

Ordinance authorizing a Water Arterial Transmission and Grid Main Line Extension Construction and Reimbursement Agreement with Braselton Custom Homes, LTD to extend a water transmission and grid main line for a planned residential subdivision located on CR-33 with a completion date of May 30, 2021; and appropriating \$1,233,230.25 from the Water Arterial Transmission and Grid Main Trust Fund to reimburse the Developer per agreement.

Whereas, UDC §8.5.1.C.4 & §8.5.2.I provides that after a public hearing, City Council may transfer monies from one trust fund to the other in order to better carry out the purposes of this Unified Development Code.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF CORPUS CHRISTI, TEXAS:

SECTION 1. The City Manager or designee is authorized to execute a Water Arterial Transmission and Grid Main Construction and Reimbursement Agreement (Agreement) attached hereto, with Braselton Custom Homes, LTD for the construction and installation of a 16-inch water arterial transmission and grid main line, for the development of the platted property known as London Towne Unit 1, Corpus Christi, Texas.

SECTION 2. Funding in the amount of \$1,233,230.25 is appropriated from the No.4030-21805 Water Arterial Transmission and Grid Main Trust Fund, to reimburse the Developer for the construction of a 16-inch water arterial transmission and grid main line, and construction improvements in accordance with the Agreement.

That the foregoing ordinance was read for the first time and passed to its second reading on this the _____ day of _____, 2019, by the following vote:

Joe McComb _____

Michael Hunter _____

Roland Barrera _____

Ben Molina _____

Rudy Garza _____

Everett Roy _____

Paulette M. Guajardo _____

Greg Smith _____

Gil Hernandez _____

That the foregoing ordinance was read for the second time and passed finally on this the _____ day of _____ 2019, by the following vote:

Joe McComb _____

Michael Hunter _____

Roland Barrera _____

Ben Molina _____

Rudy Garza _____

Everett Roy _____

Paulette M. Guajardo _____

Greg Smith _____

Gil Hernandez _____

PASSED AND APPROVED on this the _____ day of _____, 2019.

ATTEST:

Rebecca Huerta
City Secretary

Joe McComb
Mayor

**WATER ARTERIAL TRANSMISSION AND GRID MAIN
CONSTRUCTION AND REIMBURSEMENT AGREEMENT**

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This Water Arterial Transmission and Grid Main Reimbursement Agreement ("Agreement") is entered into between the City of Corpus Christi ("City"), a Texas home-rule municipality, and, Braselton Custom Homes LTD, ("Developer/Owner"), a Texas Partnership.

WHEREAS, the Developer/Owner, in compliance with the City's Unified Development Code ("UDC"), has a plat, approved by the Planning Commission on September 19, 2018 to develop a tract of land, to wit: approximately 22.91 acres known as London Towne Unit 1, Corpus Christi Texas as shown in the attached **Exhibit 1**, the content of such exhibit being incorporated by reference into this Agreement;

WHEREAS, under the UDC, the Developer/Owner is responsible for construction of the Arterial Transmission and Grid main extension ("Grid Main Extension");

WHEREAS, it is in the best interests of the City to have the Grid Main Extension on be constructed to its ultimate capacity under the City's applicable Master Plan;

WHEREAS, Section 8.5.1.C. of the UDC authorizes the acceptance of applications to be eligible for reimbursement in the future when certain funds become fully available in the Arterial Transmission and Grid Main Line Trust Fund and are appropriated by the City Council; and

WHEREAS, Developer/Owner has submitted an application for reimbursement of the costs of extending a Grid Main Extension, as shown in **Exhibit 2**, the content of such exhibit being incorporated by reference into this Agreement.

NOW, THEREFORE, in consideration of the mutual promises and covenants contained in this Agreement, the parties do covenant and agree as follows:

1. TRUSTEE LIABILITY.

The City is executing this agreement as trustee of the Water Trust Fund pursuant to UDC §8.5. The City is acting as trustee to further its governmental functions of providing water and sewer service. Texas Constitution Article 11, Section 3 prohibits the City from becoming a subscriber to the capital of any private corporation or association, or make any appropriation or donation to the same, or in anywise loan its credit. As such, the City's participation as Trustee does not create a loan of its credit. Execution of this agreement constitutes a promise to pay only to the extent that the assets and future assets of the trust are sufficient for such purpose and it is expressly agreed that any judgment will only be satisfied out of the assets of the trust and not out of the City's assets. The City is excluded from personal liability.

2. **REQUIRED CONSTRUCTION**

Developer/Owner shall construct the Grid Main Extension in compliance with the City's UDC, the City's Infrastructure Design Manual, and all local, state and federal laws, codes and regulations, in accordance with the plans and specifications submitted to the City's Development Services Department and reviewed and approved by the City's Development Services Engineer.

3. **PLANS AND SPECIFICATIONS**

a. Developer/Owner shall contract with a professional engineer licensed in the State of Texas and acceptable to the City's Development Services Engineer to prepare and seal plans and specifications for the Grid Main Extension, as shown in the attached Exhibit 3, the content of such exhibit being incorporated by reference into this Agreement, with the following minimum requirements:

ITEM	DESCRIPTION	QUAN.	UNIT
A. OFF-SITE WATER IMPROVEMENTS:			
1	48"x24" Tapping Sleeve w/ 24" Gate Valve	1	EA
2	24"x16" Reducer	1	EA
3	16" PVC C-900 (All Depths)	4,580	LF
4	Fire Hydrant Assembly	8	EA
5	16"x6" Ductile Iron Tee	8	EA
6	16" Gate Valve	8	EA
7	16"x45 Ductile Iron Bend	2	EA
8	16" Cap & Plug	1	EA
9	Combination Air/Vacuum Valve	4	EA
10	Mechanical Joint Restraints	66	EA
11	Bollard	4	EA
12	Silt Fence	4,600	LF
13	Construction Entrance	1	EA
14	Hydro-Mulch and Seeding	30	AC
15	Easement through Camp Property	1	LS
16	Mobilization, Bonds, & Insurance	1	LS

- b. The plan must be in compliance with the City's master plans.
- c. The plans and specifications must comply with City Water Distribution Standards and Standard Specifications.
- d. Before the Developer/Owner starts construction the plans and specification must be approved by the City's Development Services Engineer.

4. **SITE IMPROVEMENTS**

Prior to the start of construction of the Grid Main Extension, Developer/Owner shall acquire and dedicate to the City the required additional utility easements "Easements", if necessary for the completion of the Grid Main Extension. If any of the property needed for the Easements is owned by a third party and Developer/Owner is unable to acquire the Easements through reasonable efforts, then the City may use its powers of eminent domain to acquire the Easements. Developer will be responsible for cost of acquisition, payable from the reimbursement agreed to in this agreement.

5. PLATTING FEES

Developer/Owner shall pay to the City of Corpus Christi the required acreage fees and pro-rata fees as required by the UDC.

6. DEVELOPER/OWNER AWARD CONTRACT FOR IMPROVEMENTS

Developer/Owner shall award a contract and complete the improvements to Grid Main Extension, under the approved plans and specifications by, **May 30, 2021**.

7. TIME IS OF THE ESSENCE

Time is of the essence in the performance of this contract.

8. PROMPT AND GOOD FAITH ACTIONS

The parties shall act promptly and in good faith in performing their duties or obligations under this Agreement. If this Agreement calls for review or inspections by the City, then the City's reviews or inspections must be completed thoroughly and promptly.

9. DEFAULT

The following events shall constitute default:

- a. Developer/Owner fails to engage a professional engineer for the preparation of plans and specifications by the 10th calendar day after the date of approval by City Council.
- b. Developer/Owner's professional engineer fails to submit the plans and specifications to the City's Director of Engineering Services by the 40th calendar day after the date of approval by City Council.
- c. Developer/Owner fails to award a contract for the construction of the project, according to the approved plans and specifications, by the 70th calendar day after the date of approval by City Council.
- d. Developer/Owner's contractor does not reasonably pursue construction of the project under the approved plans and specifications.
- e. Developer/Owner's contractor fails to complete construction of the project, under the approved plans and specifications, on or before **May 30, 2021**.
- f. Either the City or Developer/Owner otherwise fails to comply with its duties and obligations under this Agreement.

10. NOTICE AND CURE

- a. In the event of a default by either party under this Agreement, the non-defaulting party shall deliver notice of the default, in writing, to the defaulting party stating, in detail the nature of the default and the requirements to cure such default.
- b. After delivery of the default notice, the defaulting party has 15 business days from the delivery of the default notice ("Cure Period") to cure the default.
- c. In the event the default is not cured by the defaulting party within the Cure Period, then the non-defaulting party may pursue its remedies in this section.
- d. Should Developer/Owner fail to perform any obligation or duty of this Agreement, the City shall give notice to Developer/Owner, at the address stated in section 12, of the need to perform the obligation or duty, and should Developer/Owner fail to perform the required obligation or duty within 15 days of receipt of the notice, the City may perform the obligation or duty, charging the cost of such performance to Developer/Owner by reducing the reimbursement amount due Developer/Owner.
- e. In the event of an uncured default by the Developer/Owner, after the appropriate notice and cure period, the City has all its common law remedies and the City may:
 1. Terminate this Agreement after the required notice and opportunity to cure the default;
 2. Refuse to record a related plat or issue any certificate of occupancy for any structure to be served by the project; and/or
 3. Perform any obligation or duty of the Developer/Owner under this agreement and charge the cost of such performance to Developer/Owner. Developer/Owner shall pay to City the reasonable and necessary cost of the performance within 30 days from the date Developer/Owner receives notice of the cost of performance. In the event that Developer/Owner pays the City under the preceding sentence, and is not otherwise in default under this Agreement, then the Agreement shall be considered in effect and no longer in default.
- f. In the event of an uncured default by the City after the appropriate notice and cure period, the Developer/Owner has all its remedies at law or equity for such default.

11. FORCE MAJEURE

- a. The term "force majeure" as employed in this Agreement means and refers to acts of God; strikes, lockouts, or other industrial disturbances; acts of public enemies; insurrections; riots; epidemic; landslides; lightning; earthquakes; fires; hurricanes; storms; floods; washouts; droughts; arrests; civil disturbances; explosions; or other causes not reasonably within the control of the party claiming the inability.
- b. If, by reason of force majeure, either party is rendered wholly or partially unable to carry out its obligations under this Agreement, then the party shall give written notice of the full particulars of the force majeure to the other party within ten (10)

business days after the occurrence or waive the right to claim it as a justifiable reason for delay. The obligations of the party giving the required notice, to the extent affected by the force majeure, are suspended during the continuance of the inability claimed, but for no longer period, and the party shall endeavor to remove or overcome such inability with all reasonable dispatch.

12. NOTICES

a. Any notice or other communication required or permitted to be given under this Agreement must be given to the other Party in writing at the following address:

1. If to the Developer/Owner:

Braselton Custom Homes LTD
5337 Yorktown Boulevard
Corpus Christi TX 78413

2. If to the City:

City of Corpus Christi
Attn: Director, Development Services Department
2406 Leopard Street 78401
P. O. Box 9277
Corpus Christi, Texas 78469-9277

with a copy to:

City of Corpus Christi
Attn: Assistant City Manager, Business Support Services
1201 Leopard Street 78401
P. O. Box 9277
Corpus Christi, Texas 78469-9277

b. Notice required by the paragraph may be by United States Postal Service, First Class Mail, Certified, Return Receipt Requested, postage prepaid; by a commercial delivery service that provides proof of delivery, delivery prepaid; or by personal delivery.

c. Either party may change of address for notices by giving notice of the change under the provisions of this section.

13. THIRD-PARTY BENEFICIARY

Developer/Owner's contracts with the professional engineer for the preparation of the plans and specifications for the construction of the project, contracts for testing services,

and with the contractor for the construction of the project must provide that the City is a third-party beneficiary of each contract.

14. PERFORMANCE AND PAYMENT BONDS

Developer/Owner shall, before beginning the work that is the subject of this Agreement, furnish a performance bond if the contract is in excess of \$100,000 and a payment bond if the contract is in excess of \$50,000. Bonds furnished must meet the requirements of Texas Insurance Code 3503, Texas Government Code 2253, and all other applicable laws and regulations. The performance or payment bond must name the City as an obligee. If the Developer/Owner is not an obligor, then Developer/Owner shall be named as a joint obligee. The bond must clearly and prominently display on the bond or on an attachment to the bond:

(1) the name, mailing address, physical address, and telephone number, including the area code, of the surety company to which any notice of claim should be sent; or

(2) the toll-free telephone number maintained by the Texas Department of Insurance under Subchapter B, Chapter 521, Insurance Code, and a statement that the address of the surety company to which any notice of claim should be sent may be obtained from the Texas Department of Insurance by calling the toll-free telephone number.

15. WARRANTY

Developer/Owner shall fully warranty the workmanship of and function of the Grid Main Extension and the construction thereof for a period of one year from and after the date of acceptance of the facilities by the City's Director of Engineering Services.

16. REIMBURSEMENT

- a. The cost for the Grid Main Extension less \$16,926.00 lot/acreage fee credit is \$1,233,230.25. Subject to the conditions for reimbursement from the Water Arterial Transmission and Grid Main Trust Fund and the appropriation of funds, the City will reimburse the developer, the reasonable actual cost of the Grid Main Extension up to an amount not to exceed \$1,233,230.25 as shown in the attached **Exhibit 4**, the contents of such exhibit being incorporated by reference into this Agreement.
- b. Subject to the conditions for reimbursement from the Water Arterial Transmission and Grid Main Trust Fund and the appropriation of funds, the City agrees to reimburse the Developer/Owner on a monthly basis upon invoicing for work performed. The submitted invoice shall be deemed administratively complete by the City prior to payment. The reimbursement will be made no later than 30-days from the date of the City's administrative approval of the invoice. Developer/Owner shall submit all required performance bonds and proof of required insurance under the provisions of this Agreement as detailed in paragraph 14.
- c. Cost-supporting documentation to be submitted shall include:

1. Summary of Costs and Work Performed Form provided by the Development Services Department
 2. Contractor and professional services invoices detailing work performed
 3. The first reimbursement request requires submittal of invoices for work performed. Future disbursements shall provide evidence of payment by the developer/owner through a cancelled check or bank ACH for the previous submittal. The final reimbursement request shall require evidence that all invoices to date have been paid.
- d. To be eligible for reimbursement, the work constructed in a good and workmanlike manner, and must have been inspected and accepted by the City. The City agrees to conduct periodic inspections and approve the progress of the work at key points during construction.

The final 5% of the total contract reimbursement amount will be held as retainage until such time the City issues acceptance of public infrastructure in accordance with Unified Development Code.

- e. In the event that this Agreement is terminated by the City at a time when there has been a partial completion and partial payment for the improvements, then the City shall only reimburse Developer/Owner for its costs that were legitimately incurred towards the completion of the improvements that have been inspected and accepted by the City up to the time that there is an uncured default by the Developer/Owner.

17. PAYMENTS, CREDITS AND DEFERRED REIMBURSEMENT.

All payments, credits, priority of reimbursement, and deferred reimbursement shall be made in accordance with UDC §8.5. Developer/Owner understands and agrees that if funds are not available in the Water Arterial Transmission and Grid Main Trust Fund, that reimbursement will not be made until such funds are available, appropriated, and this Agreement has priority per UDC §8.5.1. C.

18. INDEMNIFICATION

Developer/Owner covenants to fully indemnify, save and hold harmless the City of Corpus Christi, its officers, employees, and agents, ("indemnitees") against any and all liability, damage, loss, claims, demands suits and causes of action of any nature whatsoever asserted against or recovered from city on account of injury or damage to person including, without limitation on the foregoing, workers compensation and death claims, or property loss or damage of any other kind whatsoever, to the extent any injury, damage, or loss may be incident to, arise out of, be caused by, or be in any way connected with, either proximately or remotely, wholly or in part, the Developer/Owner's failure to comply with its obligations under

this agreement or to provide city water service to the development, including injury, loss, or damage which arise out of or are in any manner connected with, or are claimed to arise out of or be in any manner connected with the construction, installation, existence, operation, use, maintenance, repair, restoration, or removal of the public improvements associated with the development described above, including the injury, loss or damage caused by the sole or contributory negligence of the indemnitees or any of them, regardless of whether the injury, damage, loss, violation, exercise of rights, act, or omission is caused or is claimed to be caused by the contributing or concurrent negligence of indemnitees, or any of them, but not if caused by the sole negligence of indemnitees, or any of them, unmixed with the fault of any other person or entity, and including all expenses of litigation, court costs, and attorney's fees, which arise, or are claimed to arise, out of or in connection with the asserted or recovered incident.

This indemnity specifically includes all claims, damages, and liabilities of whatever nature, foreseen or unforeseen, under any hazardous substance laws, including but not limited to the following:

(a) all fees incurred in defending any action or proceeding brought by a public or private entity and arising from the presence, containment, use, manufacture, handling, creating, storage, treatment, discharge, release or burial on the property or the transportation to or from the property of any hazardous substance. The fees for which the developer/owner shall be responsible under this subparagraph shall include but shall not be limited to the fees charged by (i) attorneys, (ii) environmental consultants, (iii) engineers, (iv) surveyors, and (v) expert witnesses.

(b) any costs incurred attributable to (i) the breach of any warranty or representation made by Developer/Owner in this agreement, or (ii) any cleanup, detoxification, remediation, or other type of response action taken with respect to any hazardous substance on or under the property regardless of whether or not that action was mandated by the federal, state or local government.

This indemnity shall survive the expiration or earlier termination of the agreement.

19. ASSIGNMENT OF AGREEMENT

This Agreement may be assigned by Developer/Owner to another with the written consent of the City's City Manager.

20. DISCLOSURE OF INTERESTS

Developer/Owner agrees, in compliance with the Corpus Christi Code of Ordinance Sec. 2-349, to complete, as part of this Agreement, the Disclosure of Interests form attached hereto as **Exhibit 5**.

21. EFFECTIVE DATE

This Agreement shall be executed in one original, which shall be considered one instrument. *This Agreement becomes effective and is binding upon, and inures to the benefit of the City and Developer/Owner from and after the date that all original copies have been executed by all signatories.

22. DEDICATION OF GRID MAIN EXTENSION.

Upon completion of the construction, dedication of Grid Main Extension will be subject to City inspection and approval.

23. CERTIFICATE OF INTERESTED PARTIES.

Developer/Owner agrees to comply with Texas Government Code section 2252.908 and complete Form 1295 Certificate of Interested Parties as part of this agreement.

Form 1295 requires disclosure of "interested parties" with respect to entities that enter contracts with cities. These interested parties include:

(1) persons with a "controlling interest" in the entity, which includes:

- a. an ownership interest or participating interest in a business entity by virtue of units, percentage, shares, stock or otherwise that exceeds 10 percent;
- b. membership on the board of directors or other governing body of a business entity of which the board or other governing body is composed of not more than 10 members; or
- c. service as an officer of a business entity that has four or fewer officers, or service as one of the four officers most highly compensated by a business entity that has more than four officers.

(2) a person who actively participates in facilitating a contract or negotiating the terms of a contract with a governmental entity or state agency, including a broker, intermediary, adviser or attorney for the business entity.

Form 1295 must be electronically filed with the Texas Ethics Commission at https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm. The form must then be printed, signed, notarized and filed with the City. For more information, please review the Texas Ethics Commission Rules at <https://www.ethics.state.tx.us/legal/ch46.html>.

24. CONFLICT OF INTEREST.

Developer/Owner agrees to comply with Chapter 176 of the Texas Local Government Code and file Form CIQ with the City Secretary's Office, if required. For more information and to determine if you need to file a Form CIQ, please review the information on the City Secretary's website at <http://www.cctexas.com/government/city-secretary/conflict-disclosure/index>

25. AUTHORITY.

All signatories signing this Agreement warrant and guarantee that they have the authority to act on behalf of the entity represented and make this Agreement binding and enforceable by their signature.

Remainder of page intentionally left blank; signature page to follow.

EXECUTED IN ONE ORIGINAL this _____ day of _____, 20__.

ATTEST:

CITY OF CORPUS CHRISTI

Rebecca Huerta
City Secretary

Al Raymond
Director for Development Services
For City Manager

APPROVED AS TO LEGAL FORM:

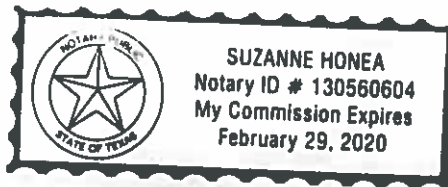
Buck Brice (Date)
Assistant City Attorney
For City Attorney

Braselton Custom Homes LTD.

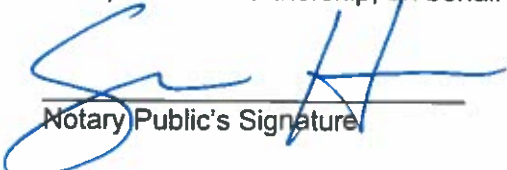
By: 
Bart Braselton
Vice President

STATE OF Texas
COUNTY OF Nueces

10000000

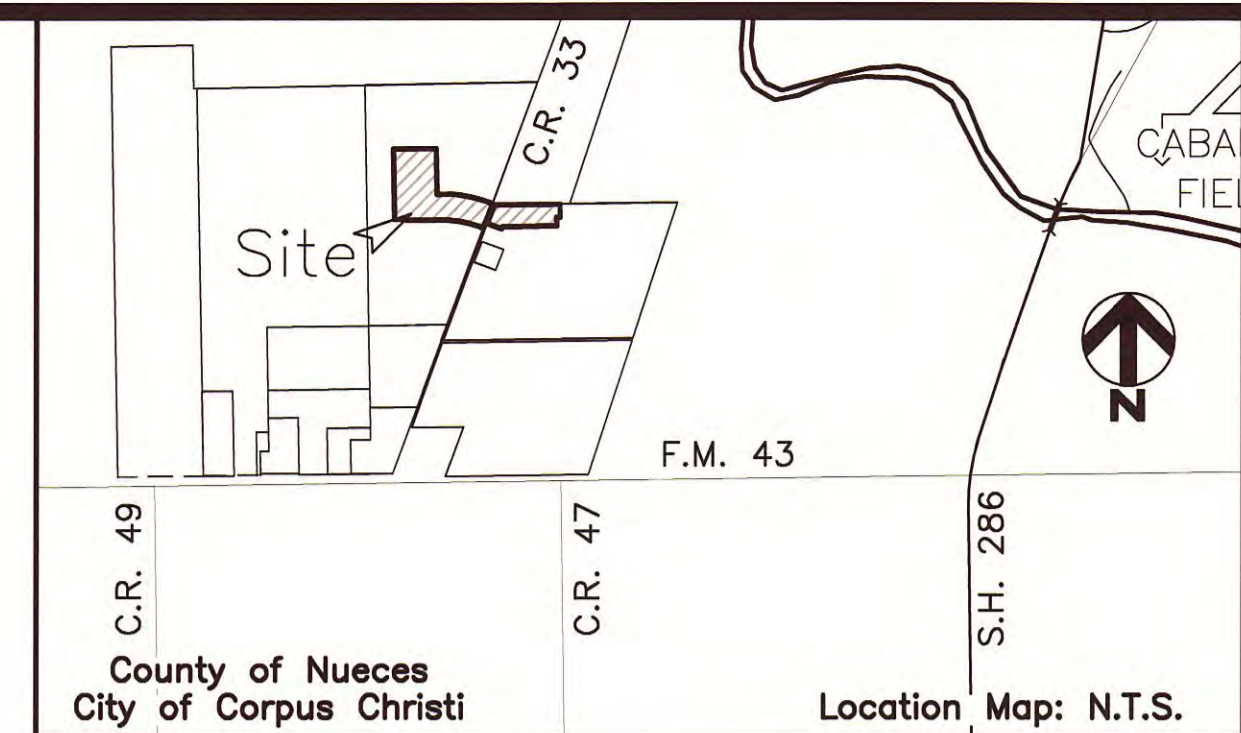


This instrument was acknowledged before me on October 9, 2019, by Bart Braselton, Vice President, Braselton Custom Homes LTD, a Texas Partnership, on behalf of said corporation.


Notary Public's Signature

Notes:

- Total platted area contains 22.91 Acres of Land. (Includes street dedication)
- 5/8 Inch Iron Rod with red plastic cap stamped "URBAN ENGR CCTX" Set at all lot corners, unless otherwise noted.
- The receiving water for the storm water runoff from this property is the Oso Creek. The TCEQ has not classified the aquatic life use for the Oso Creek, but it is recognized as an environmentally sensitive area. The Oso Creek flows directly into the Oso Bay. The TCEQ has classified the aquatic life use for the Oso Bay as "exceptional" and "oyster waters" and categorized the receiving water as "contact recreation" use.
- Grid Bearings and Distances shown hereon are referenced to the Texas Coordinate System of 1983, Texas South Zone 4205, and are based on the North American Datum of 1983(2011) Epoch 2010.00.
- By graphic plotting only, this property is in Zone "C" on Flood Insurance Rate Map, Community Panel No. 485494 0505 D, Corpus Christi, Texas, which bears an effective date of June 4, 1987, and it is not located in a Special Flood Hazard Area. Per preliminary Flood Insurance Rate Map, Community Panel No. 48355C0505G, Nueces County, Texas, the property is in Zone "X" (Area of 0.2% annual chance flood) and Zone "X" (Area outside of 0.2% annual chance floodplain). The more stricter of the two designations shall be considered.
- Lot 1, Block 4; Lot 1, Block 9; Lot 1, Block 17; Lot 1 Block 18; Lot 1, Block 19; Lot 1, Block 21 and Lot 1, Block 22 are non-buildable lots that will be maintained by the Home Owners Association.
- Lot 1, Block 7 is a Park Area to be maintained by the Home Owners Association.
- Direct access onto County Road 33 is prohibited.
- Property to be re-zoned to RS-4.5 concurrent with annexation.
- Direct access to London Towne Boulevard is prohibited from Block 17, Lot 2 and Block 19, Lot 2.
- Block 18, Lot 1 (Park); Block 21, Lot 1 (Park) and Block 22, Lot 1 (Park) are designated as a utility easement and drainage easement. Park related structures shall be allowed within these lots.



Plat of
London Towne Subdivision
Unit 1

being a 22.91 Acre Tract, comprising of a 17.05 Acre Tract and a 5.86 Acre Tract of which the said 17.05 Acre Tract is situated in the Cuadrilla Irrigation Co. Survey No. 139, Abstract 577 and the I.&G.N.R.R. Co. Survey No. 140, Abstract 612, as shown on the map of Laureles Farm Tracts, a map of which is recorded in Volume 3, Page 15, Map Records of Nueces County, Texas and being a portion of Tract II, described as a 118.126 Acre Tract in a Correction Warranty Deed from Sheilah London to Bill J. Brown, Reagan Travis Brown and Alyssa Ann Brown McCoy, recorded in Document No. 2015011169, Official Public Records of Nueces County, Texas; said 5.86 Acre Tract, being situated in Section D, as shown on the said map of Laureles Farm Tracts and being a portion of a called 21.76 Acre Tract of Land described in a Warranty Deed with Vendor's Lien from Joseph John Meaney, as Trustee of the Claire Elizabeth Haynes Trust, the Isabelle Marie Haynes Trust, and the Emily P. Haynes Trust, by and through his Attorney-in-Fact, David Walsh; and Elizabeth Anne Meaney, Trustee of the Lucy A. Haynes Trust, to Braselton Development Company, Ltd., a Texas limited partnership, recorded in Document No. 2019002524, Official Public Records of Nueces County, Texas.

State of Texas
County of Nueces

This final plat of the herein described property was approved by the Department of Development Services of the City of Corpus Christi, Texas.

This the _____ day of _____, 20____

William J. Green, P.E.
Development Services Engineer

State of Texas
County of Nueces

This final plat of the herein described property was approved on behalf of the City of Corpus Christi, Texas by the Planning Commission.

This the _____ day of _____, 20____

Nina Nixon-Mendez, FAICP
Secretary

Eric Villarreal, P.E.
Chairman

State of Texas
County of Nueces

I, Kara Sands, Clerk of the County Court in and for said County, do hereby certify that the foregoing instrument dated the ___ day of _____, 20____, with its certificate of authentication was filed for record in my office the ___ day of _____, 20____. At ___ O'clock ___M., and duly recorded the ___ day of _____, 20____, at ___ O'clock ___M., in said County in Volume _____, Page _____, Map Records.

Witness my hand and seal of the County Court, in and for said County, at office in Corpus Christi, Texas, the day and year last written.

No. _____
Filed for Record

Kara Sands, County Clerk
Nueces County, Texas

at _____ O'clock ___M.
_____, 20____

By: _____
Deputy

State of Texas
County of Nueces

I, James D. Carr, a Registered Professional Land Surveyor for Urban Engineering, have prepared the foregoing map from a survey made on the ground under my direction and is true and correct to the best of my knowledge, information and belief; I have been engaged under contract to set all Lot and Block corners as shown herein and to complete such operations with due and reasonable diligence consistent with sound professional practice.

This the _____ day of _____, 20____

Preliminary, this document shall not be recorded for any purpose and shall not be used or viewed or relied upon as a final survey document.

James D. Carr, R.P.L.S.
Texas License No. 6458

State of Texas
County of Nueces

Braselton Development Company, Ltd., a Texas limited partnership, hereby certifies that it is the owner of the lands embraced within the boundaries of the foregoing plat; that it has had said lands surveyed and subdivided as shown; that streets shown are dedicated, to the public use forever; that easements as shown are dedicated to the public use for the installation, operation and use of public utilities; and that this map was made for the purpose of description and dedication.

This the _____ day of _____, 20____

By: Braselton Development Company, Ltd., a Texas limited partnership

By: Braselton Management Company, LLC, its general partner

By: _____
Fred Braselton, President

State of Texas
County of Nueces

This instrument was acknowledged before me by Fred Braselton, as President of Braselton Management Company, LLC, general partner of Braselton Development Company, Ltd., a Texas limited partnership, on behalf of said entity in said capacity.

This the _____ day of _____, 20____

Notary Public in and for the State of Texas

State of Texas
County of Nueces

AMERICAN BANK, hereby certifies that it holds a lien on the property owned by Braselton Development Company, Ltd., a Texas limited partnership, as shown on the foregoing map and it approves of the subdivision and dedication for the purposes and considerations therein expressed.

This the _____ day of _____, 20____

By: AMERICAN BANK

By: _____
PHILLIP J. RITLEY, Senior Lending Officer

State of Texas
County of Nueces

This instrument was acknowledged before me by PHILLIP J. RITLEY, as Senior Lending Officer of AMERICAN BANK, on behalf of said bank.

This the _____ day of _____, 20____

Notary Public in and for the State of Texas



Revised: 5/3/19
Revised: 4/10/19
Submitted: 2/6/19
SCALE: None
JOB NO.: 42900.B9.02
SHEET: 1 of 2
DRAWN BY: XG
© 2019 by Urban Engineering
urbansurvey1@urbaneng.com

- Legend:**
- 5/8 Inch Iron Rod with cap stamped "URBAN ENGR CCTX" Found
 - 5/8 Inch Iron Rod with cap stamped "URBAN ENGR CCTX" Set
 - MAG Nail with Washer stamped "URBAN ENGR CCTX" Set
 - Nail, Found



LINE	BEARING	DISTANCE
L1	S01°00'19"E	3.44'
L2	N88°59'41"E	161.00'
L3	N01°00'19"W	2.56'
L4	S69°43'18"W	37.77'
L5	N69°43'18"W	38.09'
L6	N01°00'19"W	10.00'
L7	S88°59'41"W	161.00'
L8	S00°47'01"E	171.00'
L9	S89°12'59"W	47.72'
L10	S00°47'01"E	114.00'
L11	S20°16'42"W	37.91'
L12	N78°54'21"E	20.44'
L13	N78°54'21"E	117.54'
L14	S02°17'14"W	6.00'
L15	S00°37'47"W	6.00'
L16	S01°00'19"E	6.00'
L17	N88°59'41"E	50.00'
L18	S01°00'19"E	6.00'
L19	S88°59'41"W	25.43'
L20	N09°57'55"E	6.00'
L21	S12°27'57"W	6.00'
L22	S14°05'42"W	6.00'
L23	S16°55'17"W	6.00'
L24	S18°33'02"W	6.00'
L25	N17°36'08"E	6.00'
L26	S15°56'41"W	6.00'
L27	S12°29'33"W	6.00'
L28	S10°50'06"W	6.00'
L29	S07°23'32"W	6.00'
L30	N05°44'05"E	6.00'
L31	S20°16'42"W	34.84'
L32	S65°16'42"W	24.59'
L33	S24°43'18"E	24.59'
L34	S69°43'18"E	80.02'
L35	S69°43'18"E	153.00'
L36	S69°43'18"E	109.00'
L37	N69°43'18"W	109.00'
L38	N69°43'18"W	153.00'
L39	N69°43'18"W	90.00'
L40	N20°16'42"E	45.00'
L41	N20°16'42"E	34.84'
L42	S69°43'18"E	12.50'
L43	S03°41'09"W	52.00'
L44	S01°00'19"E	19.00'
L45	N08°20'10"E	6.00'
L46	S78°54'21"W	156.35'
L47	N88°59'41"E	153.35'
L48	N69°43'18"W	12.50'
L49	N07°05'09"E	6.00'
L50	N20°16'42"E	34.74'
L51	N88°59'41"E	37.43'
L52	N05°27'24"E	6.00'
L53	N89°12'59"W	63.60'
L54	N65°16'42"E	24.75'
L55	S24°43'18"E	24.75'
L56	N20°16'42"E	34.74'

118.126 Acre Tract
(Doc. No. 201501169, O.P.R.N.C.T.)
(Owner: Bill J. Brown, Reagan Travis Brown and Alyssa Ann Brown McCoy)

CURVE	DELTA ANGLE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C1	16°05'05"	1915.42'	537.71'	S77°45'50"E	535.95'
C2	21°17'01"	1571.42'	583.73'	N80°21'49"W	580.38'
C3	169°54'40"	2.00'	5.93'	N06°02'59"W	3.98'
C4	12°09'55"	289.50'	61.47'	S84°59'19"W	61.35'
C5	1°39'30"	1758.42'	50.90'	N88°05'59"W	50.89'
C6	180°00'00"	15.00'	47.12'	N02°43'47"E	30.00'
C7	26°33"	1728.42'	13.35'	S87°29'30"E	13.35'
C8	1°39'27"	1734.42'	50.17'	S88°32'29"E	50.17'
C9	1°38'06"	1728.42'	49.33'	N89°48'44"E	49.32'
C10	48°52"	1758.42'	24.99'	N84°57'02"W	24.99'
C11	1°37'45"	1752.42'	49.83'	N83°43'44"W	49.83'
C12	1°15'01"	1758.42'	38.37'	N82°17'21"W	38.37'
C13	1°37'45"	1752.42'	49.83'	N80°50'58"W	49.83'
C14	2°30'02"	1758.42'	76.74'	N78°47'04"W	76.74'
C15	1°37'45"	1752.42'	49.83'	N76°43'11"W	49.83'
C16	2°49'35"	1758.42'	86.74'	N74°29'31"W	86.73'
C17	1°37'45"	1752.42'	49.83'	N72°15'51"W	49.83'
C18	1°34'47"	1758.42'	48.49'	S70°39'34"E	48.48'
C19	180°00'00"	15.00'	47.12'	S20°07'49"W	30.00'
C20	2°31'42"	1728.42'	76.27'	S71°08'01"E	76.26'
C21	1°39'27"	1734.42'	50.17'	S73°13'36"E	50.17'
C22	3°27'08"	1728.42'	104.14'	S75°46'53"E	104.12'
C23	1°39'27"	1734.42'	50.17'	S78°20'10"E	50.17'
C24	3°26'34"	1728.42'	103.86'	S80°53'11"E	103.84'
C25	1°39'27"	1734.42'	50.17'	S83°26'11"E	50.17'
C26	1°05'33"	1728.42'	32.96'	N84°48'41"W	32.96'
C27	180°00'00"	15.00'	47.12'	S04°38'32"W	30.00'
C28	58°01"	1706.42'	28.80'	N70°27'36"W	28.80'
C29	180°00'00"	15.00'	47.12'	S20°16'42"W	30.00'
C30	180°00'00"	15.00'	47.12'	S20°16'42"W	30.00'
C31	28°04'21"	25.00'	12.25'	S76°44'51"E	12.13'
C32	95°48'48"	60.00'	100.34'	N69°22'56"E	89.05'
C33	88°48'10"	20.00'	31.00'	N65°52'37"E	27.99'
C34	90°00'00"	20.00'	31.42'	S24°43'18"E	28.28'
C35	90°00'00"	20.00'	31.42'	N65°16'42"E	28.28'
C36	90°00'00"	20.00'	31.42'	N24°43'18"W	28.28'
C37	68°56'17"	10.00'	12.03'	N54°44'50"E	11.32'
C38	90°00'00"	10.00'	15.71'	S46°00'19"E	14.14'
C39	90°00'00"	10.00'	15.71'	N43°59'41"W	14.14'
C40	90°00'00"	10.00'	15.71'	S46°00'19"E	14.14'
C41	90°00'00"	10.00'	15.71'	S43°59'41"W	14.14'
C42	90°00'00"	15.00'	23.56'	N43°59'41"E	21.21'
C43	90°00'00"	15.00'	23.56'	N46°00'19"W	21.21'
C44	90°00'00"	15.00'	23.56'	N43°59'41"E	21.21'
C45	90°00'00"	15.00'	23.56'	S46°00'19"E	21.21'
C46	10°05'20"	300.00'	52.82'	N83°57'01"E	52.76'
C47	12°09'55"	311.50'	66.14'	N84°59'19"E	66.02'
C48	1°31'05"	1780.42'	47.17'	S88°10'11"E	47.17'
C49	93°35'41"	15.00'	24.50'	N45°47'31"E	21.87'
C50	83°58'16"	15.00'	21.98'	S42°59'28"E	20.07'
C51	15°00'58"	1780.42'	466.62'	N77°28'07"W	465.28'
C52	89°45'41"	20.00'	31.33'	N65°09'32"E	28.23'
C53	90°15'17"	20.00'	31.50'	S24°50'57"E	28.35'
C54	21°01'44"	1706.42'	626.29'	N80°29'27"W	622.78'
C55	12°09'55"	300.50'	63.80'	S84°59'19"W	63.68'
C56	11°25'	1769.41'	5.87'	N86°13'08"W	5.87'
C57	16°24'08"	1769.42'	506.53'	N77°55'22"W	504.81'
C58	16°35'33"	1717.42'	497.35'	S78°01'04"E	495.61'
C59	4°41'29"	1717.42'	140.62'	S88°39'35"E	140.58'
C60	7°15'32"	20.00'	2.53'	N73°35'23"W	2.53'
C61	02°36'53"	20.00'	28.80'	S61°31'46"W	26.37'
C62	02°36'53"	1769.42'	80.75'	N87°37'17"W	80.74'

CURVE	DELTA ANGLE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C63	7°45'08"	20.00'	2.71'	S66°06'01"E	2.70'
C64	82°30'09"	20.00'	28.80'	N20°58'23"W	26.37'
C65	82°49'09"	20.00'	28.91'	N61°41'17"E	26.46'
C66	7°10'51"	20.00'	2.51'	S73°18'43"E	2.50'
C67	7°10'51"	20.00'	2.51'	S66°07'53"E	2.50'
C68	82°49'09"	20.00'	28.91'	S21°07'53"E	26.46'

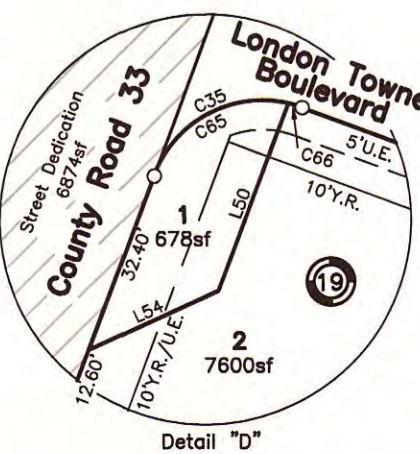
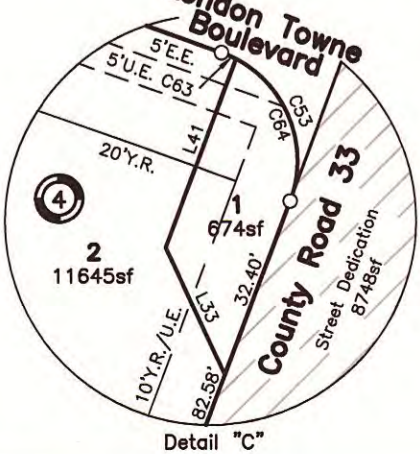
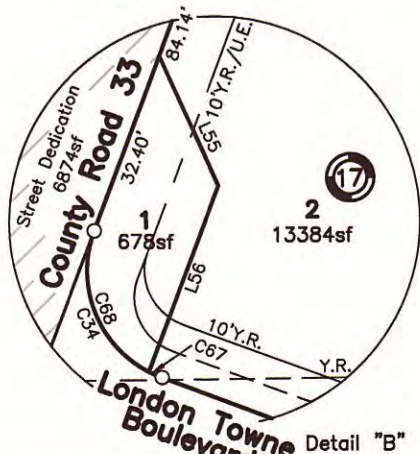
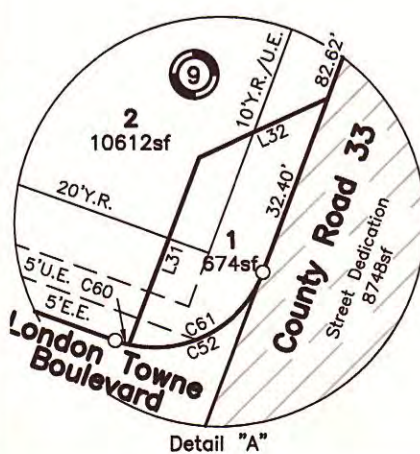
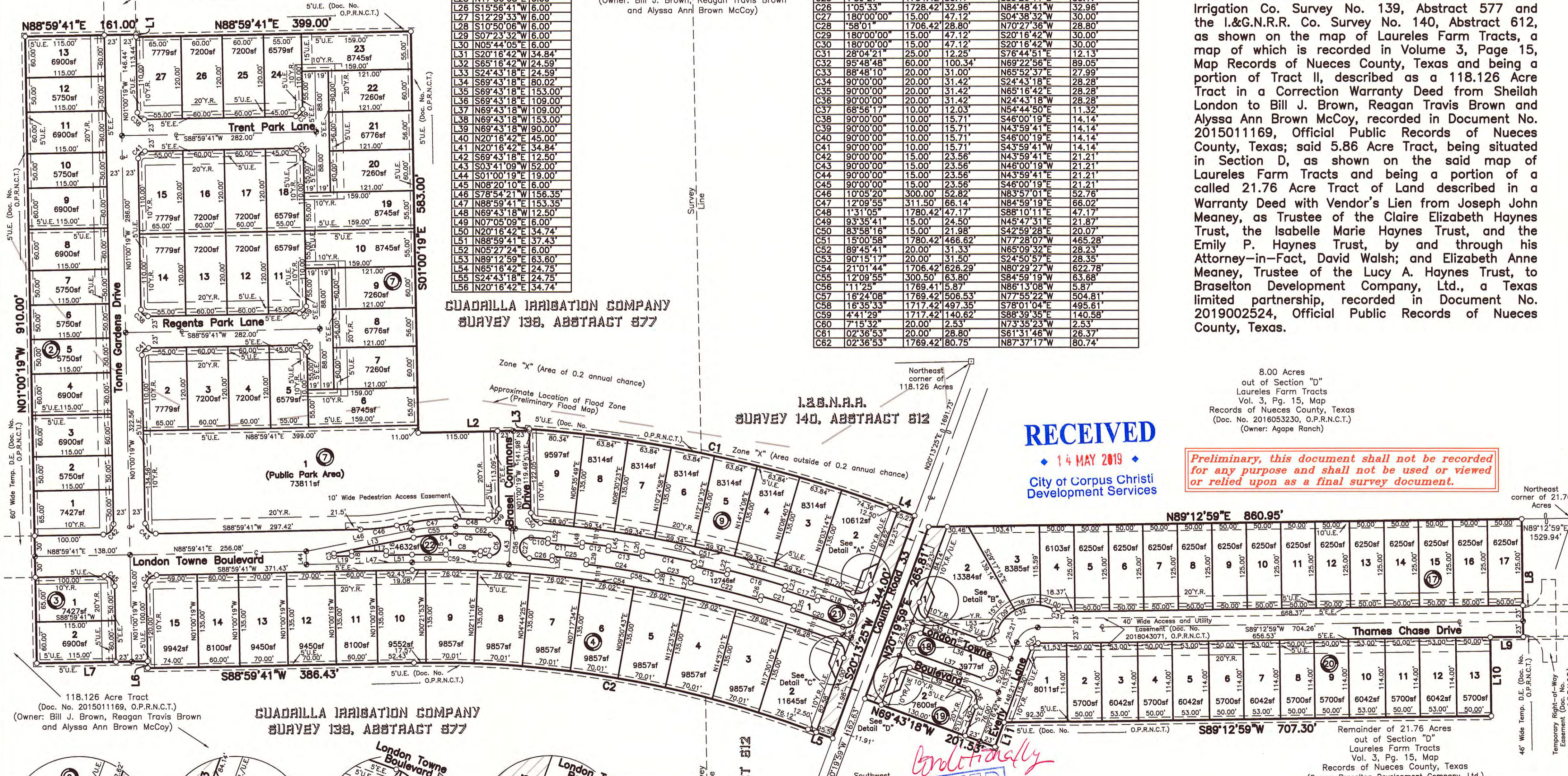
Plat of
London Towne Subdivision
Unit 1

being a 22.91 Acre Tract, comprising of a 17.05 Acre Tract and a 5.86 Acre Tract of which the said 17.05 Acre Tract is situated in the Cuadrilla Irrigation Co. Survey No. 139, Abstract 877 and the I.&G.N.R.R. Co. Survey No. 140, Abstract 812, as shown on the map of Laureles Farm Tracts, a map of which is recorded in Volume 3, Page 15, Map Records of Nueces County, Texas and being a portion of Tract II, described as a 118.126 Acre Tract in a Correction Warranty Deed from Sheila London to Bill J. Brown, Reagan Travis Brown and Alyssa Ann Brown McCoy, recorded in Document No. 201501169, Official Public Records of Nueces County, Texas; said 5.86 Acre Tract, being situated in Section D, as shown on the said map of Laureles Farm Tracts and being a portion of a called 21.76 Acre Tract of Land described in a Warranty Deed with Vendor's Lien from Joseph John Meaney, as Trustee of the Claire Elizabeth Haynes Trust, the Isabelle Marie Haynes Trust, and the Emily P. Haynes Trust, by and through his Attorney-in-Fact, David Walsh; and Elizabeth Anne Meaney, Trustee of the Lucy A. Haynes Trust, to Braselton Development Company, Ltd., a Texas limited partnership, recorded in Document No. 2019002524, Official Public Records of Nueces County, Texas.

8.00 Acres
out of Section "D"
Laureles Farm Tracts
Vol. 3, Pg. 15, Map
Records of Nueces County, Texas
(Doc. No. 2016053230, O.P.R.N.C.T.)
(Owner: Agape Ranch)

RECEIVED
14 MAY 2019
City of Corpus Christi
Development Services

Preliminary, this document shall not be recorded for any purpose and shall not be used or viewed or relied upon as a final survey document.



APPROVED
MAY 15 2019
PLANNING COMMISSION

Portion of 173.21 Acre Tract
out of Section "D"
Laureles Farm Tracts
Vol. 3, Pg. 15, Map
Records of Nueces County, Texas
(Owner: Mary Cecile Meaney)
(Doc. No. 2016050730, O.P.R.N.C.T.)

URBAN ENGINEERING
TYPE FIRM NO. 145, TBPFS FIRM NO. 10032400
2725 SWANWYNDY DR., CORPUS CHRISTI, TX 78404
PHONE: 361.864.3101 WWW.URBANENG.COM

Revised: 5/3/19
Revised: 4/10/19
Submitted: 2/6/19
SCALE: 1"=100'
JOB NO.: 42900.B9.02
SHEET: 2 of 2
DRAWN BY: XG
© 2019 by Urban Engineering
urbansurvey1@urbaneng.com

APPLICATION FOR WATER LINE REIMBURSEMENT

We, Braselton Custom Homes LTD, a Texas Partnership, 5337 Yorktown Boulevard, Corpus Christi Texas, 78413, developers of proposed London Towne Unit 1, hereby request reimbursement of \$1,485,130.25, for the installation of the water arterial grid main line, as provided for by City Ordinance No. 17092. \$1,502,056.25 is the construction cost, including 8% Engineering, 4% Surveying, Testing and Staking, and 10% Contingency as shown by the cost supporting documents attached herewith.

By:

Bart Braselton, Vice President

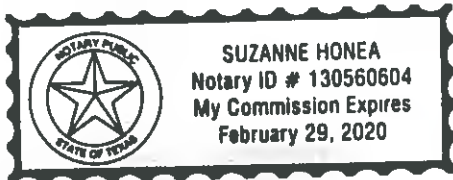
THE STATE OF TEXAS §

COUNTY OF NUECES §

This instrument was acknowledged before me on October, 9, 2019, by

Bart Braselton, Vice President, Braselton Custom Homes LTD, a Texas Partnership, on behalf of said corporation.

Notary Public in and for the State of Texas



CERTIFICATION

The information submitted with this application for reimbursement has been reviewed and determined to be correct. Reimbursement is subject to:

- (a) Sufficiency of funds in the Distribution Main Trust Fund, and
- (b) Appropriation and approval by the City Council.

Development Services
Contracts Administrator

Date

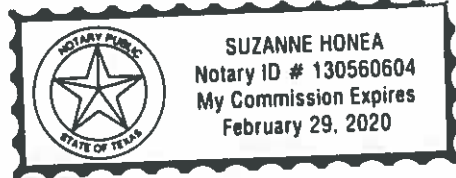
APPLICATION FOR WATER LINE CREDIT

We, Braselton Custom Homes, LTD, 5337 Yorktown Boulevard, Corpus Christi, TX 78413, owners and developers of proposed London Towne Unit 1, hereby apply for \$16,926.00 credit towards the water system lot fee for the installation of the water arterial transmission and grid main as provided for by City Ordinance No. 17092. \$1,502,056.25 is the estimated construction cost as shown by the cost supporting documents attached herewith.

By: [Signature]

Title: Vice President

Date: 10/9/19



THE STATE OF TEXAS §

COUNTY OF NUECES §

This instrument was acknowledged before me on October 9, 2019, by

Bart Braselton, Vice President, Braselton Custom Homes, LTD, a Texas Corporation, on behalf of the said corporation.

[Signature]
Notary Public in and for the State of Texas

PUBLIC IMPROVEMENT CONSTRUCTION PLANS

FOR

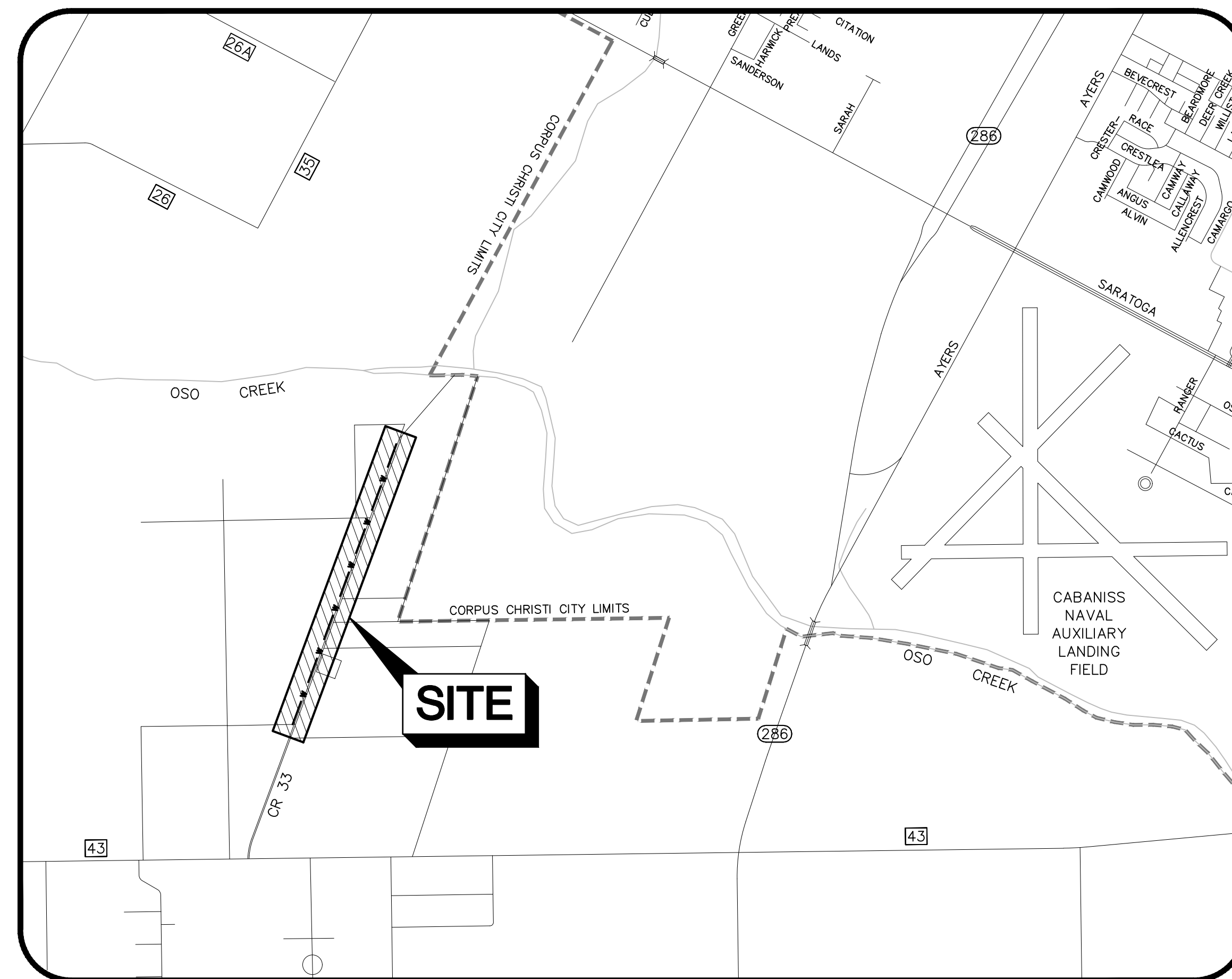
16" WATER GRID MAIN

LONDON AREA MASTER PLAN WATER INFRASTRUCTURE

CORPUS CHRISTI, TEXAS

DEVELOPER:
 BRASELTON DEVELOPMENT CO. LTD.
 5337 YORKTOWN, STE. 10-D
 CORPUS CHRISTI, TEXAS 78413
 (361)991-4710

ENGINEER:
 URBAN ENGINEERING
 2725 SWANTNER STREET
 CORPUS CHRISTI, TEXAS 78404
 (361)854-3101



LOCATION MAP
N.T.S.

INDEX:

1. COVER SHEET
2. LEGEND AND GENERAL NOTES
3. PLAN AND PROFILE - STA: 1+00.00 TO STA: 6+20.00
4. PLAN AND PROFILE - STA: 6+20.00 TO STA: 11+60.00
5. PLAN AND PROFILE - STA: 11+60.00 TO STA: 17+00.00
6. PLAN AND PROFILE - STA: 17+00.00 TO STA: 22+40.00
7. PLAN AND PROFILE - STA: 22+40.00 TO STA: 27+80.00
8. PLAN AND PROFILE - STA: 27+80.00 TO STA: 33+20.00
9. PLAN AND PROFILE - STA: 33+20.00 TO STA: 38+80.00
10. PLAN AND PROFILE - STA: 38+80.00 TO STA: 44+20.00
11. PLAN AND PROFILE - STA: 44+20.00 TO STA: 46+80.00
12. STORM WATER POLLUTION PREVENTION PLAN

THE FOLLOWING STANDARD SHEETS SPECIFICALLY IDENTIFIED BELOW HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

M-C-York, P.E. 08/15/2019

CITY STANDARDS INDEX:

- CITY OF C.C. STANDARD WATER DETAILS (1 OF 4)
- CITY OF C.C. STANDARD WATER DETAILS (2 OF 4)
- CITY OF C.C. STANDARD WATER DETAILS (3 OF 4)
- CITY OF C.C. STANDARD WATER DETAILS (4 OF 4)
- CITY OF C.C. STORM WATER POLLUTION PREVENTION PLAN NOTES (1 OF 3)
- CITY OF C.C. STORM WATER ENVIRONMENTAL PERMITS ISSUED AND COMMENTS (2 OF 3)
- CITY OF C.C. STORM WATER POLLUTION PREVENTION STANDARD DETAILS (3 OF 3)

CALL BEFORE YOU DIG!

PARTICIPANTS REQUEST
48 HOURS NOTICE BEFORE YOU DIG,
DRILL, OR BLAST - STOP AND CALL

**Know what's below.
Call before you dig.**

811

THE LONE STAR
NOTIFICATION COMPANY
AT 1-800-669-8344

CURRENT CITY OF CORPUS CHRISTI CONTACT NOTIFICATION NOTE:
 CONTRACTOR TO CONTACT THE FOLLOWING 72 HOURS PRIOR TO ACTUAL START OF CONSTRUCTION:

UTILITY REPRESENTATIVES:

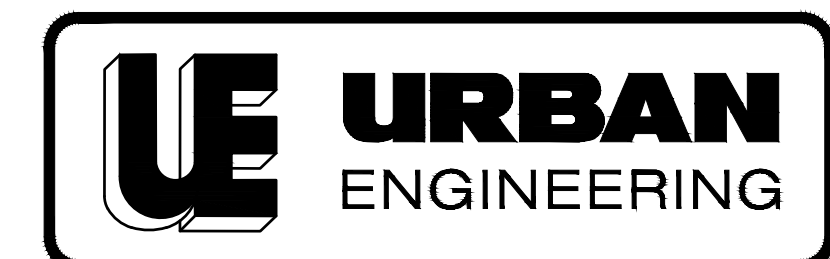
1. WATER REPRESENTATIVE 826-1888
2. WASTEWATER REPRESENTATIVE 826-1818
3. GAS REPRESENTATIVE 885-6900
4. CITY TRAFFIC SIGNAL & FIBER OPTIC 826-1610
5. STREET SUPERINTENDENT 826-1875
6. STORMWATER SUPERINTENDENT 826-1875
- AFTER HOURS CALL 826-2489
7. LONE STAR 811 1-800-669-8344

NOTE:

1. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE CITY OF CORPUS CHRISTI CONSTRUCTION INSPECTION DEPARTMENT (826-1738) AT LEAST THREE WORKING DAYS IN ADVANCE OF BEGINNING ANY WORK ON PUBLIC IMPROVEMENTS. PUBLIC IMPROVEMENTS INCLUDE WATER, SANITARY SEWER, STORM SEWER AND STREET OR DRIVEWAY WORK ON OR TYING INTO PUBLIC FACILITIES.
2. ALL CONSTRUCTION FOR PUBLIC IMPROVEMENTS SHALL COMPLY WITH THE CITY OF CORPUS CHRISTI ORDINANCES AND REGULATIONS.



ENGINEER: _____
 MICHAEL C. YORK, P.E.



TBPE FIRM NO. 145, TBPLS FIRM NO. 10032400
 2725 SWANTNER DR., CORPUS CHRISTI, TX 78404
 PHONE: 361.854.3101 WWW.URBANENG.COM

JOB NO. 042900.B9.01
 DATE: AUGUST 2019
 ©2019 by Urban Engineering

SHEET
1
 OF 12

1. PRELIMINARY MATTERS

- 1. THE INSTRUCTIONS GIVEN BY THE NOTES ON THIS SHEET DO NOT CONSTITUTE SEPARATE PAY ITEMS UNLESS SPECIFICALLY INCLUDED IN THE PROPOSAL FORM.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS LISTED IN THE CONTRACT DOCUMENTS AND THE STANDARD DETAILS INCLUDED OR REFERENCED IN THE PLANS.
3. ANY CHANGES OR REVISIONS TO THESE PLANS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
4. THE OWNER/ENGINEER RESERVE THE RIGHT TO MAKE REASONABLE ADJUSTMENTS IN LINE AND/OR GRADE IN ORDER TO AVOID CONFLICTS WITH NON-RELOCATABLE STRUCTURES OR OTHER UTILITIES. THE CONTRACTOR AGREES TO MAKE SUCH REASONABLE ADJUSTMENTS AT NO COST TO OWNER OR ENGINEER.
5. EXISTING PAVINGS, BUILDINGS, AND OTHER ITEMS SHOWN ON PLANS BUT NOT SPECIFICALLY RELATED TO THE WORK OF THE CONTRACTOR ARE FOR INFORMATIONAL PURPOSES ONLY AND MAY BE SHOWN TO A LESSER ACCURACY OR TO A LESSER DEGREE OF DETAIL THAN THE REMAINDER OF THE PLANS.

2. DEMOLITION

- 1. ALL CONSTRUCTION SHALL CONFORM TO STANDARD BUILDING CODE AND CITY ORDINANCES FOR DEMOLITION OF STRUCTURES, SAFETY OF ADJACENT STRUCTURES, DUST CONTROL AND DISPOSAL AS WELL AS ALL FEDERAL, STATE, AND LOCAL HAULING AND DISPOSAL REGULATIONS. CONTRACTOR SHALL OBTAIN REQUIRED PERMITS FROM AUTHORITIES AND NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS.
2. THE CONTRACTOR SHALL COMPLETELY REMOVE EXISTING STRUCTURES WHICH ARE TO BE ABANDONED TO A DEPTH OF 36 INCHES BELOW FINISHED GRADE. STRUCTURES FALLING WITHIN A BUILDING PAD EXCAVATION SHALL BE REMOVED. ANY REMAINING CAVITY SHALL BE COMPLETELY FILLED WITH LIMESTONE OR SELECT FILL MATERIAL.
3. ALL LINES, PIPE SAND UTILITIES LESS THAN 12 INCHES IN DIAMETER MAY BE ABANDONED IN PLACE PROVIDED THEY ARE AT LEAST 24 INCHES BELOW EXISTING OR PROPOSED GRADE IN SITEWORK PARKING AREAS. ALL PIPES, UTILITIES, ETC., ABANDONED IN PLACE SHALL BE GROUT FILLED AND PLUGGED OR CAPPED PER CITY CODE AND THE CITY OR APPROPRIATE UTILITY COMPANY NOTIFIED TO INSURE THAT THE SERVICE IS TERMINATED.
4. THE CONTRACTOR SHALL COMPLETELY REMOVE AND HAUL OFF EXISTING CONCRETE OR FOUNDATION PIERS THAT MAY BE UNCOVERED IN THE AREA AND FILL EXCAVATIONS PER NOTE 2 ABOVE.
5. BURIAL OF DEBRIS SHALL NOT BE ALLOWED. THE CONTRACTOR SHALL HAUL OFF AND DISPOSE OF ALL DEMOLISHED ITEMS AND DISPOSE OF IN A LEGAL MANNER.

3. SIDEWALKS AND DRIVEWAYS

PUBLIC AND PRIVATE

- 1. DRIVEWAY TYPE SHALL BE AS SHOWN ON THE APPROPRIATE CITY DETAILS AS APPLICABLE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING CURRENT CITY REGULATIONS GOVERNING DRIVEWAY TYPE.
2. ALL STREET DIMENSIONS SHOWN ON PLANS ARE TO BACK OF CURB, UNLESS NOTED OTHERWISE.
3. WHERE EXISTING ASPHALT AND CONCRETE ARE TO BE CUT, THESE CUTS SHALL BE VERTICAL AND MADE WITH A SAW. CARE SHALL BE TAKEN TO PROTECT CURB & GUTTER AND OTHER CONCRETE SURFACES FROM ASPHALT SPLATTER DURING PRIMING AND SEALING OPERATIONS.
4. HMA PAVING TRANSITIONS TO EXISTING PAVEMENTS SHALL BE TRANSITIONED OVER 10' TO PRODUCE A SMOOTH RIDE AND SHALL BE CHECKED WITH A 10' STRAIGHT EDGE PRIOR TO COMPLETION. LONGITUDINAL HMA PAVING JOINT LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
5. CONCRETE PLACEMENT SHALL STOP AT EXPANSION JOINTS IN SIDEWALKS OR AS OTHERWISE DIRECTED BY THE ENGINEER.
6. WHERE PROPOSED CONCRETE TIES INTO EXISTING CONCRETE, CONTRACTOR SHALL PLACE AN EXPANSION JOINT AS SHOWN IN THE PAVING DETAILS.
7. CURB FOR CURB RAMPS SHALL NOT BE PAID FOR DIRECTLY BUT CONSIDERED SUBSIDIARY TO CURB RAMP.
8. THE AREA BETWEEN THE SIDEWALK AND CURB & GUTTER SHALL BE GRADED WITH TOP SOIL THAT IS FREE OF DEBRIS, BASE, ASPHALT, AND CONCRETE AS DIRECTED BY THE ENGINEER.

4. CURB AND GUTTER

- 1. THE AREA BEHIND THE SIDEWALK SHALL BE GRADED WITH TOP SOIL THAT IS FREE OF DEBRIS, BASE, ASPHALT, AND CONCRETE.
2. WHEN MATCHING NEW 6" CURB & GUTTER TO EXISTING 4", THE GUTTER SLOPE SHALL BE MAINTAINED AND THE 2" TRANSITION SHALL BE IN THE CURB SECTION, AS NECESSARY TO PREVENT PONDING WATER. TRANSITION LENGTH SHALL BE 10' MINIMUM.
3. AN ASPHALT IMPREGNATED FIBERBOARD EXPANSION JOINT WITH 2-#4 DOWELS x 18" LONG SHALL BE USED WHERE NEW CURB MATCHES EXISTING.

5. ALL UTILITIES

PUBLIC AND PRIVATE

- 1. ELEVATION ADJUSTMENTS FOR NEW MANHOLES AND VALVES SHALL BE CONSIDERED SUBSIDIARY UNLESS NOTED OTHERWISE.
2. ALL NEW AND EXISTING VALVES AND MANHOLES SHALL BE EXTENDED TO FINISH GRADE. THIS ACTIVITY WILL BE CONSIDERED SUBSIDIARY UNLESS NOTED OTHERWISE.
3. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT EXISTING UTILITIES. ALL PIPES AND UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED WITH NO SEPARATE PAYMENT.
4. ALL OPEN EXCAVATION SHALL BE ENCLOSED WITH ORANGE SAFETY FENCE AND BARRELS.
5. ALL MATERIAL AND LABOR FOR THE ADJUSTMENT TO FINISH GRADE OF ALL NEW MANHOLES AND VALVE BOXES SHALL BE FURNISHED BY THE CONTRACTOR AND NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.
6. UNLESS SHOWN OTHERWISE IN THE PLANS OR SPECIFICATIONS, DEWATERING OF UTILITY LINE AND STORM SEWER WILL NOT BE PAID FOR DIRECTLY BUT CONSIDERED SUBSIDIARY TO THE ITEMS IT MAY BE ASSOCIATED WITH.
7. ALL ASBESTOS-CEMENT PIPE DESIGNATED FOR REMOVAL SHALL BE DISPOSED OF IN STRICT ACCORDANCE WITH LOCAL, STATE & FEDERAL REGULATIONS. DISPOSAL OF AC PIPE WILL NOT BE PAID DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO UTILITY OR DEMOLITION IMPROVEMENT.
8. UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND WERE OBTAINED FROM EXISTING RECORDS AND VISIBLE EVIDENCE ON THE GROUND. IT IS EXPECTED THAT THERE MAY BE SOME DISCREPANCIES AND OMISSIONS IN THE LOCATIONS AND QUANTITIES OF EXISTING UTILITIES AND STRUCTURES SHOWN. THE CONTRACTOR SHALL VERIFY THE DEPTH AND LOCATION OF ALL KNOWN EXISTING UTILITIES SUFFICIENTLY INADVANCE OF CONSTRUCTION SO THAT CONFLICTS CAN BE AVOIDED. WHEN AN EXISTING UTILITY OR UNDERGROUND PIPELINE IS ENCOUNTERED, THAT WAS PREVIOUSLY NOT LOCATED OR INCORRECTLY LOCATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND THE APPROPRIATE UTILITY COMPANY TO OBTAIN PROCEDURAL INSTRUCTIONS. THE CONTRACTOR SHALL COOPERATE WITH THE APPROPRIATE UTILITY COMPANY IN MAINTAINING ACTIVE SERVICES IN OPERATION.
9. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND REPAIRING ANY UTILITIES DAMAGED AS A RESULT OF OPERATIONS.
10. ALL PIPELINE VALVES SHALL BE ACCESSIBLE AT ALL TIMES.
11. PAVEMENT REPAIR SHALL BE PAID FOR ONLY IF THE REPAIR OCCURS OUTSIDE THE LIMITS OF PROPOSED STREET EXCAVATION. TRENCH RESTORATION, ALONG EXISTING PAVEMENTS THAT ARE SCHEDULED FOR SUBSEQUENT STREET EXCAVATION, SHALL INCLUDE REPLACEMENT OF BASE WITH LOW P.I. MATERIAL THAT IS CONDUCTIVE FOR SALVAGE.
12. WHERE UTILITY AND/OR STORM SEWER WORK IS PERFORMED UNDER AREAS OF THE EXISTING ROADWAY OR TEMPORARY DETOURS THAT ARE REQUIRED TO CARRY TRAFFIC PRIOR TO COMPLETION OF THE STREET IMPROVEMENTS, THE CONTRACTOR SHALL APPLY SURFACE TREATMENT ON TOP OF THE BASE OR BACKFILL MATERIAL UNTIL SUCH TIME THAT THE PROPOSED PAVEMENT SECTION IS CONSTRUCTED. THESE TEMPORARY PAVEMENTS (INCLUDING BACKFILL, BASE MATERIAL AND SURFACE TREATMENT) WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE SUBSIDIARY TO THE BID ITEM TRAFFIC CONTROL.

6. STORM SEWER

PUBLIC AND PRIVATE

- 1. ALL CURB INLETS SHALL HAVE A 5' THROAT, UNLESS NOTED OTHERWISE.
2. ALL STORM SEWER PIPE SHALL BE CLASS III REINFORCED CONCRETE PIPE WITH TYPE B WALL AND TONGUE-AND-GROOVE JOINTS PER ASTM C-76 OR CORRUGATED HDPE DUAL WALL PIPE MANUFACTURED IN ACCORDANCE WITH ASTM F2306 AND WITH GASKETED WATER TIGHT JOINTS MEETING ASTM D3212 UNLESS NOTED OTHERWISE ON THE DRAWINGS. CLASS IV REINFORCED CONCRETE PIPE SHALL BE USED WHERE TOP OF PIPE EXTENDS INTO SUBGRADE OR BASE COURSE.
3. PRE-CAST INLETS SHALL HAVE CAST-IN PLACE THROAT AND TOP.
4. A PIPE COLLAR SHALL BE USED WHERE PROPOSED STORM SEWER IS TO BE CONNECTED TO EXISTING STORM SEWER. PIPE COLLARS SHALL NOT BE PAID FOR SEPARATELY BUT CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS. PIPE COLLARS SHALL NOT BE REQUIRED AT TONGUE AND GROOVE CONNECTIONS.
5. ALL CONCRETE PIPE AND BOX JOINTS SHALL REQUIRE PREFORMED PLASTIC SEALING COMPOUND AND JOINT WRAP.

7. SANITARY SEWERS

PUBLIC AND PRIVATE LINES

- 1. PVC PIPE AND FITTINGS FOR SEWER LINES SHALL BE IN ACCORDANCE WITH ASTM D-3034. PIPE SHALL HAVE AN SDR OF 26. PIPE AND FITTINGS SHALL HAVE PUSH-ON COMPRESSION GASKET JOINTS IN ACCORDANCE WITH ASTM D-3212.
2. ABANDONED SERVICES SHALL BE REMOVED TO A DEPTH OF 2' BELOW PROPOSED SURFACE ELEVATION AND CAPPED WITH GROUT.
3. NEITHER BLUE PVC PIPE NOR DUCTILE IRON PIPE SHALL BE USED FOR SANITARY SEWERS.
4. ABANDONED SANITARY MAINS SHALL BE FILLED WITH FLOWABLE GROUT MATERIAL. (SEE MIXTURE NOTE ON THIS SHEET). THE UPPER 5 FEET OF ABANDONED MANHOLES AND ABANDONED CLEAN-OUTS SHALL BE REMOVED AND THE EXCAVATIONS SHALL BE BACK FILLED WITH SELECT MATERIAL COMPACTED TO NATURAL GROUND DENSITY OR A MINIMUM OF 95% STD PROCTOR.
5. EXISTING FIBERGLASS SANITARY MANHOLES SHALL BE ADJUSTED TO FINISH GRADE.
6. ALL SANITARY MANHOLES INSTALLED ON THIS PROJECT SHALL BE FIBERGLASS. THE MANHOLE MANUFACTURER SHALL PROVIDE CERTIFICATION AND DESIGN CALCULATIONS TO THE CITY SHOWING THAT THE MANHOLES ARE DESIGNED FOR TRAFFIC LOADING (H2O DESIGN VEHICLE) AND THE APPLICABLE SOIL AND HYDROSTATIC PRESSURE LOADING CONDITIONS. MINIMUM WALL THICKNESS SHALL BE 0.50 INCH. IF REQUIRED BY THE MANUFACTURERS DESIGN, HORIZONTAL RIBS AND/OR VERTICAL STIFFENERS MAY BE UTILIZED TO ACHIEVE REQUIRED DESIGN CHARACTERISTICS.

PUBLIC LINES

- 7. WHERE NEW SANITARY SEWERS ARE TO BE PLACED ADJACENT TO AN EXISTING WATERLINE AT A LATERAL CLEARANCE OF LESS THAN 9 FEET, THAT SECTION OF SEWER SHALL BE PRESSURE RATED PVC, AWWA C900-DR25 NON-BLUE COLORED. THIS ACTIVITY SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE PROPOSED SANITARY SEWER ACTIVITIES.
8. CLEANING OR PURGING OF EXISTING SANITARY SEWER LINES REQUIRED FOR CONNECTING INTO NEW SANITARY SEWER SYSTEM SHALL BE THE CONTRACTORS RESPONSIBILITY.
9. CONTRACTOR SHALL PROVIDE FOR TEMPORARY BY-PASS OF SEWERAGE INTO DOWNSTREAM MANHOLE WHEN REPLACING EXISTING SANITARY SEWER MAINS WITH NEW PVC WASTEWATER PIPE AND/OR WHEN REHABILITATING EXISTING MANHOLES. NO ADDITIONAL PAYMENT WILL BE MADE TO THE CONTRACTOR FOR THIS SUBSIDIARY WORK.

8. WATER LINES

PUBLIC AND PRIVATE LINES

- 1. PVC PIPE AND FITTINGS FOR WATER LINES SHALL BE A.W.W.A. C900-16 (DR18) 235 PSI. PVC PIPE FOR WATER LINES TO BE CHARGED BY THE FIRE DEPARTMENT SHALL BE A.W.W.A. C900-16 (DR14) 305 PSI.
2. "FH ASSEMBLY" SHALL ENCOMPASS ALL PIPE, FITTINGS, AND STRUCTURES NECESSARY TO COMPLETE THE FIRE HYDRANT INCLUDING THE TEE ON THE MAIN LINE, AND THE VALVE ON THE LEAD LINE. FIRE HYDRANTS WILL BE LOCKED ONTO VALVE BY USE OF RETAINER GLANDS ON DUCTILE IRON PIPE.
3. WATER METERS SHALL BE ACCESSIBLE DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL COORDINATE WITH CITY WATER DEPARTMENT PERSONNEL TO DETERMINE TIME FOR WATER CONNECTION TIE-INS.
5. VALVE BOXES TO REMAIN IN SERVICE SHALL BE ADJUSTED TO FINISH GRADE.
6. ALL EXISTING WATERLINES TO BE ABANDONED MUST BE DETACHED A MINIMUM OF 10 FEET FROM THE CONNECTION AND SHALL BE CAPPED.
7. ABANDONED WATER FITTINGS, VALVES, FIRE HYDRANTS, ETC. SHALL BE RECOVERED AND STOCKPILED AT A SECURE LOCATION BY THE CONTRACTOR FOR SALVAGE BY THE CITY. HOWEVER, ALL RELATED ITEMS THAT ARE UNWANTED BY THE CITY SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
8. IF A COLLECTION SYSTEM PIPE CROSSES A PUBLIC WATER SUPPLY PIPE THE PIPES SHALL BE CONSTRUCTED PER THE REQUIREMENTS SET FORTH BY TCEQ TAC CHAPTER 290.
9. WATERLINES SHALL BE PLACED TO DEPTH AS PER CITY'S WATERLINE MINIMUM COVER REQUIREMENTS. HOWEVER, DUE TO CONFLICTS, IT MAY BE NECESSARY TO PLACE THE LINE DEEPER AT THESE LOCATIONS. IT IS NOT INTENDED THAT THE LINES BE PLACED AT THESE DEPTHS FOR LONG DISTANCES. THESE DEPTHS ARE TYPICALLY TO BE ATTAINED BY VERTICAL OFFSETS WITH BENDS AND EXTEND SHORT DISTANCE. THIS SHALL BE COORDINATED WITH THE CITY WATER DEPARTMENT.
10. PIPE BETWEEN FITTINGS AT VERTICAL AND HORIZONTAL CHANGES IN ALIGNMENT SHALL BE DUCTILE IRON PIPE WITH RESTRAINT DEVICES.
11. CONNECTIONS TO THE EXISTING WATERLINE WILL BE PAID FOR AS PER BID ITEM.

9. MISCELLANEOUS

- 1. CONCRETE SHALL BE SAW CUT WHERE AN EXISTING CONCRETE STRUCTURE IS TO BE PARTIALLY REMOVED.
2. TREE TRIMMING SHALL BE DONE IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE. TREES, TREE STUMPS AND BRUSH WITHIN THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE REMOVED AND HAULED AWAY.
3. PRIMING AND HOT-MIX PLACING OPERATIONS SHALL NOT BE CONDUCTED ON DAYS FOR WHICH AN OZONE ADVISORY HAS BEEN ISSUED, EXCEPT FOR REPAIRS.
4. REMOVAL OF EXISTING FENCE, IN AREAS TO RECEIVE NEW FENCE, WILL NOT BE PAID FOR DIRECTLY BUT CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS, UNLESS OTHERWISE INDICATED. THE CONTRACTOR SHALL PROVIDE A TEMPORARY FENCE FROM THE TIME AN EXISTING FENCE IS REMOVED TO THE TIME THE PROPOSED FENCE IS REPLACED. THIS WORK WILL NOT BE PAID FOR DIRECTLY BUT CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS.
5. ALL WORK SHALL BE PERFORMED DURING DAYLIGHT HOURS.
6. ALL TRASH SHALL BE PICKED-UP AND REMOVED AT THE END OF EACH DAY.
7. CONTRACTOR SHALL VERIFY ALL SURFACE CONDITIONS OF THE SITE PRIOR TO PREPARING AND SUBMITTING ITS BID.
8. WHERE THE WORD "PROPOSED" OR "PROP." IS UTILIZED IN THIS SET OF DOCUMENTS, IT SHALL MEAN "NEW CONSTRUCTION TO BE PERFORMED AS PART OF THIS CONTRACT."

10. TRAFFIC

- 1. IF CONTRACTOR DISTURBS TRAFFIC BY OCCUPYING TRAFFIC LANES WITH CONSTRUCTION EQUIPMENT OR DELIVERY VEHICLES CONTRACTOR IS RESPONSIBLE FOR ACQUIRING APPROVAL OF A TRAFFIC CONTROL PLAN PERMIT FROM THE CITY TRAFFIC ENGINEER AND IT MUST BE IN CONFORMANCE WITH CURRENT TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD). THIS INCLUDES THE CONSTRUCTION OF DRIVEWAYS AND CURB & GUTTER IN PUBLIC RIGHT OF WAYS.
2. ALL WEATHER VEHICULAR ACCESS TO LOCAL RESIDENTS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
3. THE CONTRACTOR SHALL MAINTAIN AND PROVIDE SUITABLE TEMPORARY DRAINAGE UNTIL SUCH TIME AS PERMANENT DRAINAGE STRUCTURES ARE COMPLETED. THE EXPENSE FOR PROVIDING SAID SUITABLE TEMPORARY DRAINAGE, INCLUDING CONSTRUCTION OF TEMPORARY SWALES, INSTALLATION AND REMOVAL OF TEMPORARY PIPES AND OTHER ASSOCIATED WORK WILL NOT TO BE PAID FOR SEPARATELY BUT SHALL BE SUBSIDIARY.
4. THE CONTRACTOR SHALL COORDINATE WITH THE CITY TRAFFIC ENGINEERING DEPARTMENT REGARDING RELOCATION OR REPLACEMENT OF EXISTING SIGNS (STOP SIGNS, BUS ROUTE SIGNS, ETC.) AS MAY BE REQUIRED.

11. SURVEY

- 1. SURVEY CONTROL IS BASED OFF OF MONUMENTATION USING NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88) FOR VERTICAL CONTROL, AND NORTH AMERICAN DATUM 83 (NAD 83), TEXAS SOUTH ZONE 4205 FOR HORIZONTAL CONTROL.
2. CONTROL POINTS HAVE BEEN PROVIDED AND REFERENCED IN THE PLANS TO AID IN CONSTRUCTION. CONTROL POINTS ARE BASED ON THE ABOVE STATED DATUM AND SHALL BE VERIFIED BACK TO THE APPROPRIATE MONUMENTATION BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION.

12. NOTIFICATION REQUIREMENTS

- 1. AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR IS REQUIRED TO NOTIFY THE LONE STAR NOTIFICATION COMPANY AT 1-800-669-8344.
2. THE CONTRACTOR SHALL GIVE A MINIMUM OF 48 HOURS NOTICE TO THE OWNER, ENGINEER AND PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK.
3. THE CONTRACTOR SHALL NOTIFY LOCAL EMERGENCY SERVICES (I.E. FIRE, E.M.S. AND POLICE) OF ANY CONSTRUCTION ACTIVITIES THAT WOULD AFFECT THE NORMAL FLOW OF TRAFFIC.
4. THE CONTRACTOR SHALL GIVE A MINIMUM OF 48 HOURS NOTICE TO THE ENGINEER AND AUTHORIZED TESTING LABORATORY PRIOR TO REQUIRED TESTS.

13. CONTRACTOR'S RESPONSIBILITIES

- 1. THE CONTRACTOR SHALL COORDINATE ALL SERVICE SHUT DOWNS WITH THE APPROPRIATE UTILITY DEPARTMENT CONSTRUCTION OBSERVER AT LEAST 48 HOURS PRIOR TO THE ANTICIPATED UTILITY SERVICE SHUT DOWN.
2. THE CONTRACTOR SHALL COORDINATE WITH ALL AFFECTED PROPERTY OWNERS IN WRITING AT LEAST 24 HOURS PRIOR TO ANY ANTICIPATED UTILITY SERVICE SHUT DOWN. THE CONTRACTOR SHALL PROVIDE THE CITY WITH A COPY OF ALL WRITTEN CORRESPONDENCE.
3. THE CONTRACTOR SHALL COORDINATE INSPECTIONS WITH THE UTILITY DEPARTMENT INSPECTOR 48 HOURS PRIOR TO ALL WORK BEING COVERED.
4. THE CONTRACTOR SHALL ADVISE THE OWNER AND THE ENGINEER IMMEDIATELY, VERBALLY AND IN WRITING, OF ANY FUEL OR TOXIC MATERIAL SPILLS ONTO THE PROJECT/CONSTRUCTION AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF FUELS, WASTE MATERIALS AND CONTAMINATED EXCAVATIONS IN A LEGALLY APPROVED MANNER.
5. THE CONTRACTOR SHALL COORDINATE INTERRUPTIONS OF ALL UTILITIES AND SERVICES WITH APPLICABLE UTILITY COMPANY, OWNER AND TENANT. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY COMPANY OR AGENCY INVOLVED.
6. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING INGRESS AND EGRESS FOR ALL PUBLIC AND PRIVATE FACILITIES AT ALL TIMES AND FOR ALL WEATHER CONDITIONS, UNLESS OTHERWISE INDICATED ON THE PLANS OR APPROVED BY THE ENGINEER.
7. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDED AND MAINTAIN ALL NECESSARY WARNING AND SAFETY DEVICES (FLASHING LIGHTS, FLAG MEN, BARRICADES, SIGNS, ETC.) TO PROTECT THE PUBLIC SAFETY AND HEALTH UNTIL THE WORK HAS BEEN COMPLETED AND ACCEPTED BY THE ENGINEER AND OWNER. ALL BARRICADES SHALL BE DONE IN COMPLIANCE WITH THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
8. THE CONTRACTOR SHALL MAINTAIN ALL REGULATORY SIGNS DURING THE CONSTRUCTION PERIOD.
9. THE CONTRACTOR SHALL ASSURE HIMSELF THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK. REQUIRED PERMITS THAT CAN ONLY BE ISSUED TO CONTRACTOR ARE TO BE OBTAINED AT THE CONTRACTOR'S EXPENSE.
10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING SANITARY FACILITIES ON THIS PROJECT FOR EMPLOYEES.
11. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE FLOW IN ALL DITCHES AND STORM SEWER AT ALL TIMES.
12. THE CONTRACTOR SHALL PLACE AND COMPACT BACKFILL AS PROMPTLY AND PRACTICABLE AS POSSIBLE AFTER COMPLETION AT EACH STRUCTURE OR PORTION OF A STRUCTURE.
13. PRIOR TO THE ACCEPTANCE OF THE PROJECT, ALL GRADED AND DISTURBED AREAS ARE TO BE RESTORED TO ORIGINAL OR BETTER CONDITION IN ACCORDANCE WITH THE SPECIFICATIONS.
14. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF ALL EXCESS CONSTRUCTION AND WASTE MATERIALS. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS REGARDING THE HANDLING AND DISPOSAL OF EXCESS AND WASTE MATERIALS.
15. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION. COPIES OF OSHA STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE.
16. THE CONTRACTOR SHALL TAKE ALL DUE PRECAUTIONS TO PROTECT EXISTING FACILITIES (INCLUDING ROADWAYS, PARKING AREAS, DRIVEWAYS, STRUCTURES, UTILITIES, ETC.) FROM DAMAGE. ANY DAMAGE TO EXISTING FACILITIES INCURRED AS A RESULT OF THE CONSTRUCTION OPERATIONS ARE TO BE REPAIRED IMMEDIATELY BY THE CONTRACTOR TO A CONDITION SIMILAR OR EQUAL TO THAT EXISTING BEFORE THE DAMAGE WAS DONE. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE FACILITY OWNER AND THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
17. THE CONTRACTOR SHALL LOCATE, PROTECT AND MAINTAIN BENCHMARKS, MONUMENTS AND CONTROL POINTS. THE CONTRACTOR SHALL RE-ESTABLISH DISTURBED OR DESTROYED ITEMS AT HIS EXPENSE. THE RE-ESTABLISHMENT SHALL BE PERFORMED UNDER THE DIRECTION OF A TEXAS REGISTERED PROFESSIONAL LAND SURVEYOR.
18. EXISTING ELECTRICAL LINES ARE LOCATED CLOSE TO THE PROJECT. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO THE STATE LAW (VERNON'S ANNOTATED TEXAS STATUTES, ARTICLE 1436(C)) CONCERNING OPERATIONS IN THE VICINITY OF ELECTRICAL LINES AND THE NEED FOR EFFECTIVE PRECAUTIONARY MEASURES.
19. WHERE WATER LINES AND SEWER LINES ARE INSTALLED WITH A SEPARATION DISTANCE CLOSER THAN NINE FEET (I.E., WATER LINES CROSSING WASTEWATER LINES, WATER LINES PARALLELING WASTEWATER LINES OR WATER LINES NEXT TO MANHOLE(S)), THE INSTALLATION WILL MEET THE REQUIREMENTS OF 30 TAC 317.13, APPENDIX E (DESIGN OF SEWERAGE SYSTEMS) AND 30 TAC 290.44(4) (WATER HYGIENE).
20. WATER NECESSARY FOR CONSTRUCTION SHALL BE PROVIDED AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL ARRANGE FOR A METERED CONNECTION(S) AND SHALL PROVIDE THE PROPER EQUIPMENT TO PREVENT CROSS-CONNECTION.

LEGEND

Table with 4 columns: PROPOSED SYMBOLS, EXISTING SYMBOLS, DESCRIPTION, and REV. BY/DATE. It lists various symbols for materials like HMA, TP, TC, GUT, TW, GB, U.E., T.C.E., FL, MH, RCP, HDPE, PVC, D.I./DIP, J.B., S.I., G.I., A.D., EX., PROP., HG, Shg, A / At, Q / Qt, and symbols for water service, deflection, air release, hydrant, elevation, slope, contours, street centerlines, pavements, utility easements, and distances.

FLOWABLE GROUT MATERIAL
'DARAFILL' ADMIXTURE MANUFACTURED BY GRACE CONSTRUCTION PRODUCTS. THE FLOWABLE GROUT SHALL BE SUPPLIED WITH THE FOLLOWING MIXTURE BY AN APPROVED READY-MIX SUPPLIER. THE MANUFACTURER'S REPRESENTATIVE SHALL BE CONSULTED FOR ANY FINAL ADJUSTMENTS TO IMPROVE FOR FLOWABILITY OF THE MIXTURE.
100lbs/CY PORTLAND CEMENT
250lbs/CY WATER
300lbs/CY FLY ASH
2100lbs/CY SAND
6oz/CY DARAFILL

Table with 4 columns: REV. BY, DATE, DESCRIPTION, APPROVED BY. It contains revision records for the drawing.

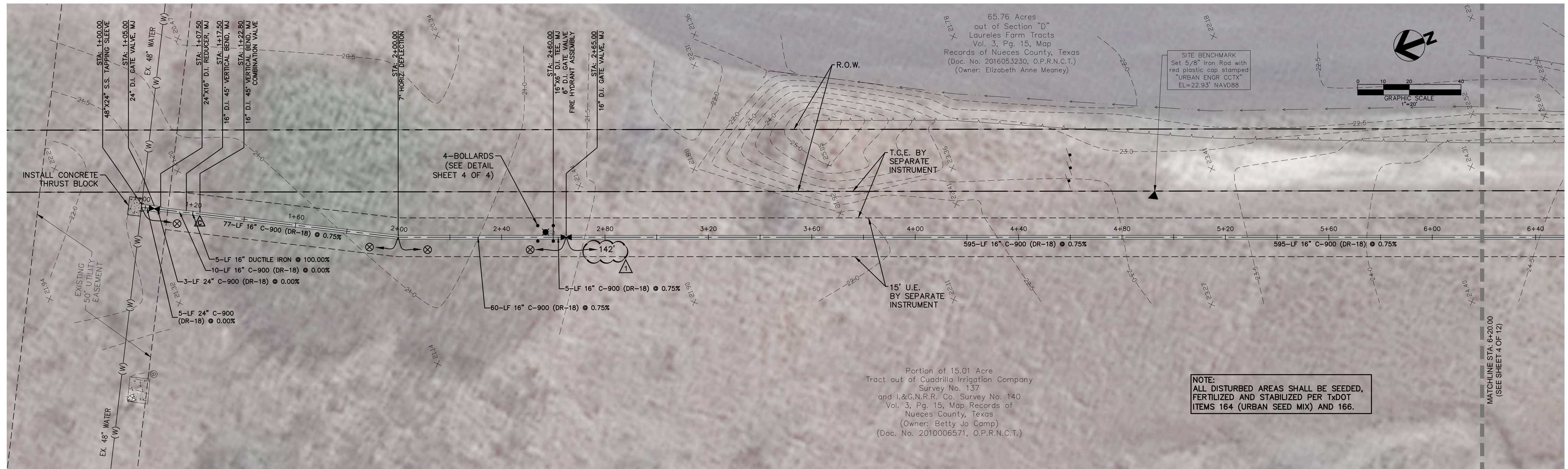
Professional Engineer Seal for Michael C. York, P.E., License No. 124838, State of Texas, dated 08/15/2019.

LEGEND AND GENERAL NOTES
LONDON AREA MASTER PLAN
WATER INFRASTRUCTURE
CORPUS CHRISTI, TEXAS

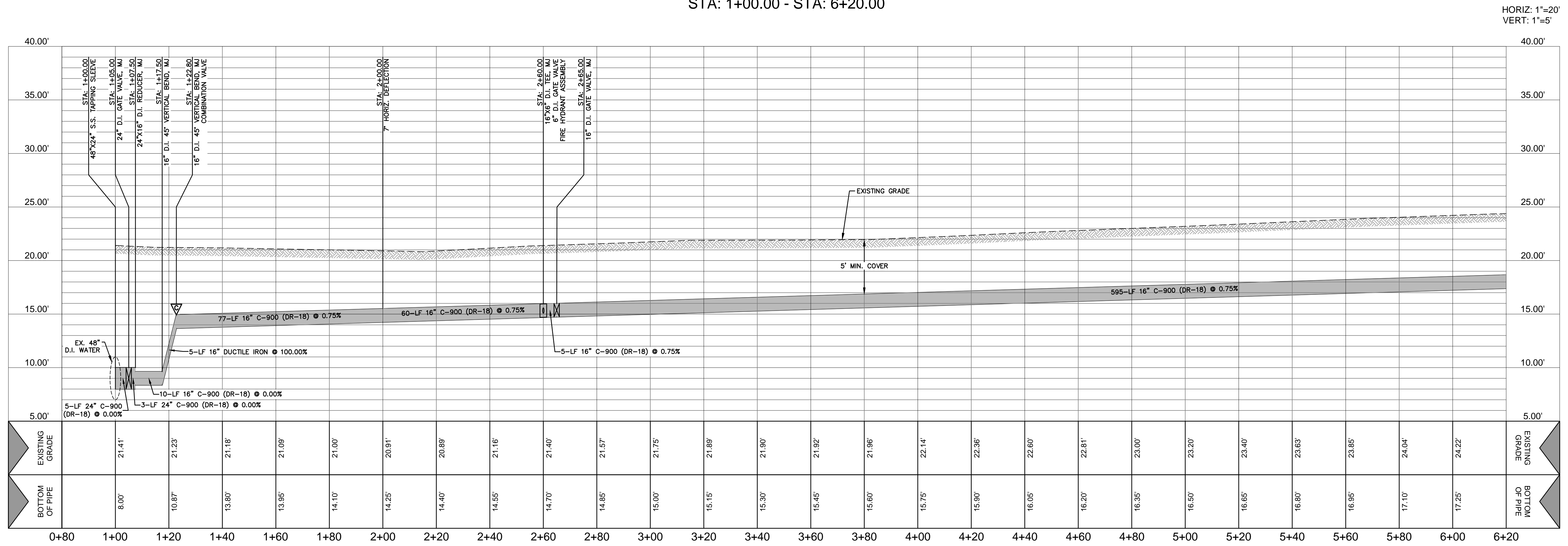
URBAN ENGINEERING logo and contact information: 1995 FIRM NO. 145, 1995 FIRM NO. 103340, 2722 SWANNEK DR. CORPUS CHRISTI, TX 78404, PHONE: 361.854.3101, WWW.URBANENG.COM

SHEET 2 OF 12
JOB NO. 42900.B9.01

S:\Projects\42000up\42900up\42900.B9.01\Notes.dwg modified by ScottE on 8/15/2019 3:27:43 PM



16" WATER GRID MAIN PLAN AND PROFILE
 STA: 1+00.00 - STA: 6+20.00



REV.	BY	DATE	DESCRIPTION
1	SAE	9/12/19	REVISED RESTRAINT JOINT LENGTH

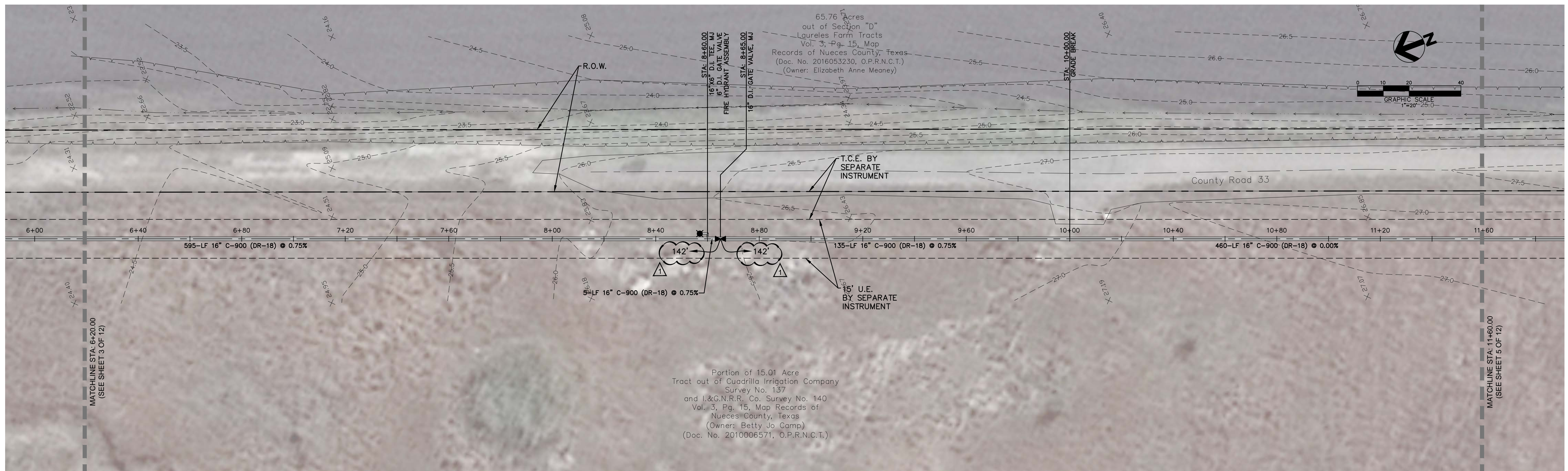
DRAWN: SAE
 DESIGNED: SAE
 CHECKED: MCY
 DATE: AUG, 2019

LONDON AREA MASTER PLAN
 WATER INFRASTRUCTURE
 CORPUS CHRISTI, TEXAS

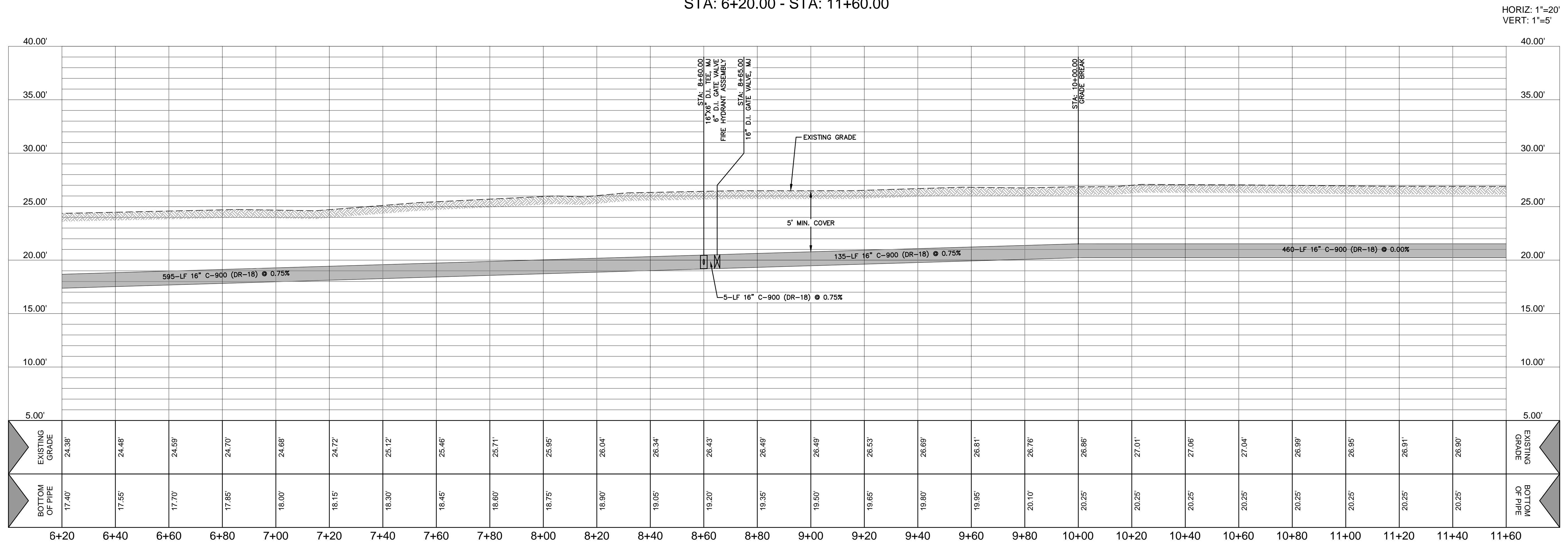
URBAN ENGINEERING
 TBE FIRM NO. 145, TBE S. FIRM NO. 10032400
 2725 SWANNIER DR., CORPUS CHRISTI, TX 78404
 PHONE: 361.864.3101 WWW.URBANEENGINEERING.COM

SHEET 3 OF 12
 JOB NO. 42900.B9.01

S:\Projects\42900\42900\B901\dwg\042900B901-WATER-LINE.dwg modified by ScottE on 9/12/2019 9:58:27 AM

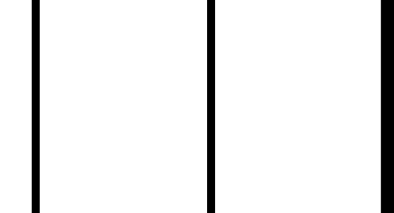


16" WATER GRID MAIN PLAN AND PROFILE
 STA: 6+20.00 - STA: 11+60.00

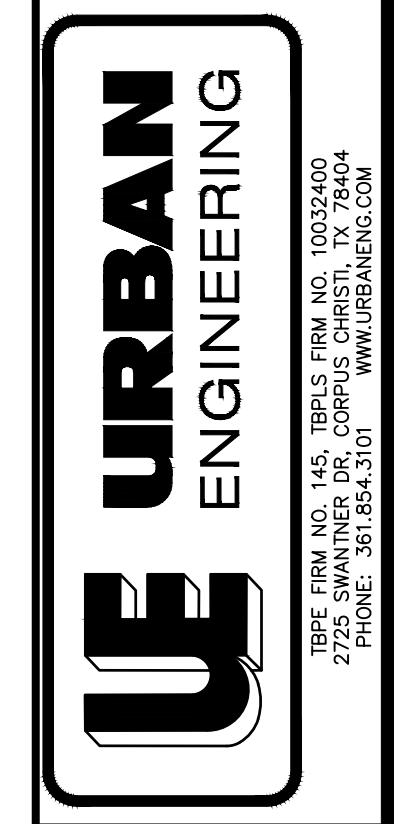


REV.	BY	DATE	DESCRIPTION
1		9/12/19	REVISED RESTRAINT JOINT LENGTH

DRAWN: SAE
 DESIGNED: SAE
 CHECKED: MCY
 DATE: AUG, 2019

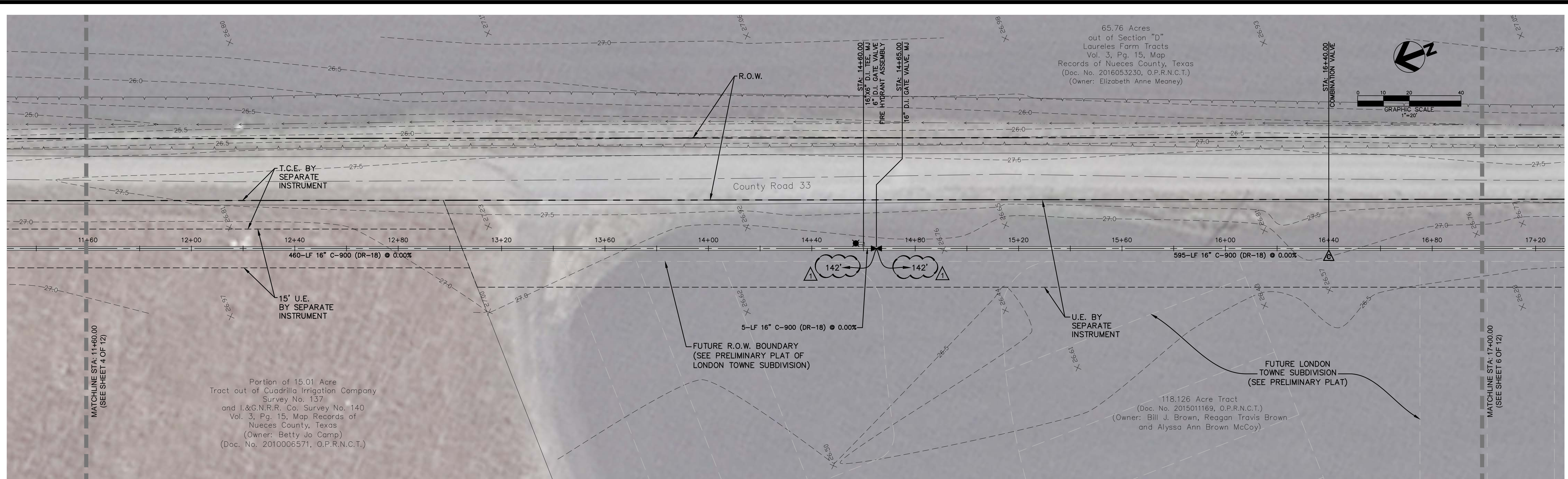


**16" WATER GRID MAIN
 PLAN AND PROFILE**
 LONDON AREA MASTER PLAN
 WATER INFRASTRUCTURE
 CORPUS CHRISTI, TEXAS

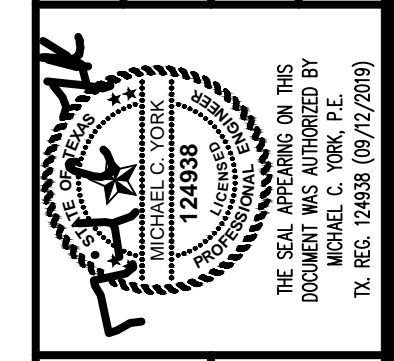


SHEET
4
 OF 12
 JOB NO.
 42900.B9.01

S:\Projects\42900\42900\B901\dwg\042900B901-WATER-LINE.dwg modified by ScottE on 9/12/2019 9:58:27 AM

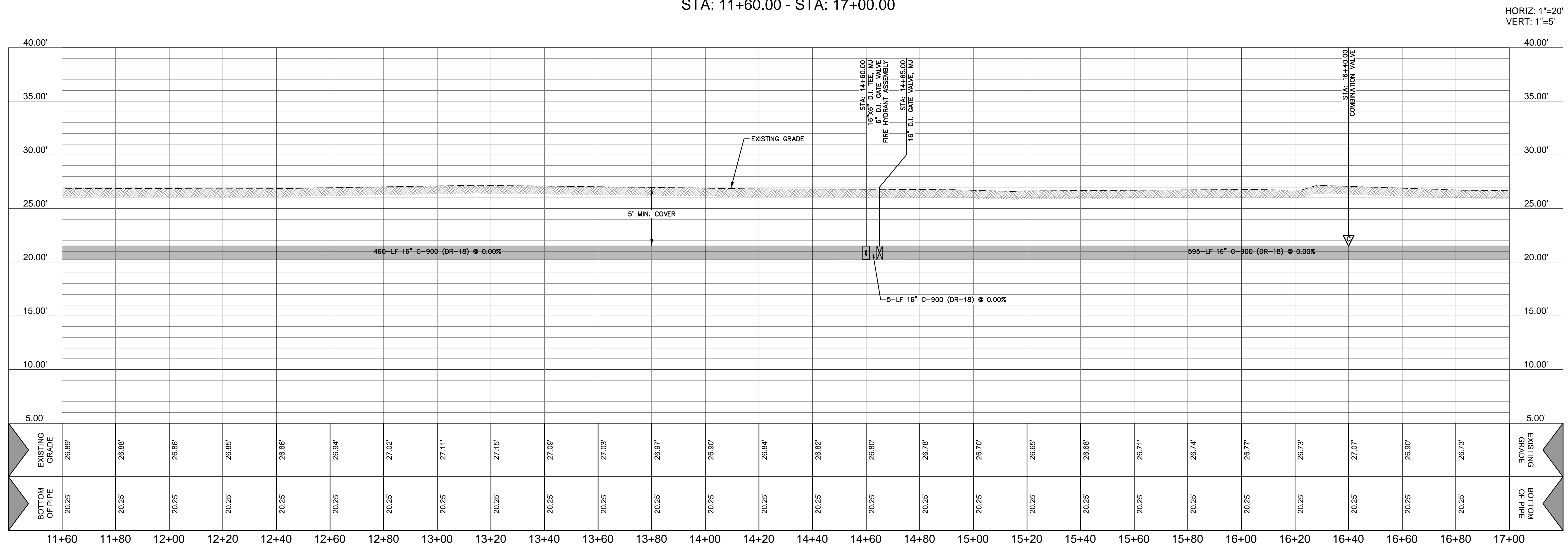


REV.	BY	DATE	DESCRIPTION
1	SAE	9/12/19	REVISED RESTRAINT JOINT LENGTH



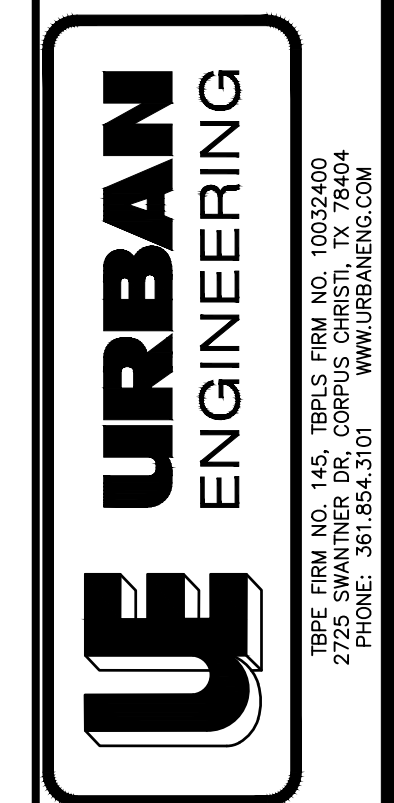
DRAWN: SAE
 DESIGNED: SAE
 CHECKED: MCY
 DATE: AUG, 2019

16" WATER GRID MAIN PLAN AND PROFILE
STA: 11+60.00 - STA: 17+00.00



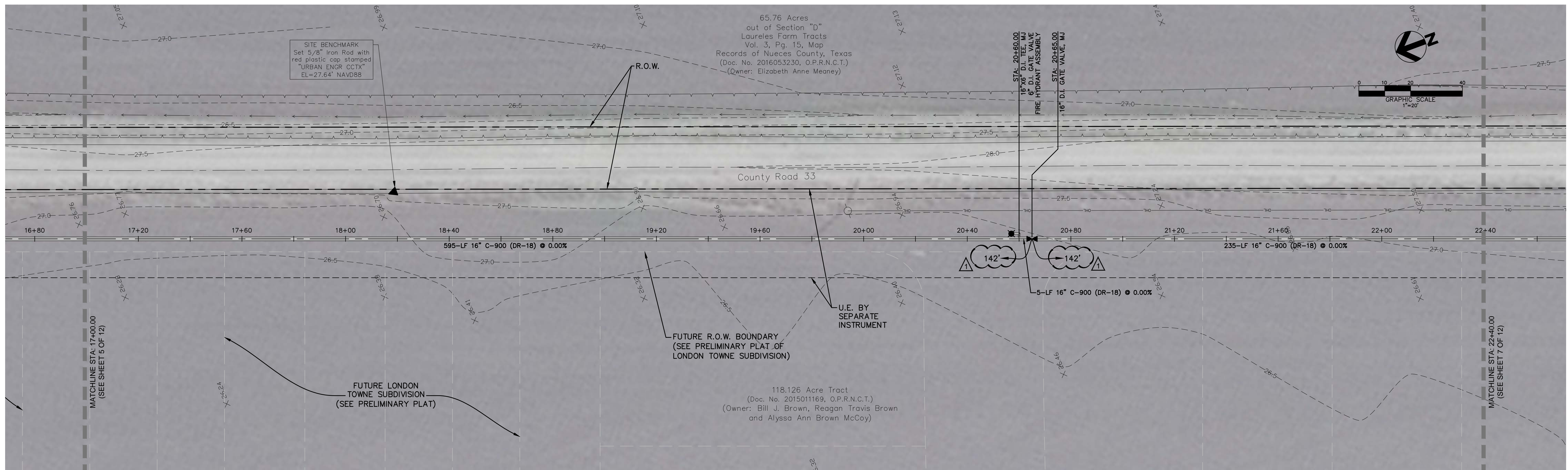
HORIZ: 1"=20'
VERT: 1"=5'

**16" WATER GRID MAIN
PLAN AND PROFILE**
 LONDON AREA MASTER PLAN
 WATER INFRASTRUCTURE
 CORPUS CHRISTI, TEXAS

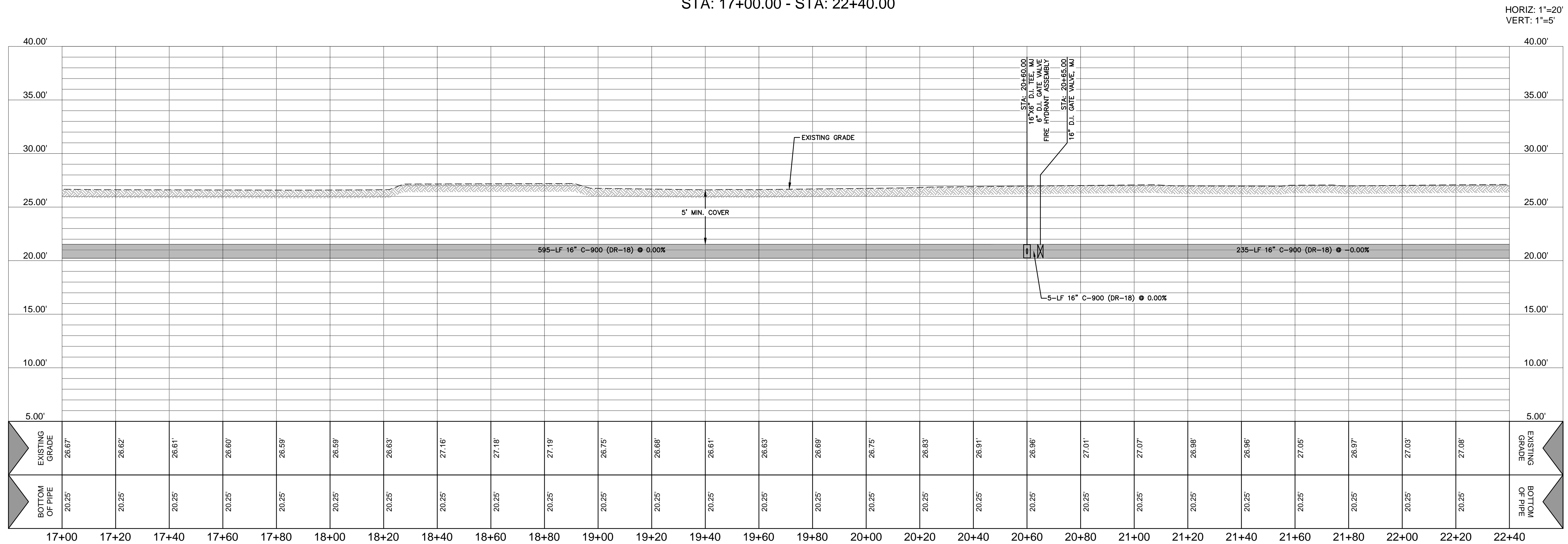


SHEET
5
 OF 12
 JOB NO.
 42900.B9.01

S:\Projects\42900\42900\B901\dwg\042900B901-WATER-LINE.dwg modified by ScottE on 9/12/2019 9:58:27 AM



16" WATER GRID MAIN PLAN AND PROFILE
STA: 17+00.00 - STA: 22+40.00



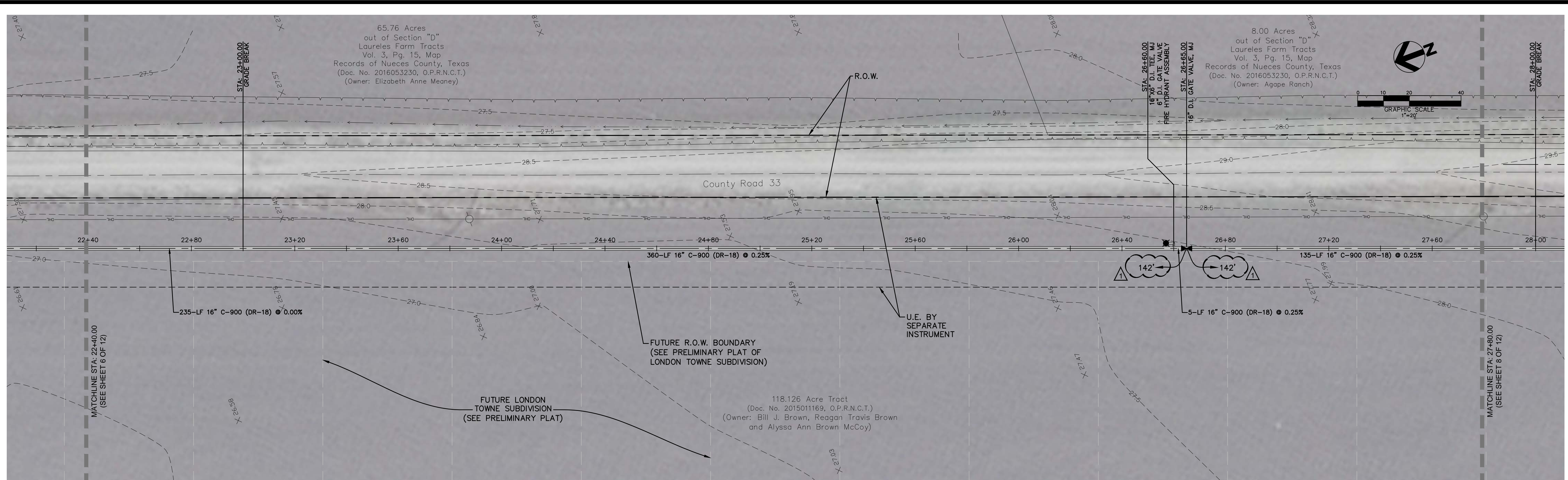
REV.	BY	DATE	DESCRIPTION
1	SAE	9/12/19	REVISED RESTRAINT JOINT LENGTH

DRAWN: SAE
 DESIGNED: SAE
 CHECKED: MCY
 DATE: AUG, 2019

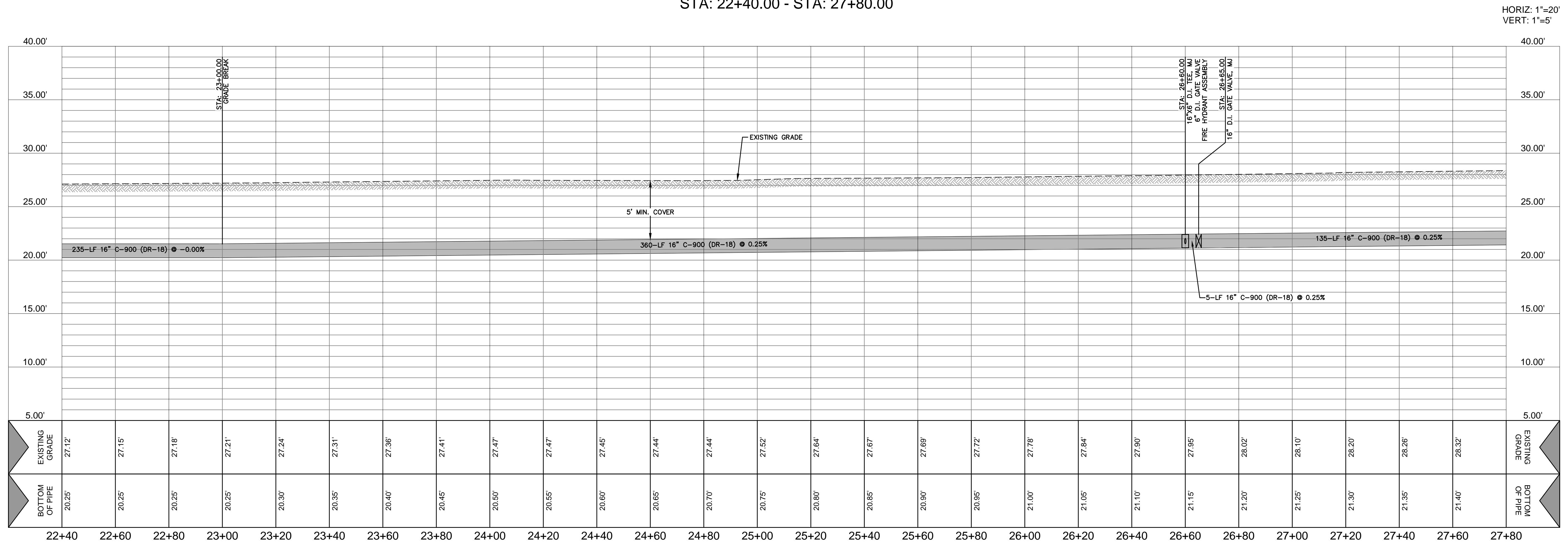
**16" WATER GRID MAIN
 PLAN AND PROFILE**
 LONDON AREA MASTER PLAN
 WATER INFRASTRUCTURE
 CORPUS CHRISTI, TEXAS

URBAN ENGINEERING
 TBE FIRM NO. 145, TBE S. FIRM NO. 10032400
 2725 SWANMER DR, CORPUS CHRISTI, TX 78404
 PHONE: 361.864.3101 WWW.URBANENG.COM

SHEET
 OF 12
 JOB NO.
 42900.B9.01



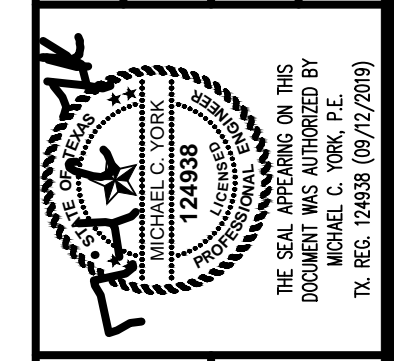
16" WATER GRID MAIN PLAN AND PROFILE
STA: 22+40.00 - STA: 27+80.00



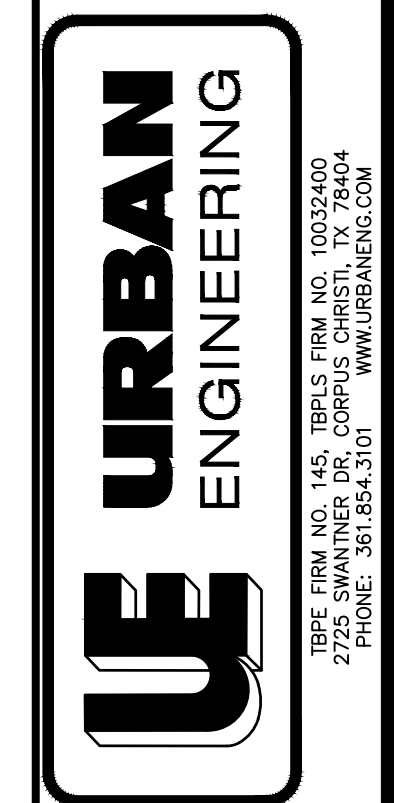
HORIZ: 1"=20'
VERT: 1"=5'

REV.	BY	DATE	DESCRIPTION
1		9/12/19	REVISED RESTRAINT JOINT LENGTH

DRAWN:	SAE
DESIGNED:	SAE
CHECKED:	MCY
DATE:	AUG, 2019

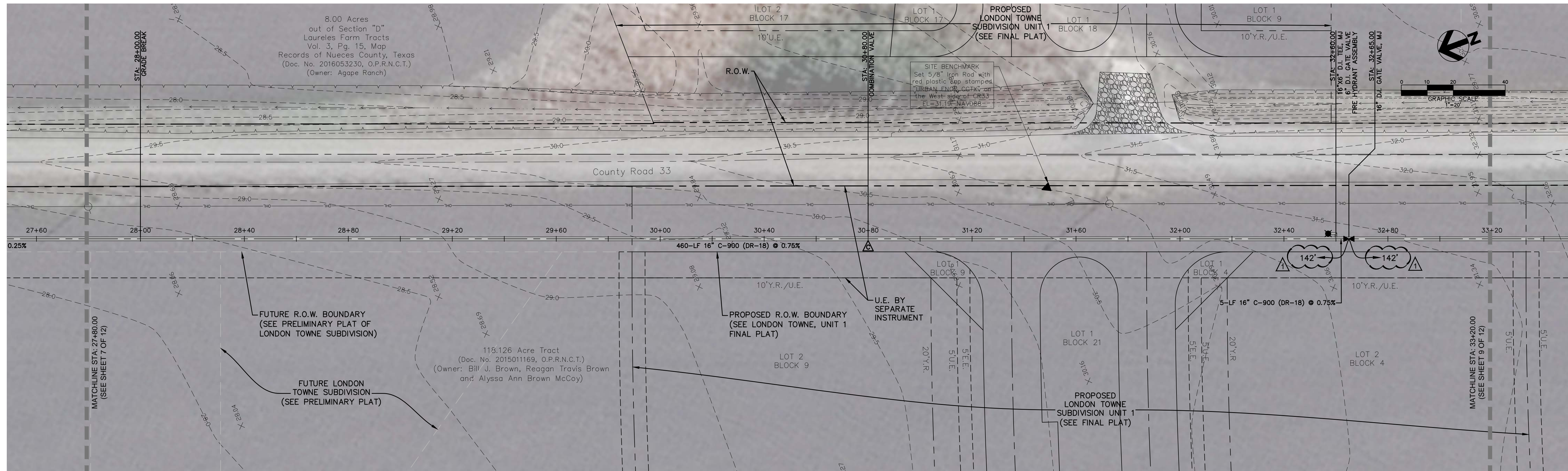


**16" WATER GRID MAIN
PLAN AND PROFILE**
LONDON AREA MASTER PLAN
WATER INFRASTRUCTURE
CORPUS CHRISTI, TEXAS

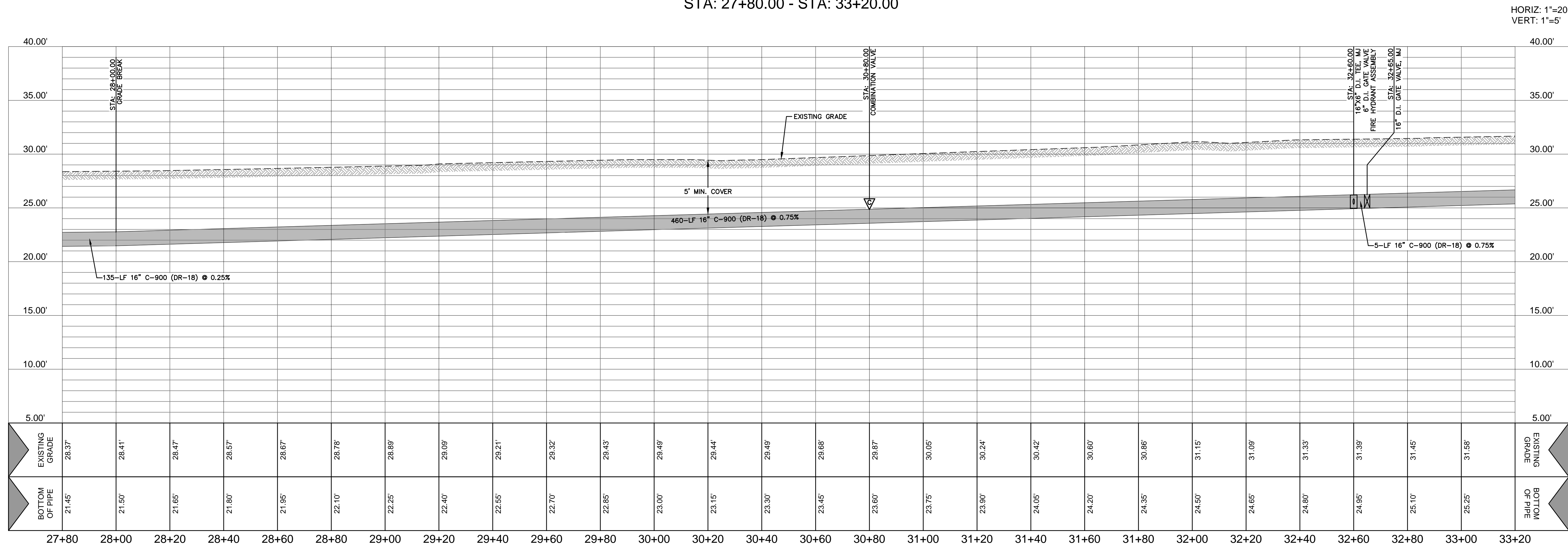


**SHEET
7
OF 12**
JOB NO.
42900.B9.01

S:\Projects\42000up\42900\B901\dwg\042900B901-WATER-LINE.dwg modified by ScottE on 9/12/2019 9:58:27 AM



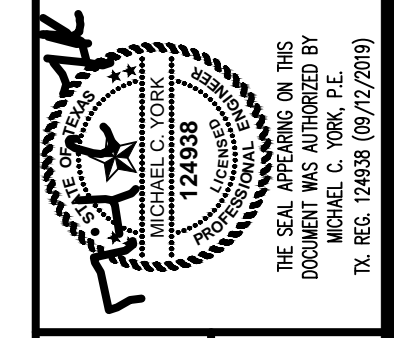
16" WATER GRID MAIN PLAN AND PROFILE
 STA: 27+80.00 - STA: 33+20.00



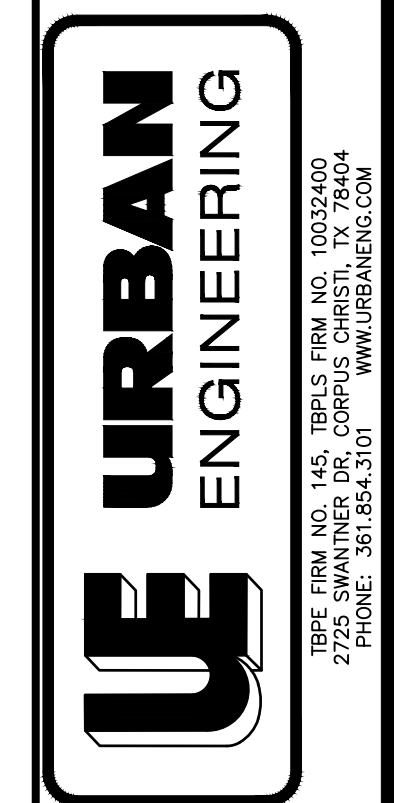
HORIZ: 1"=20'
 VERT: 1"=5'

REV.	BY	DATE	DESCRIPTION
1	SAE	9/12/19	REVISED RESTRAINT JOINT LENGTH

DRAWN:	SAE
DESIGNED:	SAE
CHECKED:	MCY
DATE:	AUG, 2019

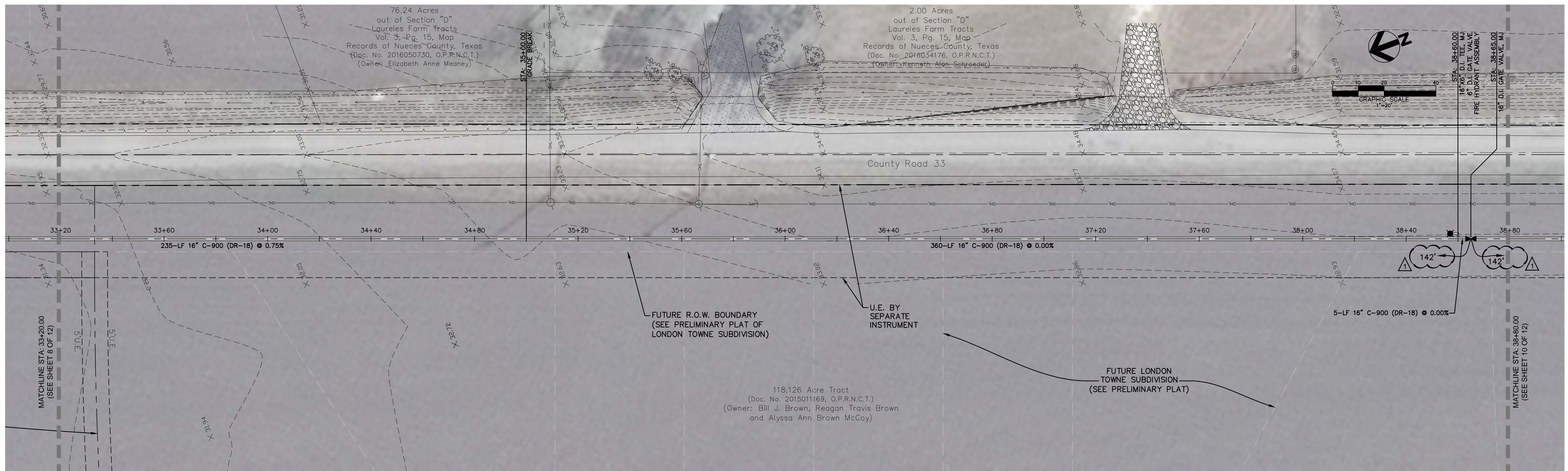


**16" WATER GRID MAIN
 PLAN AND PROFILE**
 LONDON AREA MASTER PLAN
 WATER INFRASTRUCTURE
 CORPUS CHRISTI, TEXAS

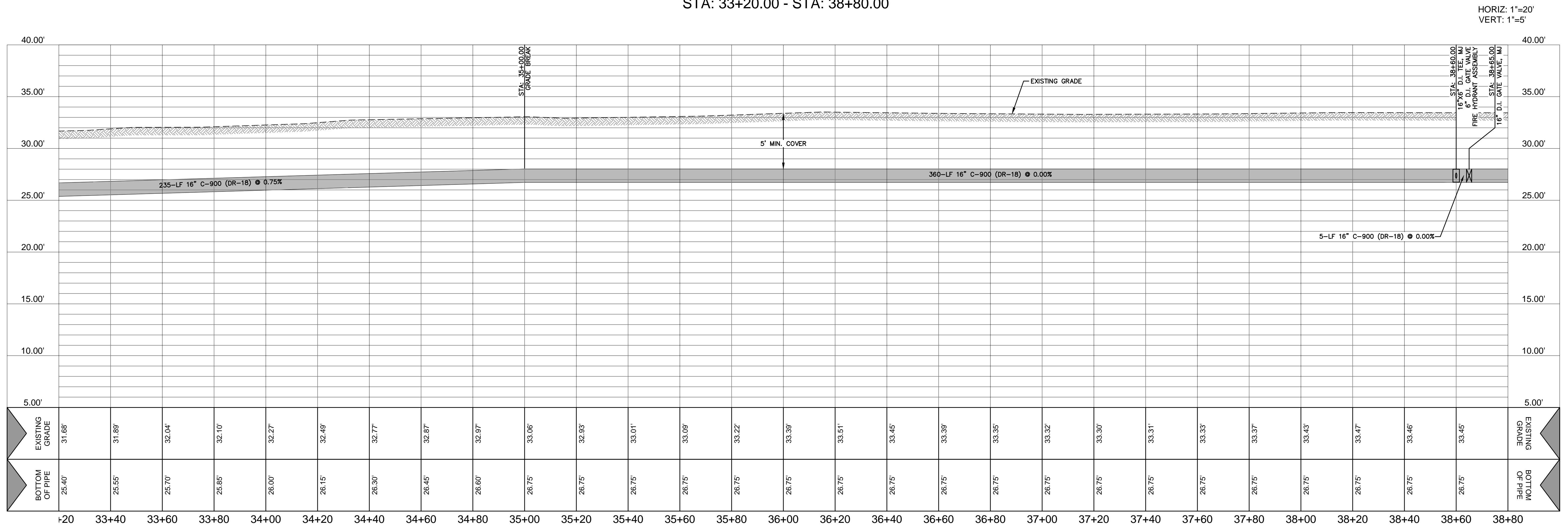


SHEET 00 OF 12
 JOB NO. 42900.B9.01

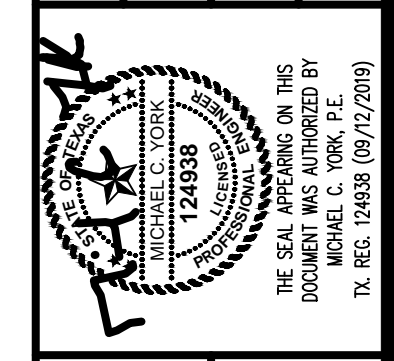
S:\Projects\42000up\42900\B901\dwg\042900B901-WATER-LINE.dwg modified by ScottE on 9/12/2019 9:58:27 AM



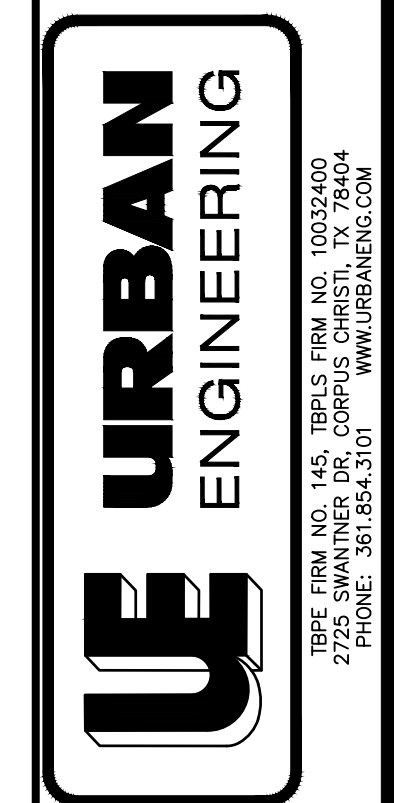
16" WATER GRID MAIN PLAN AND PROFILE
 STA: 33+20.00 - STA: 38+80.00



REV.	BY	DATE	DESCRIPTION
1	SAE	9/12/19	REVISED RESTRAINT JOINT LENGTH
	SAE		
	MCY		

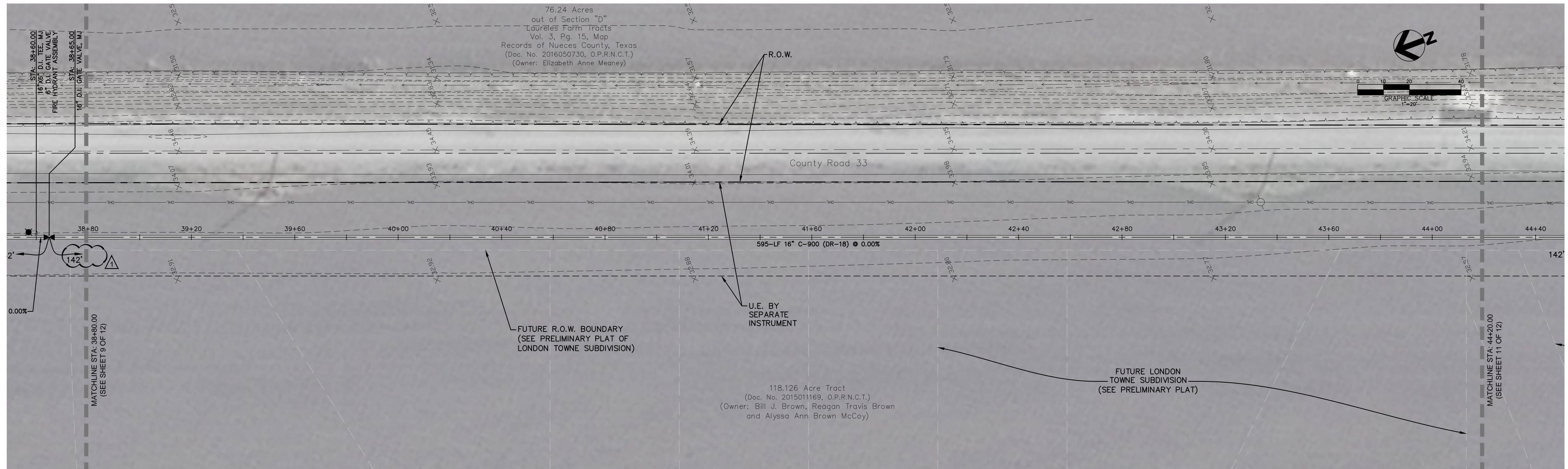


**16" WATER GRID MAIN
 PLAN AND PROFILE**
 LONDON AREA MASTER PLAN
 WATER INFRASTRUCTURE
 CORPUS CHRISTI, TEXAS

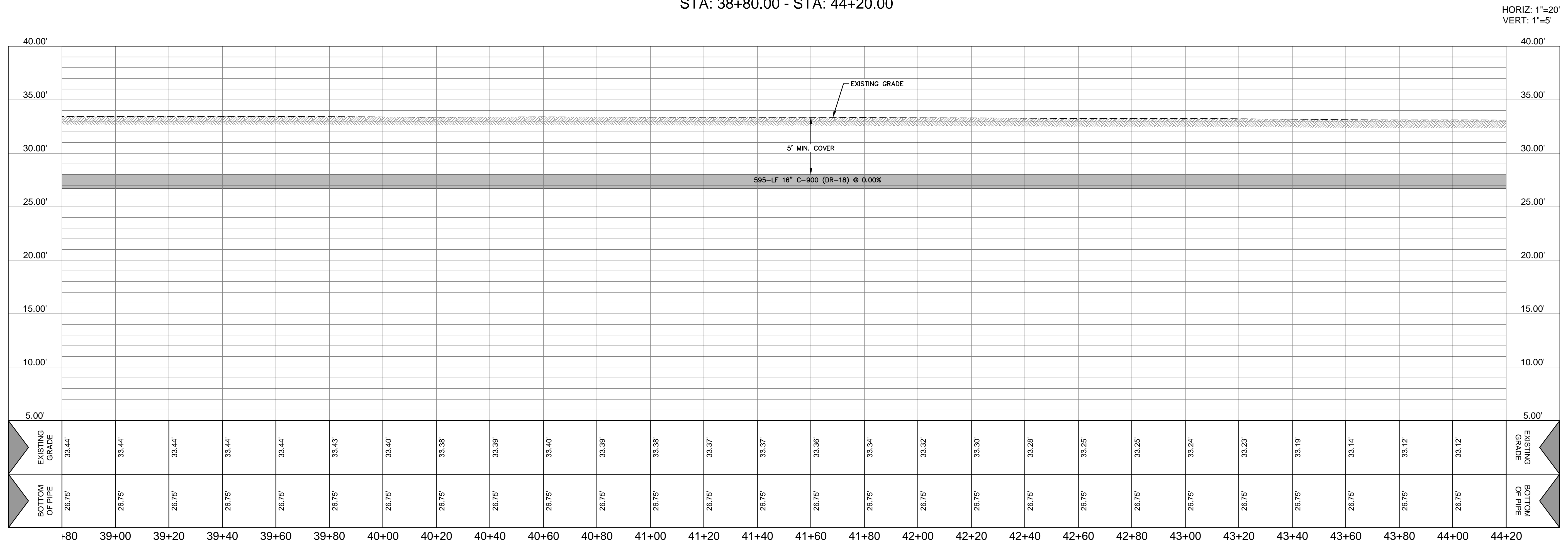


SHEET
OF 12
 JOB NO.
 42900.B9.01

S:\Projects\42900\42900\B901\dwg\042900B901-WATER-LINE.dwg modified by ScottE on 9/12/2019 9:58:27 AM

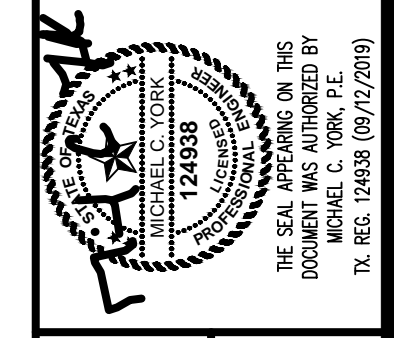


16" WATER GRID MAIN PLAN AND PROFILE
STA: 38+80.00 - STA: 44+20.00

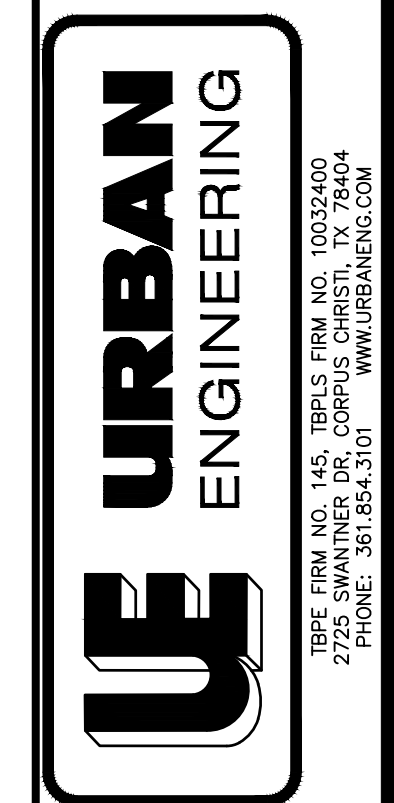


REV.	BY	DATE	DESCRIPTION
1		9/12/19	REVISED RESTRAINT JOINT LENGTH

DRAWN:	SAE
DESIGNED:	SAE
CHECKED:	MCY
DATE:	AUG, 2019

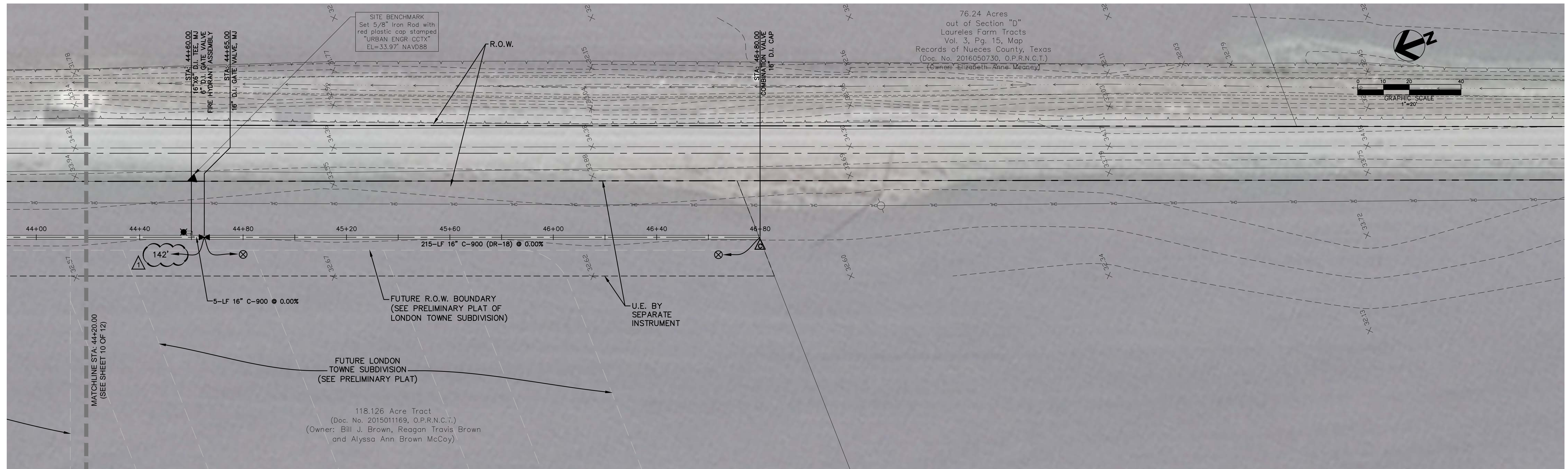


**16" WATER GRID MAIN
PLAN AND PROFILE**
LONDON AREA MASTER PLAN
WATER INFRASTRUCTURE
CORPUS CHRISTI, TEXAS

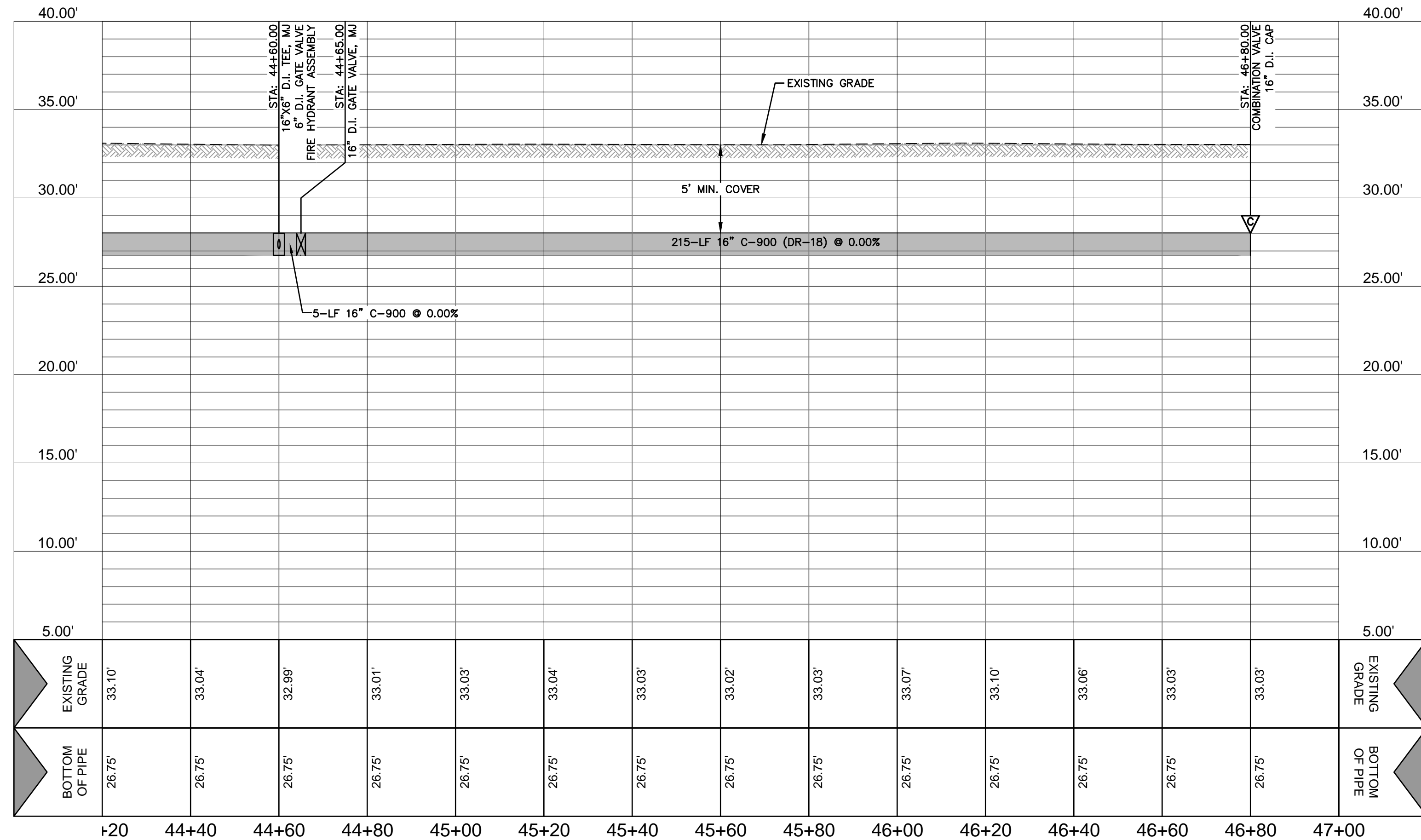


**SHEET
10
OF 12**
JOB NO.
42900.B9.01

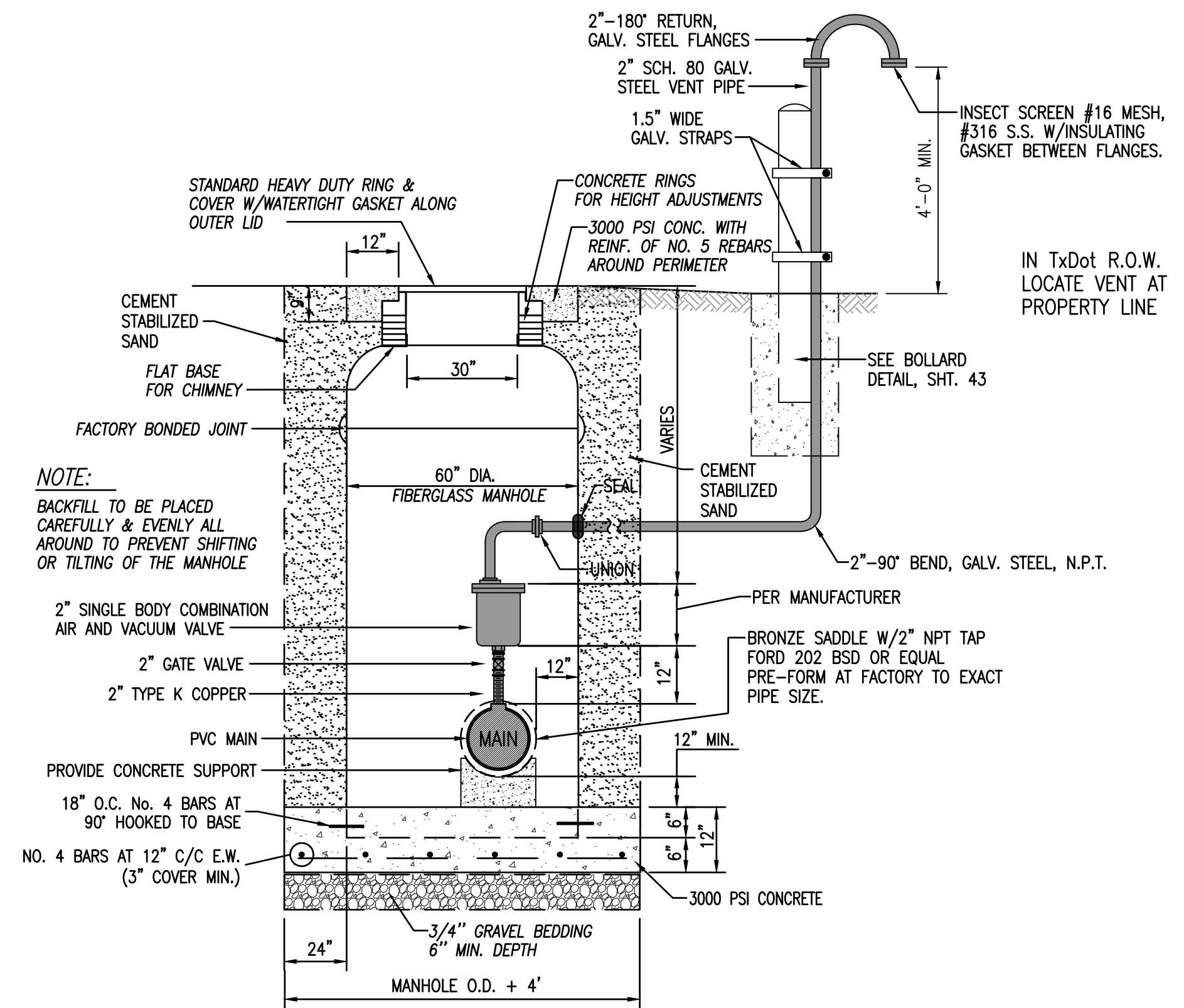
S:\Projects\42900\42900\B901\dwg\42900B901-WATER-LINE.dwg modified by ScottE on 9/12/2019 9:58:27 AM



16" WATER GRID MAIN PLAN AND PROFILE
STA: 44+20.00 - STA: 46+80.00

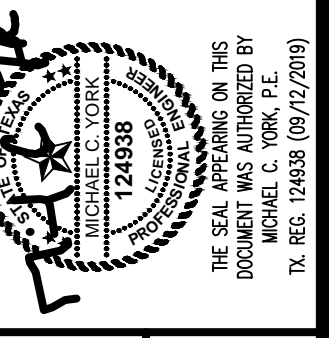


HORIZ: 1"=20'
VERT: 1"=5'

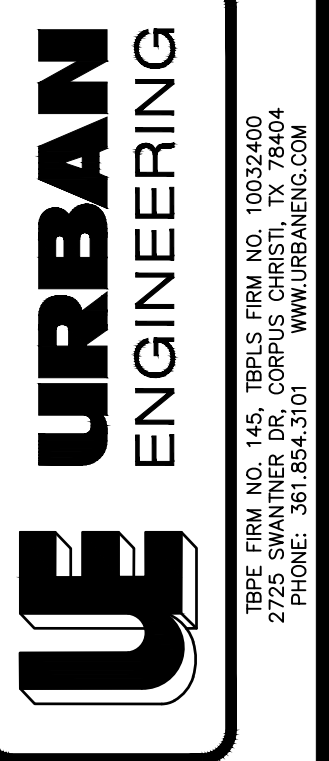


COMBINATION AIR RELEASE & AIR/VACUUM VALVE DETAIL
NOT TO SCALE SEE SPEC. 15108

REV.	BY	DATE	DESCRIPTION
1	SAE	9/12/19	REVISED RESTRAINT JOINT LENGTH

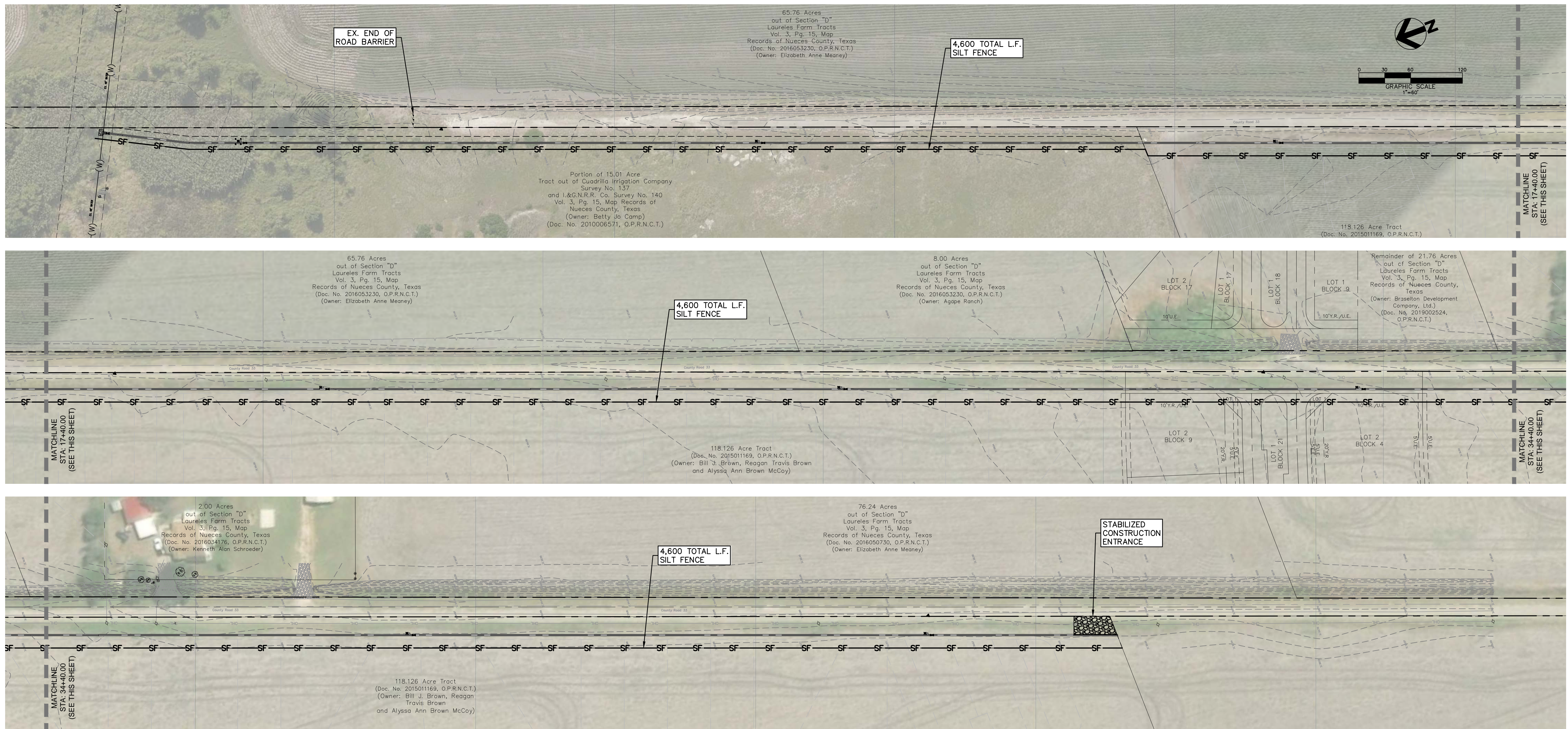


16" WATER GRID MAIN
PLAN AND PROFILE
LONDON AREA MASTER PLAN
WATER INFRASTRUCTURE
CORPUS CHRISTI, TEXAS



SHEET 11 OF 12
JOB NO. 42900.B9.01

S:\Projects\42900\42900.dwg modified by ScottE on 9/12/2019 9:58:27 AM



WASTE CONTROLS:

WASTE DISPOSAL MUST BE ACCOMPANIED IN A MANNER SO THAT NO SOLID WASTES, INCLUDING BUILDING MATERIALS, HAZARDOUS SUBSTANCES, OIL, OR PACKAGING LEAVE THE SITE, EXCEPT FOR DISPOSAL AT AN APPROPRIATE, APPROVED SOLID WASTE MANAGEMENT FACILITY, IN CONFORMANCE WITH THE TEXAS SOLID WASTE DISPOSAL ACT. TO THE EXTENT PRACTICABLE, NO SOLID WASTE, INCLUDING BUILDING MATERIALS, HAZARDOUS SUBSTANCES, OR OIL MAY BE ALLOWED TO ENTER THE CITY'S MUNICIPAL SEPARATE STORM SEWER SYSTEM, THE CITY'S STREETS, OR THE NAVIGABLE WATERS OF THE UNITED STATES. BUILDING MATERIALS INCLUDE, BUT ARE NOT LIMITED TO, UNCOVERED STOCKPILES OF SOIL, SAND, DRY CEMENT, LUMBER, BRICKS, OR OTHER PRODUCTS USED IN CONSTRUCTION. THE PRIME CONTRACTOR, WHO IS ISSUED THE BUILDING PERMIT, IS RESPONSIBLE FOR THE CONDUCT OF ALL SUBCONTRACTORS WITH REGARDS TO DISPOSAL OF WASTES GENERATES BY THE CONSTRUCTION ACTIVITIES AT THE SITE.

DUST CONTROL:

DUST CONTROL SHOULD BE PROVIDED AT WHATEVER FREQUENCY REQUIRED.

HAZARDOUS MATERIAL STORAGE:

CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS, AND OTHER TOXIC MATERIALS MUST BE STORED IN WATERPROOF CONTAINERS. EXCEPT DURING APPLICATIONS, THE CONTENTS MUST BE KEPT IN TRUCKS OR IN STORAGE FACILITIES. RUNOFF CONTAINING SUCH MATERIALS SHALL BE COLLECTED, REMOVED FROM THE SITE, AND DISPOSED OF AT AN APPROVED SOLID WASTE OR CHEMICAL DISPOSAL FACILITY.

CONCRETE TRUCKS:

THE RESPONSIBLE PARTY MAY NOT ALLOW THE OWNER OR OPERATOR OF A CONCRETE TRUCK TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER AT A CONSTRUCTION SITE, UNLESS THE SURPLUS CONCRETE OR DRUM WASH WATER IN CONCRETE TRUCKS IS DISCHARGED AT A FACILITY ON THE CONSTRUCTION SITE THAT WILL RETAIN ALL CONCRETE WASH WATERS OR LEACHATES, INCLUDING ANY WASH WATERS OR LEACHATES MIXED WITH STORM WATER. CONCRETE WASH WATERS AND LEACHATES MAY NOT BE ALLOWED TO ENTER THE MUNICIPAL SEPARATE STORM SEWER SYSTEM, CITY STREETS, THE WATERS OF THE UNITED STATES, OR GROUND WATERS.

SILT FENCE:

SILT FENCE SHALL BE INSTALLED TO CONTROL RUNOFF FROM THE BUILDING CONSTRUCTION SITE.

MATERIAL:

FENCE MATERIAL SHALL BE PERVIOUS SYNTHETIC SHEET OF POLYPROPYLENE, NYLON, POLYESTER OR POLYETHYLENE YARN WITH ULTRAVIOLET RAY INHIBITORS OR 10 OZ./SY BURLAP FABRIC. THE FENCE SHALL PROVIDE A MINIMUM 75% TO 85% FILTERING EFFICIENCY. A TENSILE STRENGTH AT 20% ELONGATION OF 30 LB/IN. (STANDARD) OR 50 LB/IN (EXTRA STRENGTH) AND A SLURRY FLOW RATE OF 0.3 GAL/SF/MIN. THE FABRIC SHOULD BE 2' HIGH ABOVE GRADE AND A CONTINUOUS ROLL. CONSTRUCTION: EXCAVATE A MINIMUM 6" X 6" TRENCH ALONG THE UPSLOPE SIDE OF THE CONSTRUCTION FENCE. INSTALL THE FILTER FABRIC TO THE CHAINLINK AND WITH 12" OF FABRIC EXTENDING INTO THE TRENCH. SECURE THE FABRIC TO THE CONSTRUCTION FENCE WITH WIRE TIES OR OTHER SUITABLE MEANS. WHERE JOINTS IN THE FABRIC OCCUR PROVIDE A MINIMUM 6" OVERLAP AND SECURELY SEAL. BACKFILL THE TRENCH WITH COMPACTED EXCAVATED MATERIAL OR 3/4" GRAVEL OVER THE FILTER FABRIC.

INSPECTION AND MAINTENANCE:

INSPECT THE FENCE FABRIC FOR SEDIMENT ACCUMULATION AND FABRIC CONDITION AT LEAST ONCE A WEEK AND IMMEDIATELY AFTER EACH RAINFALL OVER 1/2". REMOVE SEDIMENT WHICH HAS ACCUMULATED TO OVER 1/3 TO 1/2 OF THE HEIGHT OF THE FILTER FENCE.

REMOVAL:

AFTER THE UPSLOPE SIDE HAS BEEN STABILIZED THE FILTER FABRIC MAY BE REMOVED. SPREAD ANY SEDIMENT REMAINING AFTER THE FENCE REMOVAL AND COMPLETE THE FINAL GRADING AND SODDING REQUIREMENTS.

NOTE:
THERE ARE NO ENVIRONMENTALLY SENSITIVE AREAS ON THE SITE. THERE ARE NO FLOOD PLAIN, FLOODWAY OR VELOCITY ZONE BOUNDARIES WITHIN THE SITE.

NOTE:
THERE ARE NO KNOWN NATURAL WATER BODIES, JURISDICTIONAL WETLANDS, ENDANGERED SPECIES HABITAT, STATE SUBMERGED LANDS OR CRITICAL DUNES ON THE SITE.

NOTE:
CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING SWPPP AND MONITORING OVER THE COURSE OF THE PROJECT. CHANGES, MAINTENANCE AND UPDATING OF FEATURES AND PLANS WILL BE REQUIRED. MEASURES DEPICTED PRESENT POTENTIAL MEASURES NEEDED. CONTRACTOR SHALL MODIFY AS NECESSARY AND DOCUMENT CHANGES AS REQUIRED PER THE GENERAL CONSTRUCTION PERMIT.

NOTE:
DETAILS SHOWN ON THIS SHEET ARE FOR CONTRACTOR INFORMATION. THEY ARE NOT INTENDED TO REPRESENT ALL OPTIONS FOR IMPLEMENTATION OF BMPs. OTHER TYPES OF BMP'S MAY BE USED AT THE CONTRACTORS DISCRETION.

REV.	BY	DATE	DESCRIPTION

DRAWN:	SAE
DESIGNED:	SAE
CHECKED:	MCY
DATE:	AUG, 2019

STORM WATER POLLUTION PREVENTION PLAN
LONDON AREA MASTER PLAN
WATER INFRASTRUCTURE
CORPUS CHRISTI, TEXAS

URBAN ENGINEERING

DBE FIRM NO. 145, DBE'S FIRM NO. 1033400
2725 SWANMER DR. CORPUS CHRISTI, TX 78404
PHONE: 361.854.3101 WWW.URBANENG.COM

S:\Projects\42000up\42900up\42900\B901\dwg\042900B901-SWPPP.dwg modified by ScottE on 8/15/2019 9:10:13 AM

WATER DISTRIBUTION SYSTEM GENERAL NOTES

- PROPOSED WATER DISTRIBUTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF CORPUS CHRISTI WATER DIVISION DISTRIBUTION SYSTEM STANDARDS.
- THE CITY RESERVES THE RIGHT TO ACCEPT THE SYSTEM FOR OPERATION AT ANY TIME, BUT THE DATE OF OFFICIAL ACCEPTANCE OF THE SYSTEM WILL BE UPON COMPLETION OF THE PROJECT AND SATISFACTORY TEST RESULTS.
- THE EXISTING SYSTEM SHALL REMAIN IN SERVICE UNTIL THE PROPOSED SYSTEM IS PUT INTO SERVICE. THE CONTRACTOR SHALL PROTECT THE EXISTING SYSTEM UNTIL IT IS TAKEN OUT OF SERVICE.
- THE CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT REQUIRED TO INSTALL THE PROPOSED SYSTEM.
- TESTING OF LINES (STERILIZATION AND PRESSURED) SHALL BE DONE BY THE CONTRACTOR UNDER THE SUPERVISION OF THE WATER DIVISION. WATER FOR FILLING THE NEW WATER LINE AND PERFORMING TESTS WILL BE FURNISHED TO THE CONTRACTOR BY THE CITY OF CORPUS CHRISTI THROUGH A STANDARD WATER CONSTRUCTION METER CONNECTION. STANDARD WATER CONSTRUCTION METER AND GAUGE WILL BE SUPPLIED BY THE CITY AFTER THE CONTRACTOR HAS PAID ALL APPLICABLE FEES FOR THE WATER CONSTRUCTION METER. ALL WATER DISCHARGE MUST BE DECHLORINATED IN ACCORDANCE WITH TNRCC & NPDES REGULATIONS.
- THE CONTRACTOR SHALL RECOVER AND STOCK-PILE AT A LOCATION DESIGNATED BY THE WATER DIVISION INSPECTOR, ALL FIRE HYDRANTS, VALVES, AND FITTINGS THAT ARE TAKEN OUT OF SERVICE. THESE MATERIALS MAY BE SALVAGED BY THE CITY. HOWEVER, ALL ITEMS NOT CLAIMED BY THE CITY PRIOR TO THE FINAL INSPECTION SHALL BE DISPOSED OF BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BEAR ALL COST ASSOCIATED WITH WATERLINE REPAIRS (WHICH RESULT FROM DAMAGE CAUSED BY THE CONTRACTOR) UPON COMPLETION OF PROJECTS. ALL WATER LINES SHALL BE FREE OF ALL PATCHES AND SPLICES.
- ALL PHYSICAL TIES OF THE PROPOSED SYSTEM INTO THE EXISTING WATERLINE SHALL BE RECONNECTED AND BE MADE UNDER SUPERVISION OF THE WATER DIVISION INSPECTOR. THE CONTRACTOR SHALL FURNISH ALL MATERIALS AND ALL EQUIPMENT THAT IS REQUIRED TO MAKE TIE-INS. CITY WATER DIVISION CREWS WILL MAKE TAPS ON CITY MAINS ARRANGED THROUGH WATER DIVISION INSPECTOR (72 HOUR NOTIFICATION).
- ALL EXISTING SERVICE CONNECTIONS TIED ONTO THE EXISTING WATERLINE SHALL BE RECONNECTED BY THE CONTRACTOR, INCLUDING RELOCATING EXISTING WATER METERS. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO NOTIFY AND COORDINATE WITH THE WATER DIVISION INSPECTOR SAID RECONNECTIONS / RELOCATIONS IN ADVANCE OF CONSTRUCTION TO AVOID DELAYS. (NO SEPARATE COSTS)
- MINOR LENGTH OF DUCTILE IRON PIPE ADJACENT TO FITTINGS MAY BE REQUIRED AS DIRECTED BY THE WATER DIVISION INSPECTOR BASED ON CONDITIONS ENCOUNTERED IN THE FIELD. THE CONTRACTOR SHALL USE D.I.P. AS DIRECTED AND SHALL BE PAID AT THE UNIT PRICE BID FOR THE APPROPRIATE SIZE WATERLINE. A MINOR LENGTH IS DEFINED AS A SINGLE LOCATION REQUIRING THE USE OF TWO JOINTS OR LESS.
- MINOR ADJUSTMENTS IN THE LOCATIONS OF FITTINGS, VALVES, FIRE HYDRANTS, ETC. CAN BE ANTICIPATED. THE CONTRACTOR SHALL MAKE SAID MINOR ADJUSTMENTS AS DIRECTED BY THE ENGINEER AND/OR WATER DIVISION INSPECTOR AT NO INCREASE OF CONTRACT PRICE. WATER DIVISION WILL BE NOTIFIED PRIOR TO ALL CHANGES.
- ALL NIPPLES BETWEEN FITTINGS AND VALVES ALONG MAINS SHALL BE DUCTILE IRON.
- ALL DUCTILE IRON PIPES, VALVES, AND FITTINGS SHALL BE WRAPPED WITH (2) THICKNESSES OF 8 MIL. POLYETHYLENE AND SHALL BE RESTRAINED WITH "MEGALUG", MECHANICAL JOINT RESTRAINT OR ENGINEER APPROVED EQUAL AT ALL FITTINGS. CONCRETE THRUST BLOCKS SHALL BE PLACED BEHIND ALL FITTINGS EXCEPT WHERE LOCKING OR SWIVEL FITTINGS ARE UTILIZED, UNLESS OTHERWISE SPECIFIED BY THE WATER DIVISION ENGINEER.
- ALL OFFSETS ARE TO BE DUCTILE IRON PIPE ASSEMBLIES LOCKED TOGETHER BY RETAINER GLANDS. DUCTILE IRON BENDS SHALL BE UTILIZED FOR ANY CHANGES IN ALIGNMENT OR GRADE.
- IF A WATER LINE IS TO BE ABANDONED, THE CONTRACTOR WILL FILL WITH CONTROLLED LOW STRENGTH MATERIAL, "DARAFILL" BRAND OR ENGINEER APPROVED EQUAL, VALVES WILL BE REMOVED OR FILLED AS REQUIRED BY WATER DIVISION INSPECTOR.
- CONTRACTOR SHALL COORDINATE WITH WATER DIVISION INSPECTOR AND NOTIFY ALL AFFECTED CUSTOMERS 24 HOURS PRIOR TO KILLOUT OF EXISTING WATER SYSTEM.
- WATER DISTRIBUTION SYSTEM STANDARDS CALL FOR MAXIMUM 48" COVER ON WATERLINES. WHEN DEPTHS EXCEED 48" COVER TO AVOID OBSTRUCTION, THE USES OF BENDS COULD BE REQUIRED.
- CONTRACTOR SHALL KEEP ALL EXISTING VALVES ACCESSIBLE DURING ALL PHASES OF CONSTRUCTION.
- ALL NEW WATER MAINS SHALL BE INSTALLED SO THAT PIPE IDENTIFICATION MARKINGS ARE LOCATED ON THE TOP OF THE PIPE.
- ALL SERVICE LINES UNDER PAVEMENT SHALL BE ONE INCH, INSIDE DIAMETER, MINIMUM.

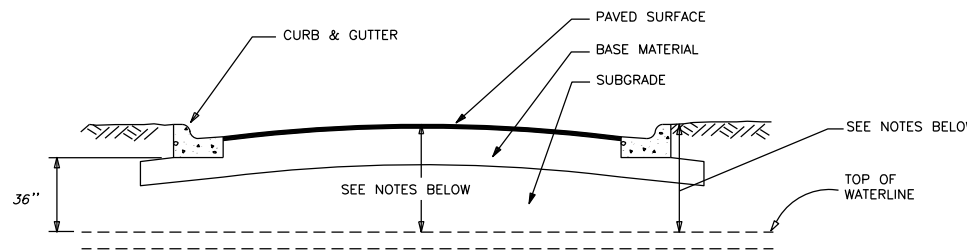
SPECIAL NOTE:
ENGINEER SHALL CONTACT THE UTILITY DEPARTMENT FOR WATER VAULT DESIGN COORDINATION.

SEPARATION OF WATER AND WASTEWATER LINES

- THE SEPARATION OF WATER AND WASTEWATER LINES AND THE MATERIAL USED SHALL BE IN ACCORDANCE WITH THE "RULES & REGULATIONS FOR PUBLIC WATER SYSTEMS" OF TEXAS NATURAL RESOURCE CONSERVATION COMMISSION AND THE CITY WATER DETAILS.
- WHENEVER WATER & WASTEWATER LINES CROSS, ONE JOINT OF C900 PVC WATER LINE SHALL BE CENTERED OVER THE WASTEWATER LINE IN ADDITION TO ANY REQUIREMENTS AS DICTATED BY ITEM 1 ABOVE.

NOTES:

CONTRACTOR MAY BE REQUIRED BY THE WATER DIVISION INSPECTOR TO INSTALL CENTERED JOINTS OF DUCTILE IRON PIPE AT WATERLINE CROSSINGS OF EXISTING HAZARDOUS PRODUCT FLOWLINES.

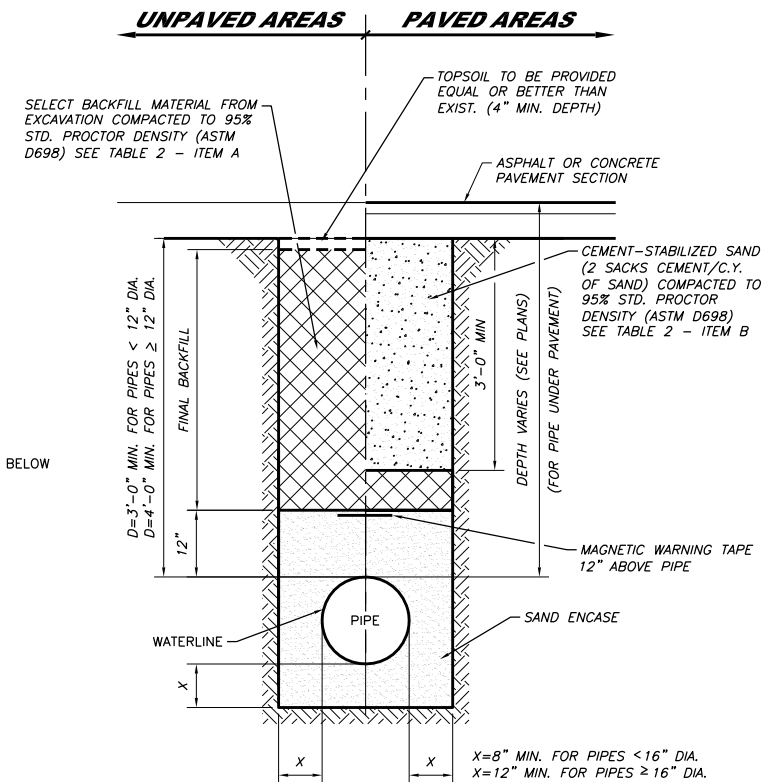


WATERLINE MINIMUM COVER REQUIREMENTS

NOT TO SCALE

NOTES:

- ALL MAINS IN THE STREET SHALL HAVE A MINIMUM OF 36" OF COVER AND BE 12" MINIMUM BELOW SUBGRADE AT ALL POINTS AND HAVE VALVE CLEARANCES IN ACCORDANCE WITH THE VALVE DETAIL.
- ALL TRANSMISSION MAINS (12" DIAMETER & ABOVE) IN THE STREET SHALL HAVE 48" OF COVER AT ALL POINTS.
- ALL MAINS NOT UNDER THE STREET SHALL HAVE A MINIMUM OF 36" OF COVER AT ALL POINTS.



TYP. PIPE TRENCHING, BEDDING AND BACKFILL FOR WATERLINE

NOT TO SCALE

NOTE: (CONCRETE PAVEMENT ONLY)

CONTRACTOR HAS OPTION TO USE CEMENT STABILIZED SAND OR BACKFILL WITH SELECT BACKFILL MATERIAL

GENERAL NOTES FOR BACKFILL

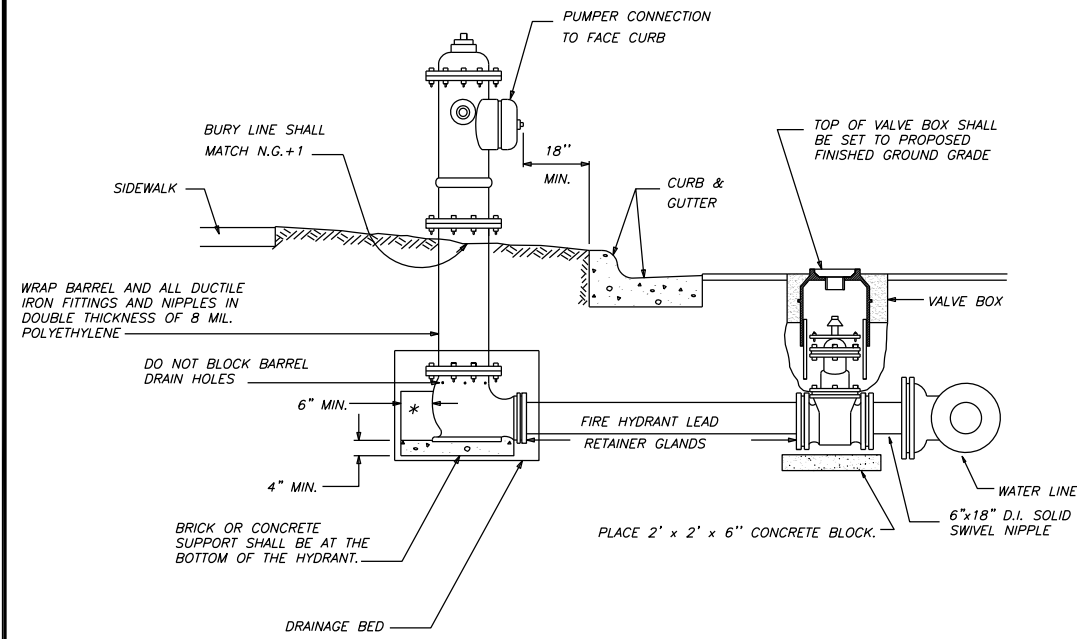
TABLE 1 BEDDING AND INITIAL BACKFILL (BELOW PIPE TO 12" ABOVE PIPE)	TABLE 2 FINAL BACKFILL (GREATER THAN 12" ABOVE PIPE)	
	UNPAVED AREAS	PAVED AREAS
<p>ALL BEDDING AND INITIAL BACKFILL SHALL CONSIST OF THE FOLLOWING OR REFER TO DESIGN ENGINEER REQUIREMENTS: GRANULAR BACKFILL CONSISTING OF EITHER NATURAL SAND OR SANDY GRAVEL, OR MATERIAL PRODUCED BY CRUSHING OF NATURAL STONE OR GRAVEL.</p> <p>WATER LINES:</p> <ol style="list-style-type: none"> EXCAVATIONS <20FT. DEEP AND ABOVE WATER TABLE, USE MATERIAL MEETING THE FOLLOWING CRITERIA. MEETING REQUIREMENTS OF ASTM D2487 FOR: SP GP SW GW SP-SM GP-GM SW-SM GW-GM <p>AND IN ADDITION: PASSING 1/2" SIEVE - 100% PASSING #4 SIEVE - 30% MINIMUM PLASTICITY INDEX (PI) - NP TO 10 MAX.</p> <ol style="list-style-type: none"> IN DEEP EXCAVATIONS (>20') OR BELOW WATER TABLE, USE CRUSHED STONE OR CRUSHED GRAVEL MEETING GRADATION OF: A. CONCRETE COARSE AGGREGATE; TxDOT ITEM 421; GRADE 2, 3, OR 4. 	<p>A. FOR 12" ABOVE PIPE TO BOTTOM OF TOPSOIL BACKFILL SHALL BE APPROVED SELECT MATERIAL FROM THE EXCAVATION; OR IMPORTED MATERIAL; ALL TO BE FREE OF ROCKS, DEBRIS, OR ANY CLUMPS GREATER THAN 2" IN DIAMETER; LOOSE LIFTS TO BE PLACED 10" MAX. COMPACT MATERIAL TO 95% STD. PROCTOR (D698). MOISTURE TO BE ADJUSTED TO ± 3% OF OPTIMUM.</p> <p>B. TOPSOIL TO BE PROVIDED EQUAL OR BETTER THAN EXISTING; AND MATCH EXISTING TOPSOIL DEPTH. COMPACT TO FIX CONFLICT TO EXISTING ADJACENT TOPSOIL. (CONSTRUCTION TO BE PERFORMED BY "DOUBLE DITCH" METHOD TOP SOIL SALVAGED TO BE PLACED ON TOP)</p>	<p>A. FOR 12" ABOVE PIPE TO 3' BELOW BOTTOM OF ROAD BASE; BACKFILL SHALL BE SELECT MATERIAL FROM EXCAVATION OR TO BE IMPORTED MATERIAL IN EITHER CASE, ALL MATERIAL SHALL MEET THE FOLLOWING: LL <35 PI 8-20 NO CLUMPS > 2" DIA. MOISTURE 0 TO +3% COMPACT 95% D698 STD PROCTOR LOOSE LIFTS OF 10" MAX OR IF SELECT MATERIAL FROM EXCAVATION DOES NOT MEET REQUIREMENTS, THEN USE CEMENT STABILIZED SAND SEE TABLE 2-ITEM B BELOW (OR PER DESIGN ENGINEER)</p> <p>B. FOR 3' BELOW BOTTOM OF ROAD BASE TO BOTTOM OF ROAD BASE: BACKFILL SHALL BE CEMENT STABILIZED SAND (2 SK/C.Y.) AND SHALL MEET THE FOLLOWING REQUIREMENTS: SAND GRADATION: % PASSING #4 55-100 #10 40-100 #40 25-100 #200 10-20 PI NP-10 (OR AS PER DESIGN ENGINEER) COMPACT TO 95% OF D698. MOISTURE TO BE ADJUSTED TO (+/-2%) OF OPTIMUM.</p>

CITY OF CORPUS CHRISTI
TEXAS
Department of Engineering Services

CITY OF CORPUS CHRISTI
WATER STANDARD DETAILS
WATER DISTRIBUTION SYSTEM GENERAL NOTES & BACKFILL AND EMBEDMENT DETAILS

SHEET ____ of ____
RECORD DRAWING NO.
CITY PROJECT # ____

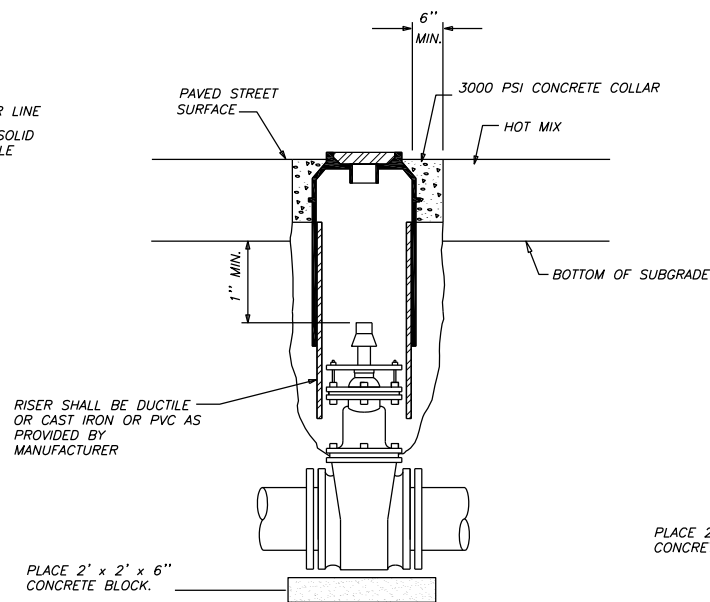
DESCRIPTION	BY	DATE	REVISION NO.



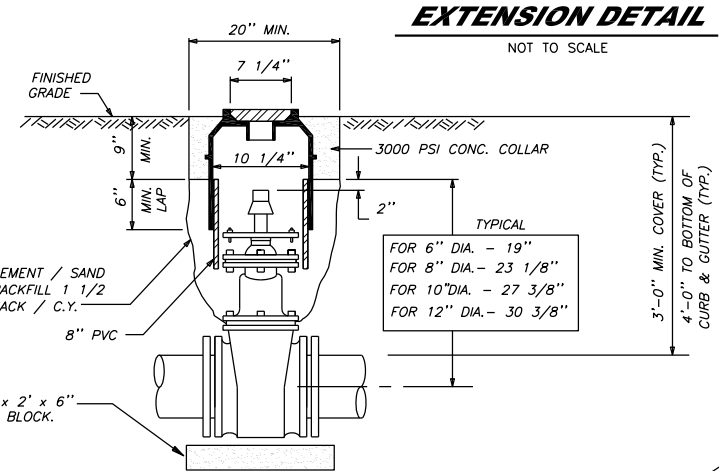
- * NOTE:**
1. ANYTHING LESS THAN 20' WILL BE DUCTILE IRON LOCKED TO THE VALVE.
 2. ANYTHING MORE THAN 20' SHALL REQUIRE CONCRETE THRUST BLOCK BEHIND HYDRANT AGAINST UNDISTURBED SOIL.

FIRE HYDRANT ASSEMBLY DETAIL (TYPE 1)
NOT TO SCALE

- FIRE HYDRANTS:**
1. DRAINAGE BED SHALL CONSIST OF CRUSHED STONE OR COARSE GRAVEL W/ COARSE SAND, MIN. VOLUME 7 CU. FT., DRAIN BED SHALL EXTEND A MIN. 6" ABOVE DRAIN OUTLET.
 2. ALL FIRE HYDRANT FITTINGS SHALL BE LOCKED TOGETHER BY LOCKING RETAINER GLANDS.
 3. FIRE HYDRANT TO BE BLOCKED AGAINST FIRM SOIL AS SHOWN.
 4. ALL HYDRANTS SHALL BE INSTALLED PLUMB.
 5. LARGE NOZZLE FACES ROAD, UNLESS OTHERWISE NOTED, ROTATE BARREL AS REQUIRED.
 6. HYDRANT SHOULD NOT BE SET CLOSER THAN 4' TO OBSTRUCTIONS THAT ARE IN LINE WITH NOZZLE.
 7. FIRE HYDRANT SHALL BE SET TO MANUFACTURER'S BURY LINE AT PROPOSED/EXISTING GRADE PLUS 1".
 8. NO TAPS ARE TO BE MADE ON FIRE HYDRANT LEAD.

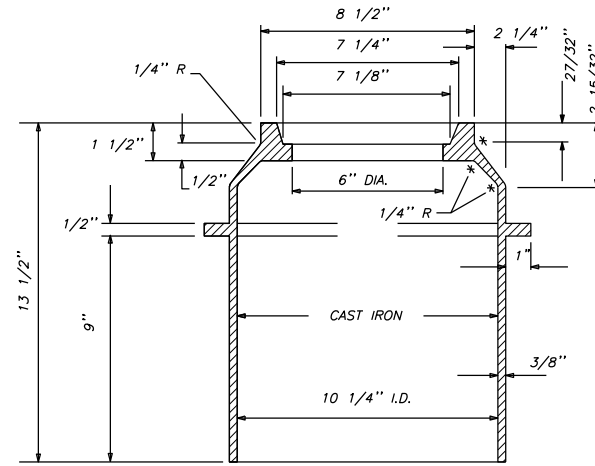


VALVE BOX DETAIL @ PAVEMENT
NOT TO SCALE

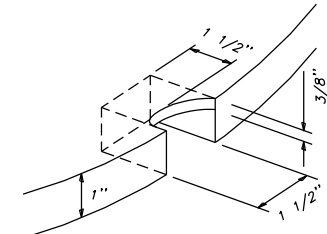


VALVE BOX DETAIL @ NATURAL GROUND
NOT TO SCALE

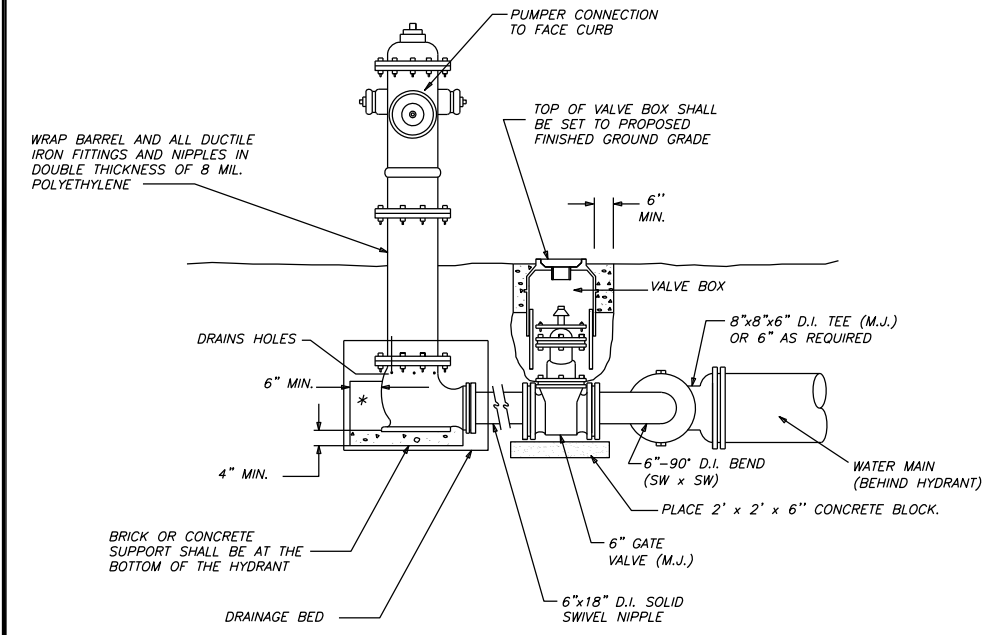
ALL VALVES SHALL BE HOUSED IN APPROVED VALVE BOXES



EXTENSION DETAIL
NOT TO SCALE

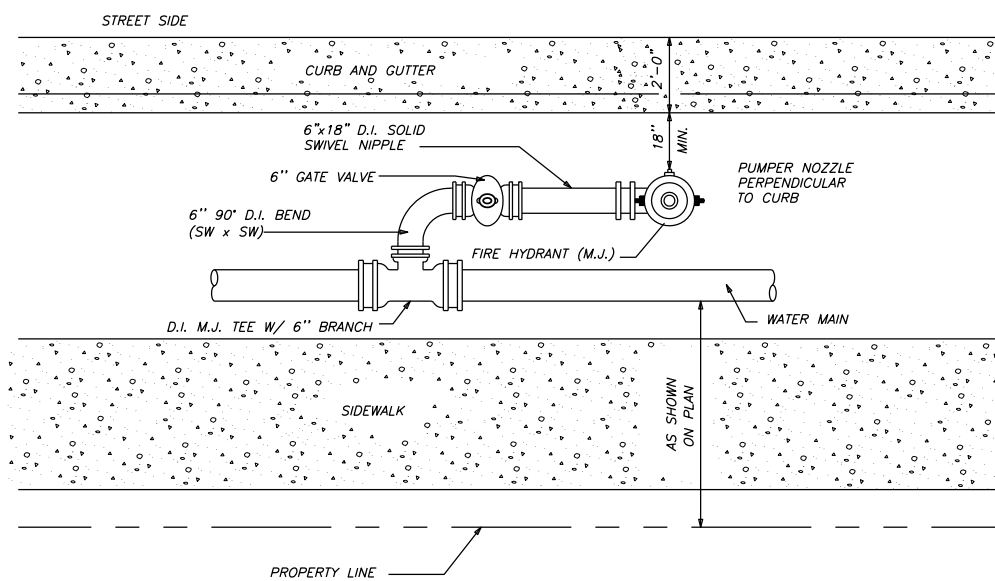


PICK NOTCH
NOT TO SCALE

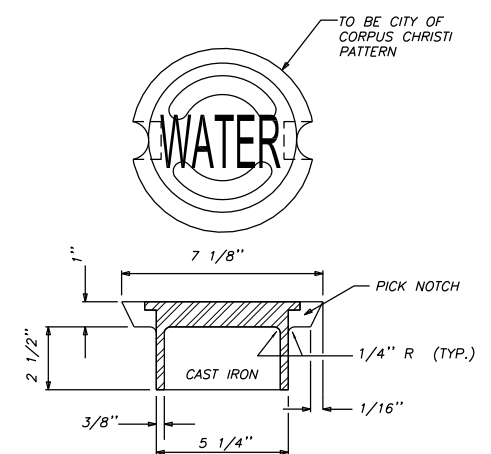


- * NOTE:**
1. ANYTHING LESS THAN 20' WILL BE DUCTILE IRON LOCKED TO THE VALVE.
 2. ANYTHING MORE THAN 20' SHALL REQUIRE CONCRETE THRUST BLOCK BEHIND HYDRANT AGAINST UNDISTURBED SOIL.

FIRE HYDRANT ASSEMBLY DETAIL (TYPE 2)
WATER LINE BEHIND CURB
NOT TO SCALE



FIRE HYDRANT ASSEMBLY DETAIL (TYPE 2)
NOT TO SCALE



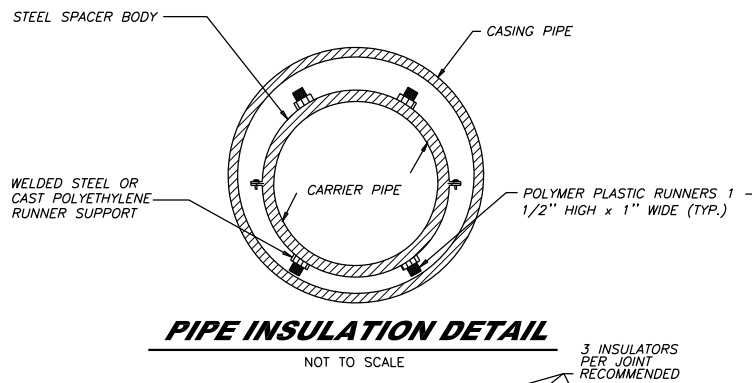
LID DETAIL
NOT TO SCALE

REVISION NO.	DATE	BY	DESCRIPTION

CITY OF CORPUS CHRISTI
TEXAS
Department of Engineering Services

CITY OF CORPUS CHRISTI
WATER STANDARD DETAILS
FIRE HYDRANT, VALVE BOX AND LID

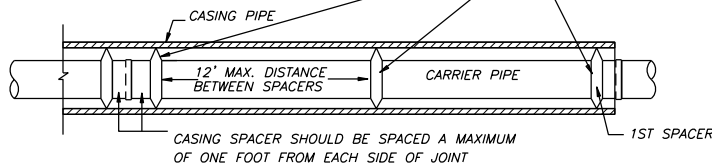
SHEET _____ of _____
RECORD DRAWING NO. _____
CITY PROJECT # _____



PIPE INSULATION DETAIL

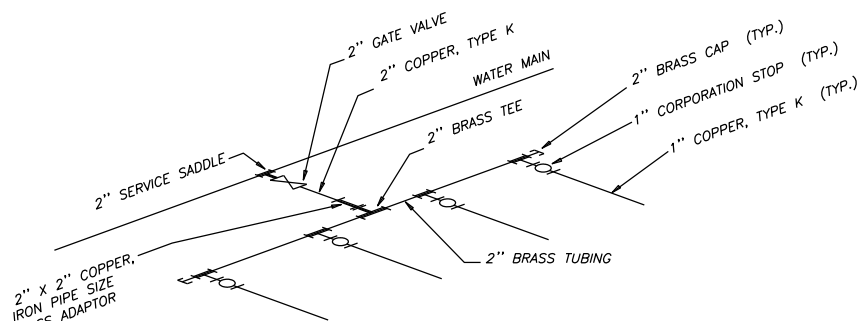
NOT TO SCALE

3 INSULATORS PER JOINT RECOMMENDED



INSULATOR SPACING DETAIL

NOT TO SCALE

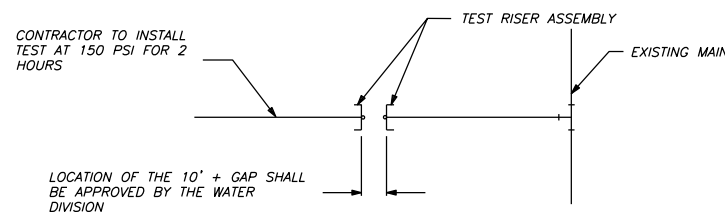


NOTE:

MANIFOLDS LARGER THAN SIX CONNECTIONS WILL REQUIRE APPROVAL FROM THE CITY OF CORPUS CHRISTI WATER DEPARTMENT FOR ANOTHER WATER TAP AND SERVICE.

THREE TO SIX WATER CONNECTIONS

NOT TO SCALE



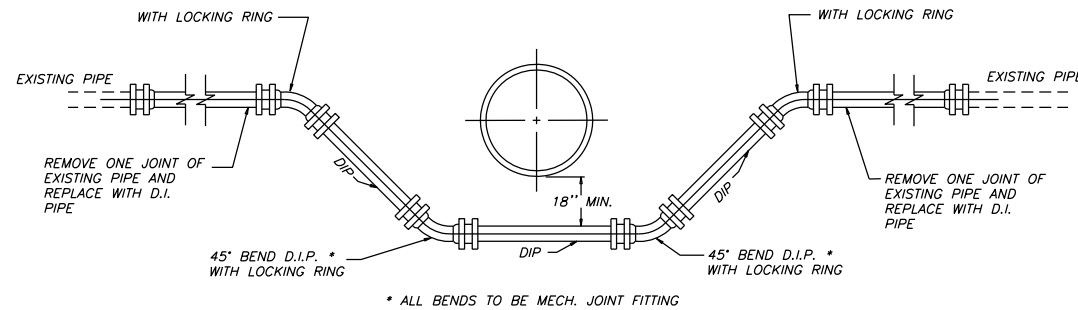
1. HYDROSTATIC TEST: WATER FOR FILLING THE NEW WATER LINE AND PERFORMING TESTS WILL BE FURNISHED TO THE CONTRACTOR BY THE CITY OF CORPUS CHRISTI THROUGH A STANDARD WATER CONSTRUCTION METER CONNECTION. STANDARD WATER CONSTRUCTION METER AND GAUGE WILL BE SUPPLIED BY THE CITY AFTER THE CONTRACTOR HAS PAID ALL APPLICABLE FEES FOR THE WATER CONSTRUCTION METER. THE TEST PUMP WITH APPROPRIATE CONNECTION POINTS AS APPROVED BY THE WATER SUPERINTENDENT FOR THE INSTALLATION OF METER AND GAUGE SHALL BE FURNISHED BY THE CONTRACTOR. THE METER SHALL BE DIRECTLY CONNECTED TO THE MAIN OR PIPE BEING TESTED BY THE USE OF COPPER TUBING OR AN APPROVED REINFORCED HOSE. THE METER SHALL BE PROTECTED AGAINST EXTREME PRESSURES BY THE USE OF A ONE (1") INCH SAFETY RELIEF VALVE SET AT THE TEST PRESSURE PLUS TEN POUNDS PER SQUARE INCH AND FURNISHED BY THE CITY (48 HOURS NOTIFICATION).
2. BACTERIOLOGICAL TEST: CONTRACTOR SHALL FURNISH AND INSTALL TEST RISER ASSEMBLY. AFTER BACTERIOLOGICAL SAMPLE PASSES TEST, CONTRACTOR SHALL REMOVE TEST RISER ASSEMBLIES AND TIE NEW SYSTEM TO EXISTING UNDER THE SUPERVISION OF THE WATER DIVISION INSPECTOR. CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR AND EQUIPMENT THAT IS REQUIRED TO MAKE TIE / CONNECTION. CONTRACTOR WILL SCHEDULE & COORDINATE WITH WATER DIVISION INSPECTOR ON DATE & TIME OF TIE-IN. (24 HOURS NOTIFICATION)
3. CONTRACTOR SHALL FURNISH AND INSTALL TAPPING SLEEVE OR SADDLE AND TAPPING GATE VALVE AND VALVE BOX COMPLETE. CITY TO MAKE TAP (72 HOURS NOTIFICATION)

DETAIL "A" TEST RISER ASSEMBLY CONNECTION

NOT TO SCALE

CASING SPACERS

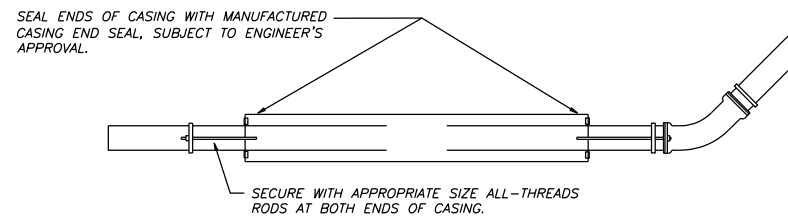
- ALL CARRIER PIPE IN CASING INSTALLED BY JACKING OR BORING SHALL BE SUPPORTED BY BOLT-ON STYLE CASING SPACERS, AS MANUFACTURED BY ADVANCE PRODUCTS INC. OR ENGINEER APPROVED EQUAL.
- CASING SPACERS FOR PIPE INSTALLED IN CASING SHALL HAVE A FUSION BONDED EPOXY CARBON STEEL BODY, NEOPRENE OR PVC LINER, STEEL SUPPORTS AND U.H.M.W. POLYETHYLENE RUNNERS.
- CASING SPACERS SHALL BE SIZED TO SECURELY FASTEN ON TO THE CARRIER PIPE BARRIER O.D. AND SHALL BE FURNISHED WITH A MINIMUM RUNNER HEIGHT TO PREVENT THE PIPE FROM RESTING OR SLIDING ON ITS JOINTS DURING THE INSTALLATION.
 - POSITIONING OF SPACERS SHOULD ENSURE THAT THE CARRIER PIPE IS ADEQUATELY SUPPORTED THROUGHOUT ITS LENGTH.
 - SPACERS AT EACH END SHALL NOT BE FURTHER THAN 6" FROM THE END OF CASING REGARDLESS OF SIZE OF CASING AND CARRIER PIPE OR TYPE OF SPACER USED.
- FOR PIPE WITH MECHANICAL JOINTS, FLANGES OR BELL AND SPIGOT JOINTS, CASING SPACERS SHALL BE INSTALLED WITHIN ONE FOOT ON EACH SIDE OF THE BELL OR FLANGE AND ONE IN THE CENTER OF THE JOINT WHEN 18 TO 20 FOOT LONG JOINTS ARE USED. MAXIMUM SPACING FOR SPACERS IS 12 FEET.



WATERLINE ADJUSTMENT DETAIL

NOT TO SCALE

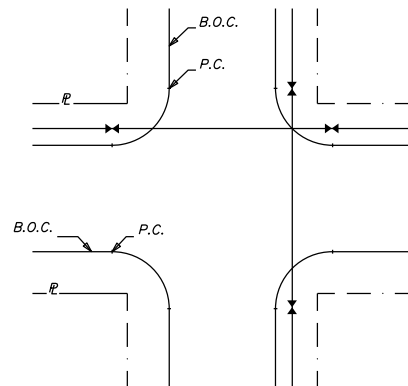
NOTE:
SEE #18 UNDER GENERAL NOTES



TYPICAL CASING DETAIL

NOT TO SCALE

NOTE:
CASING SHALL BE STEEL.

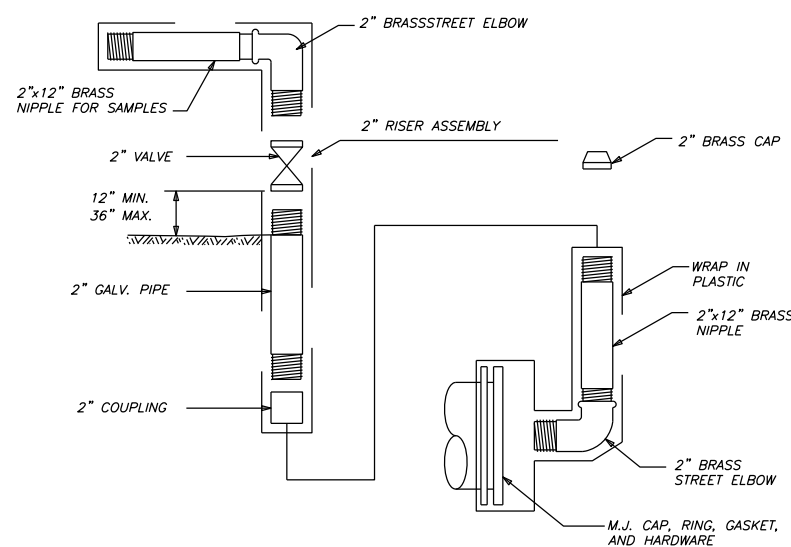


NOTE:

VALVES SHALL BE INSTALLED AT THE POINT OF CURVATURE (P.C.) OF THE CURB WHENEVER POSSIBLE.

TYPICAL VALVE INSTALLATION AT INTERSECTIONS

NOT TO SCALE



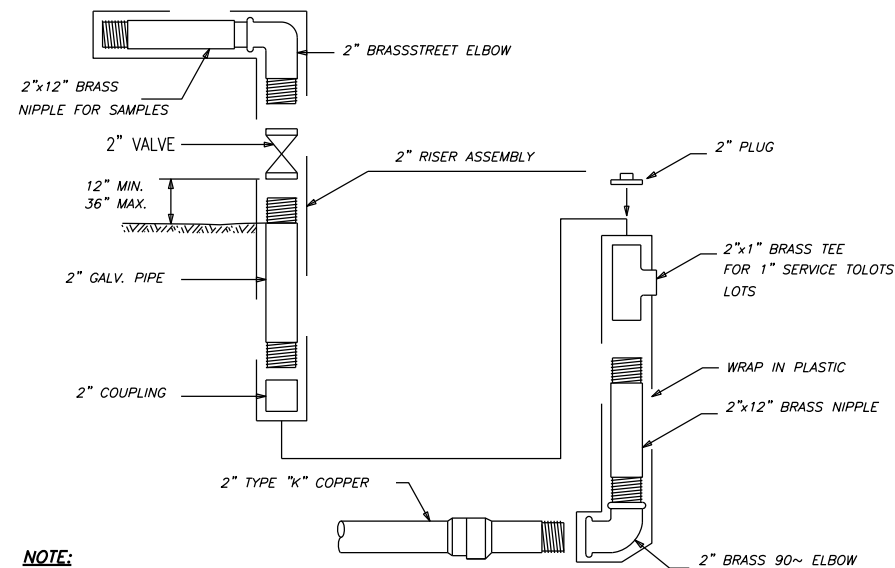
NOTE:

AFTER BACTERIOLOGICAL SAMPLE PASSES TEST, CONTRACTOR WILL REMOVE RISER ASSEMBLY AND INSTALL 2" BRASS CAP

DETAIL "B" TEST RISER ASSEMBLY

NOT TO SCALE

FURNISHED AND INSTALLED BY CONTRACTOR



NOTE:

CONTRACTOR WILL REMOVE RISER ASSEMBLY AND INSTALL 2" BRASS PLUG ON 2"x1" BRASS TEE AFTER SAMPLE PASSES

DETAIL "C" TEST RISER ASSEMBLY

NOT TO SCALE

FURNISHED AND INSTALLED BY CONTRACTOR

DESCRIPTION

BY

DATE

REVISION NO.

DESCRIPTION

DESCRIPTION

BY

DATE

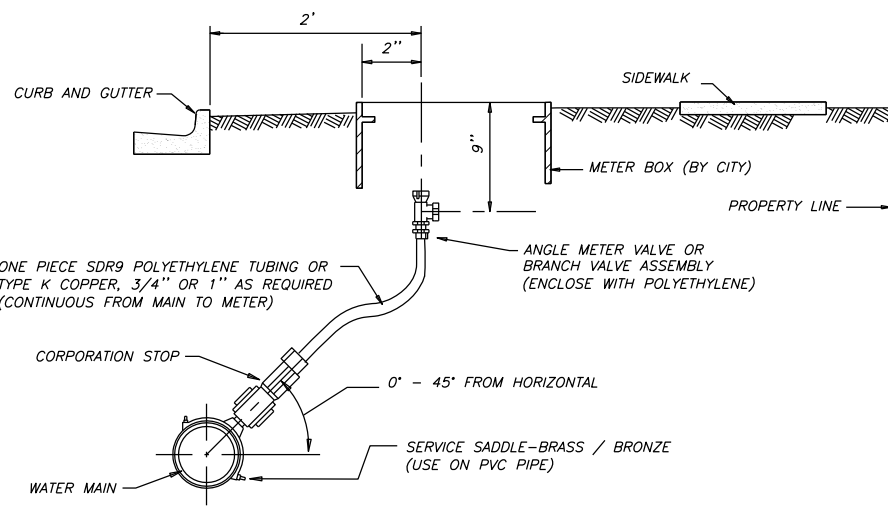
REVISION NO.

CITY PROJECT #

CITY OF CORPUS CHRISTI
TEXAS
Department of Engineering Services

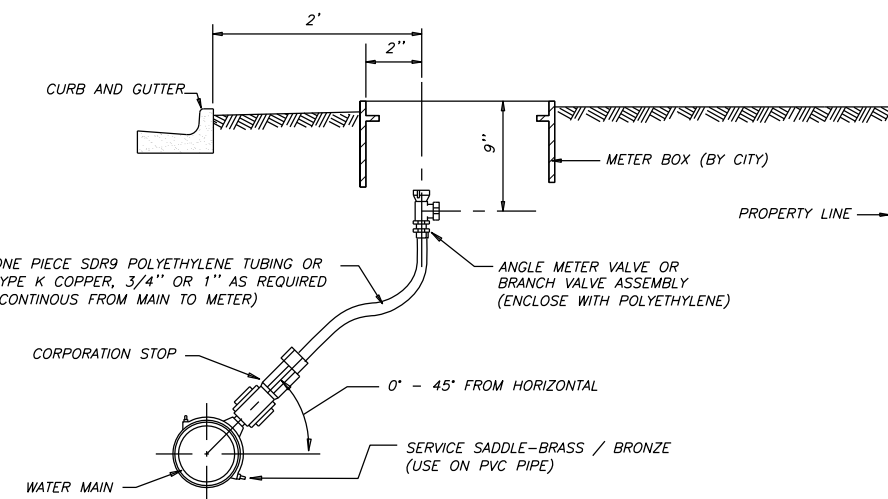
CITY OF CORPUS CHRISTI
WATER STANDARD DETAILS
ADJUSTMENTS, CASING DETAILS, RISER DETAILS
& TYP. VALVE LAYOUT

SHEET ____ of ____
RECORD DRAWING NO.
CITY PROJECT #



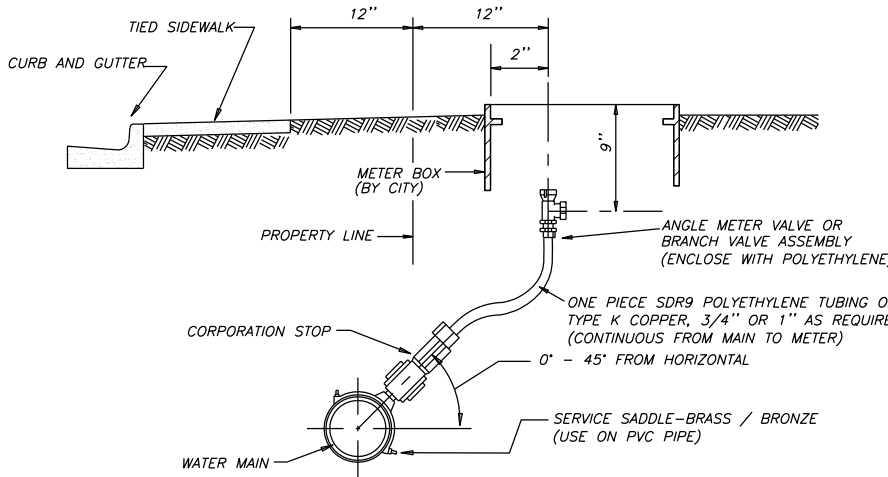
SERVICE WITH SIDEWALK

NOT TO SCALE



SERVICE WITHOUT SIDEWALK

NOT TO SCALE

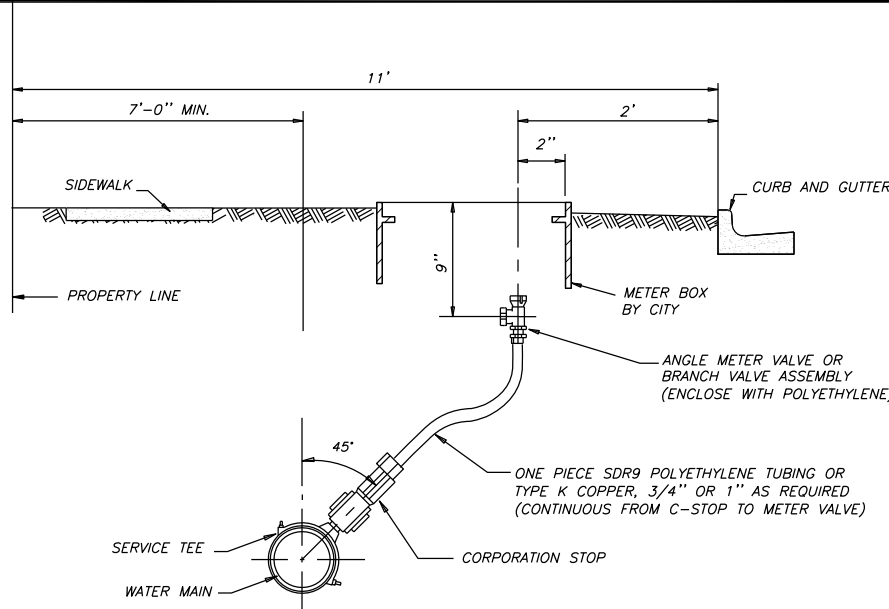


SERVICE WITH SIDEWALK TIED TO CURB

NOT TO SCALE

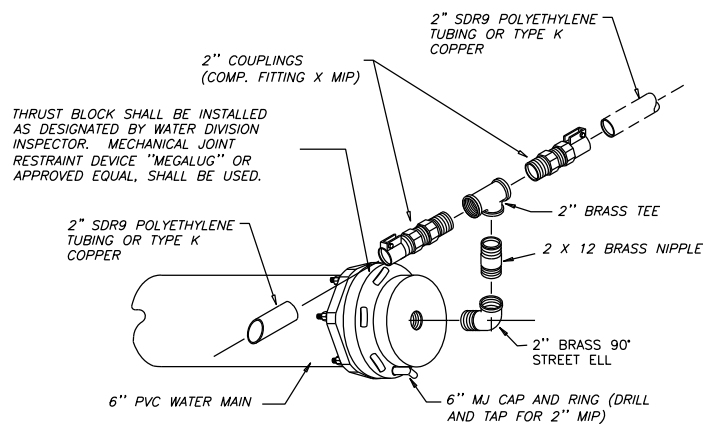
NOTES:

1. IF THERE IS LESS THAN 2' FROM BACK OF SIDEWALK TO PROPERTY LINE, THE METER BOX SHALL BE PLACED 1' BEHIND PROPERTY LINE AND UTILITY EASEMENT WILL BE REQUIRED.
2. IF THERE IS MORE THAN 2' FROM BACK OF SIDEWALK TO PROPERTY LINE, THE METER BOX SHALL BE PLACED BEHIND SIDEWALK.
3. THE WATER DIVISION WILL APPROVE ANY PLACEMENT OF A SERVICE LINE IN A TIEDSIDEWALK SITUATION.



TYPICAL CUL-DE-SAC SERVICE

NOT TO SCALE

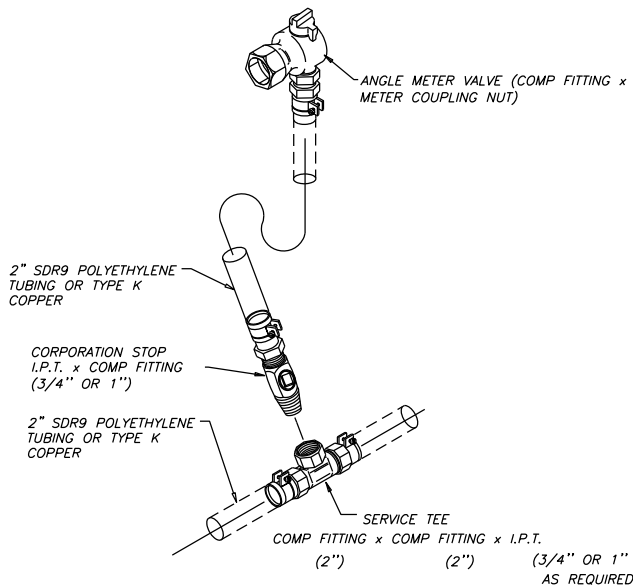


NOTE:

NO MORE THAN 3 LOTS SHALL BE SERVED PER LEG.

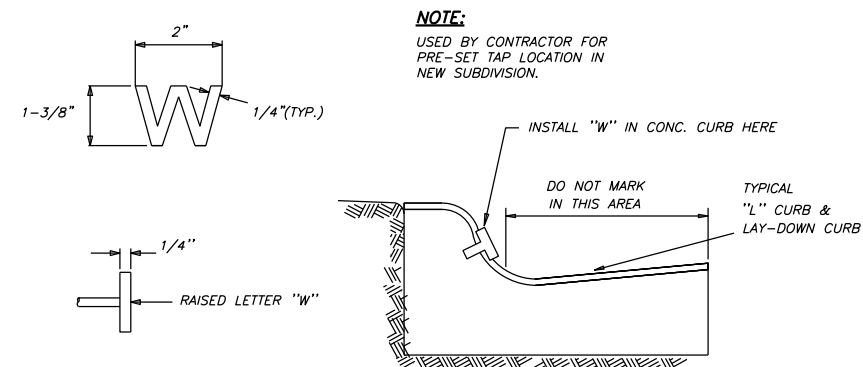
TYPICAL CONNECTION DETAIL

NOT TO SCALE



TYPICAL CONNECTION DETAIL

NOT TO SCALE



BRASS "W" DETAIL

MARKER LOCATION

PRE-SET SERVICE LINE MARKER DETAILS

NOT TO SCALE

SERVICE LINE MATERIALS

SERVICE CLAMPS

FOR 3/4", 1", 1 1/2" I.P. THREAD TAPS FOR 6" MAINS; 2" I.P. THREAD CLAMP TAP CONNECTION ALLOWED FOR 8" AND LARGER MAINS.

CORPORATION STOPS

3/4", 1", 1 1/2", AND 2" REQUIRED WITH I.P. THREAD INLET BY COPPER COMPRESSION OUTLET WITH CLAMP - CORPORATION STOP REQUIRED AT ALL SERVICE TAPS.

ONE PIECE SDR9 POLYETHYLENE TUBING OR TYPE K COPPER

REQUIRED FOR ALL SERVICE LINES BETWEEN MAIN TO METER - SIZES REQUIRED 3/4", 1", 1 1/2", AND 2" (NO SPLICES ALLOWED)

ANGLE METER STOP

REQUIRED AT ALL METERS - SIZES 3/4" & 1" - INSTALL 3/4" UNLESS DIRECTED OTHERWISE - COPPER COMPRESSION W/ CLAMP INLET BY METER COUPLING NUT OUTLET.

METER (BY OTHERS)

METER ADAPTER AND CHECK VALVE (BY OTHERS)

REQUIRED AT ALL METERS - SIZES 3/4" & 1" - INSTALL 3/4" UNLESS DIRECTED OTHERWISE - METER NUT INLET BY 3/4" MALE I.P. OUTLET.

ADAPTER COUPLING (BY OTHERS)

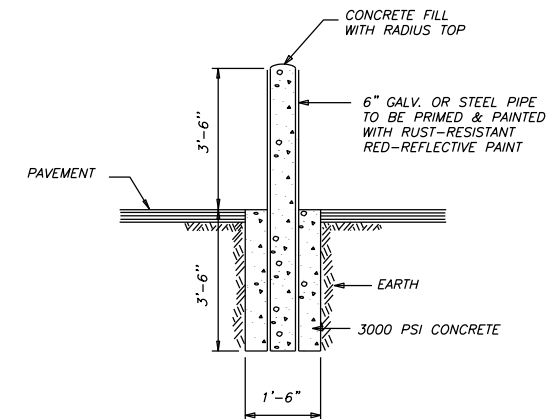
REQUIRED AT ALL METERS - 3/4" & 1" - FEMALE I.P. BY PVC COMPRESSION.

METER BOX

CAST IRON W/ HOT TAR DIP SHALL BE PROVIDED BY THE CONTRACTOR FOR 3/4" METER SETTINGS, IF EXISTING STRUCTURE DOES NOT HAVE ONE. BOXES FOR LARGER (1" & UP) METER SETTINGS SHALL BE FURNISHED BY THE CITY.

BRASS FITTINGS

BRASS FITTINGS SHALL COMPLY WITH A.W.W.A. C800-66 AND BE WRAPPED IN POLYETHYLENE.



NOTE:

DO NOT PLACE BOLLARD IN FRONT OF HOSE OUTLETS

BOLLARD DETAIL

NOT TO SCALE

DESCRIPTION

BY

DATE

REVISION NO.

DESCRIPTION

BY

DATE

REVISION NO.

CITY OF CORPUS CHRISTI
TEXAS
Department of Engineering Services

CITY OF CORPUS CHRISTI
WATER STANDARD DETAILS
MAIN TO SERVICE DETAILS AND OTHERS

SHEET ____ of ____
RECORD DRAWING NO.
CITY PROJECT # ____

Stormwater Pollution Prevention – Clean Water Act Section 402

TPDES TXR 150000: Stormwater Discharge Permit or Construction General Permit required for projects with 1 or more acres disturbed soil. Projects with any disturbed soil must protect for erosion and sedimentation.

No Action Required Required Action

Action No.

1. Prevent stormwater pollution by controlling erosion and sedimentation in accordance with TPDES Permit TXR 150000
2. Comply with the SW3P and revise when necessary to control pollution or required by the Engineer.
3. Post Construction Site Notice, (CSN) with SW3P information on or near the site, accessible to the public and TCEQ, EPA or other inspectors.
4. When Contractor project specific locations (PSL's) increase disturbed soil area to 5 acres or more, submit NOI to TCEQ and the Engineer.

Work in or near Streams, Waterbodies and Wetlands Clean Water Act Sections 401 & 404

No Permit Required
USACE Permit required for filling, dredging, excavating or other work in any water bodies, rivers, creeks, streams, wetlands or wet areas.

The Contractor must adhere to all of the terms and conditions associated with the following permit(s):

-
- Nationwide Permit 14 – PCN not Required (less than 1/10th acre waters or wetlands affected)
 - Nationwide Permit 14 – PCN Required (1/10 to <1/2 acre, 1/3 in tidal waters)
 - Individual 404 Permit Required
 - Other Nationwide Permit Required: NWP# _____

Required Actions: List waters of the US permit applies to, location in project and check Best Management Practices planned to control erosion, sedimentation and post-project TSS.

- 1.
- 2.
- 3.
- 4.

Best Management Practices:

- | | | |
|--|--|--|
| Erosion | Sedimentation | Post-Construction TSS |
| <input type="checkbox"/> Temporary Vegetation | <input type="checkbox"/> Silt Fence | <input type="checkbox"/> Vegetative Filter Strips |
| <input type="checkbox"/> Blankets/Matting | <input type="checkbox"/> Rock Berm | <input type="checkbox"/> Retention/Irrigation Systems |
| <input type="checkbox"/> Mulch | <input type="checkbox"/> Triangular Filter Dike | <input type="checkbox"/> Extended Detention Basin |
| <input type="checkbox"/> Sodding | <input type="checkbox"/> Sand Bag Berm | <input type="checkbox"/> Constructed Wetlands |
| <input type="checkbox"/> Interceptor Swale | <input type="checkbox"/> Straw Bale Dike | <input type="checkbox"/> Wet Basin |
| <input type="checkbox"/> Diversion Dike | <input type="checkbox"/> Brush Berms | <input type="checkbox"/> Erosion Control Compost |
| <input type="checkbox"/> Erosion Control Compost | <input type="checkbox"/> Erosion Control Compost | <input type="checkbox"/> Mulch Filter Berm and Socks |
| <input type="checkbox"/> Mulch Filter Berm and Socks | <input type="checkbox"/> Mulch Filter Berm and Socks | <input type="checkbox"/> Compost Filter Berm and Socks |
| <input type="checkbox"/> Compost Filter Berm and Socks | <input type="checkbox"/> Compost Filter Berm and Socks | <input type="checkbox"/> Vegetation Lined Ditches |
| | <input type="checkbox"/> Stone Outlet Sediment Traps | <input type="checkbox"/> Sand Filter Systems |
| | <input type="checkbox"/> Sediment Basins | |

III. Cultural Resources

In the event historical issues or archeological artifacts (bones, burnt rock, flint, pottery, etc.) are found during construction, cease work in the immediate area and contact the Engineer immediately.

No Action Required Required Action

Action No.

- 1.
- 2.
- 3.
- 4.
- 5.

IV. Vegetation Resources

Preserve native vegetation to the extent practical.

No Action Required Required Action

Action No.

- 1.
- 2.
- 3.
- 4.

V. Federal Listed, and Proposed Threatened and Endangered Species, Critical Habitat, State Listed Species, Candidate Species and Migratory Birds.

No Action Required Required Action

Action No.

- 1.
- 2.
- 3.
- 4.

If any of the listed species are observed, cease work in the immediate area, do not disturb species or habitat and contact the Engineer immediately. The work may not remove active nests from bridges and other structures during nesting season of the birds associated with the nests. If caves or sinkholes are discovered, cease work in the immediated area, and contact the Engineer immediately.

VI. Hazardous Materials or Contamination Issues

General (applies to all projects):

Comply with the Hazard Communication Act (the Act) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers aware of potential hazards in the workplace. Ensure that all workers are provided with personal protective equipment appropriate for any hazardous materials used.

Obtain and keep on-site Material Safety Data Sheets, (MSDS) for all hazardous products used on the project, which may include, but are not limited to the following categories: Paints, acids, solvents, asphalt products, chemical additives, fuels and concrete curing compounds or additives. Provide protected storage, off bare ground and covered, for products which may be hazardous. Maintain product labelling as required by the Act.

Maintain an adequate supply of on-site spill response materials, as indicated in the MSDS. In the event of a spill, take actions to mitigate the spill as indicated in the MSDS, in accordance with safe work practices, and contact the District Spill Coordinator immediately. The Contractor shall be responsible for the proper containment and cleanup of all product spills.

Contact the Engineer if any of the following are detected:

- * Dead or distressed vegetation (not identified as normal)
- * Trash piles, drums, canister, barrels, etc.
- * Undesirable smells or odors
- * Evidence of leaching or seepage of substances

Any other evidence indicating possible hazardous materials or contamination discovered on site.

Hazardous Materials or Contamination Issues Specific to this Project:

No Action Required Required Action

Action No.

- 1.
- 2.
- 3.
- 4.

VII. Other Environmental Issues

(Include applicable regional or site specific environmental issues.)

No Action Required Required Action

Action No.

- 1.
- 2.
- 3.
- 4.

CONSULTANT'S SHEET No.

DESCRIPTION

BY

DATE

REVISION NO.



CITY OF CORPUS CHRISTI TEXAS
Department of Engineering Services

DESCRIPTION

BY

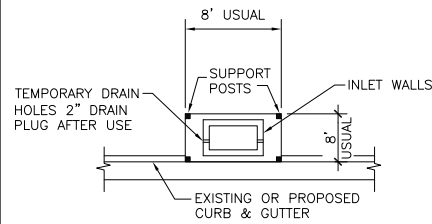
DATE

REVISION NO.

SHEET _____ of _____
RECORD DRAWING NO.

CITY PROJECT # _____

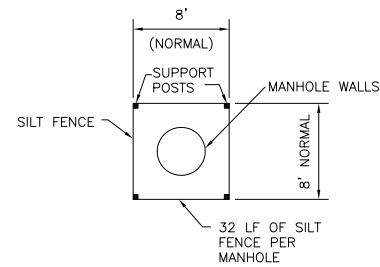
CITY OF CORPUS CHRISTI
STORM WATER ENVIRONMENTAL PERMITS
ISSUED AND COMMENTS (EPIC) 2 of 3



NOTE:
TYPICAL SILT FENCE INSTALLATION AT CURB INLET PRIOR TO PLACEMENT OF CURB AND INLET TOP.

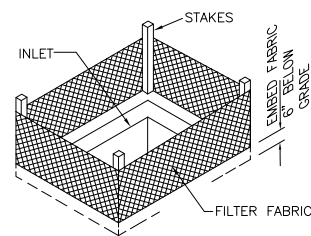
CURB INLET - PLAN

NOT TO SCALE



MANHOLE - PLAN

NOT TO SCALE

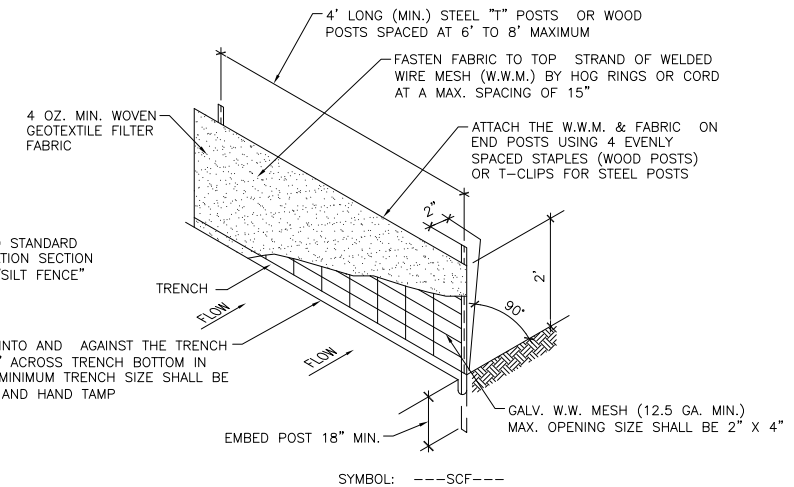


TEMPORARY FILTER FABRIC INLET PROTECTION DETAIL

NOT TO SCALE

NOTES:

1. FILTER FABRIC INLET PROTECTION SHALL BE USED DURING CONSTRUCTION TO CONTROL SEDIMENTATION.
2. PERIMETER SILT FENCING AROUND INLET LOCATIONS SHALL BE INSTALLED AFTER PIPE IS PLACED.
3. FABRIC MATERIAL SHALL BE A NET-REINFORCED FENCE, USING WOVEN GEOTEXTILE FABRIC.
4. FENCE SHOULD BE REMOVED UPON COMPLETION OF CONSTRUCTION.



NOTE:
REFER TO STANDARD SPECIFICATION SECTION 022420 "SILT FENCE"

PLACE 6" OF FABRIC INTO AND AGAINST THE TRENCH WALL AND APPROX. 2" ACROSS TRENCH BOTTOM IN UPSTREAM DIRECTION MINIMUM TRENCH SIZE SHALL BE 6" SQUARE. BACKFILL AND HAND TAMP

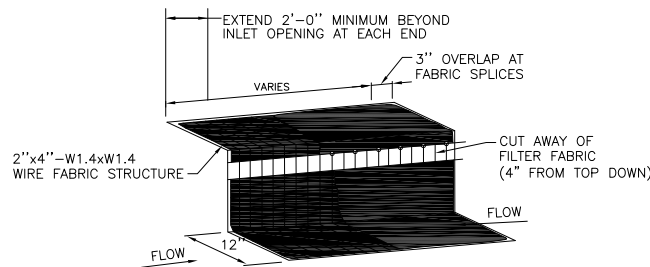
TEMPORARY SEDIMENT CONTROL FENCE DETAIL

NOT TO SCALE

SEDIMENT CONTROL FENCE USAGE GUIDELINES:

SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED.
SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAX. FLOW THROUGH RATE OF 100 GPM/FT. SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE LARGER THEN 2 ACRES.

* THE GUIDELINES SHOWN HERE ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

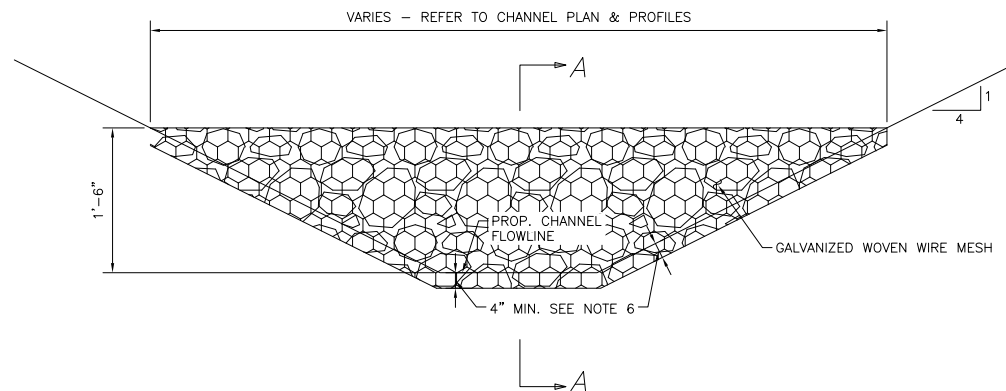


CURB INLET PROTECTION DETAIL

NOT TO SCALE

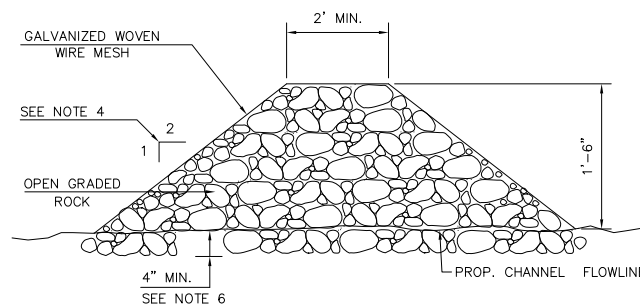
NOTES:

TYPICAL EROSION CONTROL INSTALLATION AT CURB INLET AFTER PLACEMENT OF CURB AND INLET TOP.



ROCK FILTER DAM AT EARTHEN BOTTOM CHANNEL

NOT TO SCALE

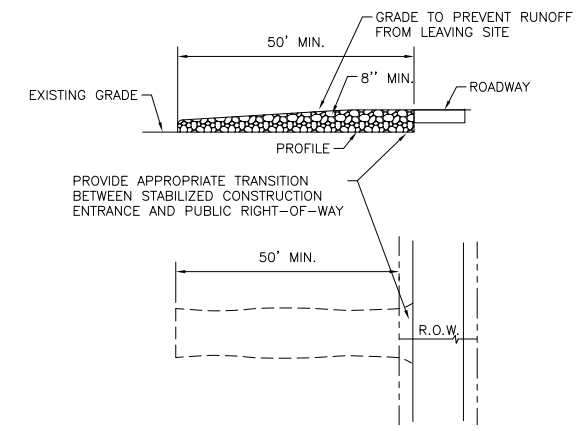


SECTION A-A

NOT TO SCALE

ROCK FILTER DAM 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 SPECIFICATIONS FOR "ROCK FILTER DAMS FOR EROSION AND SEDIMENT CONTROL."
3. THE ROCK FILTER DAM DIMENSIONS SHALL BE AS INDICATED ON THE PLANS.
4. SIDE SLOPES SHOULD BE 2:1 OR FLATTER.
5. ROCK FILTER DAM SHALL BE A MINIMUM OF TWO FEET IN THICKNESS AT TOP OF DAM.
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 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 & SLOPE 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. FLOW OUTLET SHOULD BE ONTO A STABILIZED AREA (VEGETATION, ROCK, ETC.)
10. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.



PLAN STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

CONSTRUCTION ENTRANCE NOTES:

1. STONE SIZE: 3-5" OPEN GRADED ROCK.
2. LENGTH: AS EFFECTIVE BUT NOT LESS THAN 50'.
3. THICKNESS: NOT LESS THAN 8".
4. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
5. WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
6. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENTS THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
7. DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

REVISION NO.	DATE	BY	DESCRIPTION

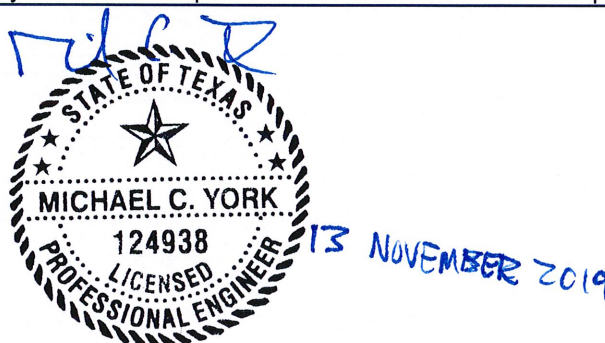
CITY OF CORPUS CHRISTI
TEXAS
Department of Engineering Services

CITY OF CORPUS CHRISTI
STORM WATER POLLUTION PREVENTION
STANDARD DETAILS
3 OF 3

SHEET _____ of _____
RECORD DRAWING NO. _____
CITY PROJECT # _____

**LONDON TOWNE, UNIT ONE
GRID MAIN WATERLINE REIMBURSEMENT**

ITEM	DESCRIPTION	QUAN.	UNIT	UNIT PRICE	TOTAL COST
A. OFF-SITE WATER IMPROVEMENTS:					
1	48"x24" Tapping Sleeve w/ 24" Gate Valve	1	EA	\$45,000.00	\$45,000.00
2	24"x16" Reducer	1	EA	\$750.00	\$750.00
3	16" PVC C-900 (All Depths)	4,580	LF	\$100.00	\$458,000.00
4	Fire Hydrant Assembly	8	EA	\$4,500.00	\$36,000.00
5	16"x6" Ductile Iron Tee	8	EA	\$1,200.00	\$9,600.00
6	16" Gate Valve	8	EA	\$7,800.00	\$62,400.00
7	16"x45 Ductile Iron Bend	2	EA	\$800.00	\$1,600.00
8	16" Cap & Plug	1	EA	\$950.00	\$950.00
9	Combination Air/Vacuum Valve	4	EA	\$11,500.00	\$46,000.00
10	Mechanical Joint Restraints	66	EA	\$2,900.00	\$191,400.00
11	Bollard	4	EA	\$500.00	\$2,000.00
12	Silt Fence	4,600	LF	\$4.00	\$18,400.00
13	Construction Entrance	1	EA	\$4,500.00	\$4,500.00
14	Hydro-Mulch and Seeding	3.0	AC	\$6,000.00	\$18,000.00
15	Easement through Camp Property	1	LS	\$25,000.00	\$25,000.00
16	Mobilization, Bonds, & Insurance	1	LS	\$47,701.50	\$47,701.50
OFF-SITE WATER SUB-TOTAL:					\$967,301.50
ENGINEERING, SURVEYING, TESTING, AND STAKING @ 12%: (Engineering @ 8%, Surveying, Testing, and Staking @ 4%)					\$146,304.18
GRAND TOTAL:					\$1,113,605.68
CONTINGENCY:					\$136,550.57
REIMBURSEMENT DUE DEVELOPER:					\$1,250,156.25
LESS ACREAGE FEE CREDIT:					\$16,926.00
FINAL REIMBURSEMENT DUE DEVELOPER:					\$1,233,230.25
Notes					
1	Fee for easement through Camp property assumes compensation to land owner will be required.				



Urban Engineering
2725 Swantner
Corpus Christi, TX 78404
1-361-854-3101



City of Corpus Christi, Texas
 Department of Development Services
 P.O. Box 9277
 Corpus Christi, Texas 78469-9277
 (361) 826-3240
 Located at 2406 Leopard Street
 (Corner of Leopard St. and Port Ave.)

DISCLOSURE OF INTERESTS

City of Corpus Christi Ordinance 17112, as amended, requires all persons or firms seeking to do business with the City to provide the following information. Every question must be answered. If the question is not applicable, answer with "NA"

NAME: BRASELTON HOMES
 STREET: 5337 YORKTOWN CITY: Corpus Christi ZIP: 78413
 FIRM is: Corporation Partnership Sole Owner Association Other _____

DISCLOSURE QUESTIONS

If additional space is necessary, please use the reverse side of this page or attach separate sheet.

1. State the names of each "employee" of the City of Corpus Christi having an "ownership interest" constituting 3% or more of the ownership in the above named "firm".

Name	Job Title and City Department (if known)
_____	_____
_____	_____

2. State the names of each "official" of the City of Corpus Christi having an "ownership interest" constituting 3% or more of the ownership in the above named "firm".

Name	Title
_____	_____
_____	_____

3. State the names of each "board member" of the City of Corpus Christi having an "ownership interest" constituting 3% or more of the ownership in the above named "firm".

Name	Board, Commission, or Committee
<u>BART BRASELTON</u>	<u>TYPE A, TYPE B</u>
_____	_____

4. State the names of each employee or officer of a "consultant" for the City of Corpus Christi who worked on any matter related to the subject of this contract and has an "ownership interest" constituting 3% or more of the ownership in the above named "firm".

Name	Consultant
_____	_____
_____	_____

CERTIFICATE

I certify that all information provided is true and correct as of the date of this statement, that I have not knowingly withheld disclosure of any information requested; and that supplemental statements will be promptly submitted to the City of Corpus Christi, Texas as changes occur.

Certifying Person: Bart Braselton (Print) Title: EXEC VP

Signature of Certifying Person: [Signature] Date: 3/16/18

DEFINITIONS

- a. "Board Member". A member of any board, commission or committee appointed by the City Council of the City of Corpus Christi, Texas.
- b. "Employee". Any person employed by the City of Corpus Christi, Texas, either on a full or part time basis, but not as an independent contractor.
- c. "Firm". Any entity operated for economic gain, whether professional, industrial or commercial and whether established to produce or deal with a product or service, including but not limited to, entities operated in the form of sole proprietorship, as self-employed person, partnership, corporation, joint stock company, joint venture, receivership or trust and entities which, for purposes of taxation, are treated as non-profit organizations.
- d. "Official". The Mayor, members of the City Council, City Manager, Deputy City Manager, Assistant City Managers, Department and Division Heads and Municipal Court Judges of the City of Corpus Christi, Texas.
- e. "Ownership Interest". Legal or equitable interest, whether actually or constructively held, in a firm, including when such interest is held through an agent, trust, estate or holding entity. "Constructively held" refers to holding or control established through voting trusts, proxies or special terms of venture or partnership agreements.
- f. "Consultant". Any person or firm, such as engineers and architects, hired by the City of Corpus Christi for the purpose of professional consultation and recommendation.