTES PART D CONCRETE FROM (THIS SHEET) STICKING TO BEND ASSUMED , HORIZONTAL REINFORCING BARS VERTICAL COMPONENT OF THRUST & TABULATED VALUE POUR AGAINST UNDISTURBED - REINFORCING BARS EARTH #4 @ 12" O.C. ON 12" PIPE AND LARGER VARIES (APPROX. SAME LENGTH AS BEND) ELEVATION A-A ELEVATION B-B 11.25° 22.50° 30° 45° 67.50° I.D. (IN) TONS C.Y. TONS C.Y. TONS C.Y. TONS C.Y. TONS C.Y. TONS C.Y. 1.0 0.5 2.0 1.0 2.5 1.3 3.6 1.8 4.6 2.3 2.2 1.1 4.3 2.2 5.7 2.8 8.0 4.0 10.5 5.2 11.3 9.0 5.0 2.5 9.7 4.9 12.7 6.4 18.0 9.0 23.5 11.8 25.5 12.7 6.1 3.1 12.0 6.0 15.7 7.9 22.2 11.1 29.2 14.5 31.4 15.7 8.2 4.4 17.3 8.7 22.6 11.3 32.0 16.0 41.8 20.9 45.2 22.6 10.5 5.2 20.3 10.1 26.5 13.3 37.5 18.8 49.0 24.5 53.1 26.5 14.9 7.5 29.2 14.6 38.2 19.1 54.0 27.0 70.5 35.3 76.4 38.2 20.3 10.1 39.8 19.9 52.0 26.0 73.5 36.7 96.0 48.0 104.0 52.0 26.5 13.2 51.9 26.0 67.9 33.9 96.0 48.0 126.0 62.7 136.0 67.9 <u> 33.5 16.8 | 65.7 32.9 85.9 42.9 122.0 60.7 159.0 79.4 172.0 85.9</u> <u>41.4 20.7 81.2 40.6 106.0 53.0 150.0 75.0 196.0 98.0 212.0 106.0</u> 50.1 25.0 98.2 49.1 128.0 64.2 182.0 90.7 237.0 119.0 257.0 128.0 59.6 29.8 117.0 58.4 153.0 76.3 216.0 108.0 282.0 141.0 305.0 153.0 <u>69.9 35.0 137.0 68.6 179.0 90.0 254.0 127.0 331.0 166.0 358.0 179.0</u> <u>81.1 40.5 159.0 79.5 208.0 104.0 294.0 147.0 384.0 192.0 416.0 208.0</u> <u>93.1|46.5| 183.0| 91.3| 239.0| 119.0| 337.0| 169.0| 441.0| 221.0| 477.0|239.0</u> <u>| 106.0|53.0| 208.0| 104.0| 272.0| 136.0| 384.0| 192.0| 502.0| 251.0| 543.0|272.0</u>

VERTICAL THRUST BLOCK NOTES:

ALL CALCULATIONS ARE BASED ON INTERNAL 3. WALL THICKNESS ( T ) ASSUMED HERE FOR PRESSURE OF 200 P.S.I. FOR 24" I.D. PIPE

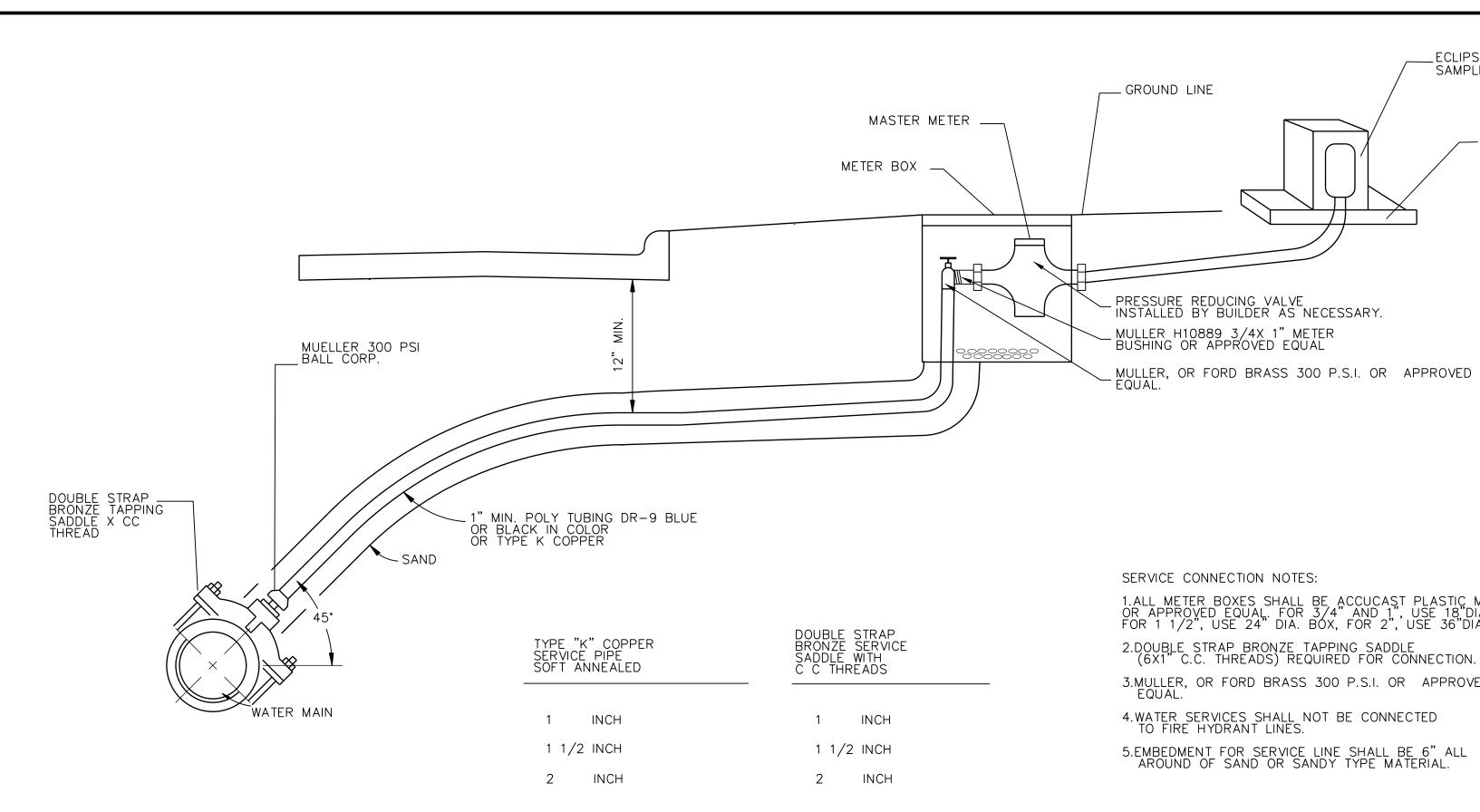
AND SMALLER AND 150 P.S.I. ON 30" I.D. AND LARGER. VOLUMES OF VERTICAL BEND THRUST BLOCKS ARE NET VOLUMES OF CONCRETE TO BE FURNISHED. THE CORRESPONDING WEIGHT OF THE CONCRETE IS EQUAL TO OR GREATER

THAN THE VERTICAL COMPONENT OF THRUST

4. CONCRETE FOR BLOCKING SHALL BE 3600 P.S.I. CONCRETE 5. DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS DIRECTED BY THE ENGINEER. THE VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN HERE

ESTIMATING PURPOSES ONLY.

ON THE VERTICAL BEND. **DIMENSIONS OF CONCRETE FOR VERTICAL** THRUST BLOCKS AT FITTINGS (N.T.S.)



- NOTES:
  1. PROPOSED PIPING & FITTINGS ARE
  SYMMETRIC ABOUT CENTER OF PROP.
  SAN. SEW. OR ST. SEW. PIPE AND
  SHALL RETAIN TEST PRESSURES.
- CROSSING OF SANITARY SEWER SHALL BE IN ACCORDANCE WITH TCEQ REQUIREMENTS.
- SAN. SEWER SHALL BE DR, 26
   PRESSURE RATED PIPE 10' EACH
   DIRECTION FROM CENTER LINE
   OF CROSSING.
- 4. MEGALUGS SHALL BE USED ON ALL FITTINGS AND ANCHOR ALL BENDS.
- 5. ALL BENDS MUST BE SUPPORTED BY 3600 P.S.I. CONCRETE THRUST BLOCK.

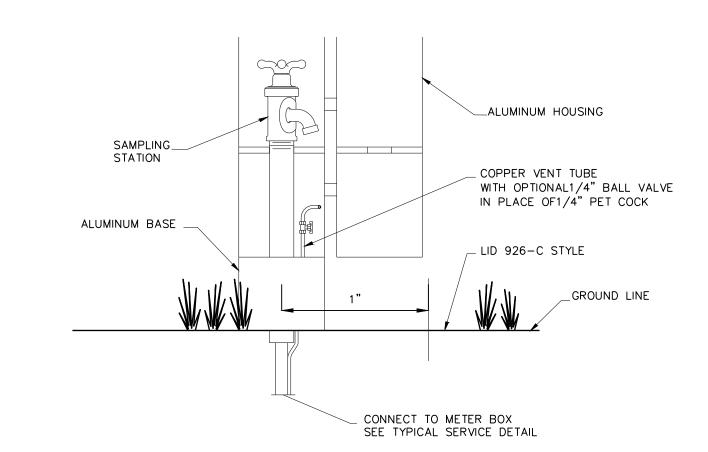
SERVICE CONNECTION NOTES:

1.ALL METER BOXES SHALL BE ACCUCAST PLASTIC METER BOX WITH PLASTIC COVER OR APPROVED EQUAL. FOR 3/4" AND 1", USE 18"DIA. BOX, FOR 1 1/2", USE 24" DIA. BOX, FOR 2", USE 36"DIA. BOX

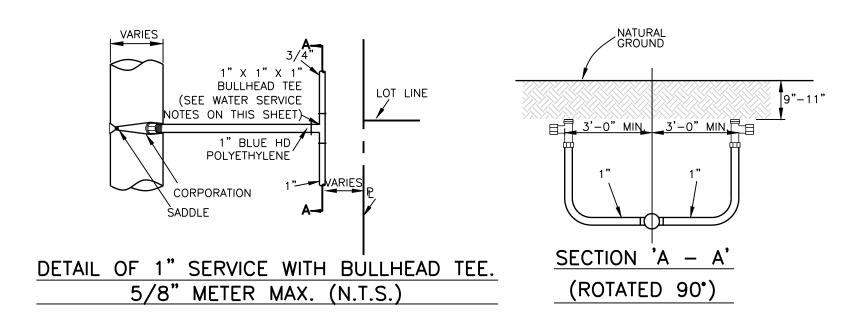
\_ECLIPSE 88 SAMPLE STATION

- 36"X36"X4" CONCRETE SLAB

- 2.DOUBLE STRAP BRONZE TAPPING SADDLE (6X1" C.C. THREADS) REQUIRED FOR CONNECTION.
- 3.MULLER, OR FORD BRASS 300 P.S.I. OR APPROVED EQUAL.
- 4. WATER SERVICES SHALL NOT BE CONNECTED TO FIRE HYDRANT LINES.
- 5.EMBEDMENT FOR SERVICE LINE SHALL BE 6" ALL AROUND OF SAND OR SANDY TYPE MATERIAL.

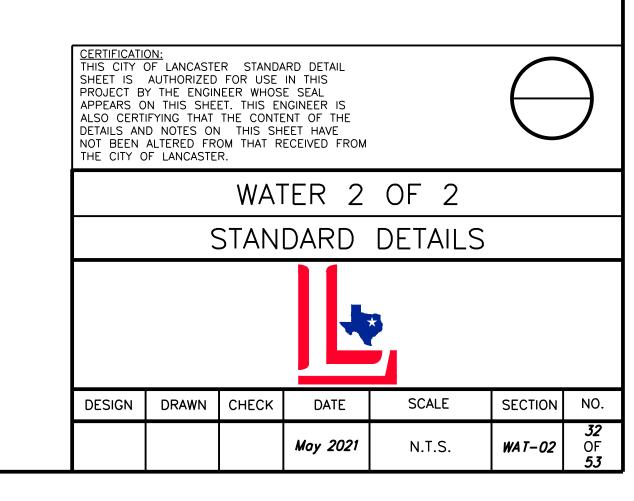


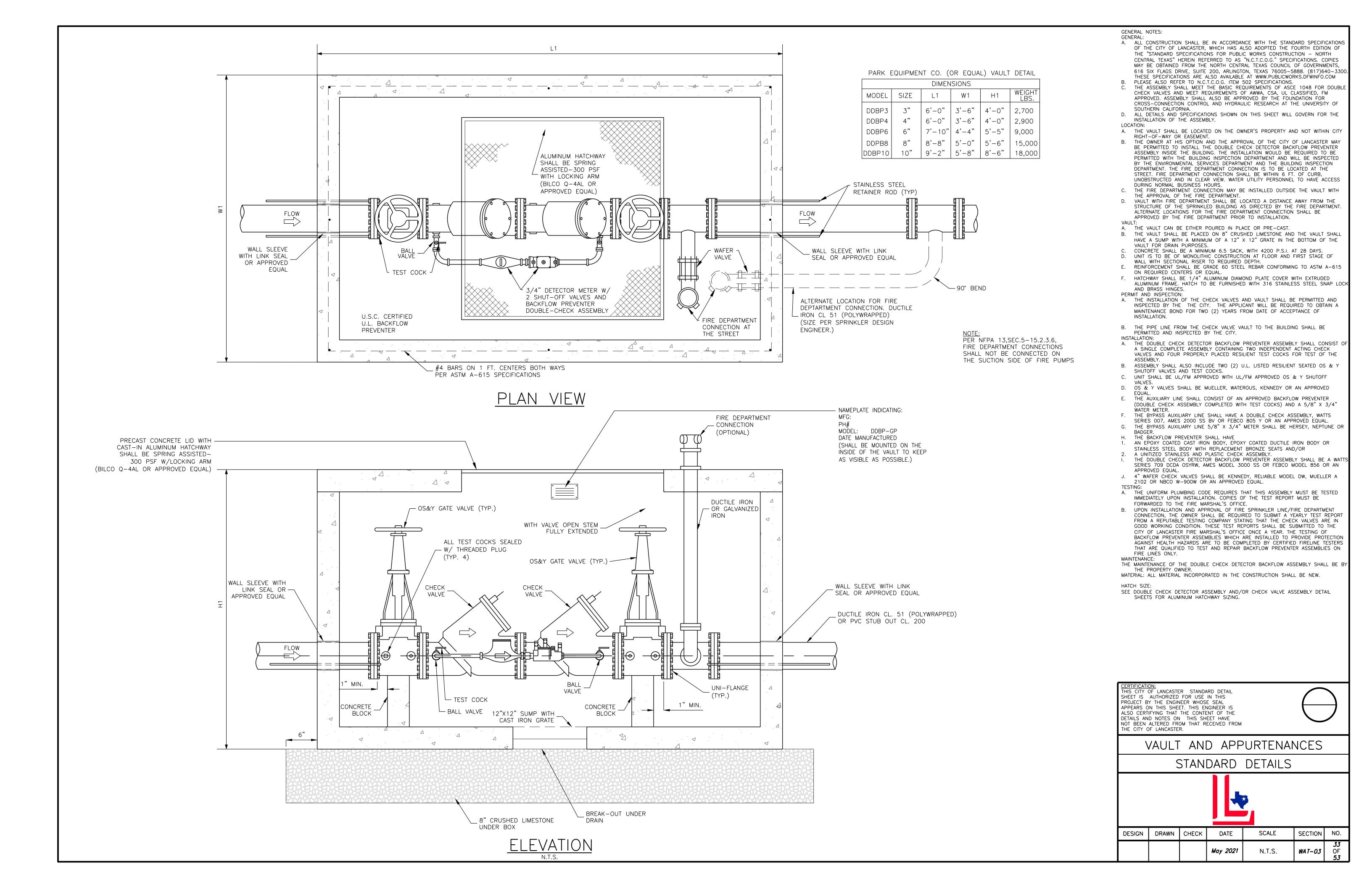


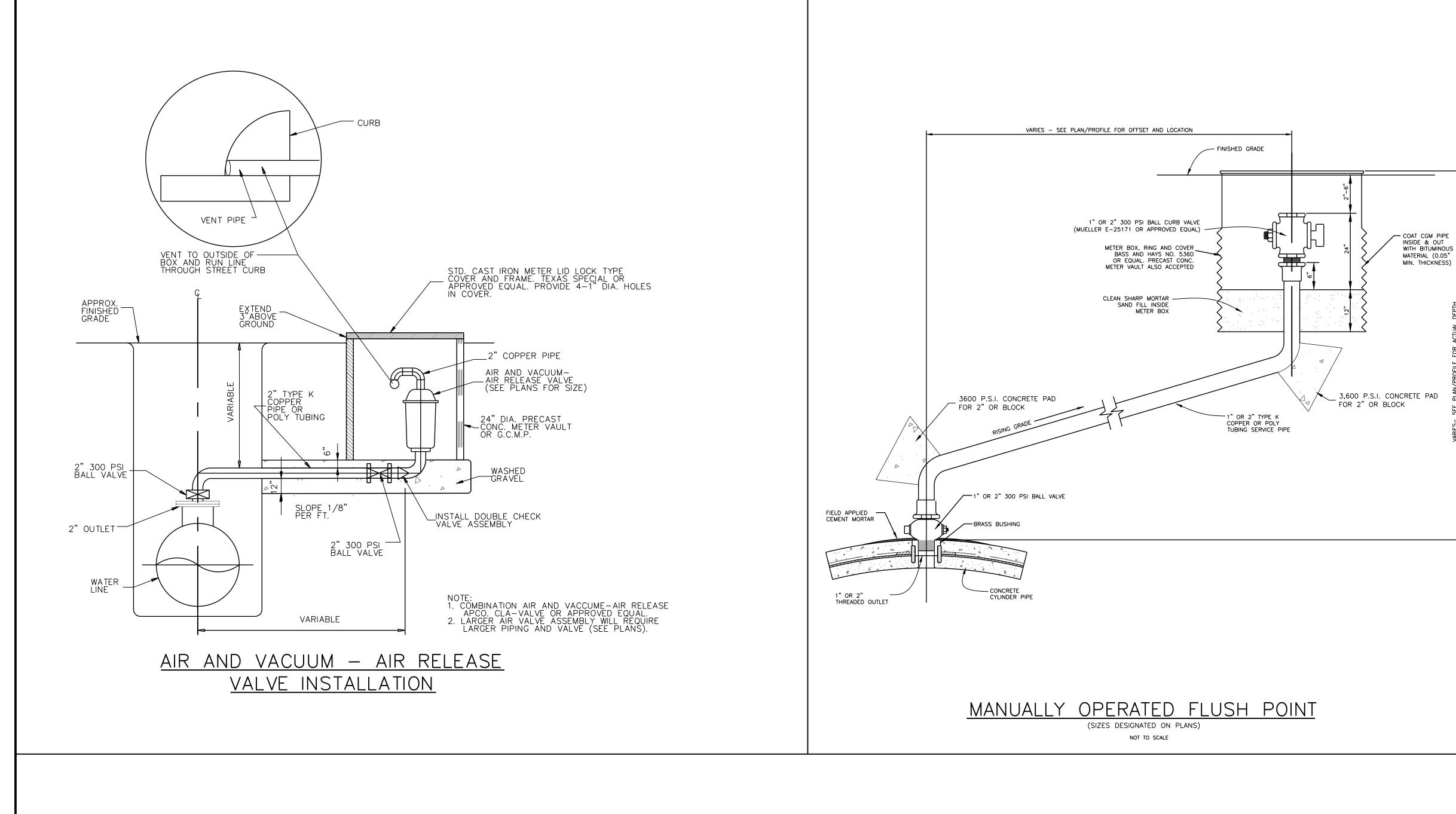


- 1. SAMPLING STATIONS SHALL BE 1.0' BURY, WITH A 3/4 " FIP INLET AND A ( 3/4 " HOSE OR UNTHREADED ) NOZZLE,
- 2. ALL STATIONS SHALL BE ENCLOSED IN A LOCKABLE, NONREMOVABLE ALUMINUM-CAST HOUSING.
- 3. WHEN OPENED, THE STATION SHALL REQUIRE NO KEY FOR OPERATION AND THE WATER WILL FLOW IN AN ALL BRASS WATERWAY.
- 4. ALL WORKING PARTS WILL ALSO BE OF BRASS AND BE REMOVABLE FROM ABOVE GROUND WITH NO DIGGING. EXTERIOR PIPING SHALL BE GALVANIZED STEEL (BRASS PIPE ALSO AVAILABLE).
- 5. A COPPER VENT TUBE WILL ENABLE EACH STATION TO BE PUMPED FREE OF STANDING WATER TO PREVENT FREEZING AND TO MINIMIZE BACTERIA GROWTH.
- 6. ECLIPSE NO. 88 SAMPLING STATION SHALL BE MANUFACTURED BY KUPFERLE FOUNDRY, ST. LOUIS, MO. 63102. OR APPROVED EQUAL.
- 7. ALL PIPING TO BE BRONZE, NOT GALVANIZED.

ECLIPSE NO. 88 SAMPLING STATION





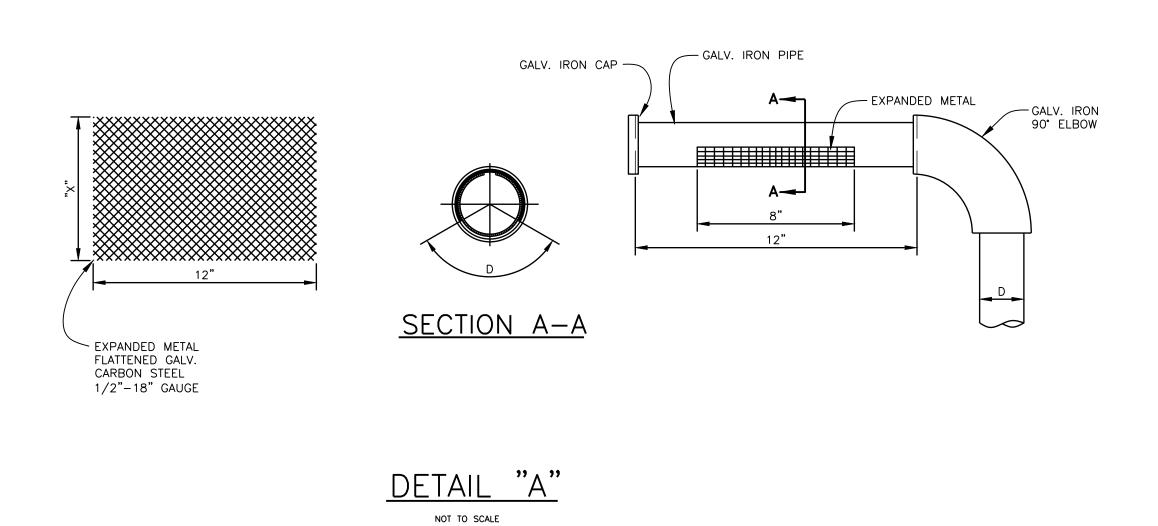


**GENERAL NOTES:** 

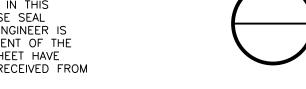
- GENERAL:

  (A) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE CITY OF LANCASTER, WHICH HAS ALSO ADOPTED THE FOURTH EDITION OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - NORTH CENTRAL TEXAS" HEREIN REFERRED TO AS "N.C.T.C.O.G." SPECIFICATIONS. COPIES MAY BE OBTAINED FROM THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, 616 SIX FLAGS DRIVE, SUITE 200, ARLINGTON, TEXAS 76005-5888. (817) 640-3300. THESE SPECIFICATIONS ARE ALSO AVAILABLE AT WWW.PUBLICWORKS.DFWINFO.COM
- (B) PLEASE ALSO REFER TO THE DETAILS ON THIS SHEET AND N.C.T.C.O.G. ITEM 502
- (C) AIR AND VACUUM RELEASE VALVES FOR WASTEWATER APPLICATIONS SHALL BE MADE OF NON-CORROSIVE MATERIAL.
- (D) ALL UTILITY DITCH LINES WITHIN CITY R.O.W. OR EASEMENT SHALL BE TESTED AT A FREQUENCY OF ONE DENSITY PER 6"-8" LIFTS (NOT TO EXCEED 12") AT STAGGERED 100' INTERVALS. ALL LATERALS OR SERVICES SHALL HAVE A MINIMUM OF ONE DENSITY TEST PER FOOT OF LIFT. THE INSPECTOR SHALL HAVE THE RIGHT TO REQUEST ADDITIONAL RANDOM TESTS AS HE/SHE DEEMS NECESSARY. (E) ALL MATERIAL INCORPORATED IN THE CONSTRUCTION SHALL BE NEW.
- (F) ALL DUCTILE IRON SHALL BE CLASS 51 AND POLYWRAPPED.
- G) CONTRACTOR SHALL CONTACT STREETS DEPARTMENT FOR THE REMOVAL OF CITY
- (H) SERVICE CONNECTION FOR AIR AND VACUUM RELEASE OR MANUALLY OPERATED FLUSH POINTS SHALL BE K COPPER TUBING. HD POLYETHELYNE IS NOT ALLOWED.

NOTE: EXPANDED METAL PIPE SHALL BE TACK WELDED



CERTIFICATION:
THIS CITY OF LANCASTER STANDARD DETAIL
SHEET IS AUTHORIZED FOR USE IN THIS PROJECT BY THE ENGINEER WHOSE SEAL APPEARS ON THIS SHEET. THIS ENGINEER IS ALSO CERTIFYING THAT THE CONTENT OF THE DETAILS AND NOTES ON THIS SHEET HAVE
NOT BEEN ALTERED FROM THAT RECEIVED FROM
THE CITY OF LANCASTER.



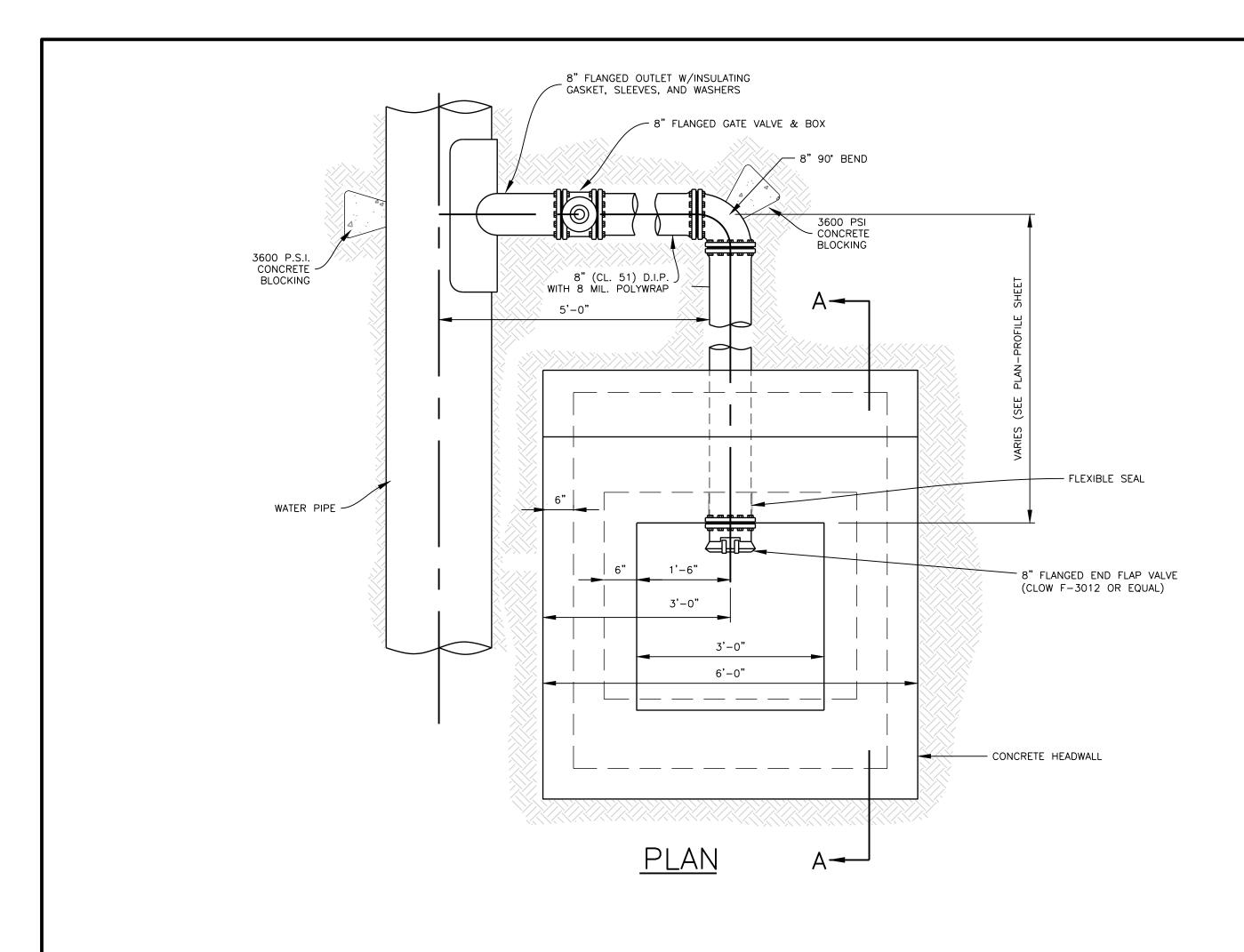
WATER, AIR AND VACUUM

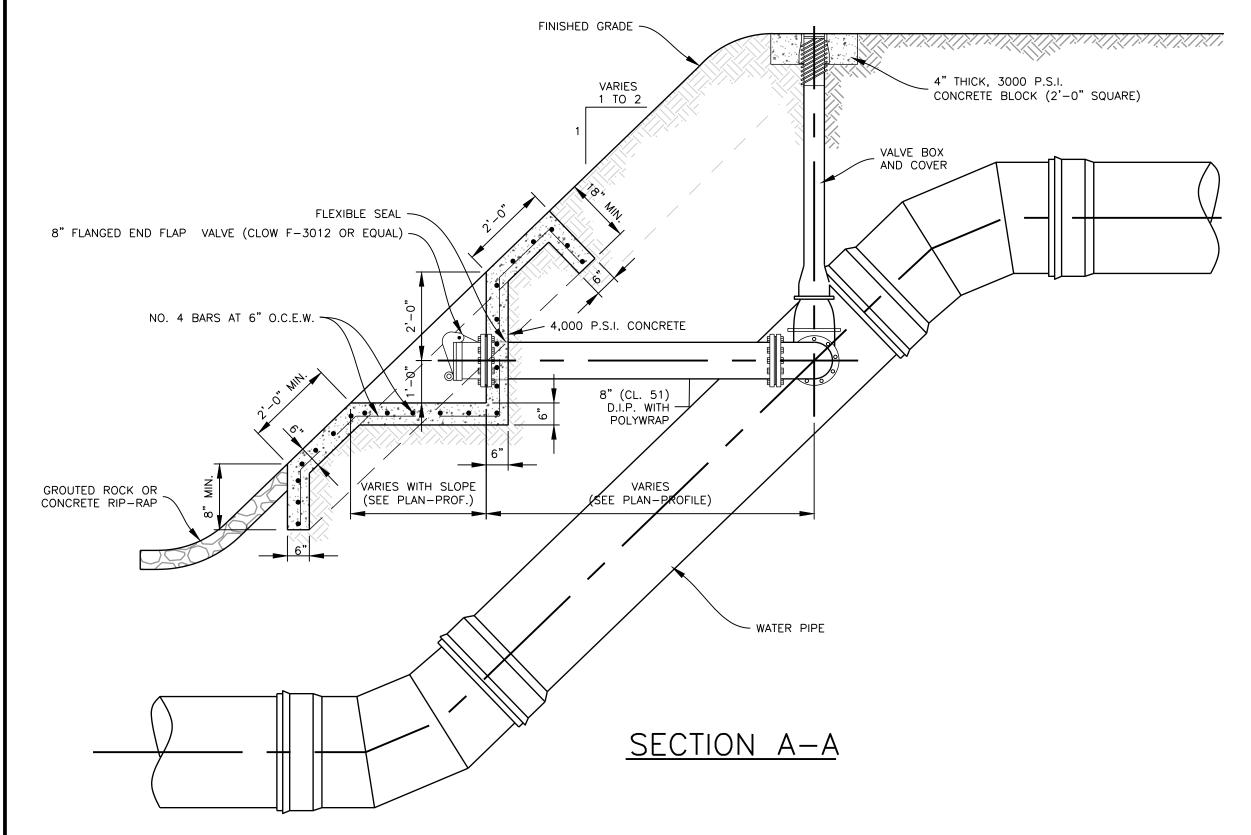
RELEASE VALVE

STANDARD DETAILS

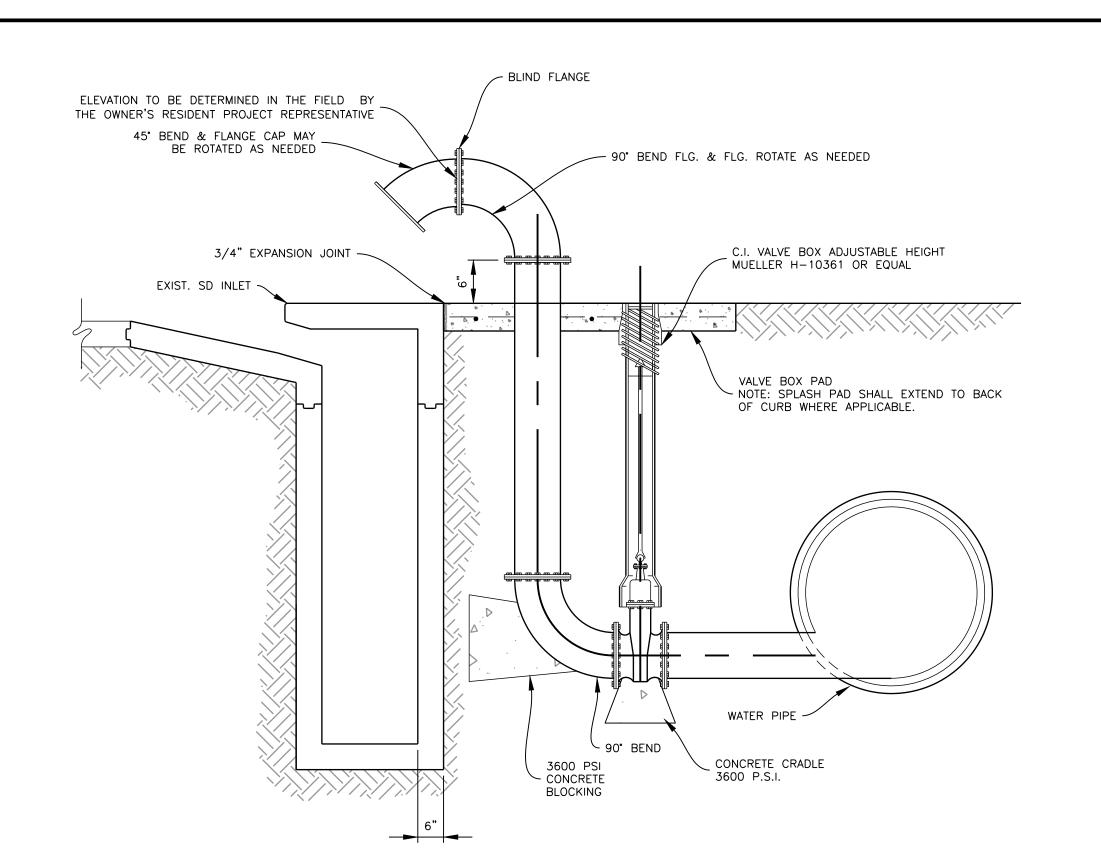


DATE SCALE SECTION DESIGN DRAWN CHECK May 2021 N.T.S. WA T-04 OF



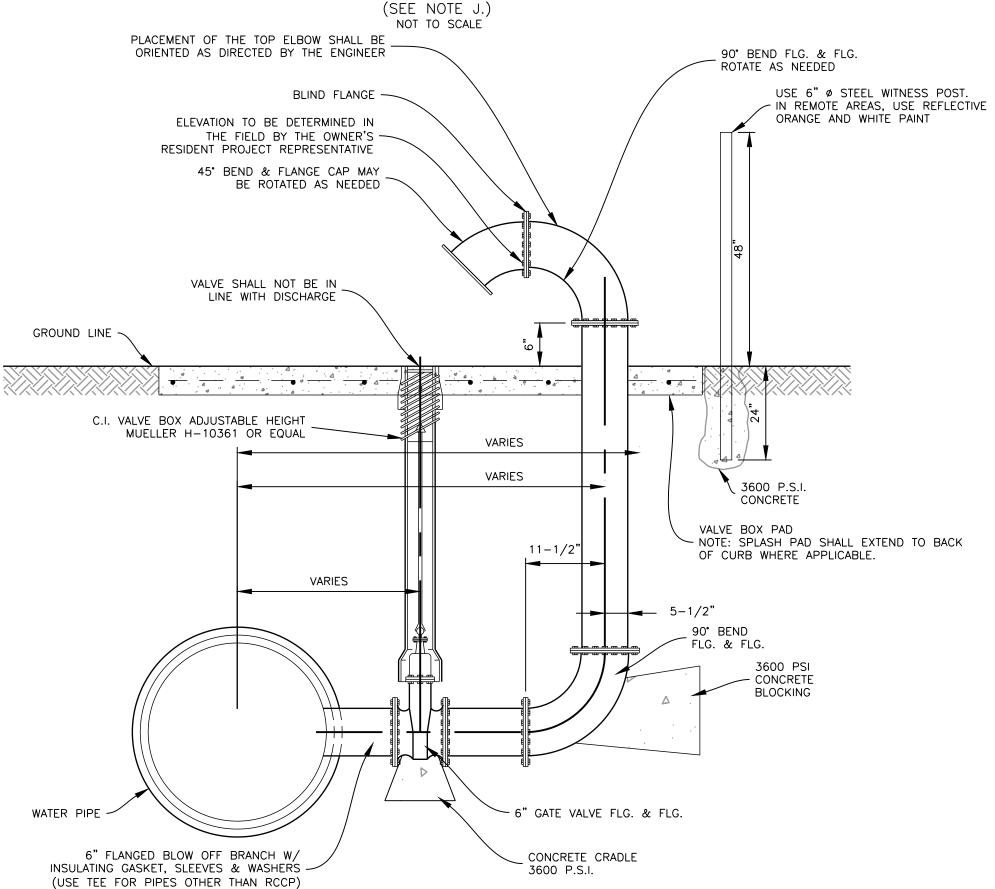


IRON PIPE BLOW-OFF DETAIL



## BLOW-OFF VALVE CONNECTION AT

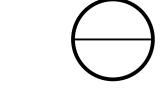
## EX. STORM DRAIN INLET



## IRON PIPE BLOW-OFF DETAIL

- (A) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE CITY OF LANCASTER, WHICH HAS ALSO ADOPTED THE FOURTH EDITION OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - NORTH CENTRAL TEXAS" HEREIN REFERRED TO AS "N.C.T.C.O.G." SPECIFICATIONS. COPIES MAY BE OBTAINED FROM THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, 616 SIX FLAGS DRIVE, SUITE 200, ARLINGTON, TEXAS 76005-5888. (817)640-3300. THESE SPECIFICATIONS ARE ALSO AVAILABLE AT WWW.PUBLICWORKS.DFWINFO.COM
- (B) ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE CLASS 51, AND
- (C) PLEASE ALSO REFER TO THE "WATER STANDARD DETAIL" SHEET FOR VALVE AND BLOCKING AND TESTING SPECIFICATIONS.
- (D) PLEASE ALSO REFER TO THE DETAILS ON THIS SHEET AND N.C.T.C.O.G. ITEM 502 SPECIFICATIONS.
- (E) SOIL TESTING TECHNICIAN MUST PROVIDE WRITTEN PROOF OF 18-24 MONTHS OF RELATED FIELD EXPERIENCE
- (F) ALL UTILITY DITCH LINES WITHIN CITY R.O.W. OR EASEMENT SHALL BE TESTED AT A FREQUENCY OF ONE DENSITY PER 6"-8" LIFTS (NOT TO EXCEED 12") AT STAGGERED 100' INTERVALS. ALL LATERALS OR SERVICES SHALL HAVE A MINIMUM OF ONE DENSITY TEST PER FOOT OF LIFT. THE INSPECTOR SHALL HAVE THE RIGHT TO REQUEST ADDITIONAL RANDOM TESTS AS HE/SHE DEEMS
- (G) ALL MATERIAL INCORPORATED IN THE CONSTRUCTION SHALL BE NEW. (H) CONTRACTOR SHALL CONTACT STREETS DEPARTMENT FOR THE REMOVAL OF CITY
- SIGNS IN RIGHT-OF-WAY.
- (I) ALL NEW WATER BLOW-OFF ASSEMBLIES WITHIN FIFTY FEET FROM THE NEAREST STORM DRAIN INLET BE SHALL INSTALLED AT THE INLET AS PER DETAILS ON
- THIS SHEET. (J) WATER BLOW-OFFS SHALL NOT BE INSTALLED IN SIDEWALKS.

<u>CERTIFICATION:</u> THIS CITY OF LANCASTER STANDARD DETAIL SHEET IS AUTHORIZED FOR USE IN THIS PROJECT BY THE ENGINEER WHOSE SEAL APPEARS ON THIS SHEET. THIS ENGINEER IS ALSO CERTIFYING THAT THE CONTENT OF THE DETAILS AND NOTES ON THIS SHEET HAVE NOT BEEN ALTERED FROM THAT RECEIVED FROM THE CITY OF LANCASTER.

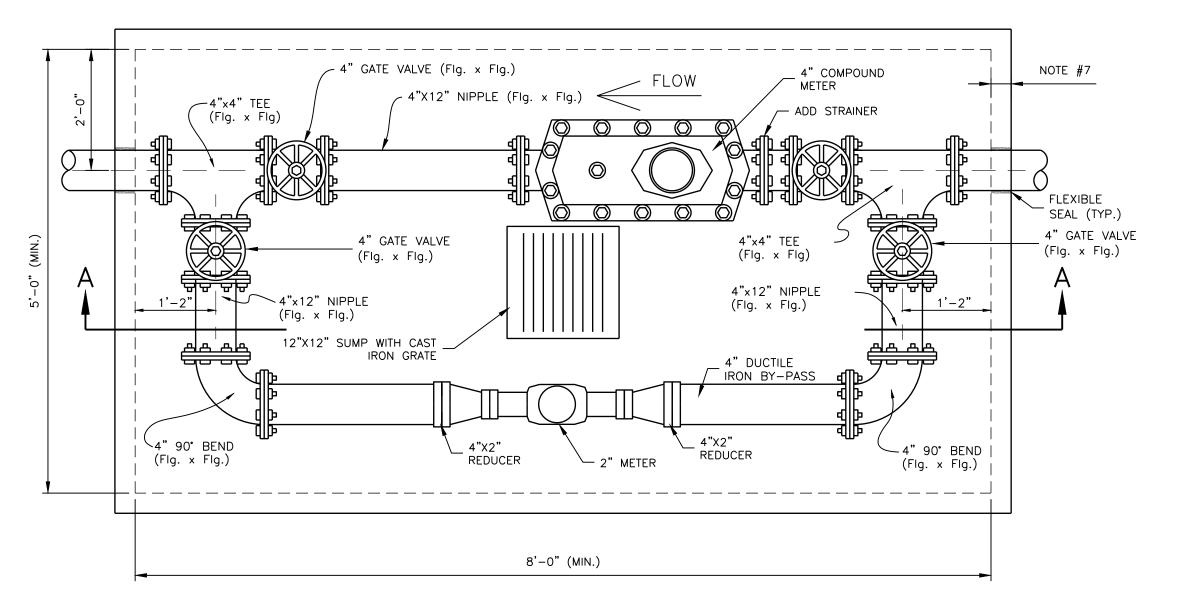


WATER BLOW-OFF

STANDARD DETAILS

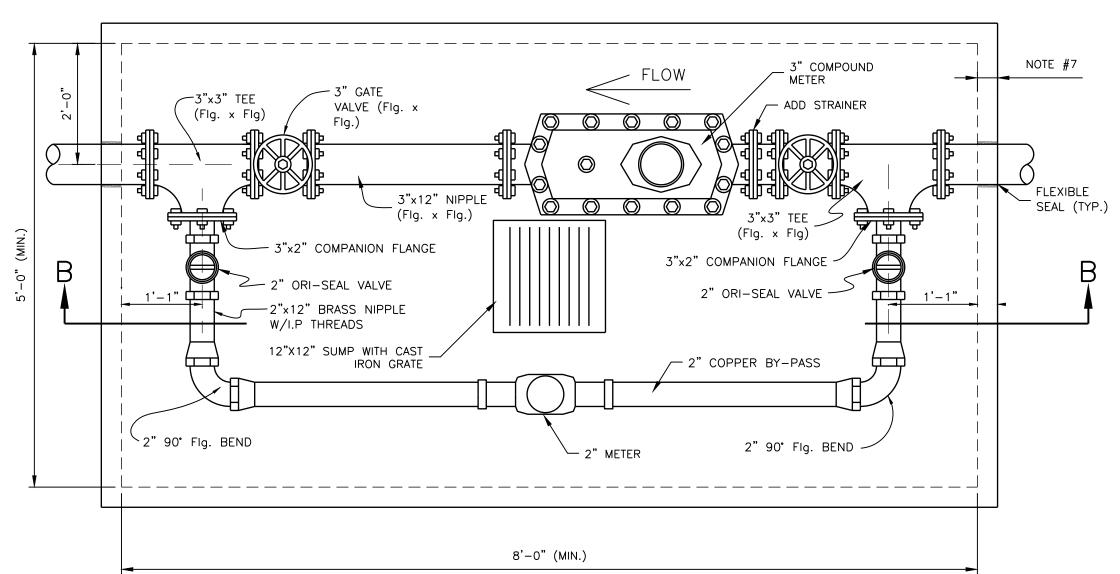


DATE SCALE SECTION DESIGN DRAWN CHECK May 2021 N.T.S. OF WAT-05

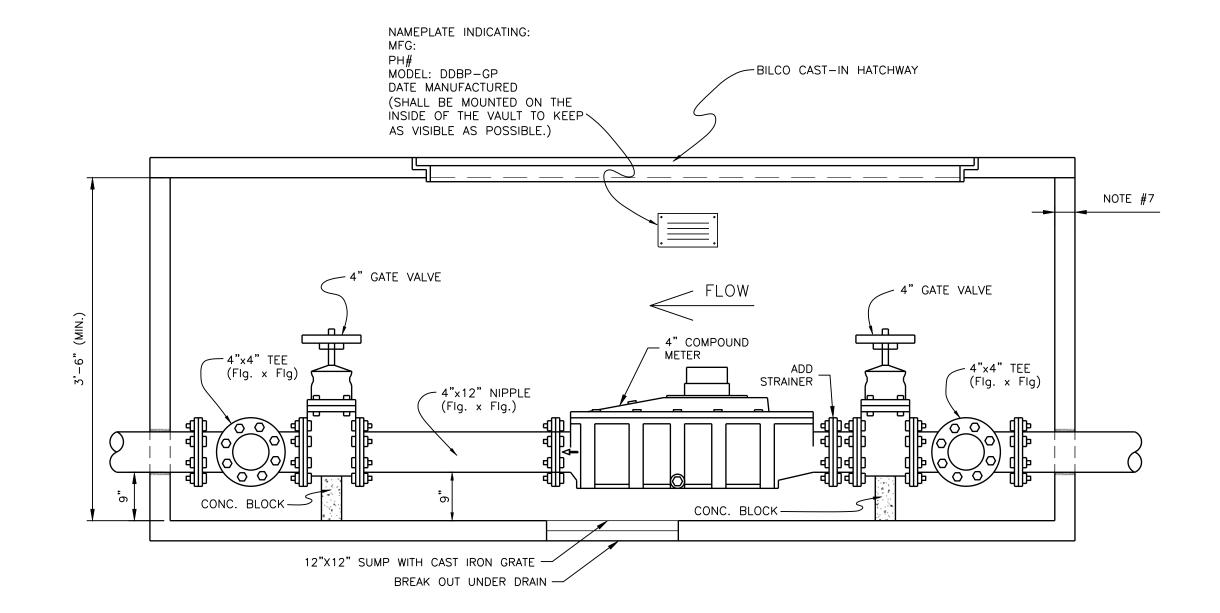


4" COMPOUND WATER METER

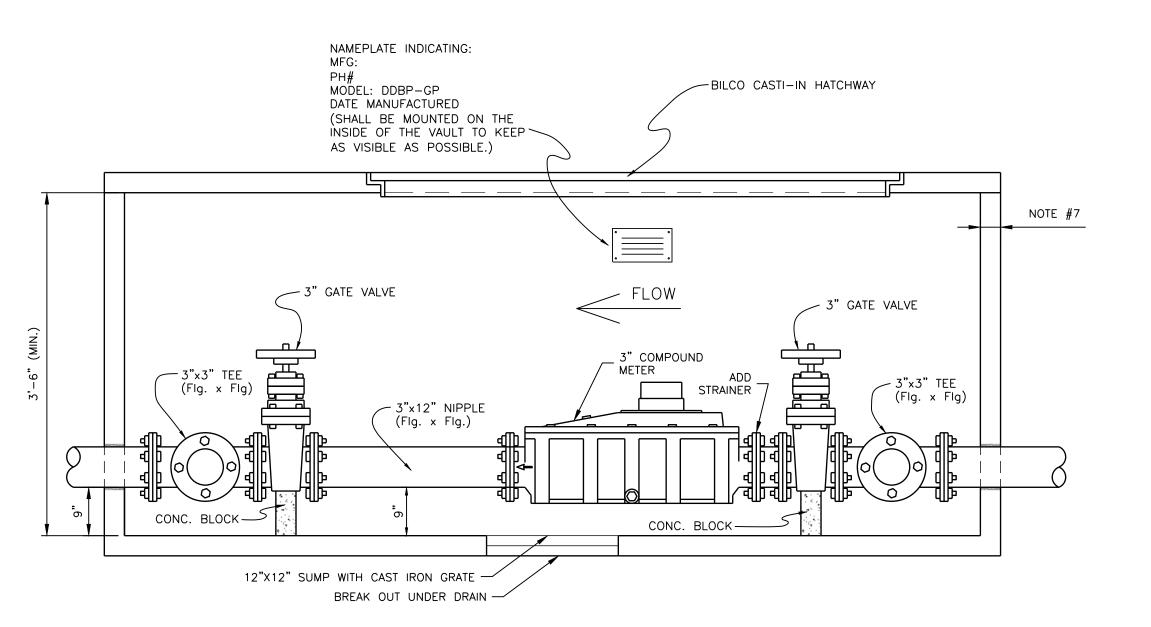
N.T.S.



3" COMPOUND WATER METER



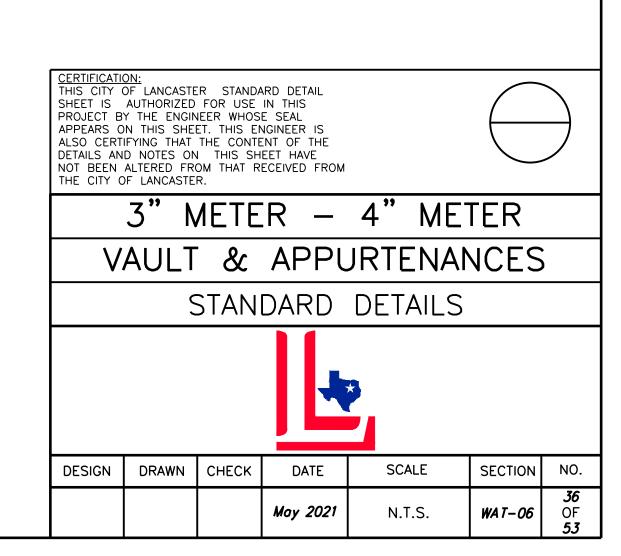
SECTION 'A-A'

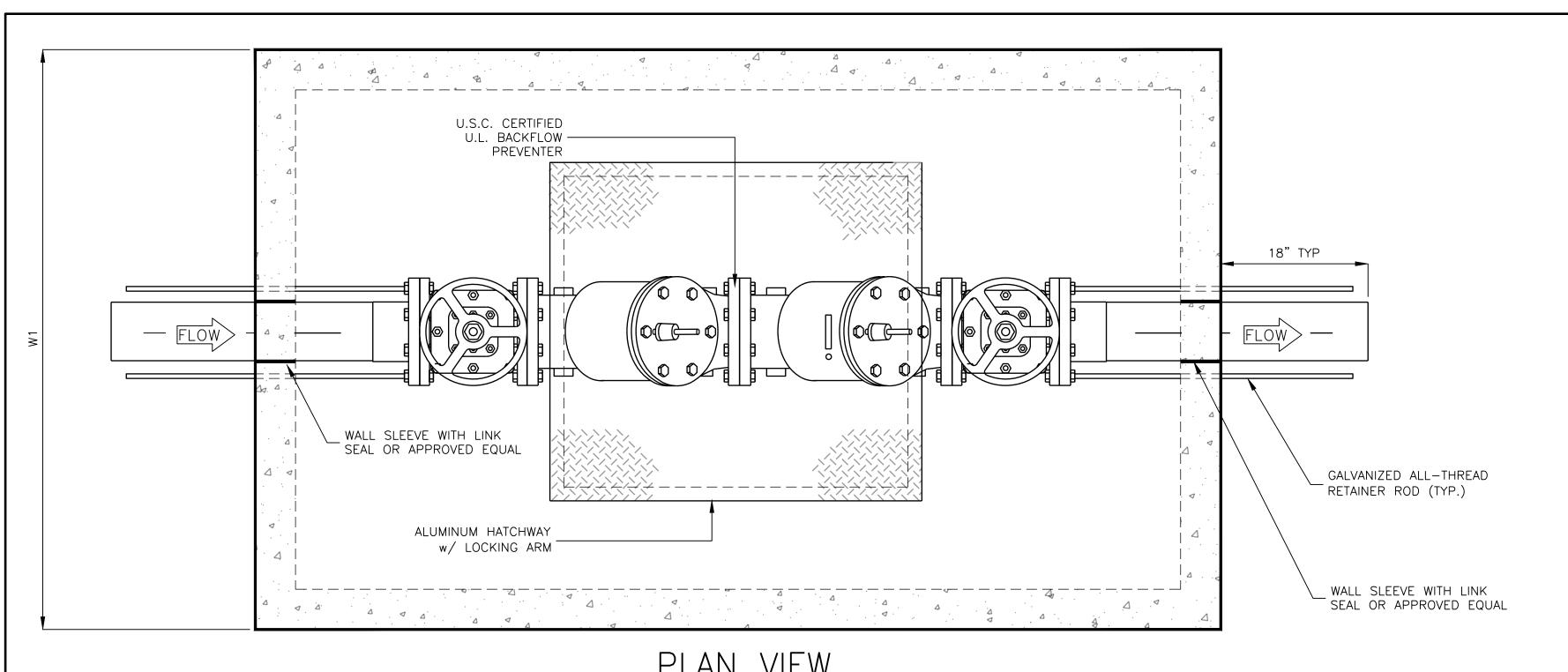


SECTION 'B-B'

#### **GENERAL NOTE**

- 1. MASTER METER DBC METER OR APPROVED EQUAL. ALL METERS MUST BE OUTFITTED WITH ITRON 60WP OR 60W ERT'S WITH INLINE CONNECTOR. ERT MUST BE MOUNTED JUST UNDER VAULT LID FOR DRIVE—BY READING.
- 2. THE METER VAULT CAN BE EITHER POURED IN PLACE OR PRE-CAST. ALL WALLS, EITHER POURED IN PLACE OR PRE-CAST, SHALL BE MONOLITHIC POUR. NO SEAMS OR EXTENSIONS WILL BE ALLOWED. CONCRETE SHALL BE 5000 PSI AT 28 DAYS. REINFORCEMENT IS GRADE 60 STEEK REBER CONFORMING TO ASTM 4615
- 3. A 6" ROCK SHALL BE INSTALLED UNDER THE SLAB. IF A PRE-FABRICATED VAULT TO BE USED, A LAYER OF RAM-NEX SHALL BE INSTALLED BETWEEN THE WALLS AND BOTTOM SLAB.
- 4. THE VAULT SHALL NOT BE INSTALLED IN ANY DRIVEWAY OF PARKING AREA AND MUST BE LOCATED IN A UTILITY EASEMENT DEDICATED TO THE CITY OF LANCASTER.
- 5. THE VAULT LID SHALL BE BILCO TYPE Q-4A L LEAF LID. ANGLE FRAME IS 1/4" ALUMINUM OR STAINLESS STEEL WITH STRAP ANCHORS BOLTED TO THE EXTERIOR. THE LEAF IS 1/4" STEEL DIAMOND PATTERN PLATE, PIVOTING ON TORSION BARS FOR EASY OPERATIONS. THE MINIMUM LIVE LOAD CAPACITY IS 150 LBS.PER SQ.FOOT. THE LID SIZE SHALL BE 30"X48". THE LID SHALL BE PAINTED WITH 43-38 TNEMEC DIFFUSED ALUMINUM PAINT OR APPROVED EQUAL.
- 6. CONTRACTOR SHALL HAVE THE OPTION TO USE WHEEL VALVE OR HUB VALVE INSIDE METER VAULT.
- 7. THICKNESS OF VAULT WALLS TOP AND BASE MAY VARY AND ARE SPECIFIED BY THE PRECAST VAULT MANUFACTURING COMPANY.





PRECAST CONCRETE LID WITH CAST-IN

ALUMINUM HATCHWAY SHALL BE SPRING

**SPECIFICATIONS** 

CONCRETE:

CONCRETE SHALL BE MINIMUM 4500 PSI AT 28 DAYS, UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER TO

REINFORCEMENT: GRADE 60 REINFORCED. STEEL REBAR

REQUIRED DEPTH.

CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL.

HATCHWAY: 1/4" ALUMINUM DIAMOND PLATE COVER,

WITH 1/4" EXTRUDED ALUMINUM FRAME. HATCH TO BE FURNISHED WITH 316 STAINLESS STEEL SNAP LOCK & BRASS

ENGINEERING DATA: FIELD EXCAVATION AND PREPARATION

SHALL BE COMPLETED PRIOR TO DELIVERY OF ASSEMBLY. USE DIMENSIONAL DATA AS SHOWN. PIPE, VALVES AND FITTINGS OF THE ASSEMBLY ARE APPROVED BY ONE OR MORE OF THE FOLLOWING ASSOCIATIONS:

					ALUMINUM	WEIGHT
MODEL	SIZE	L1	W1	H1	HATCHWAY	LBS
BP-GP3	3"	6'-0"	3'-6"	5'-0	30"×36"	4,000
BP-GP4	4"	6'-0"	3'-6"	5'-0"	30"×36"	4,200
BP-GP6	6"	7'-10"	4'-4"	6'-0"	30"×48"	12,000
BP-GP8	8"	8'-8"	5'-0"	6'-0"	30"x48"	15,000
BP-GP10	10"	9'-0"	6'-0"	6'-6"	36"×60"	18,000

**GENERAL NOTES:** 

- (A) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE CITY OF LANCASTER, WHICH HAS ALSO ADOPTED THE FOURTH EDITION OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION — NORTH CENTRAL TEXAS" HEREIN REFERRED TO AS "N.C.T.C.O.G." SPECIFICATIONS. COPIES MAY BE OBTAINED FROM THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, 616 SIX FLAGS DRIVE, SUITE 200, ARLINGTON, TEXAS 76005-5888. (817)640-3300. THESE SPECIFICATIONS ARE ALSO AVAILABLE AT WWW.PUBLICWORKS.DFWINFO.COM
- (B) PLEASE ALSO REFER TO N.C.T.C.O.G. ITEM 502 SPECIFICATIONS. (C) THE ASSEMBLY SHALL MEET THE BASIC REQUIREMENTS OF ASCE 1048 FOR DOUBLE CHECK VALVES AND MEET REQUIREMENTS OF AWWA, CSA, UL CLASSIFIED, FM APPROVED. ASSEMBLY SHALL ALSO BE APPROVED BY THE FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH AT
- THE UNIVERSITY OF SOUTHERN CALIFORNIA. (D) ALL DETAILS AND SPECIFICATIONS SHOWN ON THIS SHEET WILL GOVERN FOR THE INSTALLATION OF THE ASSEMBLY.

(A) THE VAULT SHALL BE LOCATED ON THE OWNER'S PROPERTY AND NOT WITHIN CITY RIGHT-OF-WAY OR EASEMENT.

(B) THE OWNER AT HIS OPTION AND THE APPROVAL OF THE CITY OF LANCASTER MAY BE PERMITTED TO INSTALL THE DOUBLE CHECK VALVE ASSEMBLY INSIDE THE BUILDING. THE INSTALLATION WOULD BE REQUIRED TO BE PERMITTED WITH THE BUILDING INSPECTION DEPARTMENT AND WILL BE INSPECTED BY THE BUILDING INSPECTION DEPARTMENT. THE FIRE DEPARTMENT CONNECTION IS TO BE LOCATED IN ACCORDANCE WITH THE CURRENT FIRE CODE. FIRE DEPARTMENT CONNECTION SHALL BE WITHIN 6 FT. OF CURB, UNOBSTRUCTED AND IN CLEAR VIEW. WATER UTILITY PERSONNEL TO HAVE ACCESS DURING NORMAL BUSINESS HOURS.

- (A) THE VAULT CAN BE EITHER POURED IN PLACE OR PRE-CAST. (B) THE VAULT SHALL BE PLACED ON 8" CRUSHED LIMESTONE AND THE VAULT SHALL HAVE A SUMP WITH A MINIMUM OF A 12" X 12" GRATE IN THE BOTTOM OF THE VAULT FOR DRAIN PURPOSES.
- (C) CONCRETE SHALL BE A MINIMUM 6.5 SACK, WITH 4500 P.S.I. AT 28 DAYS. (D) UNIT IS TO BE OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER TO REQUIRED DEPTH.
- (E) REINFORCEMENT SHALL BE GRADE 60 STEEL REBAR CONFORMING TO ASTM A-615 ON REQUIRED CENTERS OR EQUAL.
- (F) (F) HATCHWAY SHALL BE 1/4" ALUMINUM DIAMOND PLATE COVER WITH EXTRUDED ALUMINUM FRAME. HATCH TO BE FURNISHED WITH 316 STAINLESS STEEL SNAP LOCK AND BRASS HINGES.

#### PERMIT AND INSPECTION:

- (A) THE INSTALLATION OF THE CHECK VALVES AND VAULT SHALL BE PERMITTED AND INSPECTED BY THE PUBLIC WORKS DEPARTMENT OF THE CITY OF LANCASTER. THE APPLICANT WILL BE REQUIRED TO PAY A PERMIT FEE AND OBTAIN A MAINTENANCE BOND PER THE UNIFIED DEVELOPMENT CODE (UDC), ARTICLE 22, FOR TWO (2) YEARS FROM DATE OF ACCEPTANCE OF INSTALLATION.
- (B) THE INSTALLATION OF THE CHECK VALVES BE PERMITTED AND INSPECTED BY THE ENVIRONMENTAL SERVICES DEPARTMENT OF THE CITY OF LANCASTER THE APPLICANT WILL BE REQUIRED TO PAY AN
- INSPECTION FEE OF \$100.00 PER DEVICE. (C) THE PIPE LINE FROM THE CHECK VALVE VAULT TO THE BUILDING SHALL BE PERMITTED AND INSPECTED BY THE BUILDING INSPECTION DIVISION OF THE CITY OF LANCASTER.

- (A) THE DOUBLE CHECK VALVE ASSEMBLY SHALL CONSIST OF A SINGLE COMPLETE ASSEMBLY CONTAINING TWO INDEPENDENT ACTING CHECK VALVES AND FOUR PROPERLY PLACED RESILIENT TEST COCKS FOR TEST OF THE ASSEMBLY. ASSEMBLY SHALL ALSO INCLUDE TWO (2) U.L. LISTED RESILIENT SEATED OS & Y SHUTOFF VALVES AND TEST COCKS.
- (B) UNIT SHALL BE UL/FM APPROVED WITH UL/FM APPROVED OS & Y SHUTOFF VALVES.
- (C) OS & Y VALVES SHALL BE MUELLER, WATEROUS, KENNEDY OR AN APPROVED EQUAL. (D) THE BACKFLOW PREVENTER SHALL HAVE A EPOXY COATED CAST IRON BODY, EPOXY COATED DUCTILE IRON BODY OR STAINLESS STEEL BODY WITH REPLACEMENT BRONZE SEATS AND/OR A UNITIZED
- STAINLESS AND PLASTIC CHECK ASSEMBLY. (E) THE DOUBLE CHECK DETECTOR BACKFLOW PREVENTER ASSEMBLY SHALL BE A WATTS SERIES 709 DCDA OSYRW, AMES MODEL 3000 SS OR FEBCO MODEL 856 OR AN APPROVED EQUAL.
- (F) 4" WAFER CHECK VALVES SHALL BE KENNEDY, RELIABLE MODEL DW, MUELLER A 2102 OR NBCO W-900W OR AN APPROVED EQUAL.

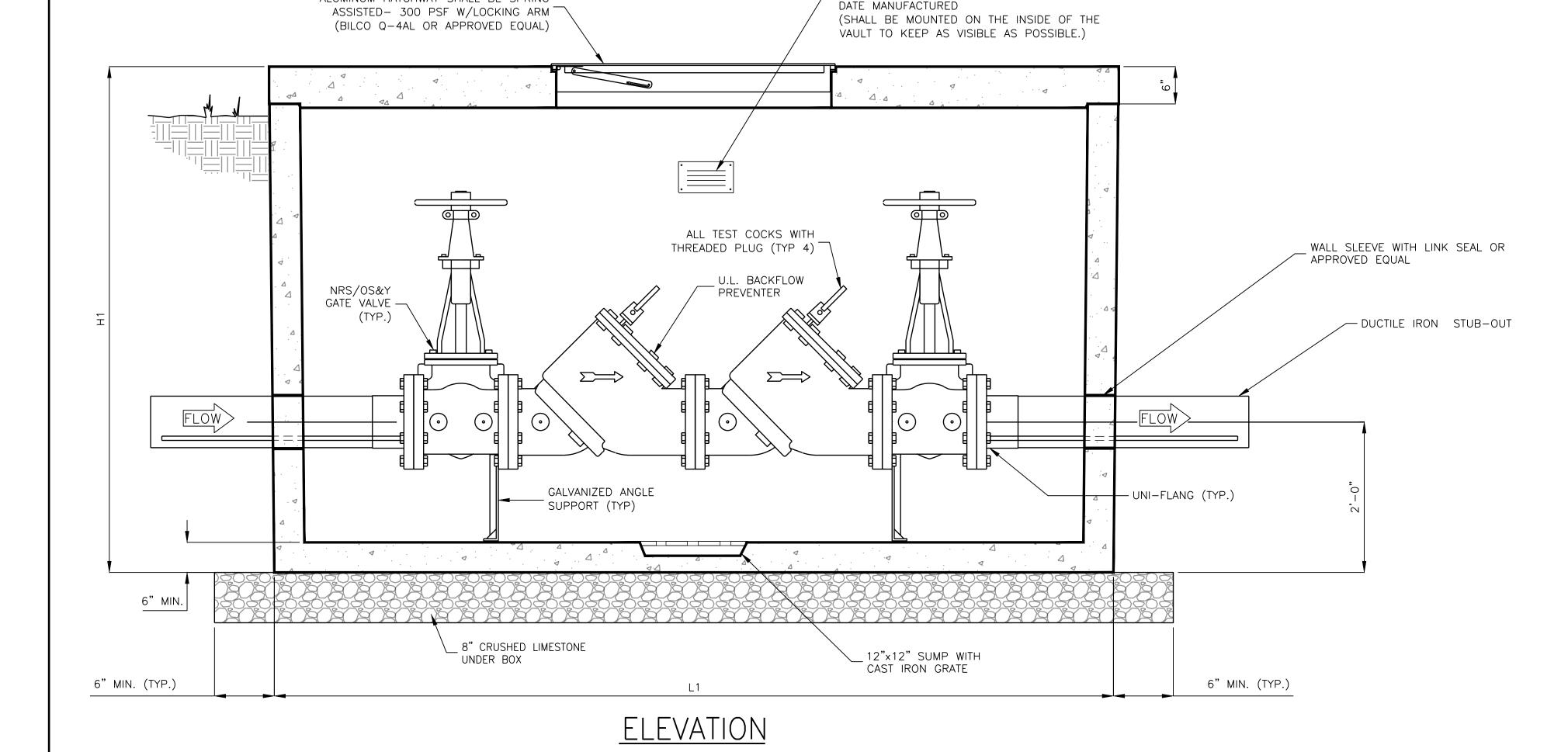
- (A) THE UNIFORM PLUMBING CODE REQUIRES THAT THIS ASSEMBLY MUST BE TESTED IMMEDIATELY UPON INSTALLATION. COPIES OF THE TEST REPORT MUST BE FORWARDED TO THE CITY OF LANCASTER FIRE MARSHAL'S OFFICE.
- (B) UPON INSTALLATION AND APPROVED OF FIRE SPRINKLER LINE/FIRE DEPARTMENT CONNECTION, THE OWNER SHALL BE REQUIRED TO SUBMIT AN ANNUAL TEST REPORT FROM A REPUTABLE TESTING COMPANY STATING THAT THE CHECK VALVES ARE IN GOOD WORKING CONDITION. THESE TEST REPORTS SHALL BE SUBMITTED TO THE CITY OF LANCASTER FIRE MARSHAL'S OFFICE. THE TESTING OF BACKFLOW PREVENTER ASSEMBLIES WHICH ARE INSTALLED TO PROVIDE PROTECTION AGAINST HEALTH HAZARDS ARE TO BE COMPLETED BY CERTIFIED FIRELINE TESTERS THAT ARE QUALIFIED TO TEST AND REPAIR BACKFLOW PREVENTER ASSEMBLIES ON FIRE LINES ONLY.

MAINTENANCE:
THE MAINTENANCE OF THE DOUBLE CHECK VALVE ASSEMBLY SHALL BE BY THE PROPERTY OWNER.

MATERIAL: USE UNIVERSITY OF SOUTHERN CALIFORNIA (U.S.C.)APPROVED DEVICE. (WWW.USC.EDU/DEPT/FCCCHR/LIST.HTML)

CERTIFICATION:
THIS CITY OF LANCASTER STANDARD DETAIL
SHEET IS AUTHORIZED FOR USE IN THIS

NOTE: CHECK VALVES SMALLER THAN 3" WILL NOT REQUIRE A VAULT.

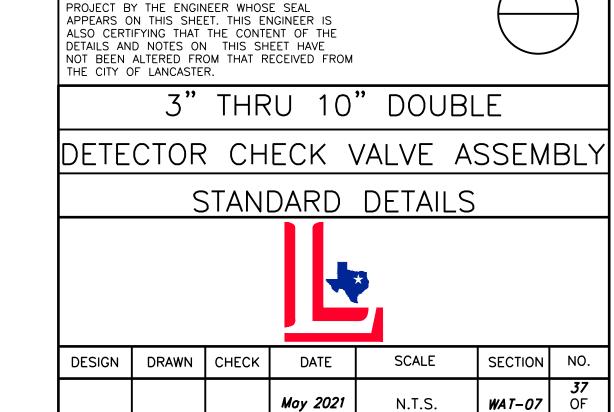


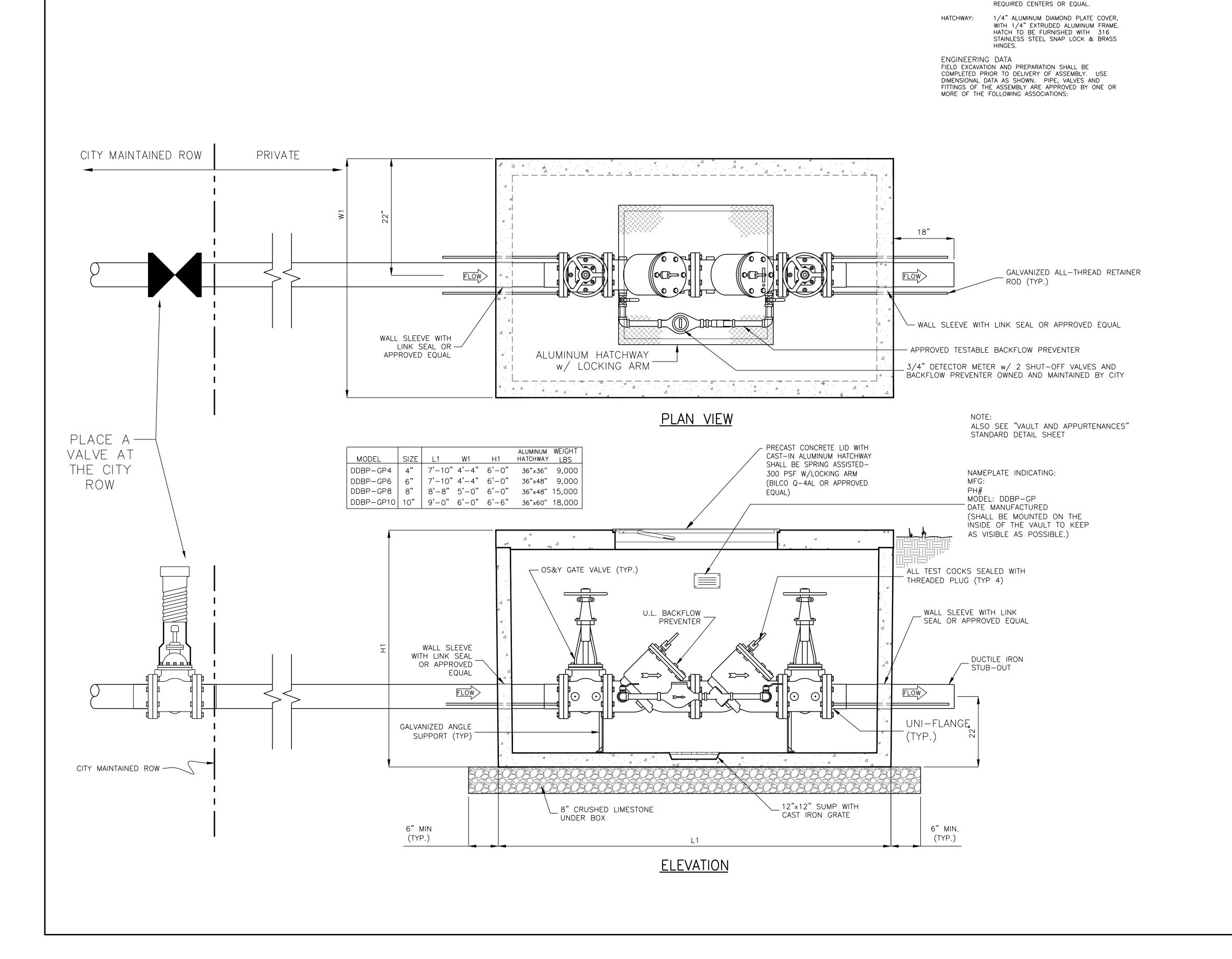
NAMEPLATE INDICATING:

- MODEL: DDBP-GP

MFG:

NOTE: ALSO SEE "VAULT AND APPURTENANCES" STANDARD DETAIL SHEET





#### **GENERAL NOTES:**

SPECIFICATIONS

CONCRETE SHALL BE MINIMUM 4500 PSI

AT 28 DAYS. UNIT IS OF MONOLITHIC

STAGE OF WALL WITH SECTIONAL RISER

CONSTRUCTION AT FLOOR AND FIRST

CONFORMING TO ASTM A615 ON

TO REQUIRED DEPTH.

REINFORCEMENT: GRADE 60 REINFORCED STEEL REBAR

(A) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE CITY OF LANCASTER. WHICH HAS ALSO ADOPTED THE FOURTH EDITION OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - NORTH CENTRAL TEXAS" HEREIN REFERRED TO AS "N.C.T.C.O.G." SPECIFICATIONS. COPIES MAY BE OBTAINED FROM THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, 616 SIX FLAGS DRIVE, SUITE 200, ARLINGTON, TEXAS 76005-5888. (817) 640-3300. THESE SPECIFICATIONS ARE ALSO AVAILABLE AT WWW.PUBLICWORKS.DFWINFO.COM

(B) PLEASE ALSO REFER TO N.C.T.C.O.G. ITEM 502 SPECIFICATIONS.

- (C) THE ASSEMBLY SHALL MEET THE BASIC REQUIREMENTS OF ASCE 1048 FOR DOUBLE CHECK VALVES AND MEET REQUIREMENTS OF AWWA, CSA, UL CLASSIFIED, FM APPROVED. ASSEMBLY SHALL ALSO BE APPROVED BY THE FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH AT THE UNIVERSITY OF SOUTHERN
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- (E) REINFORCEMENT SHALL BE GRADE 60 STEEL REBAR CONFORMING TO ASTM A-615 ON REQUIRED CENTERS OR
- (F) HATCHWAY SHALL BE 1/4" ALUMINUM DIAMOND PLATE COVER WITH EXTRUDED ALUMINUM FRAME. HATCH TO BE FURNISHED WITH 316 STAINLESS STEEL SNAP LOCK AND BRASS HINGES.

#### PERMIT AND INSPECTION:

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- (B) THE INSTALLATION OF THE CHECK VALVES SHALL BE PERMITTED AND INSPECTED BY THE ENVIRONMENTAL SERVICES DEPARTMENT OF THE CITY OF LANCASTER THE APPLICANT WILL BE REQUIRED TO PAY AN INSPECTION FEE OF \$100.00 PER DEVICE.
- (C) THE PIPE LINE FROM THE CHECK VALVE VAULT TO THE BUILDING SHALL BE PERMITTED AND INSPECTED BY THE BUILDING INSPECTION DIVISION OF THE CITY OF LANCASTER.

(A) THE DOUBLE CHECK DETECTOR ASSEMBLY SHALL CONSIST OF A SINGLE COMPLETE ASSEMBLY CONTAINING TWO INDEPENDENT ACTING CHECK VALVES AND FOUR PROPERLY PLACED RESILIENT TEST COCKS FOR TEST OF THE ASSEMBLY. ASSEMBLY SHALL ALSO INCLUDE TWO (2) U.L. LISTED RESILIENT SEATED OS & Y SHUTOFF VALVES AND TEST COCKS.

- (B) UNIT SHALL BE UL/FM APPROVED WITH UL/FM APPROVED OS & Y SHUTOFF VALVES.
- (C) OS & Y VALVES SHALL BE MUELLER, WATEROUS, KENNEDY OR AN APPROVED EQUAL. (D) THE AUXILIARY LINE SHALL CONSIST OF AN APPROVED BACKFLOW PREVENTER (DOUBLE CHECK ASSEMBLY
- COMPLETED WITH TEST COCKS) AND A 5/8" X 3/4" WATER METER.
- (E) THE BYPASS AUXILIARY LINE SHALL HAVE A DOUBLE CHECK ASSEMBLY, WATTS SERIES 007, AMES 2000 SS BV OR FEBCO 805 Y OR AN APPROVED EQUAL.
- (F) THE BYPASS AUXILIARY LINE 5/8" X 3/4" METER SHALL BE HERSEY, NEPTUNE OR BADGER. (G) THE BACKFLOW PREVENTER SHALL HAVE A EPOXY COATED CAST IRON BODY, EPOXY COATED DUCTILE IRON BODY OR STAINLESS STEEL BODY WITH REPLACEMENT BRONZE SEATS AND/OR A UNITIZED STAINLESS AND PLASTIC
- CHECK ASSEMBLY. (H) THE DOUBLE CHECK DETECTOR BACKFLOW PREVENTER ASSEMBLY SHALL BE A WATTS SERIES 709 DCDA OSYRW,
- AMES MODEL 3000 SS OR FEBCO MODEL 856 OR AN APPROVED EQUAL. (I) 4" WAFER CHECK VALVES SHALL BE KENNEDY, RELIABLE MODEL DW, MUELLER A 2102 OR NBCO W-900W OR AN APPROVED EQUAL.

(A) THE UNIFORM PLUMBING CODE REQUIRES THAT THIS ASSEMBLY MUST BE TESTED IMMEDIATELY UPON INSTALLATION. COPIES OF THE TEST REPORT MUST BE FORWARDED TO THE CITY OF LANCASTER FIRE MARSHAL'S OFFICE.

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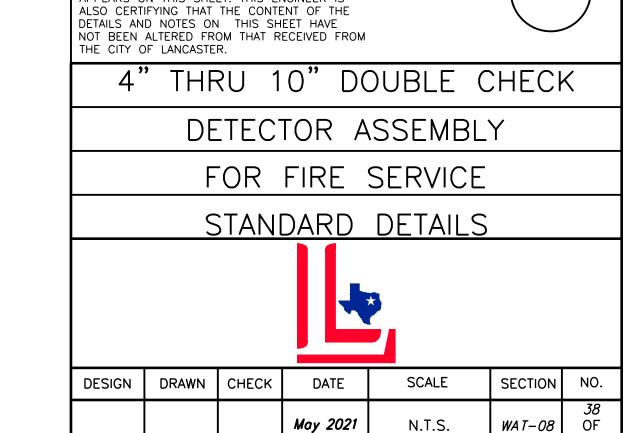
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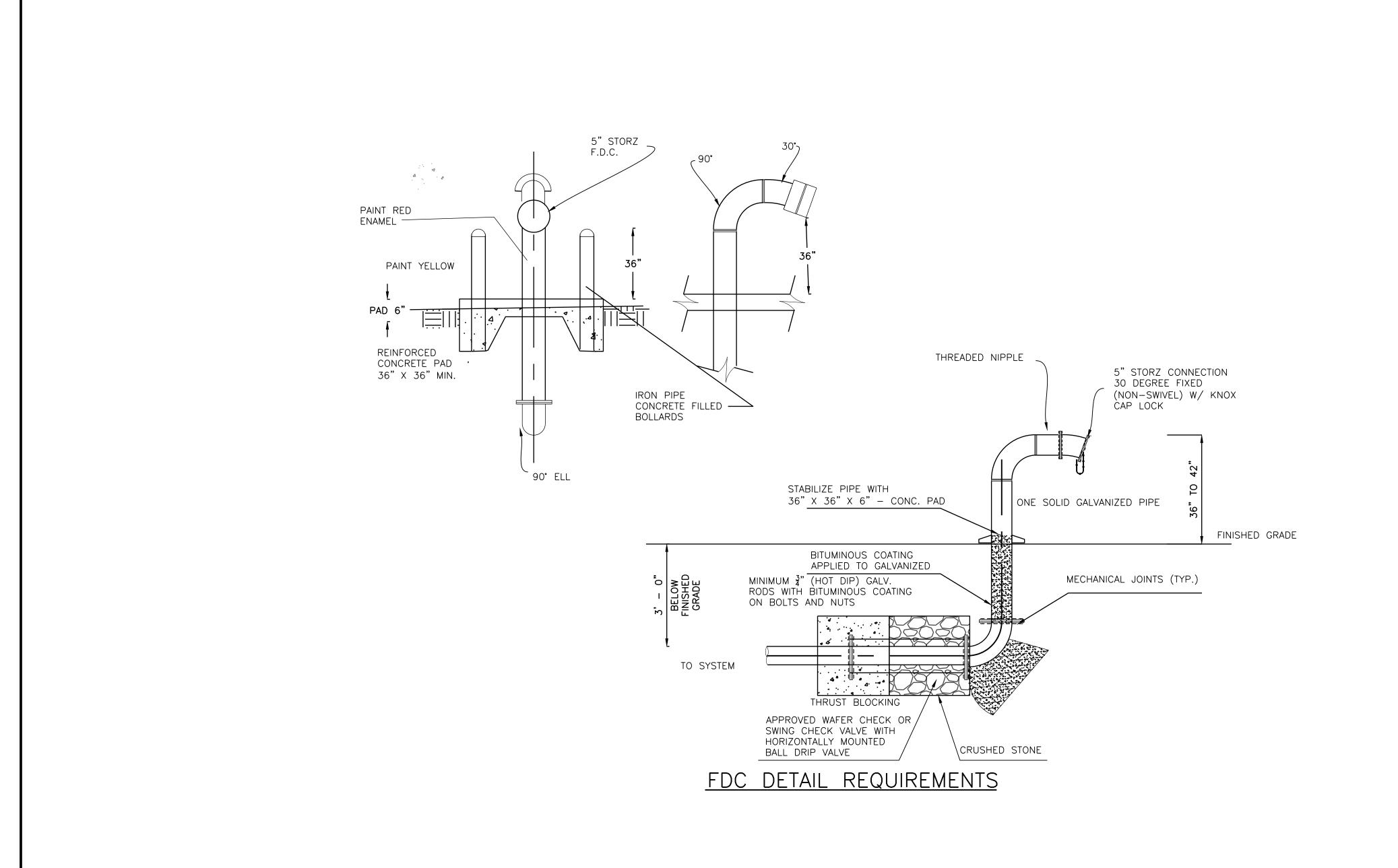
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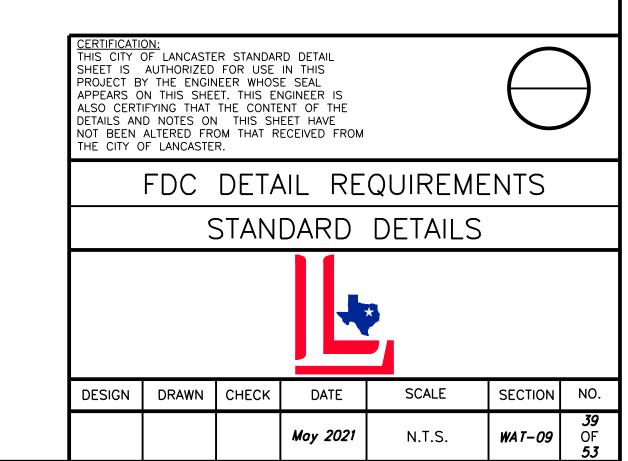
CERTIFICATION:
THIS CITY OF LANCASTER STANDARD DETAIL

SHEET IS AUTHORIZED FOR USE IN THIS

PROJECT BY THE ENGINEER WHOSE SEAL APPEARS ON THIS SHEET. THIS ENGINEER IS

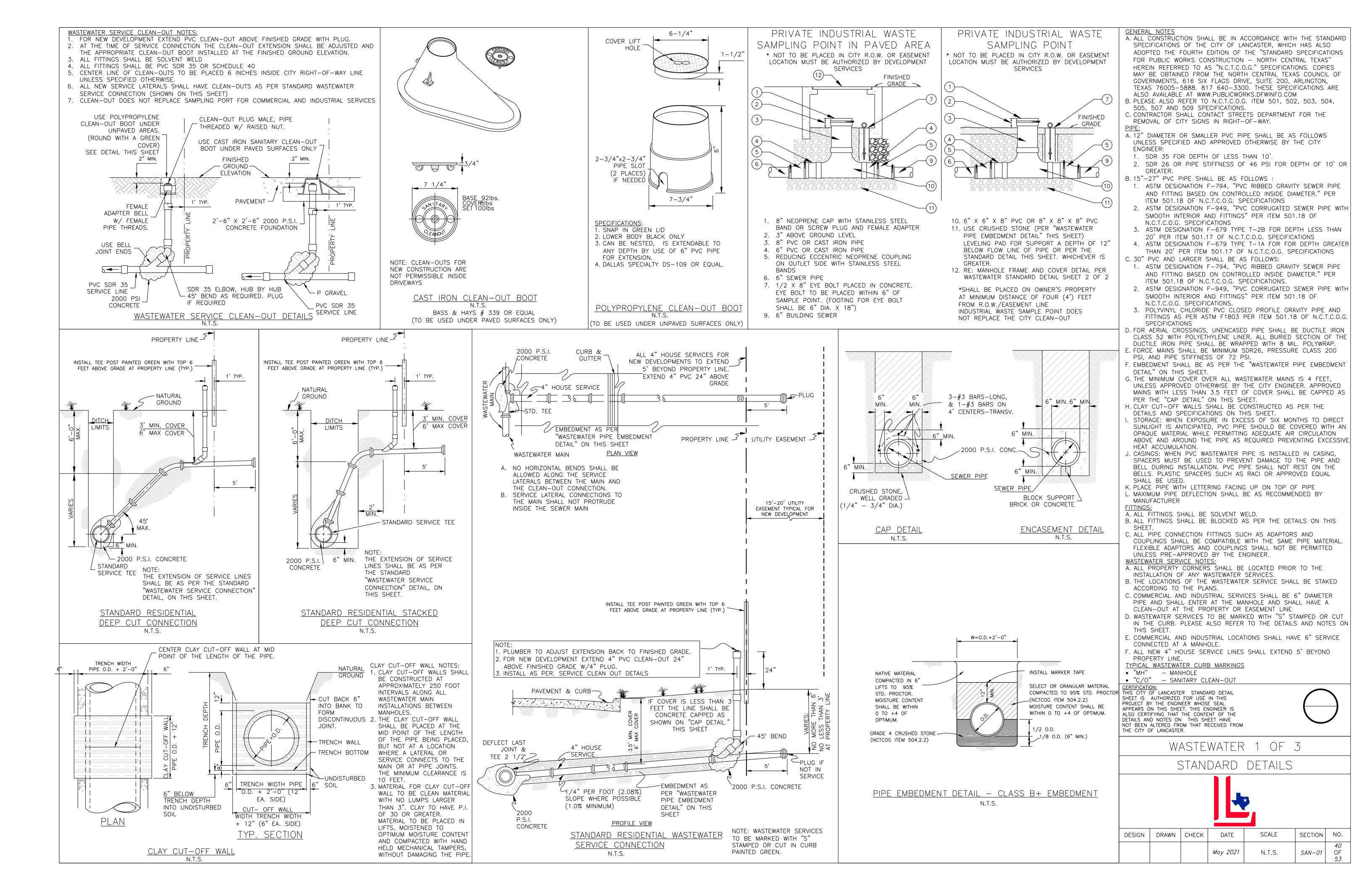


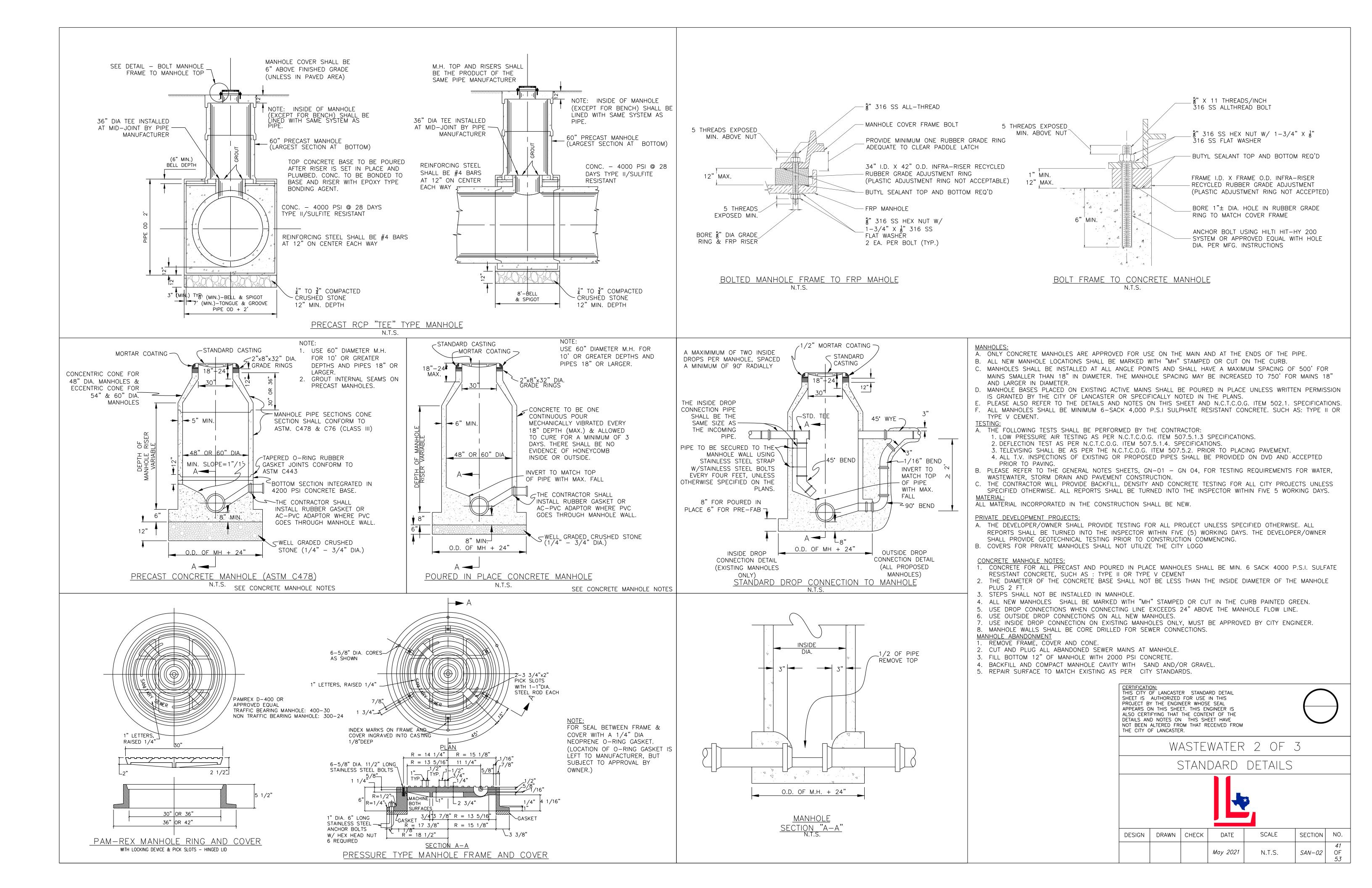


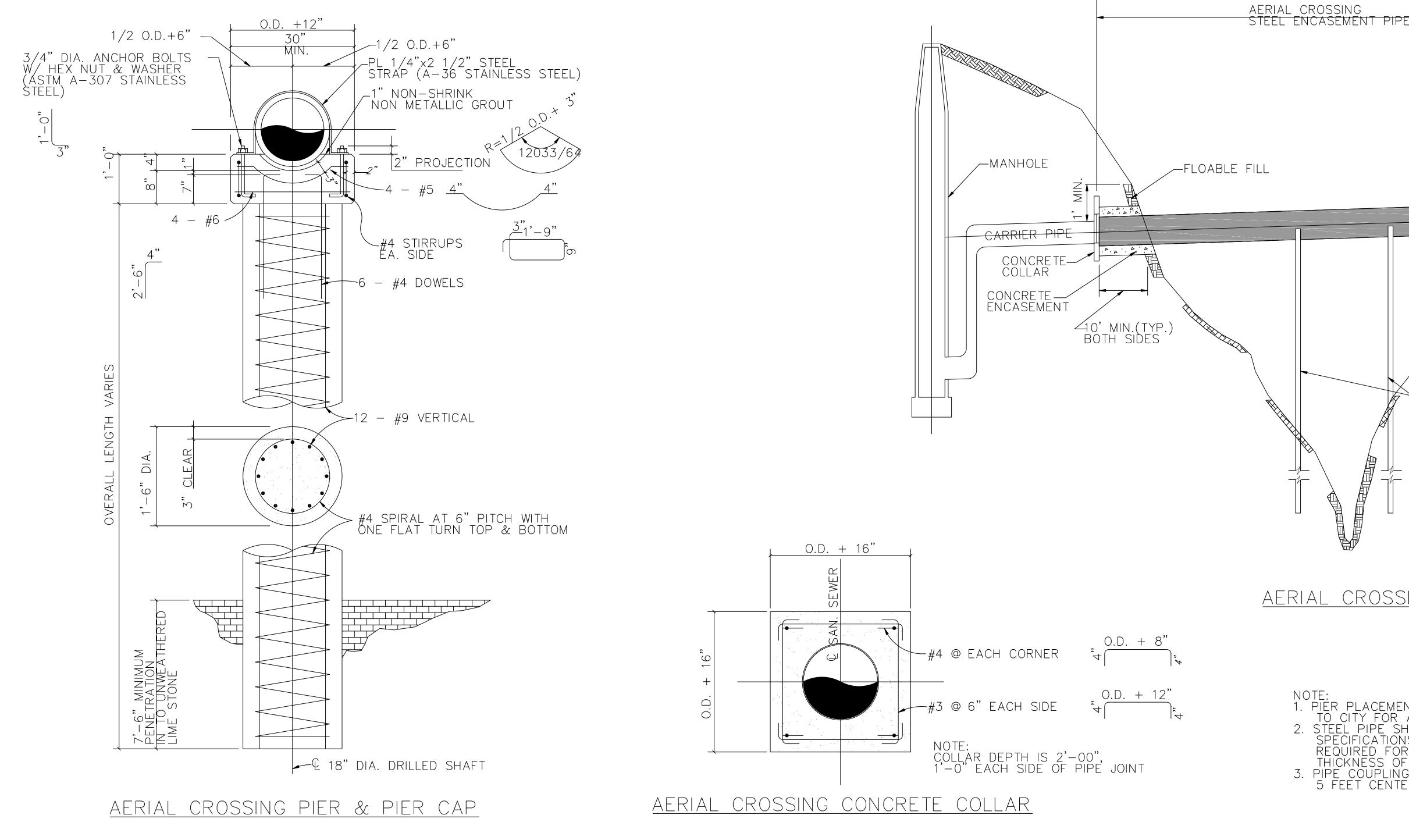


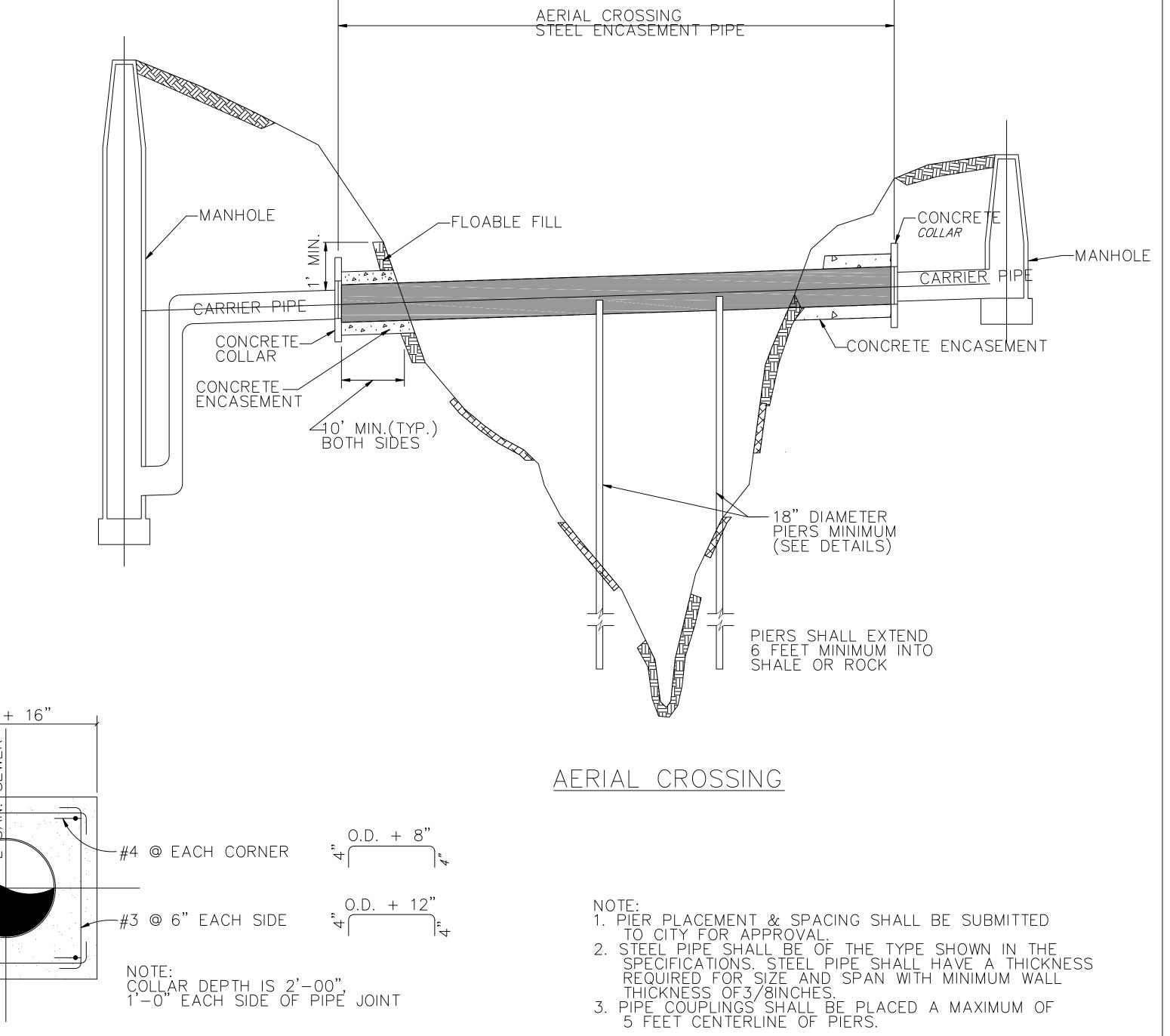
May 2021

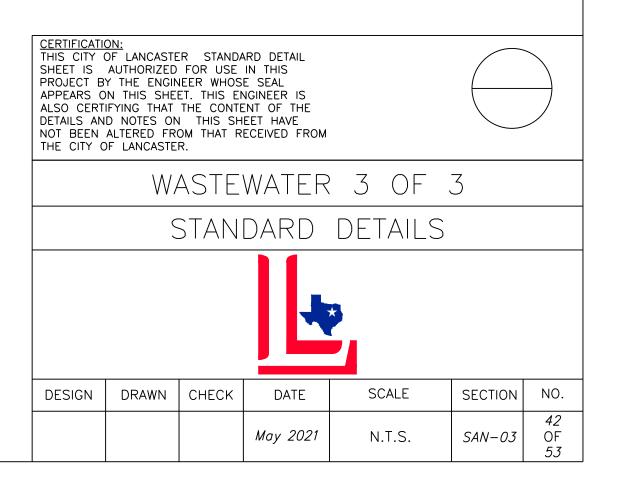
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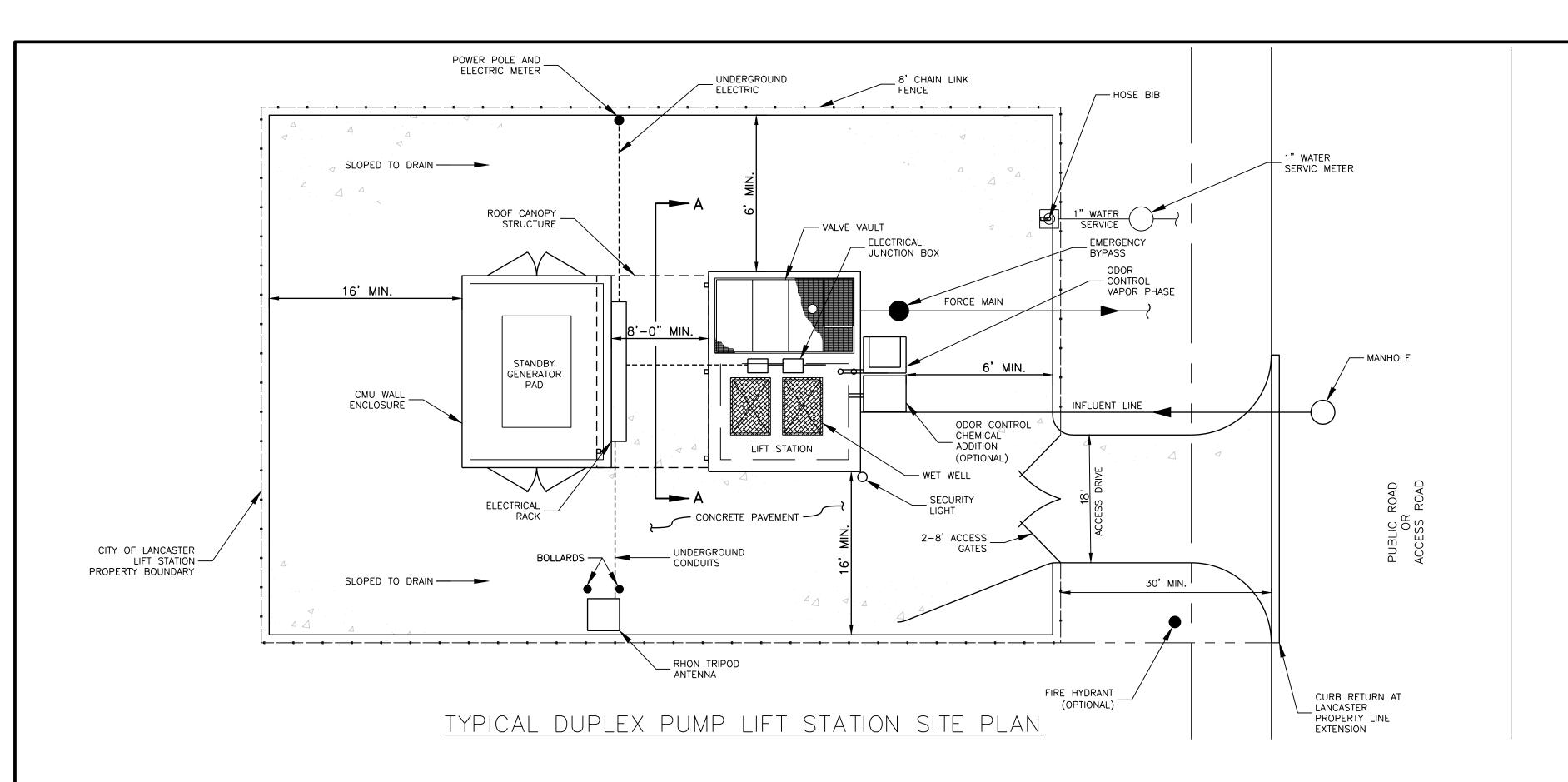












— METAL ROOF FINISH GRADE NOTE: CANOPY LIGHTS SHALL BE DAMP LOCATION RATED LED OR SECTION A-A APPROVED EQUAL typical canopy detaii BYPASS PIPING STACKED VALVE BOX WITH LID PAINTED GREEN, WITH 3" (MIN.) FLUSH TO FINISHED QUICK COUPLING WITH CAP - CHECK VALVE AND BOX POLY COATED RESILIENT SEATED GATE VALVE W/ -2" OPERATING NUT FORCE MAIN FLOW DIRECTION ----

ALL SPECS SHALL COMPLY WITH THE CITY OF LANCASTER CONSTRUCTION STANDARDS. A COPY MAY BE OBTAINED FROM THE CITY OF LANCASTER WATER UTILITIES. ALL WASTEWATER LIFT STATIONS SHALL BE DESIGNED IN ACCORDANCE WITH 30 TAC §217.59-63.

THE FOLLOWING ARE REQUIRED FOR LIFT STATIONS DEDICATED FOR MAINTENANCE AND OWNERSHIP AND OPERATIONS BY THE PUBLIC WORKS DEPARTMENT:

- THE DEVELOPER/OWNER SHALL HAVE PROPERTY FOR THE STATION SITE DEDICATED TO THE CITY FEE SIMPLE PRIOR TO ACCEPTANCE.
- 2. THE DEVELOPER SHALL ESTABLISH AND MAINTAIN PERMANENT POWER PRIOR TO
- THE CONTRACTOR/DEVELOPER SHALL CONTACT THE ENGINEERING DEPT. FOR THE PREFERRED SERVICE PROVIDER PRIOR TO ESTABLISHING ELECTRICAL SERVICE ACCOUNT. SCADA SPECS (CONTACT CITY SCADA CONTRACTOR FOR ADDITIONAL SPECS AND PROGRAMING): SCADA PACK 357.
- ALL I/O WILL HAVE FUSED LINK ON BUSS BAR PROPERLY MARKED FOR INPUT/OUTPUT.
- ALL CABINETS ARE REQUIRED TO HAVE COPY OF COMPLETE WIRE DIAGRAM TO INCLUDE WIRE SIZE AND ANY OPERATION MANUALS FOR ALL EQUIPMENT INSTALLED IN A SEALED WATER PROOF CONTAINER. (INCLUDING RELAYS, FUSES, POWER SUPPLIES, SWITCHES AND
- BATTERY BACK UP (A STANDARD 2 HR RUN TIME FOR SCADA).
- FREEWAVE RADIO MODEL # FGR2-CE-U. FREEWAVE YAGI ANTENNA, 4 ELEMENT, 8DBI PART #EAN096YA.
- RADIO MOUNTING BRACKET.
- RADIO POWER ADAPTER.
- SIEMENS SITRANS LR200 EXPLOSION PROOF LEVEL INDICATOR.
- 10. ALL PROGRAMING TO BE DONE BY CURRENT CITY SCADA CONTRACTOR. 11. BACKUP FLOAT SYSTEM WITH RELAYS AND LOW LEVEL OVERRIDE SWITCH
- 12. HOA SWITCH AND RUN INDICATION LIGHT FOR EACH PUMP. 13. CLIMATE CONTROL FAN ON TOP AND BOTTOM OF PANEL MOUNTED IN SIDE WALL WITH
- RAIN GUARD. 14. COM FAILURE.
- 15. POWER FAILURE RELAY 230AC/24DC.
- 16. INTRUDER DETECTION ON HATCH DOORS AND PANEL DOORS.
- 17. ANTENNA AND CONTROL PANELS MUST BE GROUNDED TO GROUND ROD WITH COPPER
- 18. ALL SITES REQUIRE TOSHIBA VFD (SIZE TO BE DETERMINED BY PUMP SIZE) UNLESS OTHERWISE APPROVED BY THE CITY.
- 19. ALL VFD'S WILL HAVE OPERATION MANUALS AND ALL ACCESSORIES FOR FULL INTEGRATION 20. ALL PUMPS MUST HAVE ENGINEERS STAMPED PLANS SHOWING THEY WILL BE COMPATIBLE
- FOR STATION AND FLOWS. 21. ALL PANELS WILL HAVE ENGINEERS STAMP ON PLANS. AND MUST BE PRE-APPROVED BY THE CITY BEFORE INSTALLATION.
- 22. ANY PANELS OR SPECS NOT FOLLOWED WILL BE CHANGED TO MEET THE CITY OF LANCASTER'S WATER UTILITIES SPECS AT THE CONTRACTORS COST. 23. ANTENNA HEIGHT SHOULD BE PRE-APPROVED BY THE CITY BEFORE INSTALLATION AND
- SHALL BE MOUNTED ON RHON TRI-POD ANTENNA MAST. **CONCRETE SPECS:**
- 1. DRIVEWAY MINIMUM REQUIREMENTS SHALL BE AS FOLLOWS:
  - **RESIDENTIAL:** • 16' WIDE, 6" THICK 4000 PSI REINFORCED CONCRETE WITH #4 BARS 24" OC • EXPANSION JOINTS SHALL BE PLACED EVERY 12', AT RADIUS POINTS, BETWEEN

DRIVEWAY APPROACH AND STREET AND AT DRIVEWAY/CONCRETE PAD AROUND

- WET-WELL. THE DRIVEWAY SHALL NOT BE INTEGRAL WITH PAVING ON-SITE, THE WET WELL OR VALVE PIT STRUCTURES.
- DRIVEWAY APPROACH SHALL BE 22'-6" WIDE AT STREET.
- COMMERCIAL/INDUSTRIAL:
- DRIVEWAY REQUIREMENTS SHALL CONFORM TO CITY'S UNIFIED DEVELOPMENT CODE (UDC) AND /OR STREETS DEPARTMENT REQUIREMENTS.

- 2. A CONCRETE PAD SHALL SURROUND THE WET WELL AND VALVE VAULT ACCORDING TO THE FOLLOWING SPECIFICATIONS:
- CONCRETE PAD SHALL BE 6" THICK.
- CONCRETE PAD SURFACE ELEVATION SHALL BE 1" ABOVE THE SURROUNDING FINISHED.
- CONCRETE PAD SHALL EXTEND A MINIMUM OF 4' AROUND WET WELL AND VALVE
- A 3'X3' ACCESS HATCH WITH SAFETY GRATE SHALL BE PROVIDED FOR EACH PUMP/ VALVE VAULT FOR ALL CONCRETE PAVING AND DRIVEWAY SPECIFICATIONS PLEASE REFER TO CITY OF
- LANCASTER STANDARD DETAILS. ALL ACCESS DRIVEWAYS OR ROADS INCLUDING LIFT STATIONS SHALL BE CONSTRUCTED INSIDE DEDICATED CITY EASEMENT OR RIGHT-OF-WAY.

- 1. FENCE SHALL BE 8' VINYL COATED STEEL CHAIN LINK FENCING WITH TOP RAIL. MESH FENCING FABRIC- POLYVINYL CHLORIDE EXTRUDED OVER AND FUSED COATED STEEL CHAIN LINK FABRIC SHALL BE FURNISHED IN ACCORDANCE WITH ASTM F-669, TYPE 2A. THE CORE WIRE AND BREAK LOAD WILL DETERMINE THE GAUGE OF THE WIRE. THE STEEL CORE WIRE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM-A641-71A. THE COLOR SHALL BE BLACK. MESH SIZE 2" WITH 9 GAUGE WIRE.
- FRAMING- ALL STEEL PARTS SHALL BE HOT DIPPED GALVANIZED PER ASTM. ROUND POST SHALL BE MANUFACTURED FROM STEEL CONFORMING TO ASTM A569 OR ASTM A446, COLD ROLLED, WELDED AND HAVE A MINIMUM YIELD STRENGTH OF 50,000 PSI, GIVEN CORROSION PROTECTION BY AN EXTERIOR TRIPLE COATING CONSISTING OF ZINC APPLIED BEFORE OR AFTER WELDING, CHROMATE CONVERSION AND CLEAR POLYMER OVERCOAT. 4" CORNER AND GATE POSTS, 2 3/8" LINE POSTS.
- 5. THE INSIDE SURFACE SHALL BE GIVEN CORROSION PROTECTION. THE INTERNAL COATING SHALL BE APPLIED BEFORE OR AFTER WELDING AND SHALL PROTECT THE METAL FROM CORROSION WHEN SUBJECTED TO THE SALT SPRAY TEST OF ASTM B117 FOR 300 HOURS WITH THE END POINT OF 5% RED RUST.
- POST SHALL BE OF SUFFICIENT LENGTH TO ALLOW FOR INSTALLATION TO A DEPTH OF APPROXIMATELY 3' BELOW GROUND LEVEL. EACH POST SHALL HAVE A POST TOP SO DESIGNED AS TO EXCLUDE MOISTURE FROM THE POST.
- 7. TOP RAIL FENCE SHALL HAVE A CONTINUOUS 1-5/8" O.D. TOP RAIL. THE TOP RAIL SHALL PASS THROUGH OPENINGS PROVIDED IN THE LINE POST TOP. EACH LENGTH SHALL BE COUPLED WITH AN OUTSIDE SLEEVE, 6" LONG. THE CHAIN LINK FABRIC SHALL BE ATTACHED TO THE TOP RAIL BY MEANS OF A 13[.091"] GAUGE VINYL COATED TIE WIRE, DOUBLE WRAPPED, AT INTERVALS OF APPROXIMATELY 24".
- TENSION BAR- FABRIC SHALL BE HELD IN PLACE AT ALL TERMINAL POSTS BY MEANS OF A METAL VINYL COATED TENSION BAR NOT LESS 3/16" X 3/4" AND NOT LESS THAN THE FABRIC HEIGHT. THE TENSION BAR SHALL BE ATTACHED TO THE POSTS BY MEANS OF CLIPS AT INTERVALS NOT TO EXCEED 15".
- 9. WHERE PIPE POSTS ARE USED, POWDER COATED TENSION BANDS NOT TO EXCEED INTERVALS OF 15" SHALL BE USED. ATTACHMENT BOLTS FOR BANDS SHALL BE 5/16"X 1-1/2" GALVANIZED CARRIAGE BOLTS WITH NUTS. BOLTS AND NUTS SHALL BE FIELD PAINTED TO MATCH VINYL COLOR. ONE TENSION BAR SHALL BE PROVIDED FOR EACH END GATEPOST AND TWO FOR EACH CORNER.
- 10. ALTERNATE CONSTRUCTION FOR FENCE MATERIALS PRE-APPROVED BY CITY PRIOR TO INSTALLATION.

- EIGHT (8') TALL DOUBLE SWING VINYL-COATED GATES WITH 16' OPENING.
- GATE FRAMES SHALL BE CONSTRUCTED OF 2" ROUND GALVANIZED MEMBER WEIGHING 2.60LBS./LF. GALVANIZED MEMBERS WILL BE VINYL COATED. ALL FRAMES SHALL BE WELDED TO FORM A RIGID PANEL. INTERNAL BRACING, WHEN REQUIRED, SHALL BE 1-1/4" ROUND.
- 3. THE FABRIC SHALL BE ATTACHED TO THE FRAME ON ALL SIDES BY MEANS OF HOOK BOLTS AND TENSION RODS.
- GATES SHALL BE EQUIPPED WITH GALVANIZED STEEL HINGES, LATCH, DROP BAR AND GATE HOLD BACKS. POSTS SHALL BE SUFFICIENT LENGTH TO ALLOW FOR DEPTH OF APPROXIMATELY 3'
- BELOW GROUND LEVEL. TWO TIE BACK VINYL COATED POLES TO BE LOCATED AT THE OPEN SWING POSITION OF 2 3/8" POSTS. TIE BACK POLES TO HAVE TOP PAINTED TO MATCH VINYL FENCING.

7. SLEEVE FOR CENTER LATCH DEVICE SHALL BE INSTALLED INTO GROUND.

#### SECURITY LIGHT:

- 4"X6" SECURITY LIGHT WITH DUSK TILL DAWN LIGHT ELEMENT.
- 120 VOLT. MUST BE GROUNDED TO GROUND ROD WITH COPPER WIRE.
- 4. MUST BE MOUNTED ON A GALVANIZED 4" ROUND POLE 16' IN TOTAL LENGTH WITH 12'
- ABOVE GROUND 5. MUST BE LED

#### CONDUIT:

- ALL CONDUITS AND FITTINGS MUST BE NEW.
- ALL CONDUITS AND FITTINGS SHALL BE WEATHER PROOF. ALL CONDUITS AND FITTINGS MUST BE RIGID STEEL AND CONFORM IN RESPECTS TO ANSI
- C80.1 AND UNDERWRITERS' LABORATORIES SAFETY STANDARD #6. 4. ALL CONDUITS AND BOXES MUST BE GROUNDED TO AN 8' COPPER GROUND ROD IN A METAL BOX MARKED GROUND ROD. WIRE SIZE TO BE BASED ON AMERICAN WIRE GAUGE (AWG) CONDUCTORS, HARD, MEDIUM-HARD, OR SOFT ASTM B3 AND B8 RESPECTIVELY.

#### CHECK VALVES:

- MUST BE IN VAULT SEPARATE AND SEALED FROM WET WELL.
- INSTALL VAULT WITH HATCH AND NEW CHECK VALVES. HATCH DOOR SHALL BE AT LEAST 3'X3' GALVANIZED SPRING OPEN WITH BILCO KEY LOCK 4. ALL VALVES MUST BE SWING GATE CHECK VALVES WITH INDICATOR ARM.

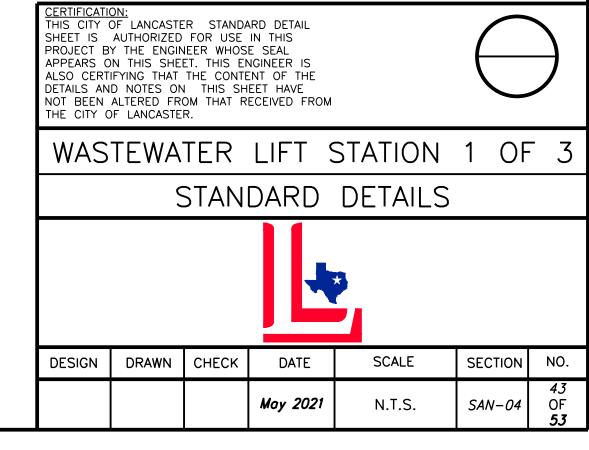
### BYPASS:

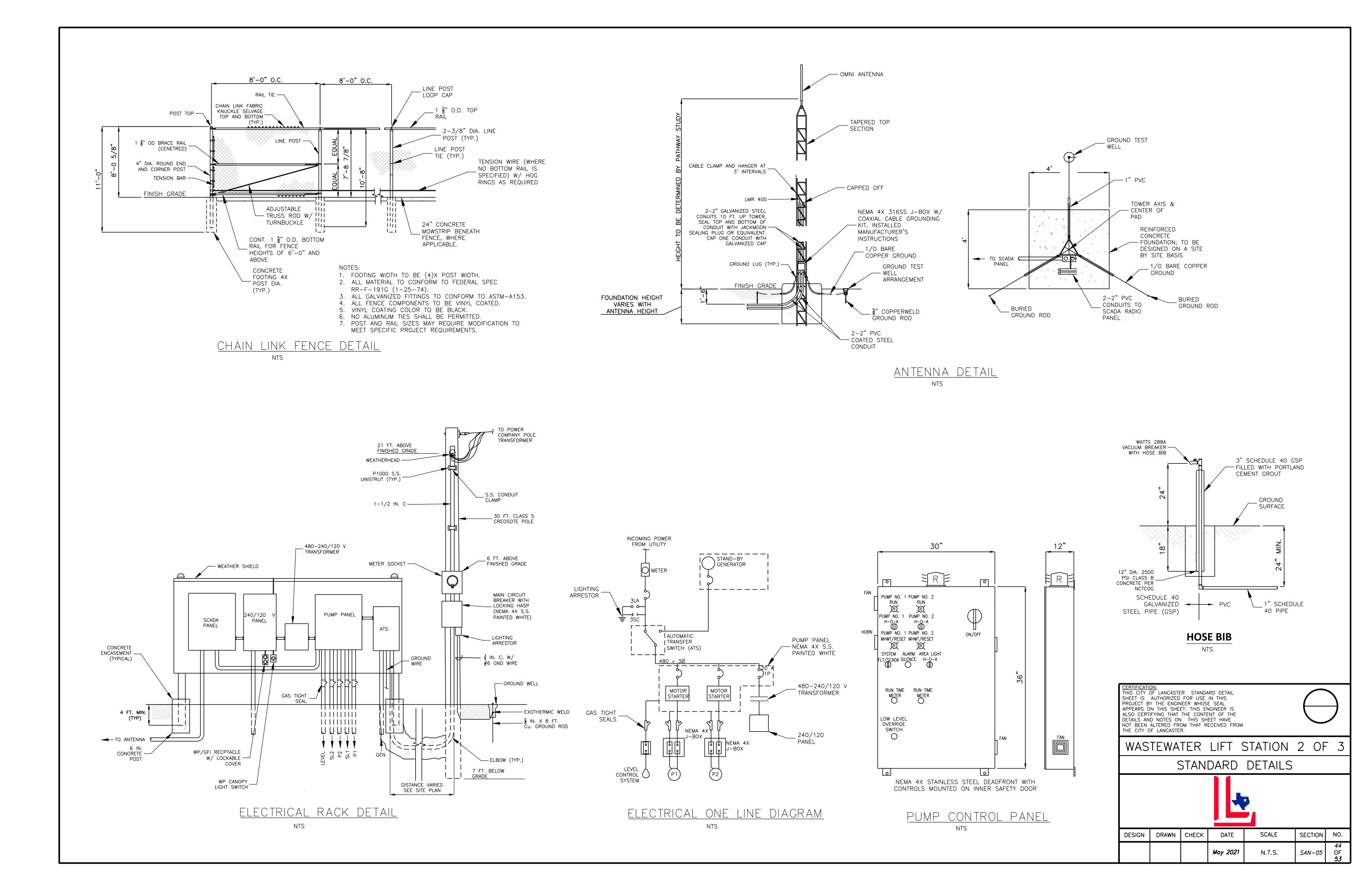
- 1. BYPASS SHOULD PROTRUDE FROM GROUND 1.5' AND HAVE 3" QUICK CONNECT COUPLING
- 2. BYPASS SHUTOFF VALVE SHOULD BE POLY COATED RESILIENT SEAT GATE VALVE WITH 2" OPERATING NUT AND VALVE STACK AND LID AT GROUND LEVEL PAINTED GREEN.

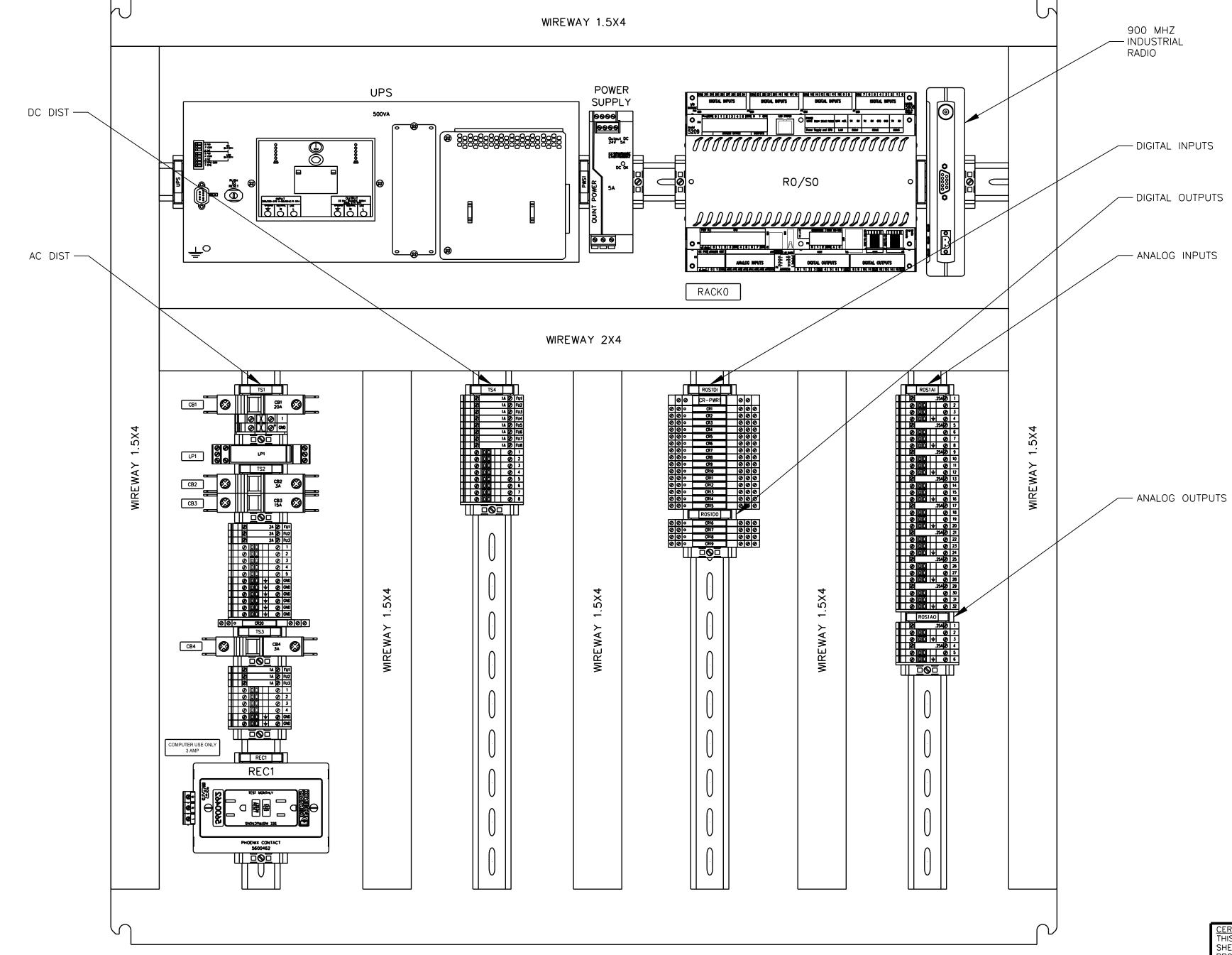
### PROJECT DESCRIPTION:

- CONTRACTOR IS RESPONSIBLE FOR DURING AND AFTER JOB CLEANLINESS.
- A FINAL WALK THRU AND CHECK LIST WILL BE COMPLETED AT END OF JOB. 1. A FINAL TEST RUN WILL BE DONE DURING WALK THRU AND MUST BE ACCEPTED BEFORE FINALIZATION OF JOB.
- 1. PUMPS SHALL BE HYDROMATIC, ABS, OR FLYGHT UNLESS APPROVED BY THE CITY.

EMERGENCY BYPASS DETAIL







#### LIFT STATION INPUTS\OUTPUTS (IOS)

#### ANALOG

1. WET WELL LEVEL 2.FLOW METER

# <u>DIGITAL</u>

- 1. PUMP #1 START/STOP
- 2. PUMP #1 RUNNING
- 3. PUMP #2 START/STOP
- 4. PUMP #2 RUNNING
- 5. PUMP #3 START/STOP
- 6. PUMP #3 RUNNING
- 7. HIGH LEVEL ALARM8. FLOAT CONTROLS ON
- 9. COMMUNICATIONS FAIL

#### STANDBY GENERATOR / AUTOMATIC TRANSFER SWITCH

- 1. COMMERCIAL POWER FAIL
- 2. GENERATOR RUNNING3. TRANSFER SWITCH POSITION
- 4. GENERATOR FAIL TO START
- 5. LOW OIL PRESSURE
- 6. HIGH COOLANT TEMPERATURE

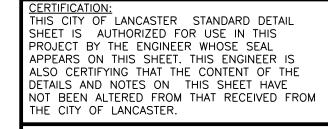
### <u>SECURITY</u>

- 1. HATCH DOOR
- 2. PUMP PANEL DOOR
- 3. SCADA PANEL DOOR4. ATS DOOR

### NOTES

- 1. ENCLOSURE SHALL BE NEMA 4X, 316 STAINLESS STEEL 36"X36"X12" MINIMUM SIZE, WITH PADLOCKING HANDLE.
- 2. ALL I/O'S WILL HAVE FUSED LINK ON BUSS BAR PROPERLY
- MARKÉD FOR INPUT/OUTPUT.

  3. ALL CONNECTIONS SHALL BE LANDED ON TERMINAL BLOCKS.
- 4. A COPY OF THE COMPLETE WIRING DIAGRAM AND OPERATIONAL MANUALS FOR ALL EQUIPMENT LOCATED IN THE PANEL SHALL BE PLACED IN A SEALED WATERPROOF CONTAINER AND PLACED IN THE ENCLOSURE DOOR.





STANDARD DETAILS



DESIGN DRAWN CHECK DATE SCALE SECTION NO.

May 2021 N.T.S. SAN-06 OF

GENERAL NOTES:

- 1. ALL EROSION CONTROL DEVICES SHOWN ON THE PLANS RELEASE FOR CONSTRUCTION SHALL BE INSTALLED IN ACCORDANCE WITH THE SWP3 SEQUENCING PRIOR TO COMMENCING ANY EARTH DISTURBING ACTIVITIES.
- 2. EROSION CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED IN COMPLIANCE WITH THE PROJECT PLANS, CITY STORMWATER ORDINANCE AND/OR SWP3 AND CONSTRICTION GENERAL PERMIT.
- 3. CONTRACTOR(S) SHALL COMPLY WITH THE SQW3 AS SPECIFIED, INCLUDING INSTALLING, MAINTAINING, AND REMOVING ALL TEMPORARY CONTROL MEASURES.
- 4. CONTRACTOR(S) SHALL CONDUCT AND DOCUMENT WEEKLY SWP3
  INSPECTIONS AND INSPECTION AFTER A HALF INCH (0.5") RAIN EVENT
  IF BMP'S AND CONTROL MEASURES AND REVISE THE SWP3 WITHIN
  SEVEN(7) CALENDAR DAYS FOLLOWING THE INSPECTION
- SEVEN(7) CALENDAR DAYS FOLLOWING THE INSPECTION.

  5. HAY PRODUCTS, ORGANIC OR OTHER TYPES ARE NOT ACCEPTED FOR USE AS BMP'S WITHIN THE CITY OF LANCASTER.
- 6. DUST CONTROL SHALL BE UTILIZED ON A REGULAR BASIS DURING DRY CONDITIONS OR AS WEATHER DICTATES THE NEED.
- 7. CURB CUT-BACKS SHALL NOT BE PERMITTED FOR THE PURPOSE OF
- 8. CURB CUT-BACKS FOR THE PURPOSE OF DRIVEWAY INSTALLATION WILL
  BE ALLOWED FOR A PERIOD NOT TO EXCEED 72 HOURS (MAXIMUM)
  PRIOR TO POURING CONCRETE. BACKFILLING AREAS SHALL BE
- PERFORMED WITHIN 48 HOURS (MAXIMUM).

  9. STREETS SHALL BE KEPT FREE FROM MUD, DIRT, OR ANY OTHER CONSTRUCTION TYPE DEBRIS DURING THE CONSTRUCTION OPERATION.
- 10. CONCRETE WASH-OUT AREAS SHALL BE DESIGNED AND MAINTAINED WITH PROPER SIGNAGE/MARKINGS IN COMPLIANCE WITH THE CITY STORMWATER ORDINANCE AND/OR SWP3 AND CONSTRUCTION GENERAL PERMIT
- 11. GRASS SOD SHALL BE REQUIRED FOR STABILIZATION WITH THE CITY RIGHT-OF-WAY. VARIATIONS FOR STABILIZATION IN RIGHT-OF-WAY SHALL BE IN WRITING AND SUBMITTED TO CITY ENGINEER FOR APPROVAL.

STORMWATER POLLUTION PREVENTION PLAN (SWP3) REQUIREMENTS: PRIOR TO ANY EARTH DISTURBING ACTIVIES THE FOLLOWING CONDITIONS NEED TO BE ADDRESSED AND ACCEPTED THROUGH THE CITY OF LANCASTER STORMWATER DEPARTMENT:

- 1. A FULLY EXECUTED SWP3 WILL BE SUBMITTED FOR REVIEW AND ACCEPTED THROUGH THE STORMWATER DEPARTMENT. FULLY EXECUTED MEANS ALL SIGNATURES WILL BE REQUIRED WITH THE SUBMITTAL AND AUTHORIZED IN ACCORDANCE WITH THE 30 TEXAS ADMINISTRATIVE CODE (TAC) SUBCHAPTERS 305.44 & 305.128. THE OWNER OF THE PROJECT AND THE OPERATOR (CONTRACTOR) HIRED BY THE OWNER ARE THE REQUIRED SIGNATURES NEEDED FOR A FULLY EXECUTED SWP3
- 2. LAND DISTURBING ACTIVITIES THAT EQUAL ONE (1) ACRE AND LESS THAN FIVE (5) ACRES ARE REQUIRED BY THE TPDES CONSTRUCTION GENERAL PERMIT AND THE CITY OF LANCASTER (MS4) TO SUBMIT A SWP3. A SIGNED SMALL CONSTRUCTION SITE NOTICE FROM THE OWNER AND THE OPERATOR (CONTRACTOR) OF THE PROJECT SITE WILL ALSO NEED TO BE INCLUDED WITH THE SWP3 SUBMITTAL. THE CONDITIONS DESCRIBED IN ITEM 1 (ABOVE) APPLY TO ALL SWP3 SUBMITTALS.
- 3. LAND DISTURBING ACTIVITIES THAT EQUAL FIVE (5) ACRES OR MORE, OR INCLUDED IN A LARGER PROJECT OR COMMON PLAN OF DEVELOPMENT THAT EQUALS (5) OR MORE ACRES ARE REQUIRED BY THE TPDES CONSTRUCTION GENERAL PERMIT AND THE CITY OF LANCASTER (MS4) TO SUBMIT A SWP3, NOTICE OF INTENT (NOI) AND CONSTRUCTION SITE NOTICE PROVIDED BY THE PRIMARY OPERATOR (CONTRACTOR) AS DEFINED IN THE TPDES CONSTRUCTION GENERAL PERMIT AS HAVING DAY TO DAY OPERATIONAL CONTROL OVER THE SITE. AND IF THERE IS A PRIMARY OPERATOR (OWNER) HAVING CONTROL OVER CONSTRUCTION PLANS OR SPECIFICATIONS. THEY WILL ALSO NEED TO SUBMIT A NOI AND SITE NOTICE AS DEFINED IN THE TPDES CONSTRUCTION GENERAL PERMIT. IF A SECONDARY OPERATOR IS PART OF THIS PLAN AND MEETS THE DEFINITIONS GUIDELINES IN ACCORDANCE WITH THE TPDES CONSTRUCTION GENERAL PERMIT, THEN THEY CAN OR SHOULD FALL UNDER THE PRIMARY OPERATORS NO AND SIGN THE SECONDARY OPERATOR CONSTRUCTION SITE NOTICE.

#### NOTICE OF TERMINATION (NOT) REQUIRED:

EACH OPERATOR THAT HAS SUBMITTED A NOTICE OF INTENT (NOI) FOR AUTHORIZATION UNDER THE CONSTRUCTION GENERAL PERMIT MUST APPLY TO TERMINATE THAT AUTHORIZATION. THE NOT MUST BE SUBMITTED TO TCEQ, AND A COPY OF THE NOT PROVIDED TO THE MS4 RECEIVING THE DISCHARGE (LANCASTER), WITHIN 30 DAYS AFTER ANY OF THE FOLLOWING CONDITIONS ARE MET:

- FINAL STABILIZATION HAS BEEN ACHIEVED AND MEETS THE CONDITIONS
  OF 80% COVERAGE WITH NO LARGE BARE AREAS ON ALL PORTIONS
  OF THE SITE THAT ARE THE RESPONSIBILITY OF THE PERMITEE.
   A TRANSFER OF OPERATION CONTROL HAS OCCURRED, OR
   THE OPERATOR HAS OPPAINED ALTERNATIVE AUTHORIZATION LINDER AND
- THE OPERATOR HAS OBTAINED ALTERNATIVE AUTHORIZATION UNDER AN INDIVIDUAL TPDES PERMIT OR ALTERNATIVE TPDES GENERAL PERMIT.
   FOR SMALL CONSTRUCTION SITES AND SECONDARY OPERATORS THAT FALL UNDER THE PROVISIONS OF THE CONSTRUCTION GENERAL PERMIT,
- FOR SMALL CONSTRUCTION SITES AND SECONDARY OPERATORS THAT FALL UNDER THE PROVISIONS OF THE CONSTRUCTION GENERAL PERMIT, COMPLETE THE APPLICABLE PORTION OF THE SITE NOTICE RELATED TO REMOVAL OF THE SITE NOTICE, AND SUBMIT A COPY OF THE COMPLETED SITE NOTICE TO THE OPERATOR OF THE MS4 (CITY) RECEIVING THE DISCHARGE.

#### VEGETATION MANAGEMENT:

VEGETATION IS USED AS A TEMPORARY OR FINAL STABILIZATION MEASURE FOR AREAS DISTURBED BY CONSTRUCTION. AS A TEMPORARY CONTROL, VEGETATION IS USED TO STABILIZE STOCKPILES, EARTHEN DIKES, AND BARREN AREAS THAT ARE INACTIVE FOR LONGER THAN TWO WEEKS. AS A FINAL CONTROL AT THE END OF CONSTRUCTION, GRASSES AND OTHER VEGETATION PROVIDE GOOD PROTECTION FROM EROSION ALONG WITH SOME FILTERING FOR OVERLAND RUNOFF.

### TEMPORARY VEGETATION:

THE FOLLOWING TABLE LISTS RECOMMENDED PLANT SPECIES FOR THE NORTH CENTRAL TEXAS REGION DEPENDING ON THE SEASON FOR

PLANTING.

AREAS RECEIVING TEMPORARY SEEDING AND VEGETATION SHALL BE LANDSCAPED, RE-SEEDED OR SODDED WITH PERENNIAL SPECIES TO

#### RECOMMENDED GRASS MIXTURE FOR TEMPORARY VEGETATION

ESTABLISH FINAL VEGETATION AT THE END OF CONSTRUCTION.

SEASON	COMMON	PURE LIVE SEE RATE (LBS/ACRE)
SEPT 1-NOV 30	TALL FESCUE WESTERN WHEAT GRASS WHEAT (RED,WINTER)	4.5 5.6 34.0
MAY 1-AUG 31	FOXTAIL MILLET	34.0
FEB 15- MAY 31 SEPT 1- DEC 31	ANNUAL RYE	20.0

VEGETATION FOR FINAL STABILIZATION:
SODDING OR SEEDING MAY BE USED TO ESTABLISH VEGETATION FOR FINAL
STABILIZATION OF AREAS DISTURBED BY CONSTRUCTION ACTIVITY. THE
VEGETATION MUST ACHIEVE A COVER THAT IS 80 PERCENT OF THE NATIVE
BACKGROUND VEGETATIVE COVERT TO BE CONSIDERED FINAL STABILIZATION.
GRASS SEED FOR ESTABLISHING FINAL STABILIZATION CAN BE SOWN AT
THE SAME TIME AS SEEDING FOR TEMPORARY (ANNUAL) VEGETATION.
DROUGHT TOLERANT NATIVE VEGETATION IS RECOMMENDED RATHER THAN
EXOTICS AS A LONG-TERM WATER CONSERVATION MEASURE.
FOR CONSTRUCTION ACTIVITIES THAT INCLUDE LANDSCAPING IN THE
DEVELOPMENT PLANS, THE LANDSCAPE ARCHITECT SHOULD BE CONSULTED
WHEN SPECIFYING VEGETATION FOR TEMPORARY OR FINAL STABILIZATION

WHERE VEGETATION IS USED IN SWALES AND CHANNELS IT MAY BE NECESSARY TO USED SOD, RATHER THAN SEEDING, TO ESTABLISH AN EROSION RESISTANT SURFACE THAT ACCOMMODATES RAINFALL RUNOFF FLOWS.

DEBRIS AND TRASH MANAGEMENT:

OF DISTURBED.

DEBRIS AND TRASH MANAGEMENT:

DEBRIS AND TRASH MANAGEMENT IS USED TO MINIMIZE FLOATABLE AND

OTHER WASTES IN STORMWATER. BY CONTROLLING THE TRASH AND DEBRIS

ONSITE, STORMWATER QUALITY IS IMPROVED AND THE NEED FOR EXTENSIVE

CLEAN UP UPON COMPLETING OF THE PROJECT IS REDUCED.

- 1. ALL WASTE SOURCES AND STORAGE ARES SHALL BE LOCATED A MINIMUM OF 50 FEET AWAY FROM INLETS, SWALES, DRAINAGE WAYS, CHANNEL AND OTHER WATERS, IF THE SITE CONFIGURATION PROVIDES SUFFICIENT SPACE TO DO SO. IN NO CASE SHALL MATERIAL AND WASTE SOURCES BE CLOSER THAN 20 FEET FROM INLETS, SWALES, DRAINAGE WAYS, CHANNELS, AND OTHER WATERS.
- 2. CONSTRUCTION WASTE AND TRASH SHALL BE STORED IN A MANNER THAT MINIMIZES ITS EXPOSURE TO PRECIPITATION AND STORMWATER RUNOFF
- 3. DO NOT ALLOW TRASH CONTAINERS TO OVERFLOW. DO NOT ALLOW WASTE MATERIALS TO ACCUMULATE ON THE GROUND.
- POLICE SITE DAILY FOR LITTER AND DEBRIS.
   TRASH AND DEBRIS SHALL BE REMOVED FROM THE SITE AT REGULAR INTERVALS THAT ARE SCHEDULED TO EMPTY CONTAINERS WHEN THEY ARE 90 PERCENT FULL OR MORE FREQUENTLY.
- 6. NO WASTE, TRASH, OR DEBRIS SHALL BE BURIED, BURNED OR OTHERWISE DISPOSED OF ONSITE.
- 7. THE FOLLOWING ARE LISTS DESCRIBING THE TYPE OF TARGETED MATERIALS.

  CONSTRUCTION (AND DEMOLITION) DEBRIS:

DIMENSIONAL LUMBER
MISCELLANEOUS METAL (STUDS, PIPE, CONDUIT, SHEATHING, NAILS,

INSULATION
BRICK AND MORTAR
SHINGLES
ROOFING MATERIALS
GYPSUM BOARD
TRASH:

TRASH:
PAPER AND CARDBOARD (PACKAGING, CONTAINERS, WRAPPERS)
PLASTIC (PACKAGING, BOTTLES, CONTAINERS)
STYROFOAM (CUPS, PACKING, AND FORMS)
FOOD AND BEVERAGE CONTAINERS

DUST CONTROL:

FOOD WASTER

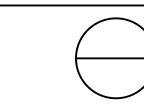
DUST CONTROL.

DUST CONTROL INCLUDED THOSE MEASURE NECESSARY TO PREVENT WIND TRANSPORT OF DUST FROM DISTURBED SOIL SURFACES. DUST CONTROL IS APPLIED IN AREAS SUBJECT TO SURFACE AND AIR MOVEMENT TO DUST WHERE ON-SIRE AND OFF-SITE IMPACTS INCLUDING ROADWAYS DRAINAGE WAYS AND SURFACE WATERS.

- 1. LIMIT DUST GENERATION BY CLEARING ONLY THOSE AREAS WHERE IMMEDIATE ACTIVITY WILL TAKE PLACE, LEAVING THE REMAINING AREA(S) IN THE ORIGINAL CONDITION IF STABLE. MAINTAIN ORIGINAL COVER AS LONG AS PRACTICABLE.
- 2. CONSTRUCT NATURAL OR ARTIFICIAL WINDBREAKS OR WINDSCREENS. VEGETATE AREAS THAT WILL NOTE RECEIVE VEHICULAR TRAFFIC.
- 3. SPRINKLE THE SITE WITH WATER UNTIL DAMPENED SUFFICIENTLY TO PREVENT DUST AND REPEAT AS NECESSARY. DO NOT APPLY WATER IN QUANTITIES TO CAUSE RUNOFF.

County	Planting	Clay Soils		Sandy Soils Species and Pure Live Seed Rat (Lbs/Acre)		
	Date	Species and Pure Live S (Lbs/Acre)	Seed Rate			
Erath		One en On man eleken	0.0	One on Consequents	0.0	
Hood		Green Sprangletop	0.3	Green Sprangletop	0.3	
Johnson	E.L	Sideoats Grama (El Reno)	2.7	Sand Lovegrass	0.5	
Palo Pinto	February 1 –	Bermudagrass (Nation)	0.9	Bermudagrass	1.8	
Parker	May 15	Little Bluestem (Native)	1.0	Weeping Lovegrass (Ermelo)	0.8	
Somervell		Blue Grama (Hachita)	0.9	Sand Dropseed	0.4	
Tarrant Wise		Illinois Bundleflower	1.0	Partridge Peal	1.0	
Collin		Green Sprangletop	0.3	Green Sprangletop	0.3	
Dallas		Bermudagrass	1.2	Bermudagrass	1.8	
Denton	February 1 –	Sideoats Grama (El Reno)	2.7	Weeping Lovegrass (Ermelo)	0.6	
Ellis	May 15	Little Bluestem (Native)	2.0	Sand Lovegrass	0.6	
Kaufman		Buffalograss (Texoka)	1.6	Sand Dropseed	0.4	
Navarro Rockwall		Illinois Bundleflower	1.0	Partridge Pea	1.0	
		Green Sprangletop	0.3	Green Sprangletop	0.3	
		Sideoats Grama (El Reno)	3.2	Bermudagrass	1.5	
Hunt	February 1 –	Bermudagrass	1.8	Bahiagrass (Pensacola)	6.0	
Tiunt	May 15	Little Bluestem (Native)	1.7	Sand Lovegrass	0.6	
		Illinois Bundleflower	1.7	Weeping Lovegrass (Ermelo)	0.8	
				Partridge Pea	1.0	
				ways, Streets and Bridges, Item 164)		
		Grass Mixture for Final Sta Clay Soils	bilization	-		
		Clay Solls		Sandy Soils		
County	Planting	•		0 1 10 11 0	. –	
·	Planting Date	Species and Pure Live S (Lbs/Acre)	Seed Rate	Species and Pure Live Sec (Lbs/Acre)	ed Ra	
Erath Hood	•	Species and Pure Live S (Lbs/Acre)		(Lbs/Acre)		
Erath	Date	Species and Pure Live S (Lbs/Acre)	0.3	(Lbs/Acre)  Green Sprangletop	0.3	
Erath Hood	Date February 1 –	Species and Pure Live S (Lbs/Acre)  Green Sprangletop Sideoats Grama (El Reno)	0.3 3.6	(Lbs/Acre)  Green Sprangletop Sideoats Grama (El Reno)	0.3 3.6	
Erath Hood Johnson Palo Pinto Parker	Date	Species and Pure Live S (Lbs/Acre)	0.3 3.6 2.4	(Lbs/Acre)  Green Sprangletop Sideoats Grama (El Reno) Bermudagrass	0.3 3.6 2.1	
Erath Hood Johnson Palo Pinto Parker Somervell Tarrant Wise	Date February 1 –	Species and Pure Live S (Lbs/Acre)  Green Sprangletop Sideoats Grama (El Reno)	0.3 3.6	(Lbs/Acre)  Green Sprangletop Sideoats Grama (El Reno)	0.3 3.6 2.1	
Erath Hood Johnson Palo Pinto Parker Somervell Tarrant Wise Collin	Date February 1 –	Species and Pure Live S (Lbs/Acre)  Green Sprangletop Sideoats Grama (El Reno) Bermudagrass Buffalograss (Texoka)	0.3 3.6 2.4 1.6	(Lbs/Acre)  Green Sprangletop Sideoats Grama (El Reno) Bermudagrass Sand Dropseed	0.3 3.6 2.1 0.3	
Erath Hood Johnson Palo Pinto Parker Somervell Tarrant Wise Collin Dallas	Date February 1 – May 15	Species and Pure Live S (Lbs/Acre)  Green Sprangletop Sideoats Grama (El Reno) Bermudagrass Buffalograss (Texoka)  Green Sprangletop	0.3 3.6 2.4 1.6	(Lbs/Acre)  Green Sprangletop Sideoats Grama (El Reno) Bermudagrass Sand Dropseed  Green Sprangletop	0.3 3.6 2.1 0.3	
Erath Hood Johnson Palo Pinto Parker Somervell Tarrant Wise Collin Dallas Denton	Pebruary 1 – May 15	Species and Pure Live S (Lbs/Acre)  Green Sprangletop Sideoats Grama (El Reno) Bermudagrass Buffalograss (Texoka)  Green Sprangletop Sideoats Grama (El Reno)	0.3 3.6 2.4 1.6	Green Sprangletop Sideoats Grama (El Reno) Bermudagrass Sand Dropseed  Green Sprangletop Buffalograss (Texoka)	0.3 3.6 2.1 0.3 0.3	
Erath Hood Johnson Palo Pinto Parker Somervell Tarrant Wise Collin Dallas Denton Ellis	Date February 1 – May 15	Species and Pure Live S (Lbs/Acre)  Green Sprangletop Sideoats Grama (El Reno) Bermudagrass Buffalograss (Texoka)  Green Sprangletop Sideoats Grama (El Reno) Buffalograss (Texoka)	0.3 3.6 2.4 1.6	Green Sprangletop Sideoats Grama (El Reno) Bermudagrass Sand Dropseed  Green Sprangletop Buffalograss (Texoka) Bermudagrass	0.3 3.6 2.1 0.3 0.3 1.6 3.6	
Erath Hood Johnson Palo Pinto Parker Somervell Tarrant Wise Collin Dallas Denton Ellis Kaufman Navarro	Pebruary 1 – May 15	Species and Pure Live S (Lbs/Acre)  Green Sprangletop Sideoats Grama (El Reno) Bermudagrass Buffalograss (Texoka)  Green Sprangletop Sideoats Grama (El Reno)	0.3 3.6 2.4 1.6	Green Sprangletop Sideoats Grama (El Reno) Bermudagrass Sand Dropseed  Green Sprangletop Buffalograss (Texoka)	0.3 3.6 2.1 0.3 0.3 1.6 3.6	
Erath Hood Johnson Palo Pinto Parker Somervell Tarrant Wise Collin Dallas Denton Ellis Kaufman	February 1 – May 15  February 1 – May 15	Species and Pure Live S (Lbs/Acre)  Green Sprangletop Sideoats Grama (El Reno) Bermudagrass Buffalograss (Texoka)  Green Sprangletop Sideoats Grama (El Reno) Buffalograss (Texoka) Bermudagrass	0.3 3.6 2.4 1.6 0.3 3.6 1.6 2.4	Green Sprangletop Sideoats Grama (El Reno) Bermudagrass Sand Dropseed  Green Sprangletop Buffalograss (Texoka) Bermudagrass Sand Dropseed	0.3 3.6 2.1 0.3 1.6 3.6 0.4	
Erath Hood Johnson Palo Pinto Parker Somervell Tarrant Wise Collin Dallas Denton Ellis Kaufman Navarro	February 1 – May 15  February 1 – May 15  February 1 – February 1 –	Species and Pure Live S (Lbs/Acre)  Green Sprangletop Sideoats Grama (El Reno) Bermudagrass Buffalograss (Texoka)  Green Sprangletop Sideoats Grama (El Reno) Buffalograss (Texoka)	0.3 3.6 2.4 1.6	Green Sprangletop Sideoats Grama (El Reno) Bermudagrass Sand Dropseed  Green Sprangletop Buffalograss (Texoka) Bermudagrass Sand Dropseed  Green Sprangletop	0.3 3.6 2.1 0.3 1.6 3.6 0.4	
Erath Hood Johnson Palo Pinto Parker Somervell Tarrant Wise Collin Dallas Denton Ellis Kaufman Navarro Rockwall	February 1 – May 15  February 1 – May 15  February 1 – May 15	Species and Pure Live S (Lbs/Acre)  Green Sprangletop Sideoats Grama (El Reno) Bermudagrass Buffalograss (Texoka)  Green Sprangletop Sideoats Grama (El Reno) Buffalograss (Texoka) Bermudagrass Green Sprangletop Bermudagrass Sideoats Grama (Haskell)	0.3 3.6 2.4 1.6 0.3 3.6 1.6 2.4	Green Sprangletop Sideoats Grama (El Reno) Bermudagrass Sand Dropseed  Green Sprangletop Buffalograss (Texoka) Bermudagrass Sand Dropseed	0.3 3.6 2.1 0.3 1.6 3.6 0.4	

CERTIFICATION:
THIS CITY OF LANCASTER STANDARD DETAIL
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APPEARS ON THIS SHEET. THIS ENGINEER IS
ALSO CERTIFYING THAT THE CONTENT OF THE
DETAILS AND NOTES ON THIS SHEET HAVE
NOT BEEN ALTERED FROM THAT RECEIVED FROM
THE CITY OF LANCASTER.

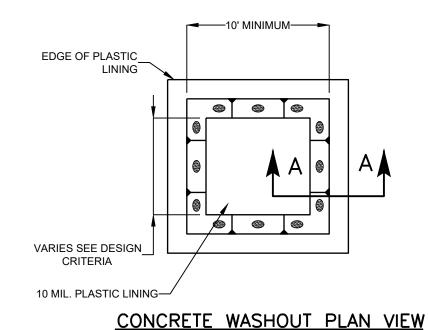


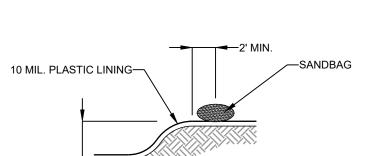
EROSION CONTROL 1 OF 4

STANDARD DETAILS



DESIGN	DRAWN	CHECK	DATE	SCALE	SECTION	NO.
			Moy 2021	N.T.S.	EC-01	<i>46</i> OF <b>53</b>



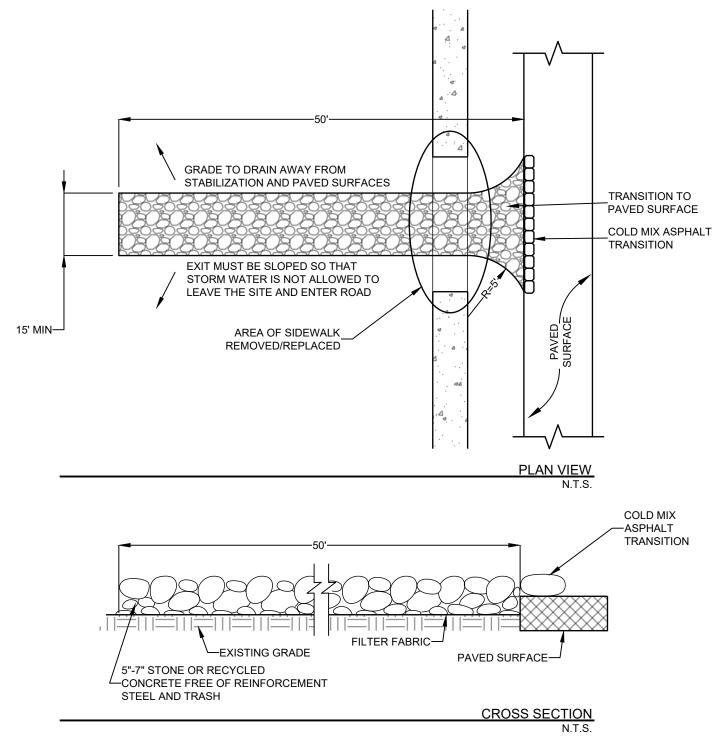


CONCRETE WASHOUT SECTION A-A

- CONCRETE TRUCK WASHOUT REQUIREMENTS: 1. DIRECT DISCHARGE OF CONCRETE TRUCK WASHOUT TO SURFACE WATER IN THE STATE, INCLUDING DISCHARGE TO
- STORM SEWERS, IS PROHIBITED. CONCRETE TRUCK WASH OUT WATER SHALL BE DISCHARGED TO AREAS AT THE CONSTRUCTION SITE WHERE STRUCTURAL CONTROLS HAVE BEEN ESTABLISHED TO PREVENT DIRECT DISCHARGE TO SURFACE WATERS.
- 3. STRUCTURAL CONTROLS MAY CONSIST OF TEMPORARY BERMS, TEMPORARY SHALLOW PITS, TEMPORARY STORAGE TANKS WITH SLOW RATE RELEASE, OR OTHER REASONABLE MEASURES TO PREVENT RUNOFF FROM THE CONSTRUCTION SITE.
- 4. WASHOUT OF CONCRETE TRUCKS DURING RAINFALL SHALL BE MINIMALIZED. THE DIRECT DISCHARGE OF CONCRETE TRUCK WASH OUT WATER IS PROHIBITED AT ALL TIMES, AND THE OPERATOR SHALL INSURE THAT ITS BMP'S ARE SUFFICIENT TO PREVENT THE DISCHARGE OF CONCRETE TRUCK WASH OUT AS THE RESULT OF RAINFALL OR STORMWATER RUNOFF.
- 5. THE DISCHARGE OF WASH OUT WATER MIST NOT CAUSE OR CONTRIBUTE TO GROUNDWATER CONTAMINATION.
- 6. IF A SWP3 IS REQUIRED TO BE IMPLEMENTED, THE SWP3 SHALL INCLUDE CONCRETE WASHOUT AREAS ON THE ASSOCIATED EROSION CONTROL PLAN.

#### PROHIBITED CONCRETE DISPOSAL PRACTICES: 1. DUMPING IN VACANT AREAS ON THE JOB SITE.

- 2. ILLICIT DUMPING ONTO OFF-SITE LOTS OR ANY OTHER PLACE NOT PERMITTED TO RECEIVE CONSTRUCTION DEMOLITION DEBRIS OR WASTE.
- 3. DUMPING INTO DITCHED, DRAINAGE FACILITIES, OR NATURAL WATER WAYS.

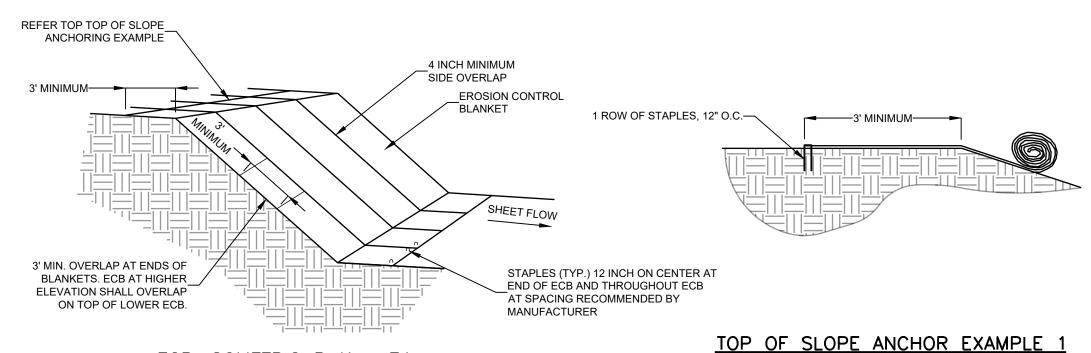


NOTE: INSTALL SILT FENCE, CONSTRUCTION SAFETY FENCING OR SIMILAR BARRIER ALONG THE EXIT TO DIRECT TRAFFIC INTO THE EXIT

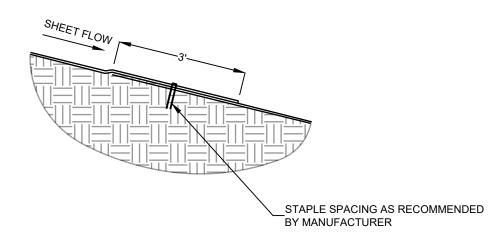
#### SCHEMATICS OF STABILIZED CONSTRUCTION EXIT

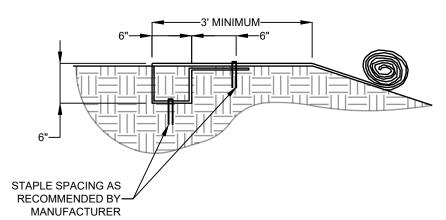
#### STABILIZED CONSTRUCTION ENTRANCE/EXIT:

- 1. STABILIZED CONSTRUCTION ACCESS SHALL BE USED ON ALL CONSTRUCTION SITES WITH A DISTURBED AREA OF ONE ACRE OR LARGER AND ARE A RECOMMENDED PRACTICE FOR SMALLER CONSTRUCTION SITES.
- 2. DESIGN THE ACCESS POINT(S) TO BE AT THE UPSLOPE SIDE OF THE CONSTRUCTION SUITE. DO NOT PLACE CONSTRUCTION ACCESS AT THE LOWEST POINT ON THE CONSTRUCTION SITE.
- 3. THE ACCESS MUST BE SLOPED AWAY FROM THE PAVED SURFACE SO THAT STORMWATER FROM THE SITE DOES NOT DISCHARGE THROUGH THE EXIT ONTO ROADWAYS. 4. MINIMUM WIDTH OF EXIT SHALL BE 15 FEET.
- 5. THE CONSTRUCTION ACCESS MATERIAL SHALL BE A MINIMUM THICKNESS OF 6 INCHES. THE STONE OR RECYCLED CONCRETE USED SHALL BE 3 TO 5 INCHES IN SIZE WITH LITTLE OR NO FINES.
- 6. THE GEOTEXTILE FABRIC SHALL BE INSTALLED PRIOR TO THE ROCK AND MUST MEET THE FOLLOWING MINIMUM CRITERIA: \* TENSILE STRENGTH, ASTM D4632 TEST METHOD FOR GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES, 300 LBS. \* PUNCTURE STRENGTH, ASTM D4833 TEST METHOD FOR INDEX PUNCTURE RESISTANCE OF GEOTEXTILES, GEOMEMBRANSES, AND RELATED PRODUCTS, 120 LBS. \* MULLEN BURST RATING, ASTM D3786 STANDARD TEST METHOD FOR HYDRAULIC BURSTING STRENGTH OF TEXTILE FABRICS-DIAPHRAGM BURSTING STRENGTH TESTER METHOD, 600 PSI. \* APPARENT OPENING SIZE, ASTM D4751 TEST METHOD FOR DETERMINING APPARENT OPENING SIZE OF A GEOTEXTILE, U.S.
- SIEVE NO. 40(MAX). 7. PERIODIC RE-GRADING AND TOP DRESSING WITH ADDITIONAL STONE SHALL BE DONE TO KEEP THE EFFICIENCY OF THE EXIT FROM DIMINISHING. THE ROCK SHALL BE RE-GRADED WHEN RUTS APPEAR. ADDITION ROCK SHALL BE ADDED WHEN SOIL IS SHOWING THROUGH THE ROCK SURFACE.



### ECB ISOMETRIC PLAN VIEW





### ECB OVERLAP EXAMPLE

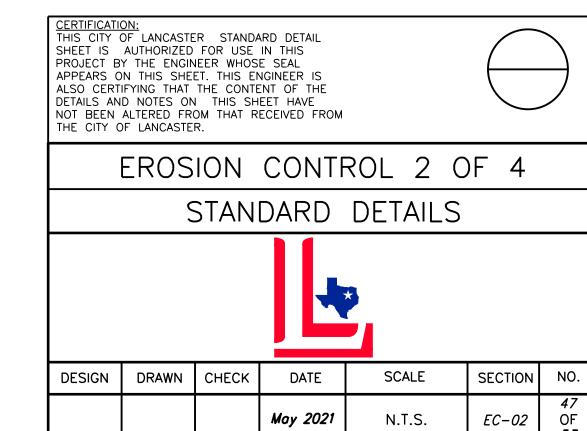
#### TOP OF SLOPE ANCHOR EXAMPLE 2

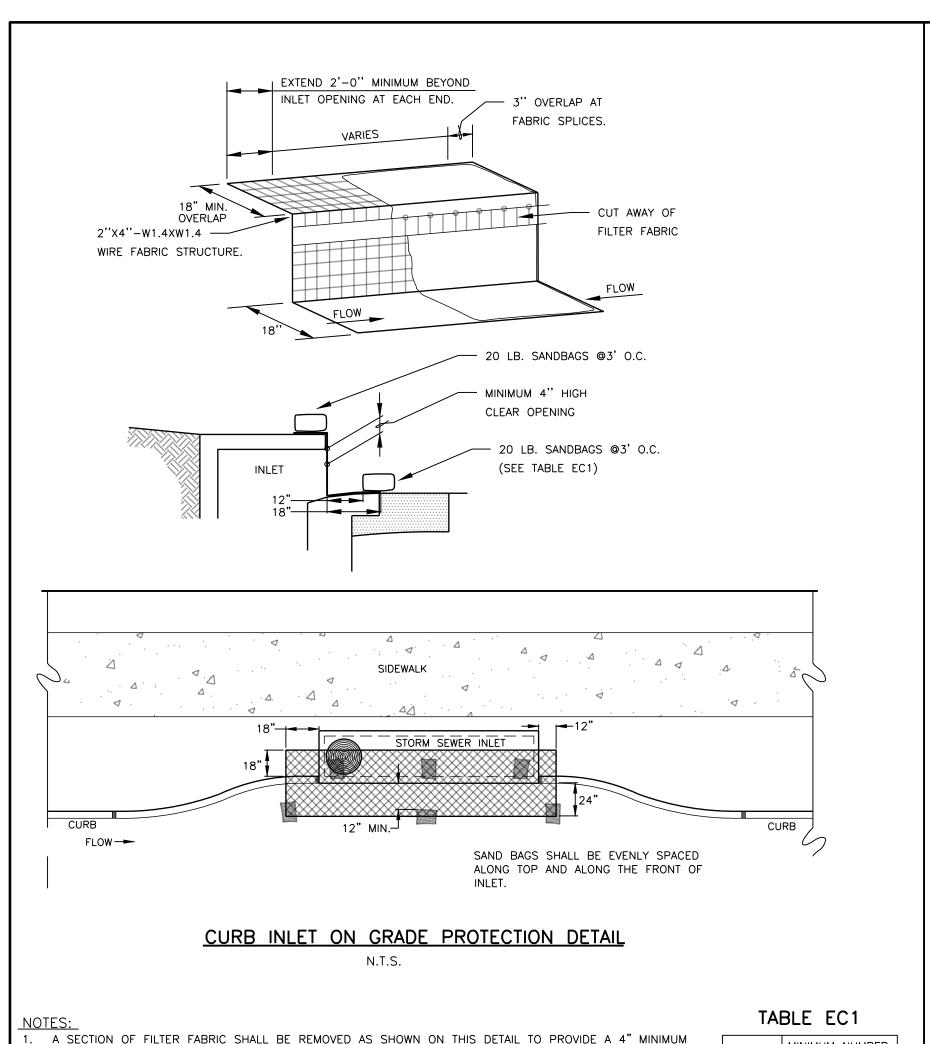
NOTE: ANCHORING METHODS PROVIDED ARE EXAMPLES OF THE TYPE OF ANCHORING THE ECB MANUFACTURER MAY RECOMMEND. THERE ARE MORE THAN A DOZEN DIFFERENT TOP OF SLOPE STEEPNESS, ETC. ALWAYS FOLLOW THE MANUFACTURER'S RECOMMENDATIONS FOR ANCHORING BASED ON THE SITE-SPECIFIC APPLICATION.

EROSION CONTROL BLANKETS:

APPLICATION: PERIMETER CONTROL, SLOPE PROTECTION, SEDIMENT BARRIER, CHANNEL PROTECTION, TEMPORARY STABILIZATION, AND FINAL STABILIZATION. 1. PRIOR TO THE INSTALLATION OF THE ECB, ALL ROCKS, DIRT CLODS, STUMPS

- ROOTS, TRASH AND ANY OTHER OBSTRUCTIONS THAT WOULD PREVENT THE ECB FROM LYING IN DIRECT CONTACT WITH THE SOIL SHALL BE REMOVED. 2. INSTALLATION AND ANCHORING SHALL CONFORM TO THE RECOMMENDATIONS SHOWN
- WITHIN THE MANUFACTURER'S PUBLISHED LITERATURE FOR THE EROSION CONTROL BLANKET. ANCHORS (STAPLES) SHALL BE A MINIMUM OF 6 INCHES IN LENGTH AND 1 INCH WIDE. THEY SHALL BE MADE OF 11-GAUGE WIRE, OR EQUIVALENT. 3. ECBS MAY BE USED AS A SEDIMENT BARRIER BEHIND CURB IN PLACE OF SILT
- FENCE. FOR SINGLE FAMILY RESIDENTIAL LOTS THE WIDTH OF THE ECB SHALL BE TEN (10) FEET MINIMUM. FOR COMMERCIAL DEVELOPMENT APPLICATIONS THE WIDTH SHALL BE TWENTY (20) FEET MINIMUM, UNLESS OTHERWISE APPROVED BY THE STORMWATER DEPARTMENT.
- 4. EROSION CONTROL BLANKETS SHOULD BE INSPECTED WEEKLY (IN ACCORDANCE WITH THE SWP3 REQUIREMENTS AND THE TPDES CONSTRUCTION GENERAL PERMIT) FOR BARE SPOTS CAUSED BY WEATHER OR OTHER EVENTS. MISSING OR LOOSENED BLANKETS SHALL BE REPLACED OR RE-ANCHORED.
- 5. EROSION CONTROL BLANKETS SHALL NOT BE USED AS SEDIMENT BARRIERS IN SWALES AND CHANNELS THAT HAVE A SHEAR OF MORE THAN 2.0 POUNDS PER SQUARE FOOT OR SLOPES GREATER THAN 2%. TURF REINFORCEMENT MATS SHALL BE USED IN OPEN CHANNELS WITH HIGHER SHEAR STRESSES AND GREATER SLOPES.



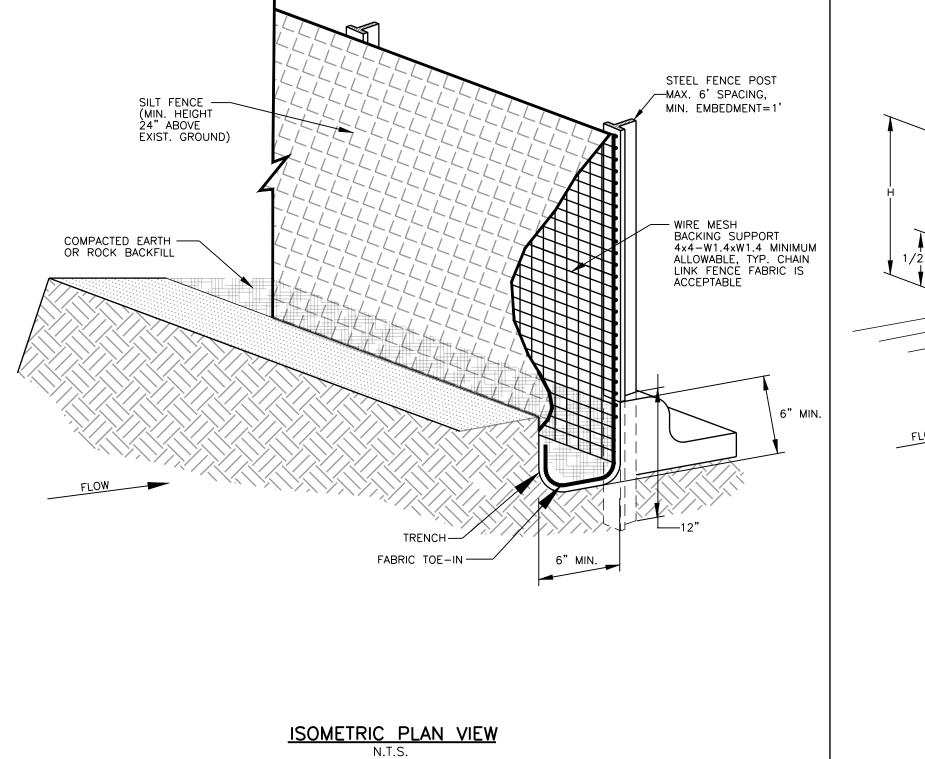


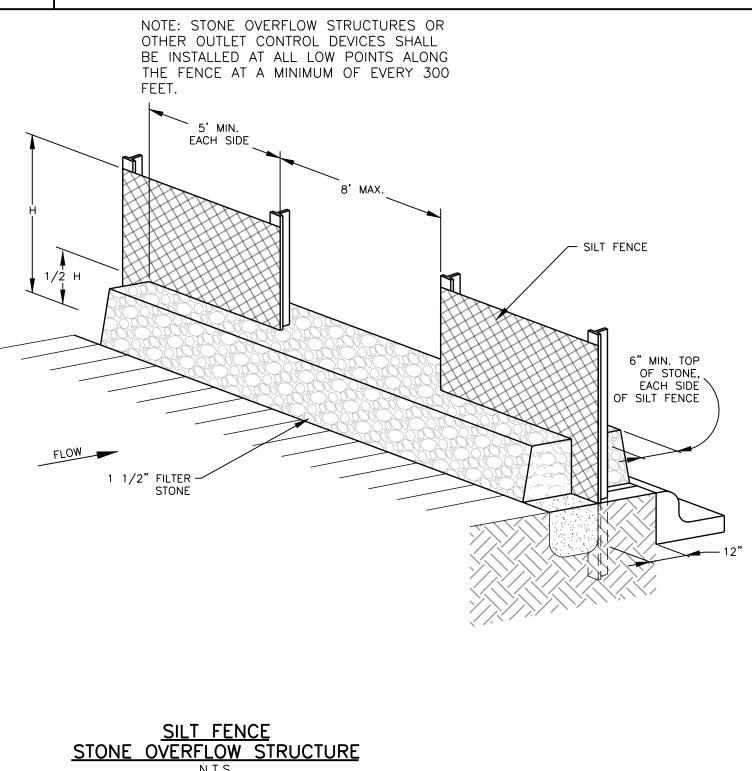
1. A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL TO PROVIDE A 4" MINIMUM CLEAR OPENING. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS

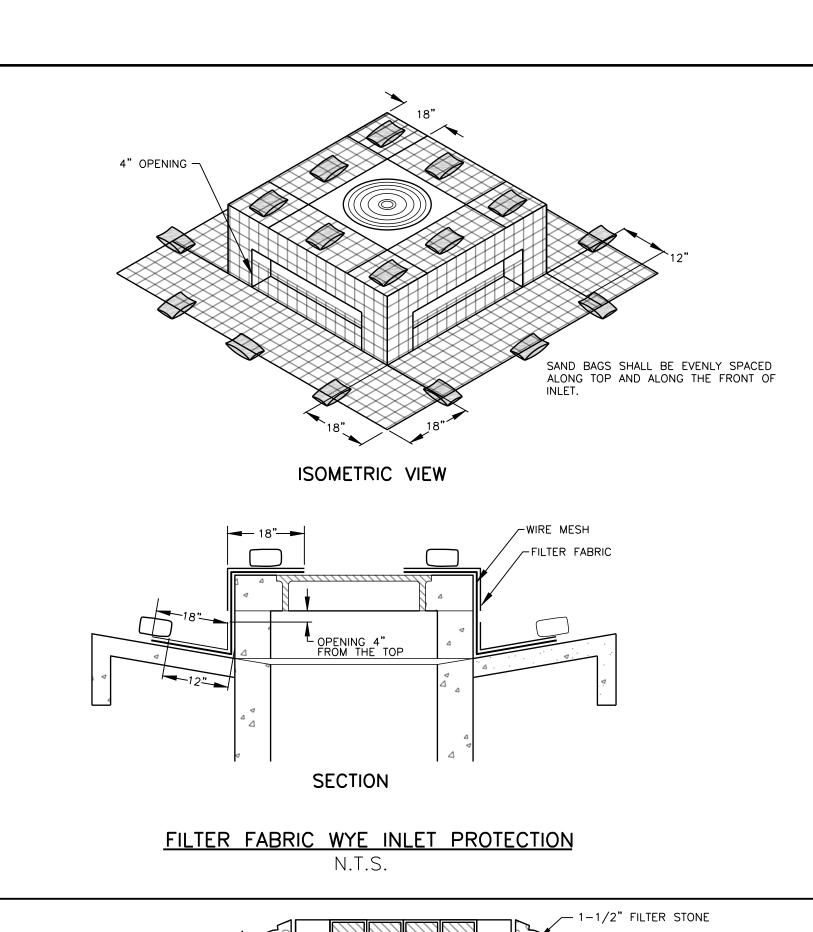
LOCATION. 2. INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".

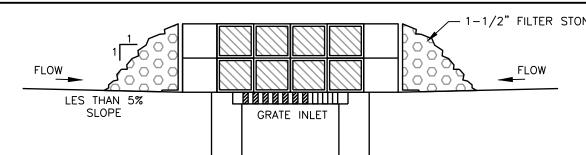
CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REMOVE THE INLET PROTECTIONS IF THE STORM-WATER BEGINS TO OVERTOP THE CURB. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

TABLE EC1						
	INLET OPENING	MINIMUM NUMBER OF SAND BAGS				
Ή		TOP	FRONT			
	5'	2	3			
	10'	3	3			
	15'	3	4			
	20'	4	4			

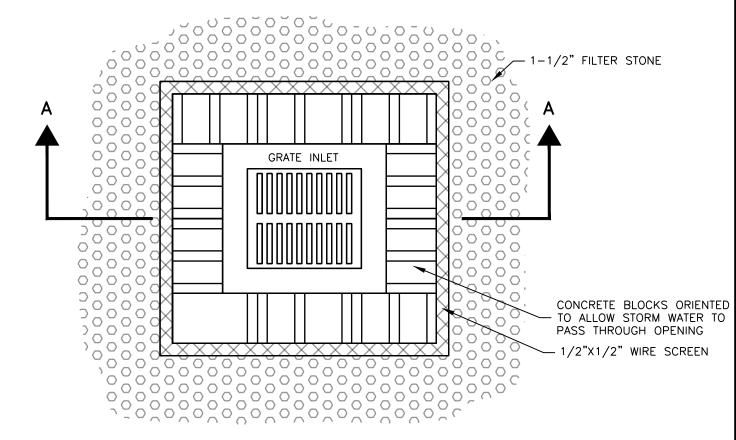








#### SECTION A-A



### PLAN VIEW

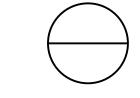
### GRATE INLET PROTECTION

N.T.S.

<u>Silt Fence General Notes</u>

- 1. Steel posts which support the silt fence shall be installed on a slight angle toward the anticipated runoff source. Post must be embedded a minimum of one foot.
- 2. The toe of the silt fence shall be trenched—in with spade or mechanical trencher, so that the down slope face of the trench is flat and perpendicular to the line of flow. Where silt fence cannot be trenched—in (e.g. pavement or rock surface), weight fabric flap with rock on uphill side to prevent flow from seeping under fence.
- 3. The trench must be a minimum of 6 inches deep and 6 inches wide to allow for the silt fence fabric to be laid in the ground and backfilled with compacted
- 4. Silt fence should be securely fastened to each steel support post or to woven wire which in turn is attached to the steel fence post. There shall be a 3 foot overlap, securely fastened where ends of fabric meet.
- 5.Reinforced silt fence shall be inspected weekly and maintained when bulges occur or when sediment accumulations reach 50% of the fabric height. The reinforced silt fence should be inspected daily for damage by construction
- 6. Silt fence shall be removed when the site is completely stabilized.
- 7. Silt fence shall not be installed and used in concentrated high flow discharge areas. Rock Filter Dams shall be installed and maintained in lieu of silt fence.

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THE CITY OF LANCASTER.

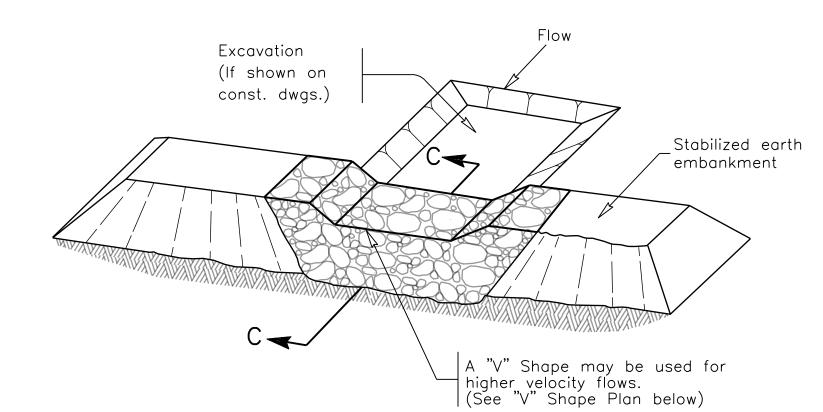


EROSION CONTROL 3 OF 4

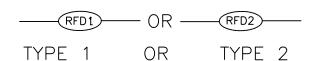
STANDARD DETAILS

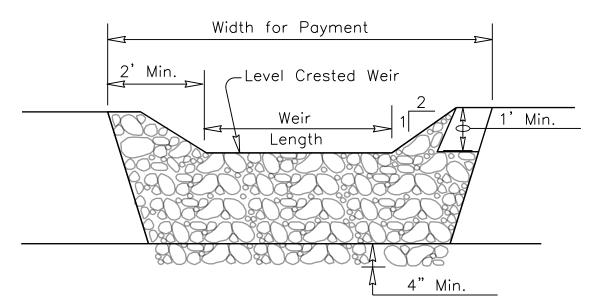


DESIGN DRAWN CHECK DATE SECTION May 2021 N.T.S. EC-03 OF

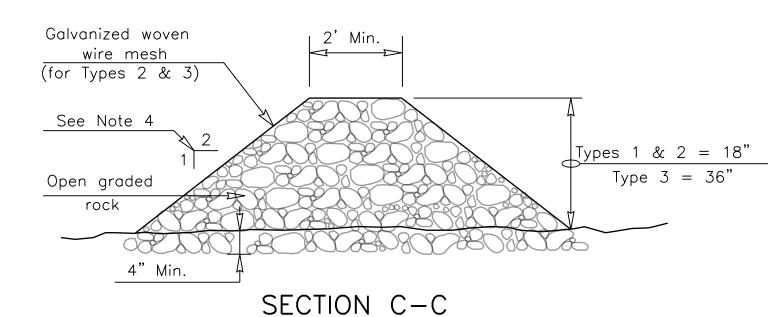


# FILTER DAM AT SEDIMENT TRAP





# PROFILE



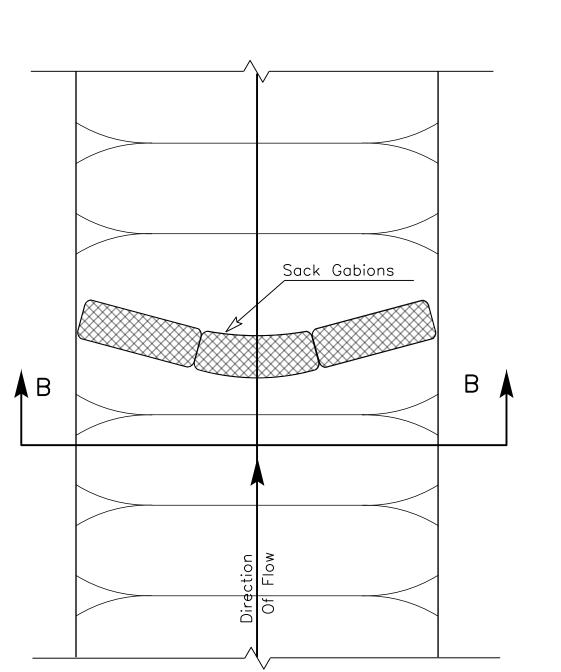
areas to intercept sediment from overland runoff and/or concentrated flow. The dams should be sized to filter a maximum flow through rate of 60 GPM/FT of cross sectional area. A 2 year

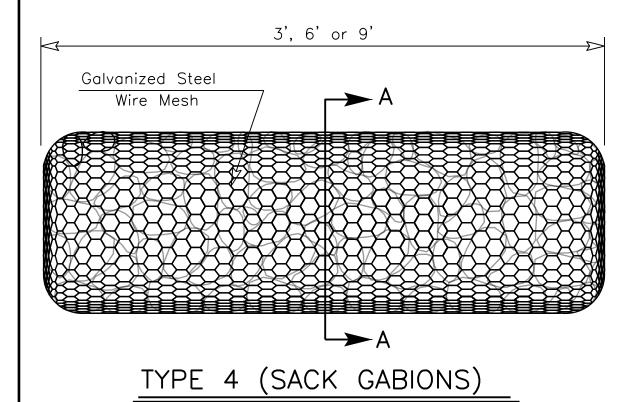
Type 1 (18" high with no wire mesh): Type 1 may be used at the toe of slopes, around inlets, in small ditches, and at dike or swale outlets. This type of dam is recommended to control erosion from a drainage area of 5 acres or less. Type 1 may not be used in concentrated high velocity flows (approx. 8 Ft/Sec or more) in which aggregate wash out may occur. Sandbags may be used at the embedded foundation (4" deep min.) for better filtering efficiency of low flows if called for on the plans or directed by the Engineer.

Type 2 (18" high with wire mesh): Type 2 may be used in ditches and at dike or swale outlets.

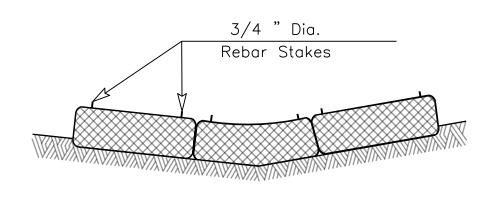
Type 3 (36" high with wire mesh): Type 3 may be used in stream

Type 4 (Sack gabions): Type 4 May be used in ditches and smaller channels to form an erosion control dam.

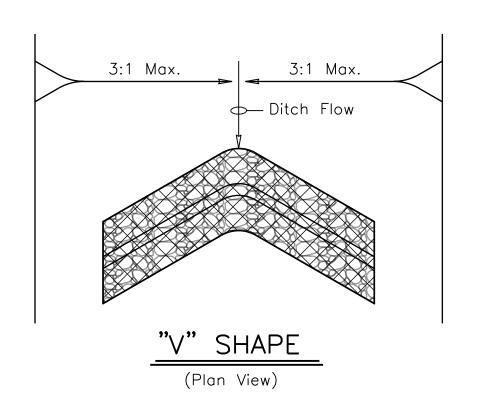




PLAN VIEW

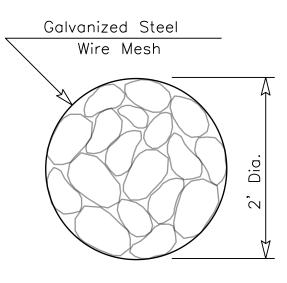


### SECTION B-B

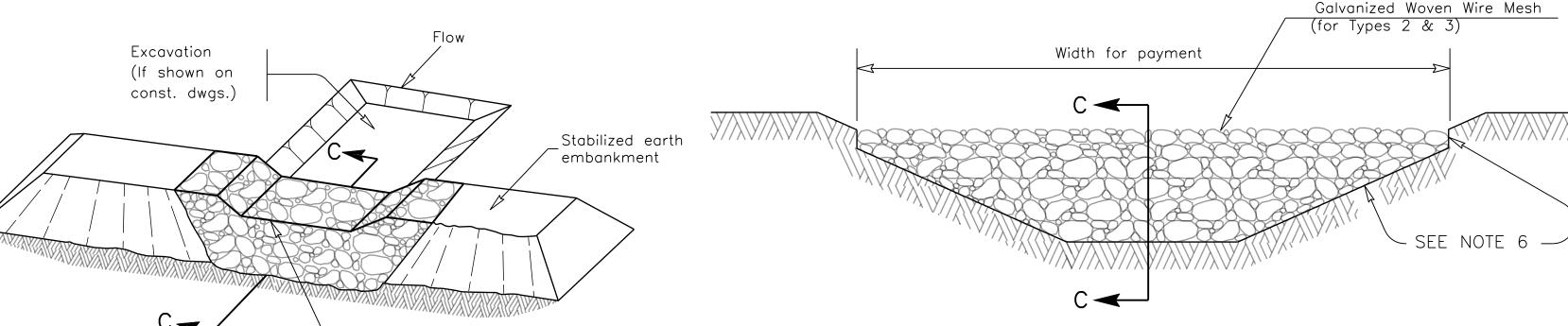


### PLANS SHEET LEGEND

Type 1 Rock Filter Dam Type 2 Rock Filter Dam Type 3 Rock Filter Dam



SECTION A-A



FILTER DAM AT CHANNEL SECTIONS



### GENERAL NOTES

- 1. IF SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, FILTER DAMS SHOULD BE PLACED NEAR THE TOE OF SLOPES WHERE EROSION IS ANTICIPATED, UPSTREAM AND/OR DOWNSTREAM AT DRAINAGE STRUCTURES, AND
- IN ROADWAY DITCHES AND CHANNELS TO COLLECT SEDIMENT. 2. MATERIALS (AGGREGATE, WIRE MESH, SANDBAGS, ETC.) SHALL BE AS INDICATED BY THE SPECIFICATION FOR "ROCK FILTER DAMS FOR EROSION AND SEDIMENTATION CONTROL".
- 3. THE ROCK FILTER DAM DIMENSIONS SHALL BE AS INDICATED ON THE SWP3 OR EROSION CONTROL PLANS.
- 4. STONE SIDE SLOPES SHOULD BE 2:1 OR FLATTER. DAMS WITHIN THE SAFETY ZONE SHALL HAVE SIDE SLOPES OF 6:1 OR FLATTER.
- 5. MAINTAIN A MINIMUM OF 1' BETWEEN TOP OF ROCK FILTER DAM WEIR AND TOP OF EMBANKMENT FOR FILTER DAMS AT SEDIMENT TRAPS
- 6. FILTER DAMS SHOULD BE EMBEDDED A MINIMUM OF 4" INTO EXISTING GROUND.
- 7. THE SEDIMENT TRAP FOR PONDING OF SEDIMENT LADEN RUNOFF SHALL BE OF THE DIMENSIONS SHOWN ON THE PLANS.
- 8. ROCK FILTER DAM TYPES 2 & 3 SHALL BE SECURED WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1" DIAMETER HEXAGONAL OPENINGS. THE AGGREGATE SHALL BE PLACED ON THE MESH TO THE HEIGHT & SLOPES SPECIFIED. THE MESH SHALL BE FOLDED AT THE UPSTREAM SIDE OVER THE AGGREGATE AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOG RINGS. IN STREAM USE THE MESH SHOULD BE SECURED OR STAKED TO THE STREAM BED PRIOR TO AGGREGATE PLACEMENT.
- 9. SACK GABIONS SHOULD BE STAKED DOWN WITH 3/4" DIA. REBAR STAKES.
- 10. FLOW OUTLET SHOULD BE ONTO A STABILIZED AREA (VEGETATION, ROCK, ETC.). 11. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE
- MODIFIED BY THE ENGINEER. 12. ALL MATERIAL INCORPORATED IN THE CONSTRUCTION SHALL BE NEW.

13. MAX TEMPORARY EARTH SLOPE IS 3:1 WITH 4:1 RECOMMENDED IF PRACTICAL.

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EROSION CONTROL 4 OF 4

STANDARD DETAILS

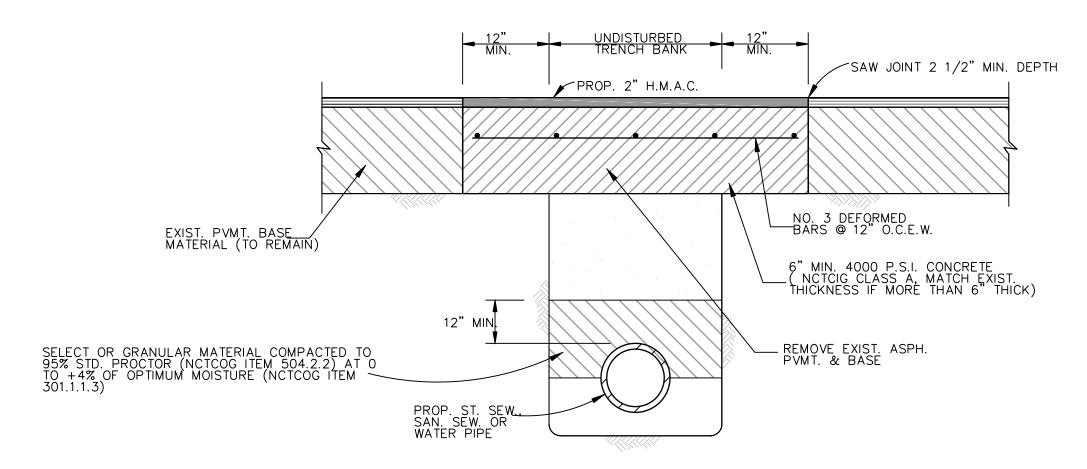
OF

## ROCK FILTER DAM USAGE GUIDELINES

Rock Filter Dams should be constructed downstream from disturbed storm frequency may be used to calculate the flow rate.

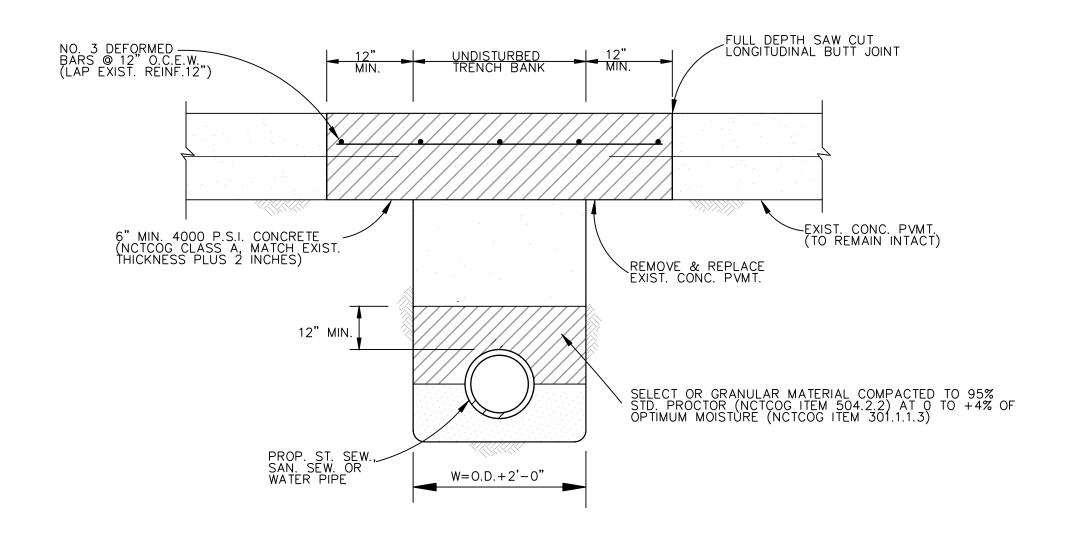
flow and should be secured to the stream bed.

DESIGN DRAWN CHECK DATE SECTION May 2021 N.T.S. EC-04



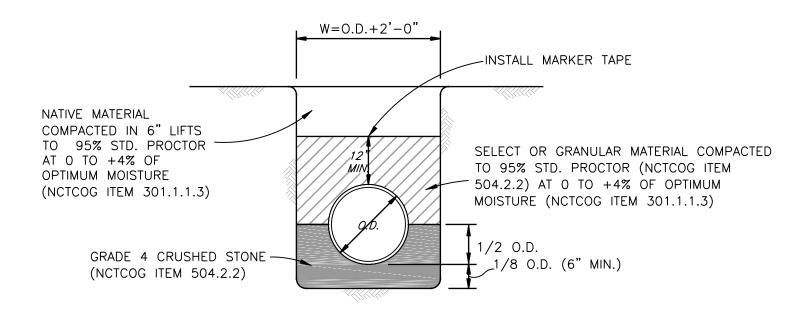
ASPHALT STREET OR DRIVEWAY REPAIR

CLASS B+ EMBEDMENT



CONCRETE STREET OR DRIVEWAY REPAIR

CLASS B+ EMBEDMENT



<u>CLASS B+ EMBEDMENT</u>

GENERAL NOTE

- A. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE CITY OF LANCASTER, WHICH HAS ALSO ADOPTED THE FOURTH EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION NORTH CENTRAL TEXAS HEREIN REFERRED TO AS N.C.T.C.O.G. SPECIFICATIONS. COPIES MAY BE OBTAINED FROM THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, 616 SIX FLAGS DRIVE, SUITE 200, ARLINGTON, TEXAS 76005–5888. (817) 640–3300. THESE SPECIFICATIONS ARE ALSO AVAILABLE AT WWW.PUBLICWORKS.DFWINFO.COM
- SPECIFICATIONS ARE ALSO AVAILABLE AT WWW.PUBLICWORKS.DFWINFO.COM

  B. FLEXIBLE BASE MATERIAL SHALL BE TYPE 'A' GRADE 1 PER TxDot ITEM

  247 AND NCTCOG ITEM 301.5
- MODIFIED FLOWABLE FILL (REFER TO N.C.T.C.O.G. ITEM 504.2.3.5): MODIFIED FLOWABLE BACKFILL IN AREAS OF POSSIBLE FUTURE EXCAVATION SUCH AS UTILITY INSTALLATIONS SHALL CONSIST OF A MIXTURE OF NATIVE SOILS OR MANUFACTURED MATERIALS, CEMENT AND/OR FLY ASH, AIR—ENTRAINING MATERIAL AND WATER WHICH PRODUCES A MATERIAL WITH UNCONFINED COMPRESSIVE STRENGTH OF BETWEEN 50—PSI AND 150—PSI (4 TO 11—KG/CM2) AFTER 28 DAYS. MODIFIED FLOWABLE BACKFILL MAY BE USED IN ABANDONED PIPE CLOSURES, ABUTMENTS AND EMBANKMENTS. ANY MATERIALS USED SHALL BE PRIMARILY GRANULAR WITH A PLASTICITY INDEX OF <12 AND WITH 100% PASSING A ¾ IN. SIEVE. THE FLOWABLE MIXTURE SHALL BE MIXED IN A PUG MIL, CONCRETE MIXER, OR TRANSIT MIXER AND SHALL HAVE A MINIMUM SLUMP OF 5 IN. (13 CM). THE FLOWABLE MIXTURE MUST BE ALLOWED TO SET PRIOR TO THE PLACEMENT OF ANY OVERLYING MATERIAL. REFER TO N.C.T.C.O.G. ITEM 504.2.3.5 FOR ADDITIONAL INFORMATION.
- . FRANCHISE UTILITIES:
  FLOWABLE BACKFILL MAY BE USED IN PLACE OF FLEXIBLE BASE OR NATIVE MATERIAL BY FRANCHISE UTILITIES FOR LIMITED STREET REPAIRS WITH INSPECTOR APPROVAL.

ECIFIC NOTES:

- 1. FULL-DEPTH SAWCUT TO REPAIR ASPHALT OR CONCRETE PAVEMENT PRIOR TO OPENING THE DITCH IN ORDER TO ENSURE A NEAT STRAIGHT EDGE.

  2. MODIFIED FLOWABLE BACKFILL MAY BE UTILIZED IN-LIEU OF NATIVE MATERIAL.
- 3. DEPTH OF CONCRETE REPAIR SHALL MATCH EXISTING PAVING DEPTH OR 8" MINIMUM, WHICHEVER IS GREATER.
- 4. REFER TO THE PLANS FOR SPECIFIED WIDTH OF REPLACEMENT.
  5. RECOMMENDED WIDTHS VARIES BASED ON DEPTH AND SOIL MATERIAL.
- 6. MECHANICALLY TAMP NATIVE MATERIAL (6"Ø CLODS OR SMALLER IN 6"-8" LIFTS) TO 95% OF THE MAXIMUM DRY DENSITY DETERMINED BY THE STD. PROCTOR TEST, ASTM D698 WITH MOISTURE CONTENT OF THE FILL AT THE TIME OF COMPACTION TO BE 0 TO 4% ABOVE PROCTOR OPTIMUM VALUE.

  7. CONCRETE FOR PAVING REPAIRS SHALL BE MADE WITH A MINIMUM OF 6 1/2 SACKS OF CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF
- 4,500 PSI AT 28 DAYS.

  8. ALL REINFORCING STEEL SHALL BE NEW, NEAT, BILLET—STEEL PER ASTM DESIGNATION A—615, GRADE 60 AND SHALL BE DETAILED AND PLACED PER ACI MANUALS SP—88 AND 318, LATEST ADDITIONS. ALL REINFORCING STEEL SHALL HAVE MINIMUM 15 INCH LAP SPLICES, UNLESS NOTED OTHERWISE ON THE PLANS.
- 9. THE CONTRACTOR SHALL USE A LIQUID MEMBRANE—FORMING CURING COMPOUND PER N.C.T.C.O.G. ITEM 303.2.13.1.1.
  10. STORM DRAIN PIPES AND CULVERTS WITH SLOPES EXCEEDING 10% SHALL
- BE BACKFILLED WITH FLOWABLE FILL MATERIAL BETWEEN SPRING LINE AND 6" (INCHES) ABOVE THE STORM DRAIN PIPE.

CERTIFICATION:
THIS CITY OF LANCASTER STANDARD DETAIL
SHEET IS AUTHORIZED FOR USE IN THIS
PROJECT BY THE ENGINEER WHOSE SEAL
APPEARS ON THIS SHEET. THIS ENGINEER IS
ALSO CERTIFYING THAT THE CONTENT OF THE
DETAILS AND NOTES ON THIS SHEET HAVE
NOT BEEN ALTERED FROM THAT RECEIVED FROM
THE CITY OF LANCASTER.



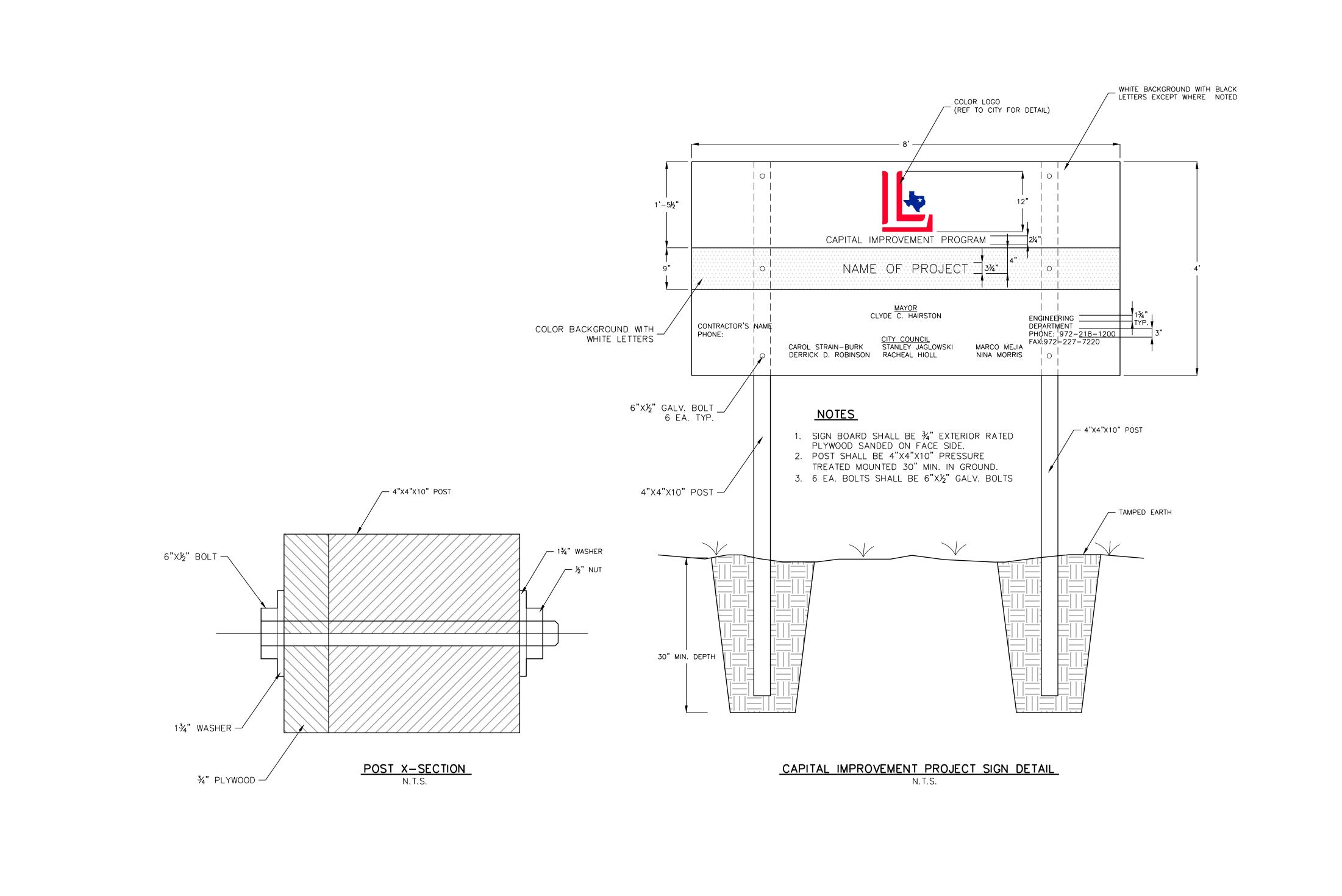
### PAVEMENT AND BACKFILL

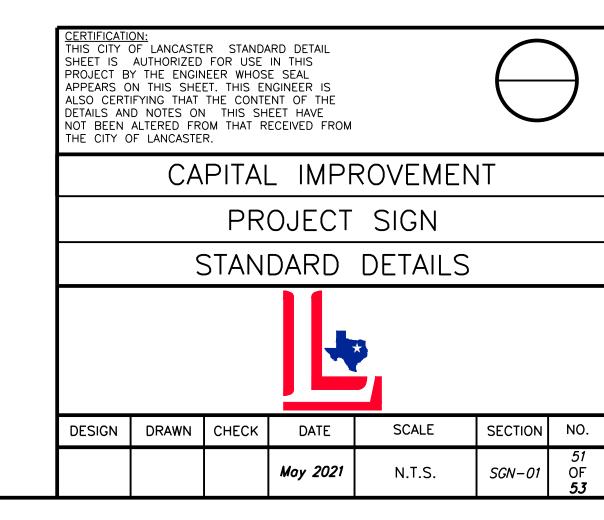
TRENCH REPAIR

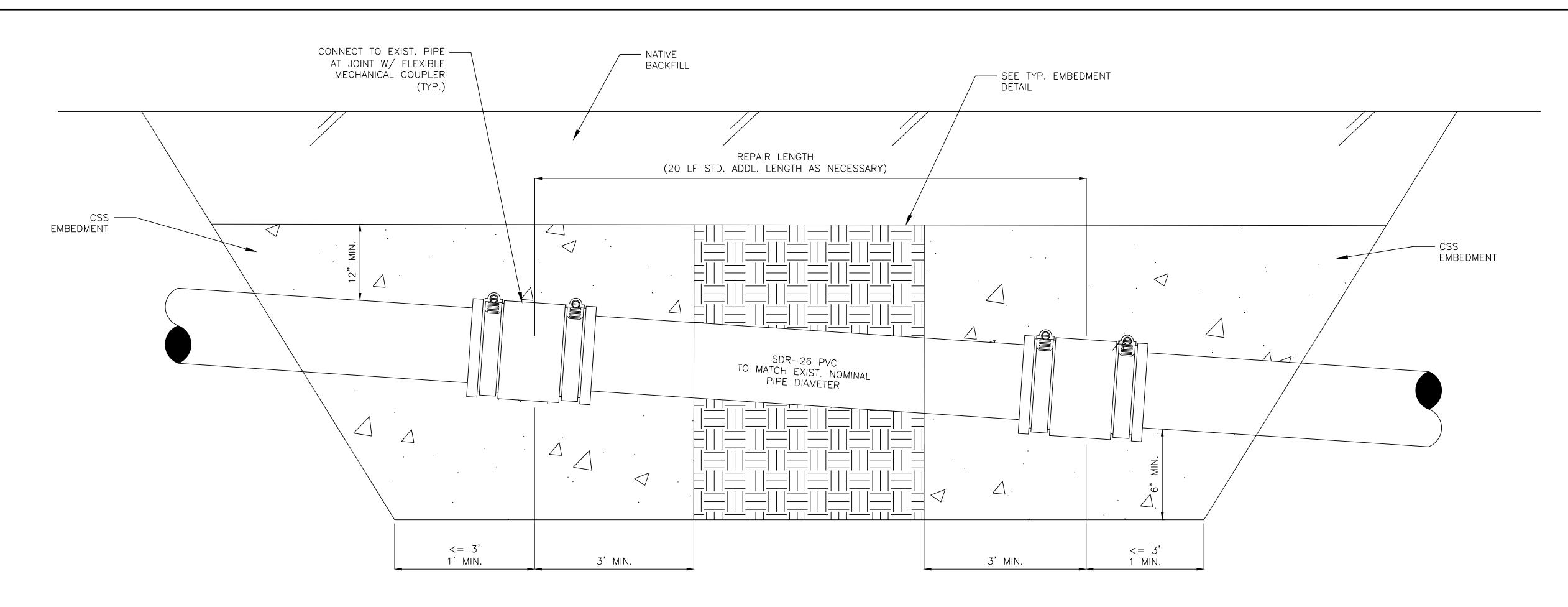
STANDARD DETAILS



DESIGN	DRAWN	CHECK	DATE	SCALE	SECTION	NO.
			May 2021	N.T.S.	EMB-01	<i>50</i> OF <b>53</b>







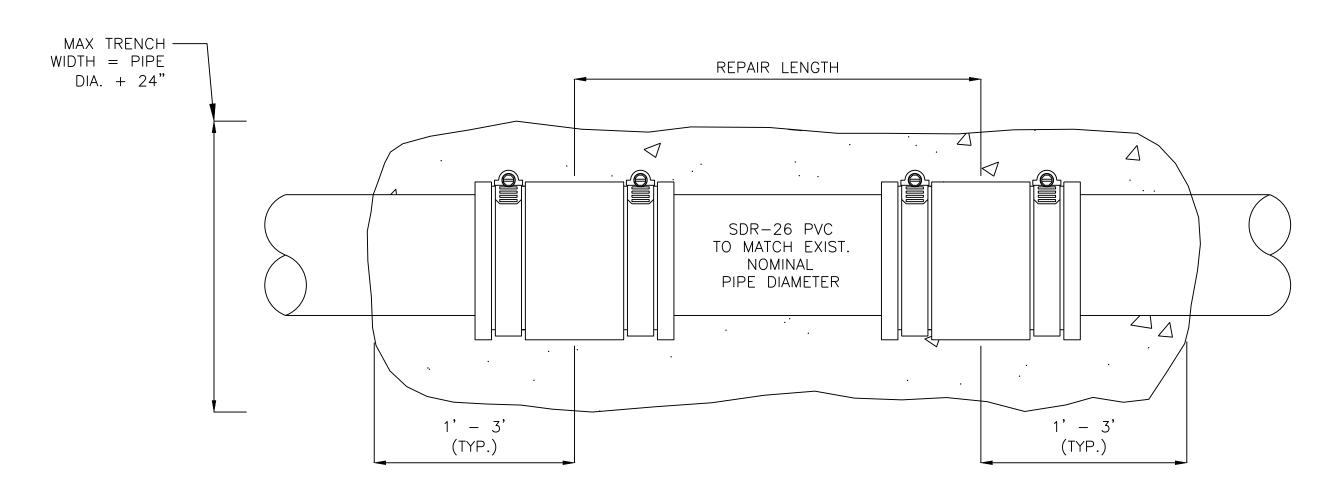
# 1A

### POINT REPAIR: PROFILE VIEW

SCALE: NONE

### NOTES:

- 1. POINT REPAIR PIPE DIA. TO MATCH EXIST. NOMINAL PIPE DIA. BEING REPAIRED.
- 2. STD. REPAIR LENGTH IS UP TO 20 LF. REMOVE EXIST. PIPE TO NEAREST USABLE JOINT. POINT REPAIR GREATER THAN 20 LF WILL BE PAID WITH ADDITIONAL FOOTAGE BID ITEM. FOR EXAMPLE, A REPAIR REQUIRING 30 LF OF REPLACEMENT PIPE WILL BE PAID FOR W/1 STD. LENGTH REPAIR PLUS 10 LF OF ADDITIONAL FOOTAGE.
- 3. SUPPORT REPLACEMENT PIPE AS NECESSARY TO MAINTAIN CONSISTENT SLOPE.
- 4. FLEXIBLE COUPLING SHALL COMPLY WITH ASTM D5926, AND C1173 WITH STAINLESS STEEL BAND CLAMPS.
- 5. CONTRACTOR TO RESTORE SURFACE TO MATCH EXIST. SURFACE.



B POINT REPAIR: PLAN VIEW
SCALE: NONE

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# PIPEBURSTING DETAIL

SHEET 1 OF 2

STANDARD DETAILS



DESIGN	DRAWN	CHECK	DATE	SCALE	SECTION	NO.
			May 2021	N.T.S.	MISC-1	<b>52</b> OF <b>53</b>

