

REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

On this 23rd day of August, 2016, Commissioners Court came on to be heard and reviewed the accompanying notice of Reliance Construction Services, L.P.

Job Location Several Streets in New Territory

Date 7/29/2016 Bond No. 929631062, Permit No. 2016-8843 to make use of certain Fort Bend County property subject to, "A Revised Order Regulating the Laying, Construction, Maintenance, and Repair of Buried Cables, Conduits, and Pole Lines, In, Under, Across or Along Roads, Streets, Highways, and Drainage Ditches in Fort Bend County, Texas, Under the Jurisdiction of the Commissioners Court of Fort Bend County, Texas," as passed by the Commissioners Court of Fort Bend County, Texas the 3rd day of August, 1987, recorded in Volume _____ of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistent with Article 1436a, Vernon's Texas Civil Statutes. Upon Motion of Commissioner _____, seconded by Commissioner _____,

duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

Notes:

1. Evidence of review by the Commissioners Court must be kept on the job site and failure to do so constitutes grounds for job shutdown.
2. Written notices are required:
 - a. 48 hours in advance of construction start up, and
 - b. when construction is completed and ready for final inspection

Mail notices to: Permit Administrator

Fort Bend County Engineering

301 Jackson Street

Richmond, Texas 77469

281-633-7500

3. This permit expires one (1) year from date of permit if construction has not commenced.

By:

for 
County Engineer

Presented to Commissioners Court and
approved.
Recorded in Volume _____

Minutes of Commissioners Court

By:

N/A

Drainage District Engineer/Manager

Clerk of Commissioners Court

By:

Deputy

Cunningham Creek Blvd. Reclaimed Effluent (Reused) Water Line in New Territory

For Fort Bend County LID No. 7

Sheet No.	Location /Street	From	Moving in Direction	To	Approximate Distance of
5	High Bank of Ellis Creek	700' West of H L & P Power Lines	Going East	H L & P Power lines	700'
6, 7	Hayden Creek Drive	Bay Hill Drive	Going South	Evandale Lane	650'
7	Evandale Lane	Hayden Creek Drive	Going East	1131 Evandale	400'
8	Presley Way	Casey Circle	Going North	Morrison Place	300'
12	Morrison Place	Cunningham Creek Blvd.	Going East	Presley Way	200'
13, 14	High Meadow Drive	Harwood Street	Going North-East	Past North New Meadow	1800'
15, 16	High Plains Drive	High Meadow Drive	Going East	Darby Trails Drive	2000'
17, 18	Sand Hill Drive	Darby Trails Drive	Going East	Williamslanding	1600'
19, 20	H L & P Easement	Bank of Ellis Creek	Going North	Cunningham Creek Blvd.	1600'
20 thru. 25	Cunningham Creek Blvd.	H L & P Easement	Going North & East	High Meadows Drive	4500'
25	Bayhill Drive	Hayden Drive	Going North & West	100' West of Hayden Drive	100'
26	Williams Landing Dr.	Cedaredge Court	Going South	Santa Chase Lane	900'
27	Jaymar Drive	Sand Hill Dr.	Going South & East	200' Past Darby Trails Dr.	700'

**PERFORMANCE BOND COVERING ALL CABLE, CONDUIT AND/OR POLE LINE
ACTIVITY IN, UNDER, ACROSS OR ALONG FORT BEND COUNTY ROAD**

AUTHORIZED

BOND NO. 929631062

THE STATE OF TEXAS

§

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF FORT BEND

§

THAT WE, Reliance Construction Services, L.P. whose address is 4302 Alameda Genoa Road, Houston, TX 77048 Texas, hereinafter called the Principal, And Continental Casualty Company, a Corporation existing under and by virtue of the laws of the state of Illinois and authorized to do an indemnifying business in the state of Texas, and whose principal office is located at One Towne Square, Suite 1075, Southfield, MI 48076-3732, whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought whining said state is John G Sutter and Whose address is CoVerica, 5999 Summerside Dr, Suite 200, Dallas, TX 75252, hereinafter called the Surety, and held and firmly bound unto Robert e. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, in the full sum of One Hundred Seventy Two Thousand and No/100 Dollars (\$ 172,000.00) current, lawful money of the United States of America, to be paid to said Robert E. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, to which payment well and truly to be made and done, we, the undersigned, bind ourselves and each of us, our heirs, executors, administrators, successors, assigns, and legal representatives, jointly and severally, by these presents.

THE CONDITION OF THIS BOND IS SUCH THAT, WHEREAS, the above bounden principal contemplates laying, constructing, maintaining and/or repairing one or more cables, conduits, and/or pole lines in, under, across and/or along roads, streets and highways, commercial driveway and median openings or modifications in the County of Fort Bend, and the State of Texas, under the jurisdiction of the Commissioners' Court of Fort Bend County, Texas, pursuant to the Commissioners' Court order adopted on the 1st day of December, A.D. 1980, recorded in Volume 13, of the Commissioners' Court Minutes of Fort Bend County, Texas, regulating same, which Commissioners' Court order is hereby referred to and made a part hereof for all purposes as though fully set out herein;

AND WHEREAS, the principal desires to provide Fort Bend County with a performance bond covering all such cable, conduit and/or pole line activity, commercial driveway and median openings or modifications;

NOW, THEREFORE, if the above bounden principal shall faithfully perform all its cable, conduit and/or pole line activity (including, but not limited to the laying, construction, maintenance and/or repair of cables, conduits and/or pole lines) in, under, across and/or along roads, streets and highways, commercial driveway and median openings or modifications in the County of Fort Bend and State of Texas, under the jurisdiction of the Commissioners Court of Fort Bend County, Texas, pursuant to and in accordance with minimum requirements and conditions of the above mentioned Commissioners' Court order set forth and specified to be by said principal done and performed, at the time and in the manner therein specified, and shall pay over and make good and reimburse Fort Bend County, all loss and damages which Fort Bend County may sustain by reason of any failure or default on the part of said principal, then this obligation shall be null and void, otherwise to remain in full force and effect.

This bond is payable at the County Courthouse in the County of Fort Bend and State of Texas.

It is understood that at any time Fort Bend County deems itself insecure under this bond, it may require further and/or additional bonds of the principal.

EXECUTED this 29 day of July, 2016.

Reliance Construction Services, L.P.

PRINCIPAL

H. S. Sidhu
BY H. S. SIDHU, PRESIDENT OF H.S. SIDHU LLC
Continental Casualty Company GENERAL PARTNER

SURETY

John L. Budde
BY John L. Budde, Attorney-in-Fact

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That Continental Casualty Company, an Illinois insurance company, National Fire Insurance Company of Hartford, an Illinois insurance company, and American Casualty Company of Reading, Pennsylvania, a Pennsylvania insurance company (herein called "the CNA Companies"), are duly organized and existing insurance companies having their principal offices in the City of Chicago, and State of Illinois, and that they do by virtue of the signatures and seals herein affixed hereby make, constitute and appoint

T J Griffin, William A Pirret, Steven K Brandon, John L Budde, Susan L Small, Terence J Griffin, Individually

of Farmington Hills, MI, their true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on their behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind them thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of their insurance companies and all the acts of said Attorney, pursuant to the authority hereby given is hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law and Resolutions, printed on the reverse hereof, duly adopted, as indicated, by the Boards of Directors of the insurance companies.

In Witness Whereof, the CNA Companies have caused these presents to be signed by their Vice President and their corporate seals to be hereto affixed on this 1st day of July, 2015.



Continental Casualty Company
National Fire Insurance Company of Hartford
American Casualty Company of Reading, Pennsylvania
Paul T. Bruflat
Paul T. Bruflat Vice President

State of South Dakota, County of Minnehaha, ss:

On this 1st day of July, 2015, before me personally came Paul T. Bruflat to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is a Vice President of Continental Casualty Company, an Illinois insurance company, National Fire Insurance Company of Hartford, an Illinois insurance company, and American Casualty Company of Reading, Pennsylvania, a Pennsylvania insurance company described in and which executed the above instrument; that he knows the seals of said insurance companies; that the seals affixed to the said instrument are such corporate seals; that they were so affixed pursuant to authority given by the Boards of Directors of said insurance companies and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said insurance companies.



My Commission Expires February 12, 2021

S. Eich
S. Eich Notary Public

CERTIFICATE

I, D. Bult, Assistant Secretary of Continental Casualty Company, an Illinois insurance company, National Fire Insurance Company of Hartford, an Illinois insurance company, and American Casualty Company of Reading, Pennsylvania, a Pennsylvania insurance company do hereby certify that the Power of Attorney herein above set forth is still in force, and further certify that the By-Law and Resolution of the Board of Directors of the insurance companies printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said insurance companies this 29th day of July, 2016.



Continental Casualty Company
National Fire Insurance Company of Hartford
American Casualty Company of Reading, Pennsylvania
D. Bult
D. Bult Assistant Secretary

Authorizing By-Laws and Resolutions

ADOPTED BY THE BOARD OF DIRECTORS OF CONTINENTAL CASUALTY COMPANY:

This Power of Attorney is made and executed pursuant to and by authority of the following resolution duly adopted by the Board of Directors of the Company at a meeting held on May 12, 1995:

“RESOLVED: That any Senior or Group Vice President may authorize an officer to sign specific documents, agreements and instruments on behalf of the Company provided that the name of such authorized officer and a description of the documents, agreements or instruments that such officer may sign will be provided in writing by the Senior or Group Vice President to the Secretary of the Company prior to such execution becoming effective.”

This Power of Attorney is signed by Paul T. Bruflat, Vice President, who has been authorized pursuant to the above resolution to execute power of attorneys on behalf of Continental Casualty Company.

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company by unanimous written consent dated the 25th day of April, 2012:

“Whereas, the bylaws of the Company or specific resolution of the Board of Directors has authorized various officers (the “Authorized Officers”) to execute various policies, bonds, undertakings and other obligatory instruments of like nature; and

Whereas, from time to time, the signature of the Authorized Officers, in addition to being provided in original, hard copy format, may be provided via facsimile or otherwise in an electronic format (collectively, “Electronic Signatures”); Now therefore be it resolved: that the Electronic Signature of any Authorized Officer shall be valid and binding on the Company.”

ADOPTED BY THE BOARD OF DIRECTORS OF NATIONAL FIRE INSURANCE COMPANY OF HARTFORD:

This Power of Attorney is made and executed pursuant to and by authority of the following resolution duly adopted by the Board of Directors of the Company by unanimous written consent dated May 10, 1995:

“RESOLVED: That any Senior or Group Vice President may authorize an officer to sign specific documents, agreements and instruments on behalf of the Company provided that the name of such authorized officer and a description of the documents, agreements or instruments that such officer may sign will be provided in writing by the Senior or Group Vice President to the Secretary of the Company prior to such execution becoming effective.”

This Power of Attorney is signed by Paul T. Bruflat, Vice President, who has been authorized pursuant to the above resolution to execute power of attorneys on behalf of National fire Insurance Company of Hartford.

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company by unanimous written consent dated the 25th day of April, 2012:

“Whereas, the bylaws of the Company or specific resolution of the Board of Directors has authorized various officers (the “Authorized Officers”) to execute various policies, bonds, undertakings and other obligatory instruments of like nature; and

Whereas, from time to time, the signature of the Authorized Officers, in addition to being provided in original, hard copy format, may be provided via facsimile or otherwise in an electronic format (collectively, “Electronic Signatures”); Now therefore be it resolved: that the Electronic Signature of any Authorized Officer shall be valid and binding on the Company.”

ADOPTED BY THE BOARD OF DIRECTORS OF AMERICAN CASUALTY COMPANY OF READING, PENNSYLVANIA:

This Power of Attorney is made and executed pursuant to and by authority of the following resolution duly adopted by the Board of Directors of the Company by unanimous written consent dated May 10, 1995:

“RESOLVED: That any Senior or Group Vice President may authorize an officer to sign specific documents, agreements and instruments on behalf of the Company provided that the name of such authorized officer and a description of the documents, agreements or instruments that such officer may sign will be provided in writing by the Senior or Group Vice President to the Secretary of the Company prior to such execution becoming effective.”

This Power of Attorney is signed by Paul T. Bruflat, Vice President, who has been authorized pursuant to the above resolution to execute power of attorneys on behalf of American Casualty Company of Reading, Pennsylvania.

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company by unanimous written consent dated the 25th day of April, 2012:

“Whereas, the bylaws of the Company or specific resolution of the Board of Directors has authorized various officers (the “Authorized Officers”) to execute various policies, bonds, undertakings and other obligatory instruments of like nature; and

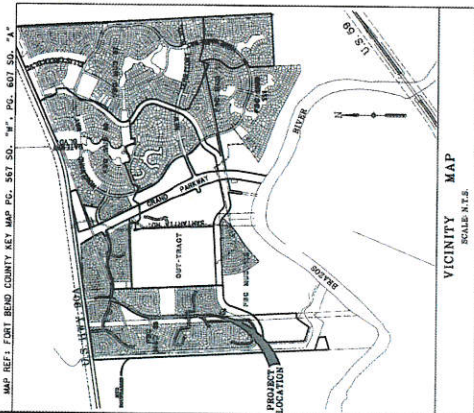
Whereas, from time to time, the signature of the Authorized Officers, in addition to being provided in original, hard copy format, may be provided via facsimile or otherwise in an electronic format (collectively, “Electronic Signatures”); Now therefore be it resolved: that the Electronic Signature of any Authorized Officer shall be valid and binding on the Company.”

CONSTRUCTION PLANS FOR CUNNINGHAM CREEK BLVD. (RECLAIMED EFFLUENT) RE-USED WATER LINE

NEW TERRITORY LOCATED IN FORT BEND COUNTY LID 7 FORT BEND COUNTY, TEXAS

INDEX OF DRAWINGS
SHEET NO. DESCRIPTION

1.	COVER SHEET
2.	CONSTRUCTION NOTES
3.	LAYOUT SHEETS
4.	OVERALL LAYOUT
5.	RE-USED WATER LINE LAYOUT
6.	PLAN AND PROFILE SHEETS
7.	BLISS CREEK - STA. 0+00.00 TO 17+00.00
8.	HAYDEN CREEK DR. & EVANSDALE LAKE - STA. 1+00.00 TO 9+00.00
9.	EVANSDALE LAKE - STA. 9+00.00 TO 11+00.00 AND RE-USED WATER LINE "A"
10.	CASSETT WAY - STA. 9+00.00 TO 13+00.00 AND RE-USED WATER LINE "B"
11.	RE-USED WATER LINE "C" - STA. 13+00.00 TO 14+00.00 AND FAIRPARK LAKE
12.	HENLEY COURT AND TYLER RUN
13.	ANNIE'S WAY - 1+00.00 TO 10+00.00
14.	ANNIE'S WAY - 10+00.00 TO 10+00.00 AND MORRISON PLACE
15.	HIGH PLAINS DR. - STA. 0+00.00 TO 18+00.00
16.	HIGH PLAINS DR. - STA. 18+00.00 TO 20+00.00
17.	HIGH MEADOWS DR. - STA. 11+00.00 TO 20+00.00
18.	SANDHILL DR. - STA. 0+00.00 TO 42+00.00
19.	RE-USED WATER LINE "C" - STA. 4+00.00 TO 14+00.00
20.	RE-USED WATER LINE "C" - STA. 14+00.00 TO 20+00.00 AND
21.	CUNNINGHAM CREEK BLVD. - STA. 14+00.00 TO 14+00.00
22.	CUNNINGHAM CREEK BLVD. - STA. 14+00.00 TO 24+00.00
23.	CUNNINGHAM CREEK BLVD. - STA. 24+00.00 TO 34+00.00
24.	CUNNINGHAM CREEK BLVD. - STA. 34+00.00 TO 44+00.00
25.	RE-USED WATER LINE "D" AND BAYHILL DRIVE
26.	WILLIAMS LANDING DR. - STA. 2+00.00 TO 12+00.00
27.	ATYRAK DRIVE - STA. 1+00.00 TO 8+00.00
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30.	MISCELLANEOUS DETAILS
31.	WORK ZONE "GIVE US A BRAKE" SIGNS WZBRK-10
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35.	CONSTRUCTION NOTES III (S1-03)
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38.	CONSTRUCTION NOTES VI (S1-06)
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67.	CONSTRUCTION NOTES XXXV (S1-35)
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70.	CONSTRUCTION NOTES XXXVIII (S1-38)
71.	CONSTRUCTION NOTES XXXIX (S1-39)
72.	CONSTRUCTION NOTES XL (S1-40)
73.	CONSTRUCTION NOTES XLI (S1-41)
74.	CONSTRUCTION NOTES XLII (S1-42)
75.	CONSTRUCTION NOTES XLIII (S1-43)
76.	CONSTRUCTION NOTES XLIV (S1-44)
77.	CONSTRUCTION NOTES XLV (S1-45)
78.	CONSTRUCTION NOTES XLVI (S1-46)
79.	CONSTRUCTION NOTES XLVII (S1-47)
80.	CONSTRUCTION NOTES XLVIII (S1-48)
81.	CONSTRUCTION NOTES XLIX (S1-49)
82.	CONSTRUCTION NOTES L (S1-50)



FORT BEND COUNTY
 ENGINEER: *[Signature]*
 DATE: 6/24/16
 THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT
 COMMENCED IN ONE (1) YEAR FROM DATE OF APPROVAL.
 APPROVED: *[Signature]*
 DEVELOPMENT COORDINATOR
 DATE: 6/25/16

CITY OF FORT BEND COUNTY
 APPROVED: *[Signature]*
 DATE: 06/02/16



Engineering and Surveying
 9660 Rice Blvd., Suite 450
 Houston, Texas 77042
 (713) 782-7788 (713) 782-3580, Fax
 TEXAS PE BOARD FIRM
 REGISTRATION NO. 200
 DATE: APRIL 2016



JOB NO. 100260-148

Contract Address:
 CITY OF SUGAR LAND - ENGINEERING DEPT.
 FAC. BLDG. NO. 68 & 112 - OPERATOR - SI ENVIRONMENTAL
 FAC. BLDG. NO. 68 & 112 - ENGINEER - COSTELLO, Inc.
 FORT BEND COUNTY (DRAINAGE DISTRICT)

281-275-2788
 832-439-8114
 713-782-7788
 281-342-2663

PORT BEND COUNTY LID 3

FOR THE RECORD, THE DESIGNER HAS REVIEWED THE RECORD DRAWINGS FOR THE PROJECT AND HAS FOUND NO CONFLICTS WITH THE RECORD DRAWINGS. THE DESIGNER HAS REVIEWED THE RECORD DRAWINGS FOR THE PROJECT AND HAS FOUND NO CONFLICTS WITH THE RECORD DRAWINGS. THE DESIGNER HAS REVIEWED THE RECORD DRAWINGS FOR THE PROJECT AND HAS FOUND NO CONFLICTS WITH THE RECORD DRAWINGS.



Know what's below.
Call before you dig



- LEGEND**
- PROP. RE-USED WATER LINE
 - PROP. RE-USED WATER LINE (BY OTHERS)
 - EXISTING RE-USED WATER LINE (BY OTHERS)

APPROVED BY: [Signature]
DATE: 11/15/16

APPROVED BY: [Signature]
DATE: 11/15/16

SHEET 3
OF 42 SHEETS
JOB NO. 1499000-148



NEW TERRITORY BLVD.
CUNNINGHAM BLVD.
(RECLAIMED EFFLUENT RE-USED WATER LINE)

OVERALL LAYOUT

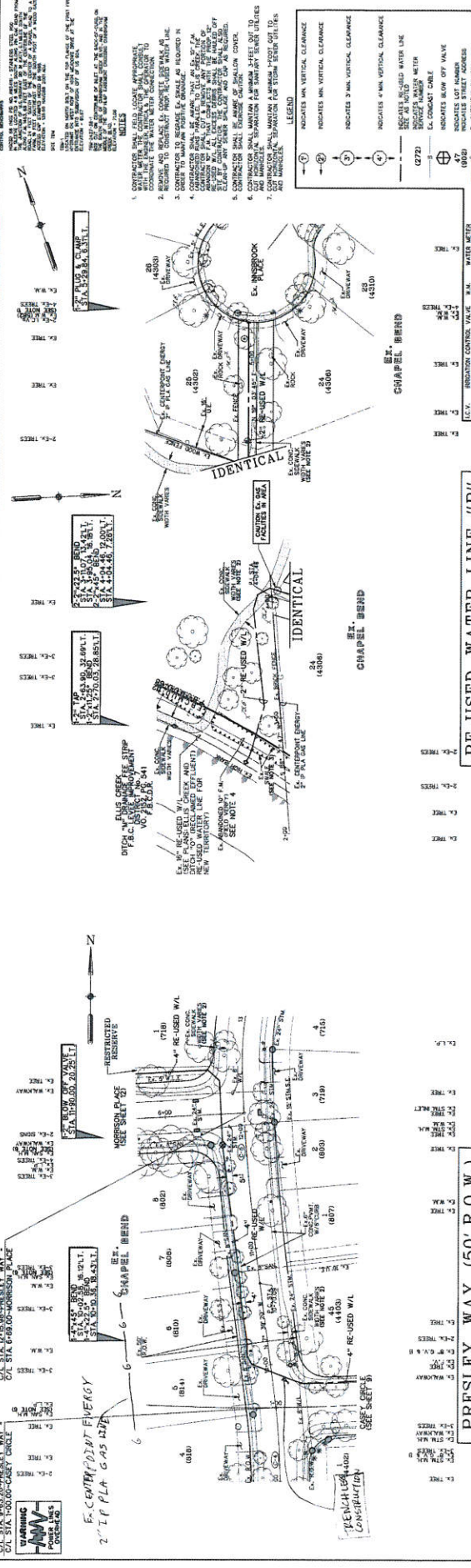
Engineering and Surveying
6980 Richmond Avenue, Suite 450 N
Houston, Texas 77042
(713) 785-7788 (713) 785-3500 Fax
TSPS FIRM REG. No. 280
TSPS FIRM REG. No. 100466



DESIGNED BY: P.L.A.
CHECKED BY: [Signature]
DRAWN BY: [Signature]
SURVEY CHECKED BY: [Signature]
QA/QC BY: [Signature] DATE: 5/16/16
QA/QC REVISIONS BY: [Signature]

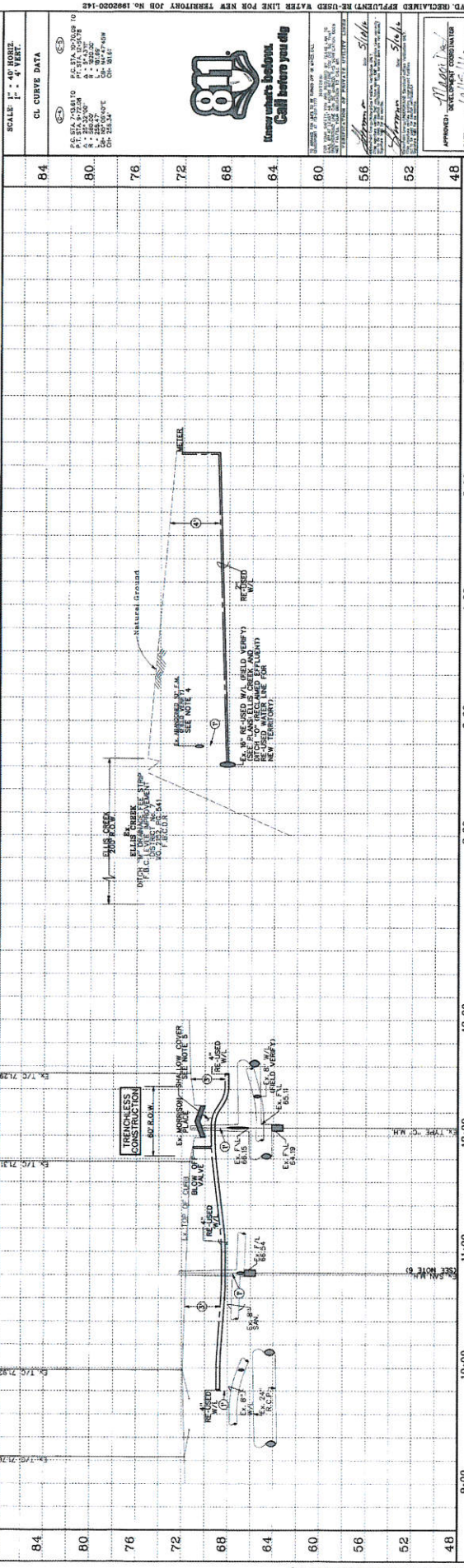
NO.	REVISION	DATE	BY





RE-USED WATER LINE "B"

CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION



SCALE: 1" = 40' HORIZ.
1" = 4' VERT.

CL CURVE DATA

- ① 1" = 40' HORIZ. TO 1" = 4' VERT.
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APPROVED: *[Signature]*
DATE: 10/15/11

DESIGNED BY: *[Signature]*
CHECKED BY: *[Signature]*
DATE: 10/15/11

REVISIONS

NO.	REVISION	DATE	BY

NEW TERRITORY BLVD.
CUNNINGHAM CREEK BLVD.
RECLAIMED EFFLUENT RE-USED WATER LINE
PLAN AND PROFILE
PRESLEY WAY 9+00.00 TO 13+00.00
AND RE-USED WATER LINE "B"

Engineering and Surveying
9980 Richmond Avenue, Suite 450 N
Houston, Texas 77042
(713) 783-7788 (713) 783-3886 Fax
TBE FIRM REG. No. 280
TBE FIRM REG. No. 105486

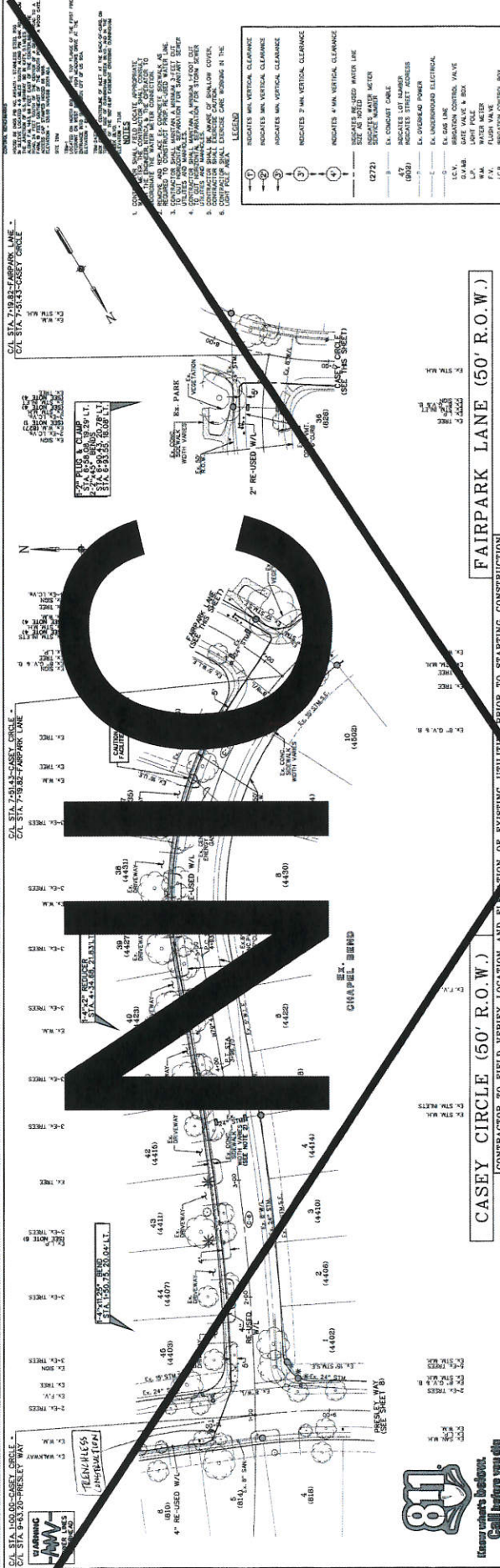


DESIGNED BY: *[Signature]*
CHECKED BY: *[Signature]*
DATE: 10/15/11

REVISIONS

NO.	REVISION	DATE	BY

8 SHEETS
OF 42 SHEETS
JOB NO. 1009850-148
DATE: 10/15/11



STATION	REVISION	DATE	BY
84			
80			
76			
72			
68			
64			
60			
56			
52			
48			

CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION

CASEY CIRCLE (50' R.O.W.)

FAIRPARK LANE (50' R.O.W.)

SCALE: 1" = 40' HORIZ. 1" = 4' VERT.

CL CURVE DATA

84	PC STA 140.00 TO PG STA 143.77 TO
80	PI STA 146.87 TO PG STA 150.00
76	PT STA 150.00 TO PG STA 153.77 TO
72	PC STA 241.42 TO PG STA 245.19 TO
68	PI STA 248.34 TO PG STA 254.47
64	PT STA 254.47 TO PG STA 258.24 TO
60	PC STA 7+19.82 TO PG STA 7+23.59 TO
56	PI STA 7+26.74 TO PG STA 7+32.87
52	PT STA 7+32.87 TO PG STA 7+36.64 TO
48	PC STA 7+38.00 TO PG STA 7+41.77 TO

APPROVED: DEVELOPMENT COORDINATOR

DESIGNED BY: JLV

DRAWN BY: JLV

CHECKED BY: JLV

DATE: 5-6-11

QA/QC REVISIONS BY: JLV

811

Costello

Engineering and Surveying
8860 Richmond Avenue, Suite 460 N
Houston, Texas 77042
(713) 783-7788 (713) 783-3560 Fax
TBPES FIRM REG. NO. 286
TBPES FIRM REG. NO. 100886

**NEW TELEGRAPH CREEK BLVD
(RECLAIMED EFFLUENT) RE-USED WATER LINE
PLAN AND PROFILE
CASEY CIRCLE
STA. 1+00.00 TO STA. 8+00.00
AND FAIRPARK LANE**

SHEET 9

OF 42 SHEETS

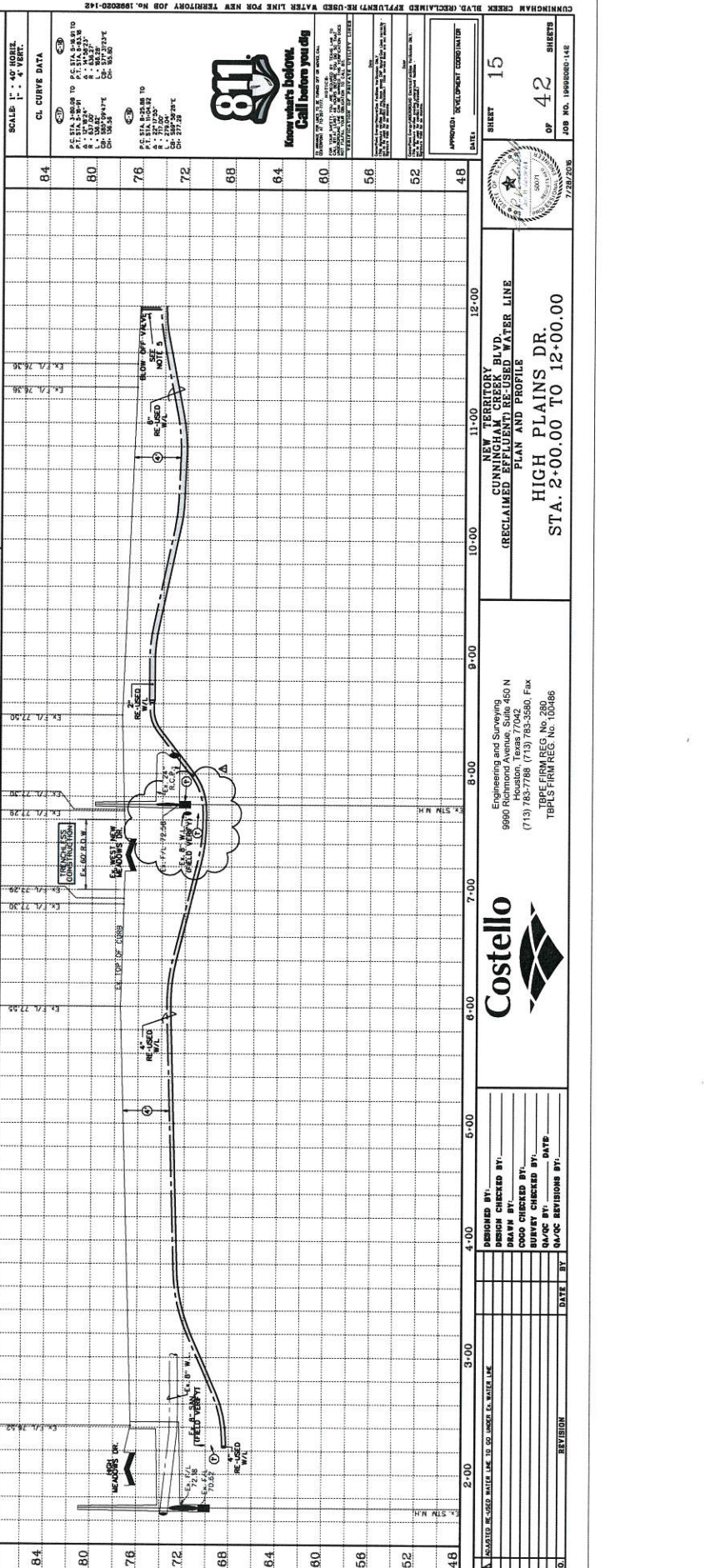
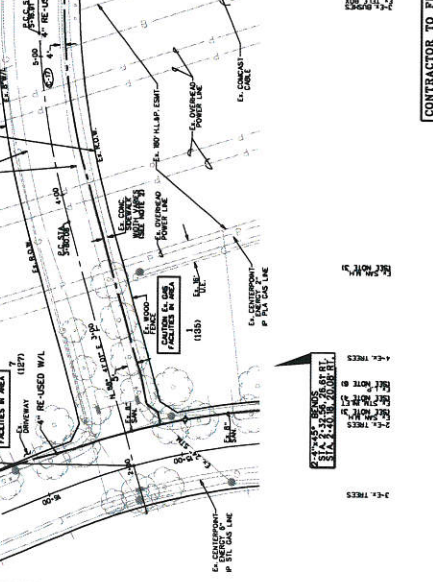
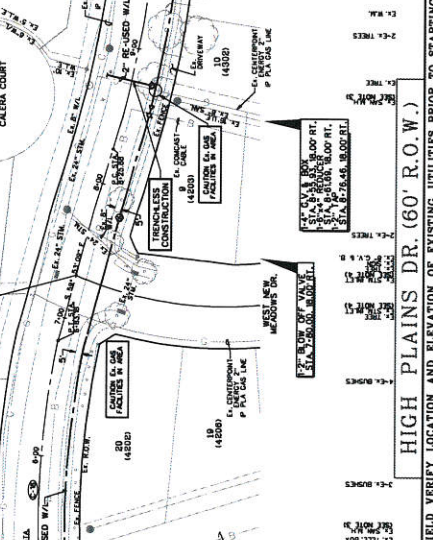
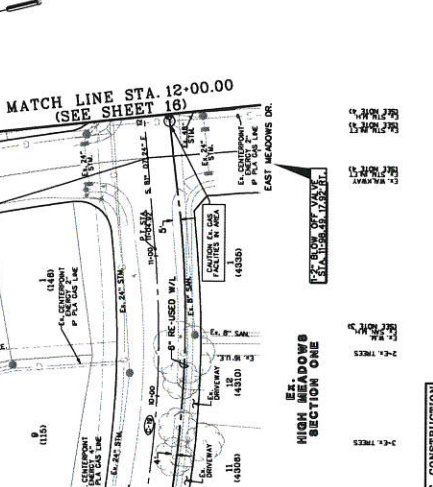
JOB NO. 10088800-142

5/12/2006

WARNING
 HIGH VOLTAGE
 POWER LINES
 OVERHEAD

CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.

- LEGEND**
- ① INDICATES MIN. VERTICAL CLEARANCE
 - ② INDICATES MAX. VERTICAL CLEARANCE
 - ③ INDICATES RE-USED WATER LINE
 - ④ INDICATES RE-USED WASTE LINE
 - ⑤ INDICATES RE-USED WATER METER
 - ⑥ INDICATES SERVICE METER
 - ⑦ INDICATES CONDUIT
 - ⑧ INDICATES CONDUIT WITH VALVE
 - ⑨ INDICATES CONDUIT WITH ADDRESS
 - ⑩ INDICATES CONDUIT WITH ADDRESS AND VALVE
 - ⑪ INDICATES CONDUIT WITH ADDRESS AND VALVE AND METER
 - ⑫ INDICATES CONDUIT WITH ADDRESS AND VALVE AND METER AND WATER METER
 - ⑬ INDICATES CONDUIT WITH ADDRESS AND VALVE AND METER AND WATER METER AND FLOOD VALVE
 - ⑭ INDICATES CONDUIT WITH ADDRESS AND VALVE AND METER AND WATER METER AND FLOOD VALVE AND CONTROL VALVE
 - ⑮ INDICATES CONDUIT WITH ADDRESS AND VALVE AND METER AND WATER METER AND FLOOD VALVE AND CONTROL VALVE AND METER



SCALE: 1" = 40' HORIZ.
 1" = 4' VERT.

CL CURVE DATA

APPROVED: DEVELOPMENT COORDINATOR

DATE: _____

DESIGNED BY: _____
 DESIGN CHECKED BY: _____
 DDDO CHECKED BY: _____
 SURVEY CHECKED BY: _____
 SA/QC BY: _____ DATE: _____
 SA/QC REVISIONS BY: _____ DATE: _____

NO. _____

REVISION _____

DATE _____

WARNING
 POWER LINES
 OVERHEAD

CONTRACTOR SHALL LOCATE APPROPRIATE UTILITIES PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES.

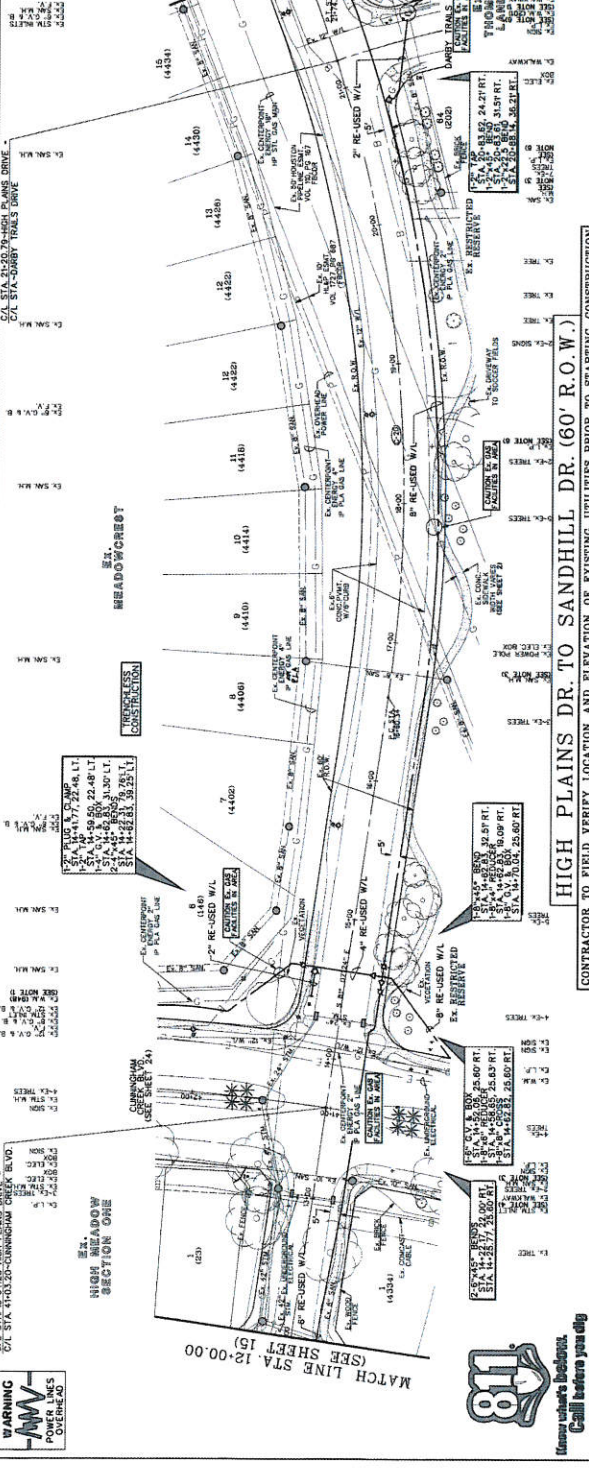
- CONTRACTOR SHALL LOCATE APPROPRIATE UTILITIES PRIOR TO STARTING CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES.

LEGEND

- INDICATES MIN. VERTICAL CLEARANCE
- INDICATES MAX. VERTICAL CLEARANCE
- INDICATES RE-USED WATER LINE
- INDICATES EXISTING WATER METER
- INDICATES EXISTING STREET ADDRESS
- INDICATES LOT NUMBER
- INDICATES OVERHEAD POWER
- INDICATES OVERHEAD ELECTRICAL
- INDICATES OVERHEAD TELEPHONE
- INDICATES OVERHEAD CABLE
- INDICATES OVERHEAD VALVE
- INDICATES OVERHEAD BOX
- INDICATES OVERHEAD ELECTRICAL
- INDICATES OVERHEAD TELEPHONE
- INDICATES OVERHEAD CABLE
- INDICATES OVERHEAD VALVE
- INDICATES OVERHEAD BOX

**MATCH LINE STA. 22-00.00
(SEE SHEET 17)**

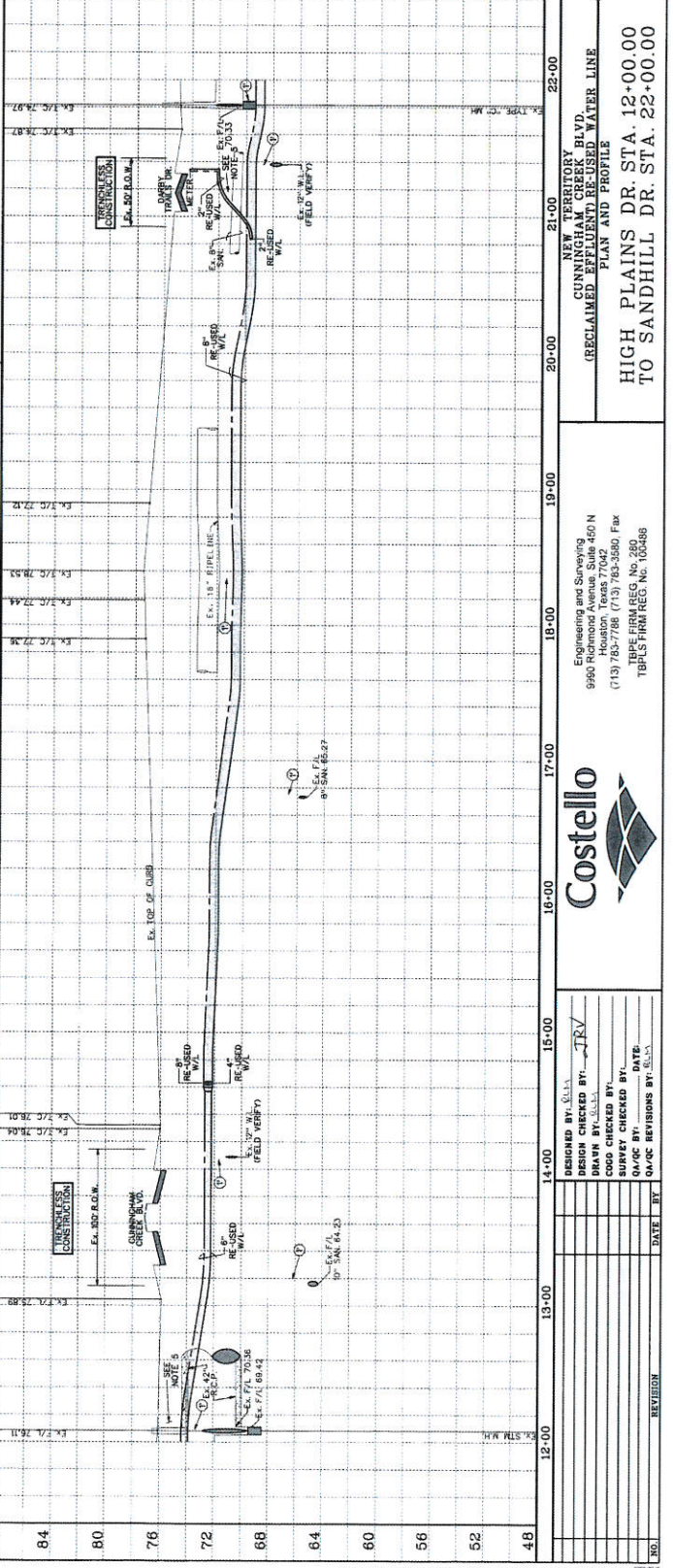
**MATCH LINE STA. 12-00.00
(SEE SHEET 15)**



CL. CURVE DATA

84
80
76
72
68
64
60
56
52
48

SCALE: 1" = 40' HORIZ.
 1" = 4' VERT.



APPROVED: [Signature]

DATE: 5/19/2016

PROJECT NO.: 199200-142

SHEET NO.: 42

TOTAL SHEETS: 42

JOB NO.: 199200-142

**NEW TERRITORY BLVD
 CUNNINGHAM CREEK LID
 (RECLAIMED EFFLUENT RE-USED WATER LINE)
 PLAN AND PROFILE**

**HIGH PLAINS DR. STA. 12-00.00
 TO SANDHILL DR. STA. 22-00.00**

Costello

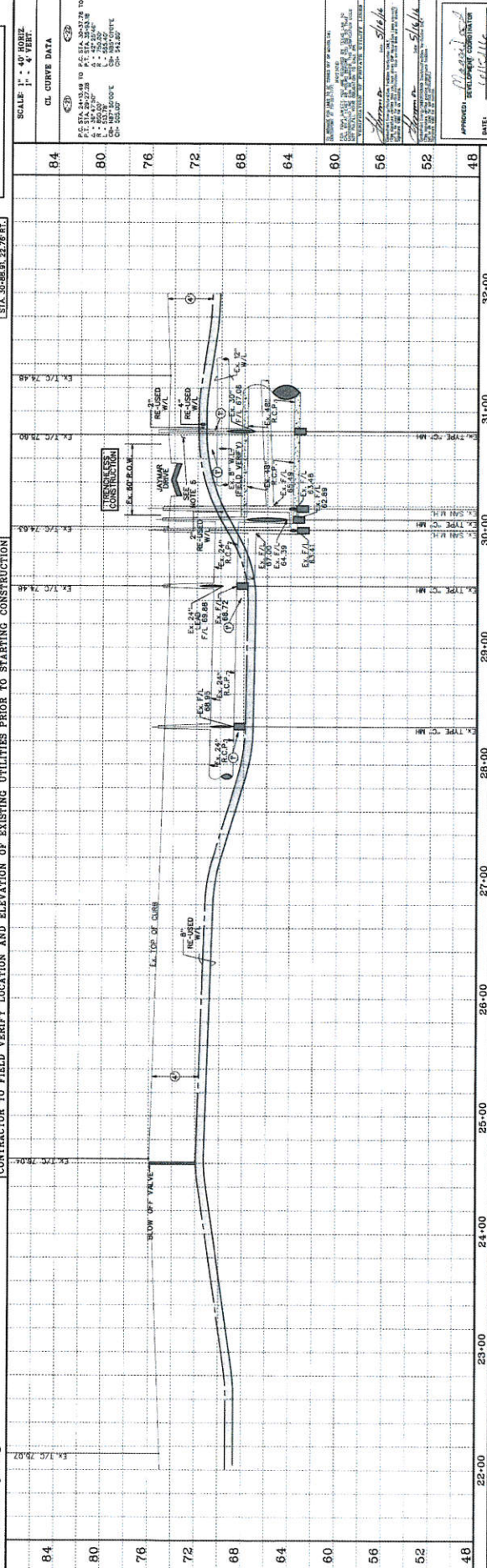
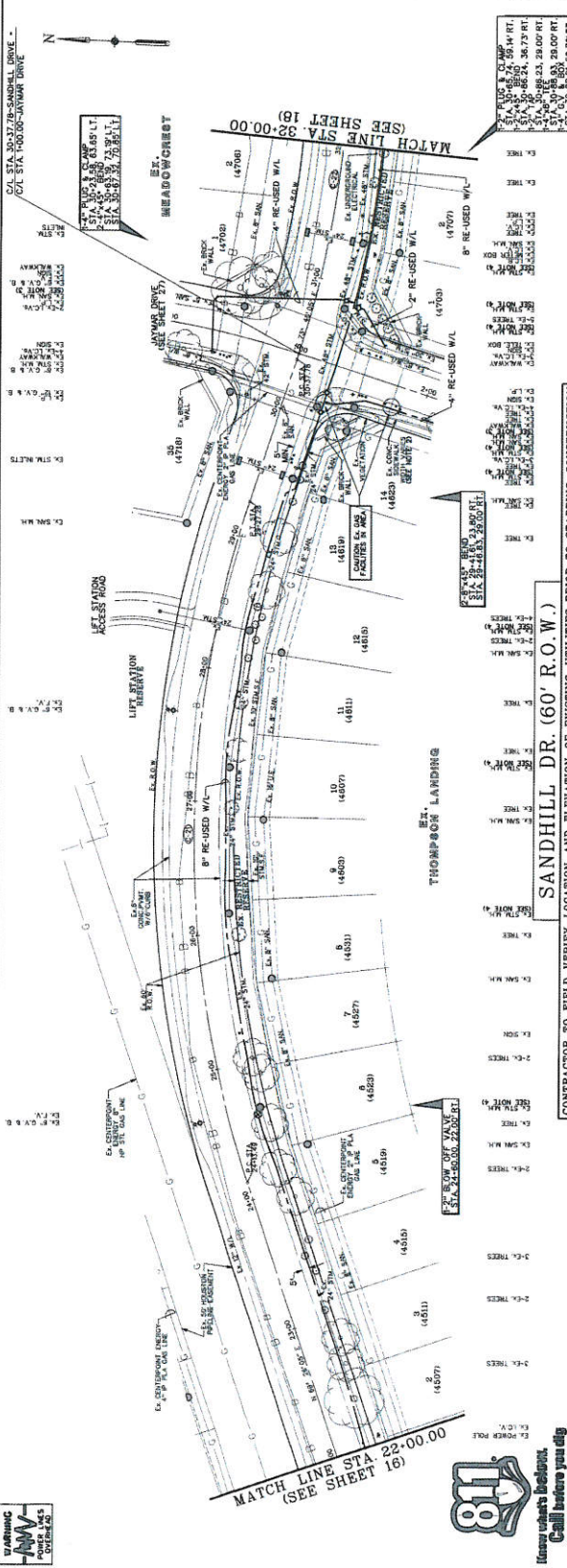
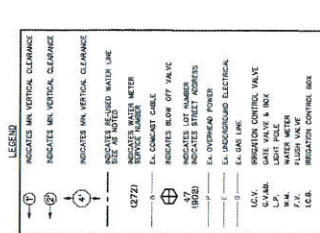
Engineering and Surveying
 9990 Richmond Avenue, Suite 460 N
 Houston, Texas 77042
 (713) 785-7788 (713) 785-3580 Fax
 TBP# FIRM REG. NO. 280
 TBP#S FIRM REG. NO. 105486

NO.	REVISION	DATE	BY

DESIGNED BY: [Signature]
 DESIGN CHECKED BY: [Signature]
 DRAWN BY: [Signature]
 SURVEY CHECKED BY: [Signature]
 O&AC BY: [Signature]
 O&AC REVISIONS BY: [Signature]

NOTES:
 1. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
 2. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
 3. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
 4. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
 5. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.

- LEGEND:**
 (1) INDICATES MIN. VERTICAL CLEARANCE
 (2) INDICATES MIN. VERTICAL CLEARANCE
 (3) INDICATES MIN. VERTICAL CLEARANCE
 (4) INDICATES MIN. VERTICAL CLEARANCE
 (5) INDICATES MIN. VERTICAL CLEARANCE
 (6) INDICATES MIN. VERTICAL CLEARANCE
 (7) INDICATES MIN. VERTICAL CLEARANCE
 (8) INDICATES MIN. VERTICAL CLEARANCE
 (9) INDICATES MIN. VERTICAL CLEARANCE
 (10) INDICATES MIN. VERTICAL CLEARANCE



CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION

SANDHILL DR. (60' R.O.W.)

NEW TERRITORY BLVD. (RECLAIMED RIGHT-OF-WAY) WATER LINE PLAN AND PROFILE

SANDHILL DRIVE STA. 22+00.00 TO 32+00.00

Costello

Engineering and Surveying
 9900 West Loop South, Suite 400 N
 Houston, Texas 77042
 (713) 783-7786 (713) 783-3580 Fax
 TBPES FIRM REG. NO. 280
 TBPES FIRM REG. NO. 100348

DESIGNED BY: JKV
 DESIGN CHECKED BY: JKV
 DRAWN BY: JKV
 CADD CHECKED BY: JKV
 DATE CHECKED BY: DATE
 QA/QC REVISIONS BY: DATE

DATE BY

REVISION

SCALE: 1" = 40' HORIZ
 1" = 4' VERT

CL. CURVE DATA

APPROVED: [Signature] SUPERVISOR
 DATE: [Signature] DATE

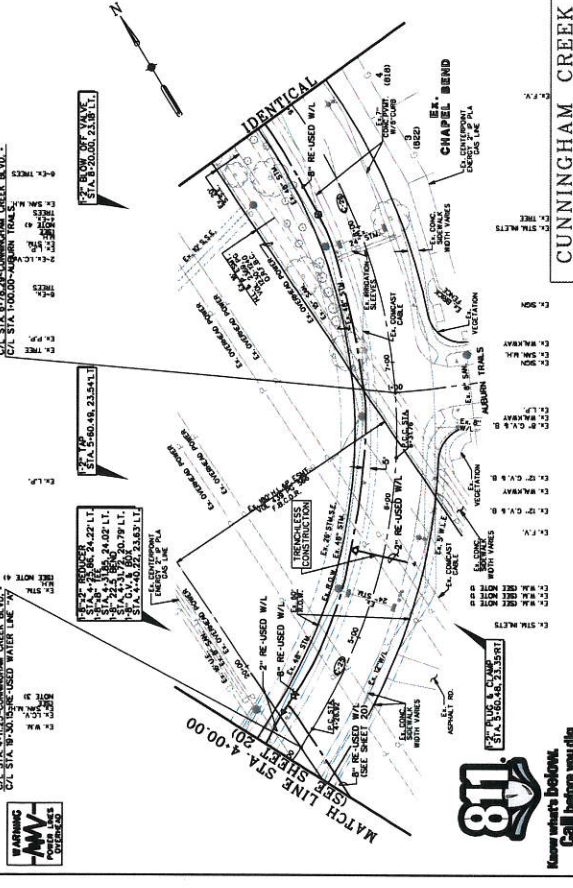
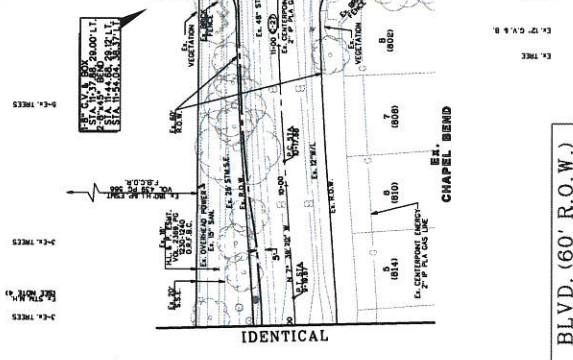
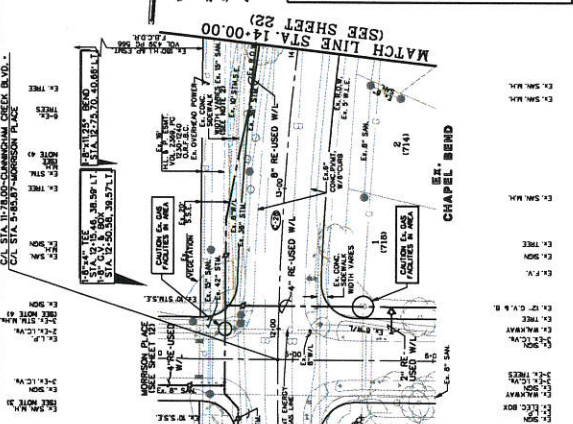
SHEET 17 OF 42 SHEETS
 JOB NO. 18090800-148
 5/18/2008

WARNING
ANY
POWER LINES
OR
CONDUITS

CONTRACTOR SHALL FIELD LOCATE APPROXIMATELY ALL UTILITIES AND CONDUITS WITHIN THE PROJECT AREA PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND RECORDS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL MAINTAIN ADEQUATE RECORDS OF ALL UTILITIES AND CONDUITS LOCATED AND SHALL BE RESPONSIBLE FOR MARKING AND PROTECTING ALL UTILITIES AND CONDUITS THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND RECORDS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL MAINTAIN ADEQUATE RECORDS OF ALL UTILITIES AND CONDUITS LOCATED AND SHALL BE RESPONSIBLE FOR MARKING AND PROTECTING ALL UTILITIES AND CONDUITS THROUGHOUT THE PROJECT.

LEGEND

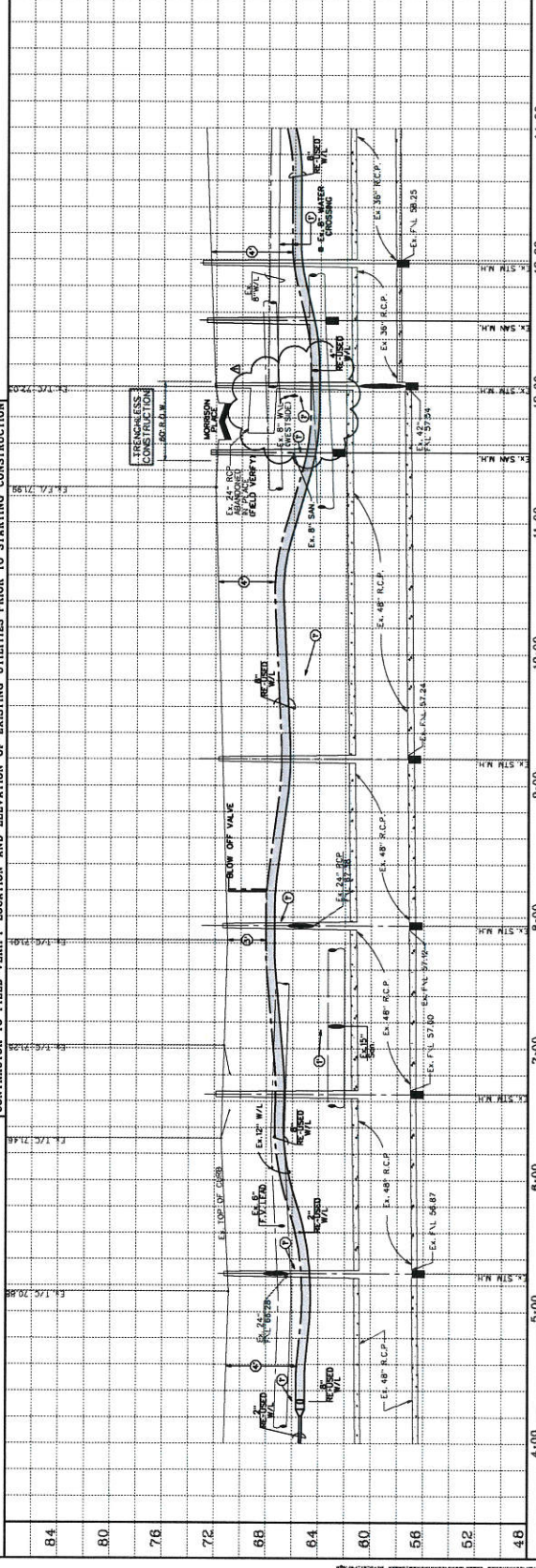
- INDICATES MIN. VERTICAL CLEARANCE
- INDICATES MIN. VERTICAL CLEARANCE
- INDICATES RE-USED WATER LINE
- SIZE AS NOTED
- REGULATED WATER METER
- CONDUIT DATE
- INDICATES LOT NUMBER
- INDICATES STREET ADDRESS
- OVERHEAD POWER
- CONDUIT
- WATER CONTROL VALVE
- LIGHT POLE
- WATER METER
- REGULATED WATER METER
- REGULATOR CONTROL BOX



SCALE: 1" = 40' HORIZ.
 1" = 4' VERT.

CL. CURVE DATA

8.4	8.0	7.6	7.2	6.8	6.4	6.0	5.6	5.2	4.8
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



DESIGNED BY: _____ DATE: _____

CHECKED BY: _____ DATE: _____

APPROVED DEVELOPMENT COORDINATOR: _____

SHEET 21 OF 42 SHEETS

JOB NO. 1998080-14E

Costello

Engineering and Surveying
 9980 Richmond Avenue, Suite 450 N
 Houston, Texas 77042
 (713) 785-7788 (713) 785-3560 Fax
 TBP&FIRM REC. No. 280
 TBP&FIRM REC. No. 100486

WATER TREATMENT PLANT
 CUNNINGHAM CREEK BLVD.
 (RECLAIMED EFFLUENT) RE-USED WATER LINE
 PLAN AND PROFILE
 CUNNINGHAM CREEK BLVD.
 STA. 4+00.00 TO 14+00.00

DESIGNED BY: _____ DATE: _____

CHECKED BY: _____ DATE: _____

APPROVED DEVELOPMENT COORDINATOR: _____

SHEET 21 OF 42 SHEETS

JOB NO. 1998080-14E

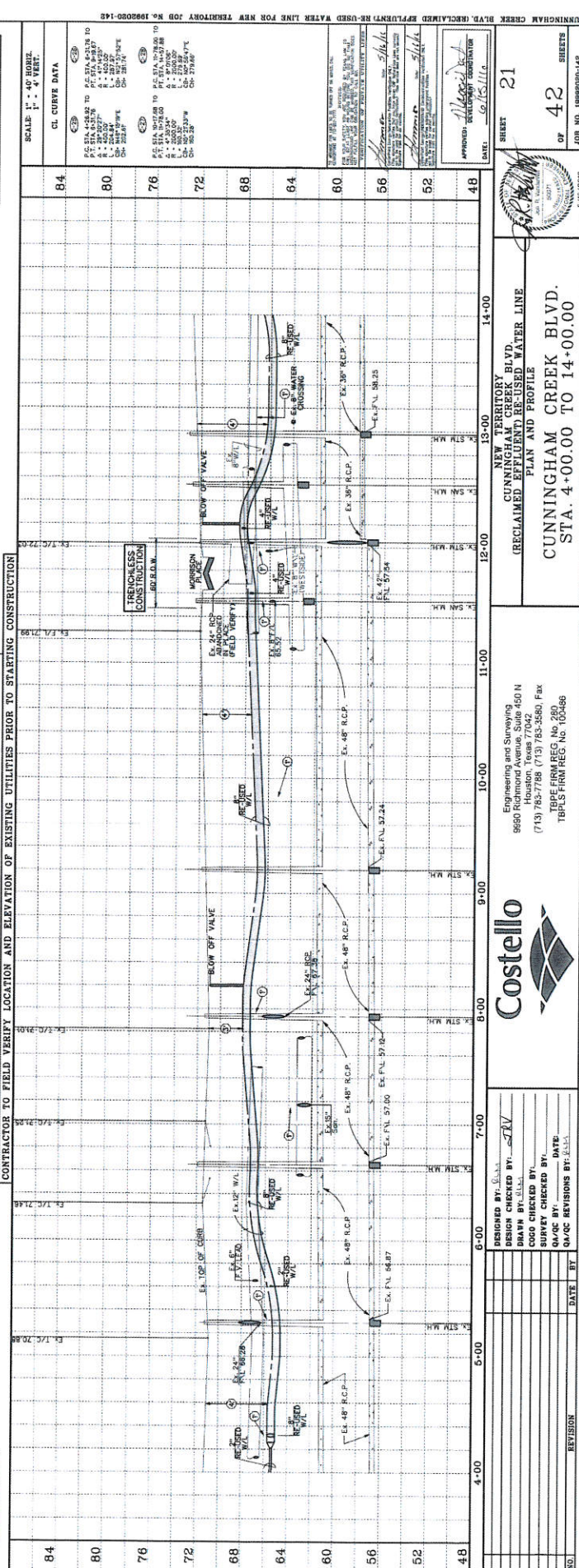
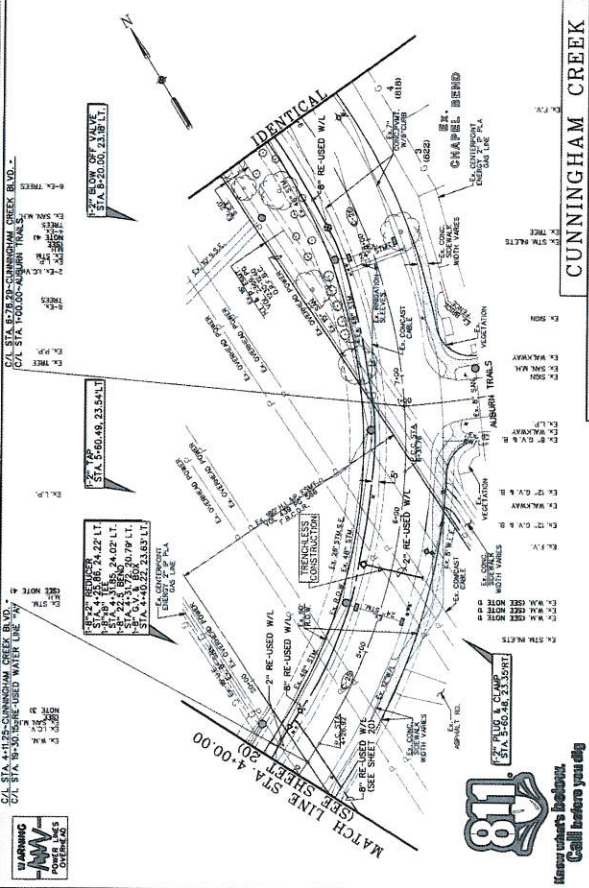
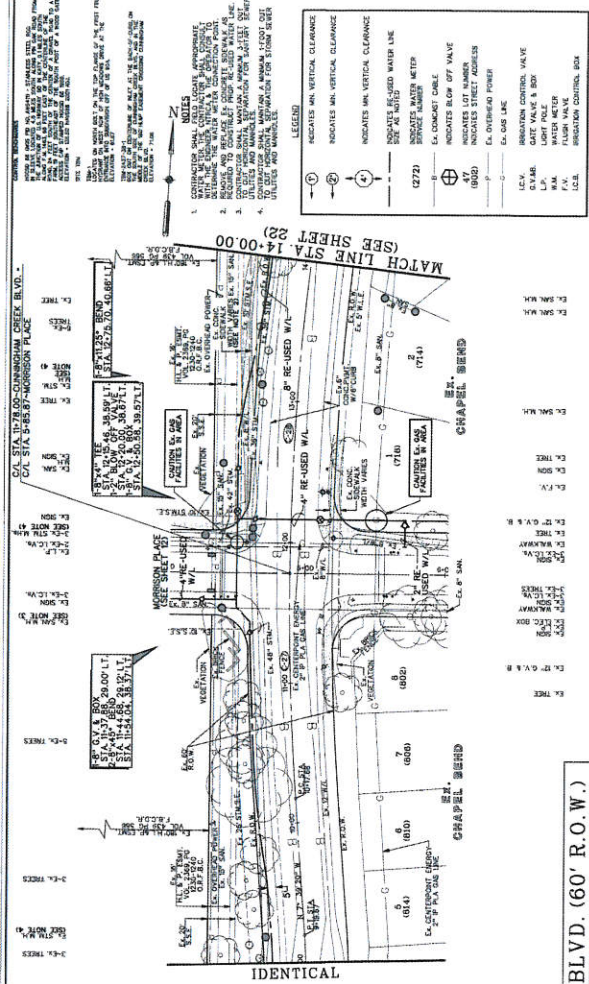
DESIGNED BY: _____ DATE: _____

CHECKED BY: _____ DATE: _____

APPROVED DEVELOPMENT COORDINATOR: _____

SHEET 21 OF 42 SHEETS

JOB NO. 1998080-14E



Engineering and Surveying
 8650 Houston, Texas 77042
 (713) 783-7788 (713) 783-3580 Fax
 TBPB FIRM REG. NO. 280
 TBPB FIRM REG. NO. 100486

NO.	REVISION	DATE	BY

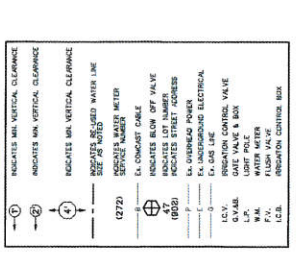
APPROVED: [Signature]
 DATE: 6/18/10
 SHEET 21 OF 42
 JOB NO. 180800-148

CONTRACTOR SHALL FIELD LOCATE APPROXIMATELY ALL UTILITIES AND RECORD THEM TO THE CENTERLINE OF THE ROAD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES AND STRUCTURES TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS TO ALL ADJACENT PROPERTIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL UTILITIES AND STRUCTURES TO ORIGINAL OR BETTER CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES AND STRUCTURES TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS TO ALL ADJACENT PROPERTIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL UTILITIES AND STRUCTURES TO ORIGINAL OR BETTER CONDITION.

- CONTRACTOR SHALL FIELD LOCATE APPROXIMATELY ALL UTILITIES AND RECORD THEM TO THE CENTERLINE OF THE ROAD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES AND STRUCTURES TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS TO ALL ADJACENT PROPERTIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL UTILITIES AND STRUCTURES TO ORIGINAL OR BETTER CONDITION.
- REMOVE AND REGRADE AS NECESSARY TO ACCOMMODATE ALL UTILITIES AND STRUCTURES TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES AND STRUCTURES TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS TO ALL ADJACENT PROPERTIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL UTILITIES AND STRUCTURES TO ORIGINAL OR BETTER CONDITION.
- REPAIR AND REGRADE AS NECESSARY TO ACCOMMODATE ALL UTILITIES AND STRUCTURES TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES AND STRUCTURES TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS TO ALL ADJACENT PROPERTIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL UTILITIES AND STRUCTURES TO ORIGINAL OR BETTER CONDITION.
- CONTRACTOR SHALL MAINTAIN AN ADEQUATE CUT-OFF FOR ALL UTILITIES AND STRUCTURES TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES AND STRUCTURES TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS TO ALL ADJACENT PROPERTIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL UTILITIES AND STRUCTURES TO ORIGINAL OR BETTER CONDITION.

LEGEND

- INDICATES MIN. VERTICAL CLEARANCE
- INDICATES MAX. VERTICAL CLEARANCE
- INDICATES MIN. VERTICAL CLEARANCE
- INDICATES MAX. VERTICAL CLEARANCE
- INDICATES RECLAIMED WATER LINE
- INDICATES SERVICE ALUMINUM WATER
- INDICATES CONSTANT DRAIN
- INDICATES BLOW OFF VALVE
- INDICATES STREET ADDRESS
- INDICATES OVERHEAD ELECTRICAL
- INDICATES GAS VALVE & BOX
- INDICATES SATE VALVE & BOX
- INDICATES LIGHT POLE
- INDICATES FURNACE
- INDICATES FLUSH VALVE
- INDICATES REVISION CONTROL BOX



SCALE: 1" = 40' HORIZONTAL
1" = 4' VERTICAL

CL CURVE DATA

84	80	76	72	68	64	60	56	52	48
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APPROVED: *[Signature]*
DATE: 6/15/16

DATE: 6/15/16

NO. OF SHEETS: 42

SHEET NO. 22

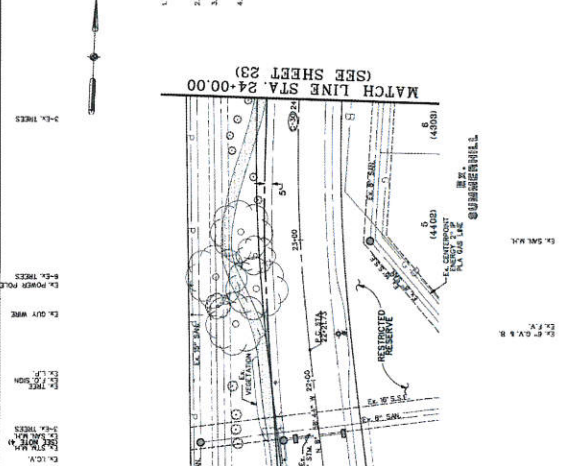
JOB NO. 1499880-148

DATE: 6/15/16

DATE: 6/15/16

DATE: 6/15/16

DATE: 6/15/16



CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION

CUNNINGHAM CREEK BLVD. (60' R.O.W.)



SCALE: 1" = 40' HORIZONTAL
1" = 4' VERTICAL

APPROVED: *[Signature]*
DATE: 6/15/16

DATE: 6/15/16

NO. OF SHEETS: 42

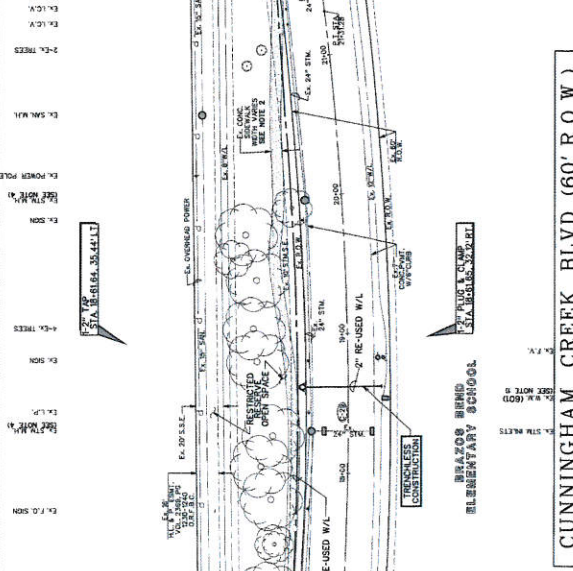
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JOB NO. 1499880-148

DATE: 6/15/16

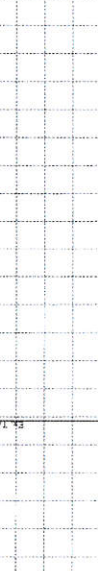
DATE: 6/15/16

DATE: 6/15/16



CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION

CUNNINGHAM CREEK BLVD. (60' R.O.W.)



SCALE: 1" = 40' HORIZONTAL
1" = 4' VERTICAL

APPROVED: *[Signature]*
DATE: 6/15/16

DATE: 6/15/16

NO. OF SHEETS: 42

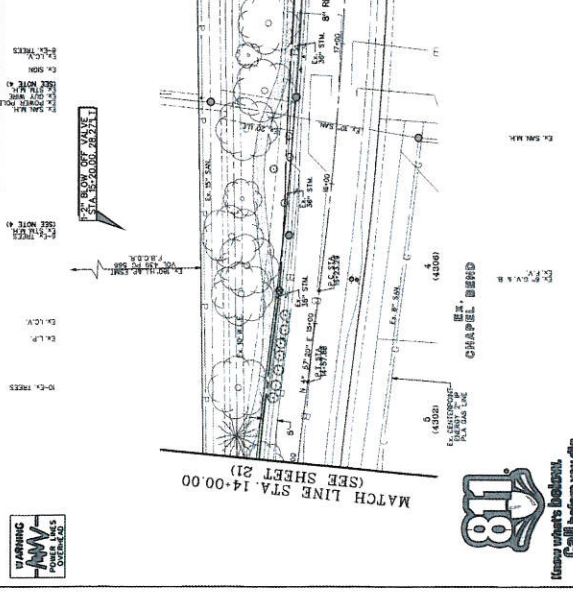
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JOB NO. 1499880-148

DATE: 6/15/16

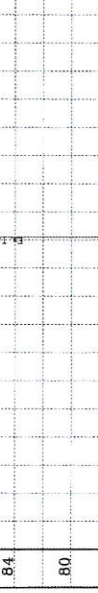
DATE: 6/15/16

DATE: 6/15/16



CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION

CUNNINGHAM CREEK BLVD. (60' R.O.W.)



SCALE: 1" = 40' HORIZONTAL
1" = 4' VERTICAL

APPROVED: *[Signature]*
DATE: 6/15/16

DATE: 6/15/16

NO. OF SHEETS: 42

SHEET NO. 22

JOB NO. 1499880-148

DATE: 6/15/16

DATE: 6/15/16

DATE: 6/15/16



CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION

CUNNINGHAM CREEK BLVD. (60' R.O.W.)



SCALE: 1" = 40' HORIZONTAL
1" = 4' VERTICAL

APPROVED: *[Signature]*
DATE: 6/15/16

DATE: 6/15/16

NO. OF SHEETS: 42

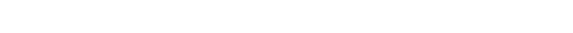
SHEET NO. 22

JOB NO. 1499880-148

DATE: 6/15/16

DATE: 6/15/16

DATE: 6/15/16



CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION

CUNNINGHAM CREEK BLVD. (60' R.O.W.)



SCALE: 1" = 40' HORIZONTAL
1" = 4' VERTICAL

APPROVED: *[Signature]*
DATE: 6/15/16

DATE: 6/15/16

NO. OF SHEETS: 42

SHEET NO. 22

JOB NO. 1499880-148

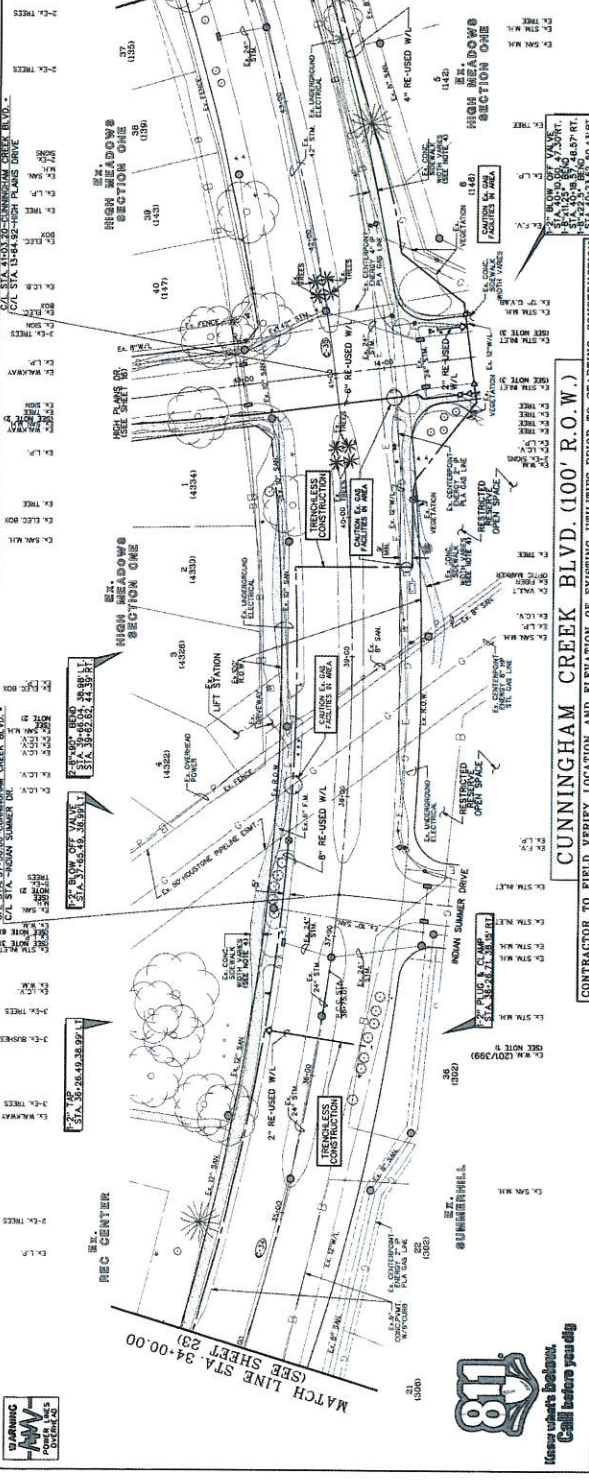
DATE: 6/15/16

DATE: 6/15/16

DATE: 6/15/16

CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
 CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
 CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.

MATCH LINE STA. 44+00.00
 (SEE SHEET 25)

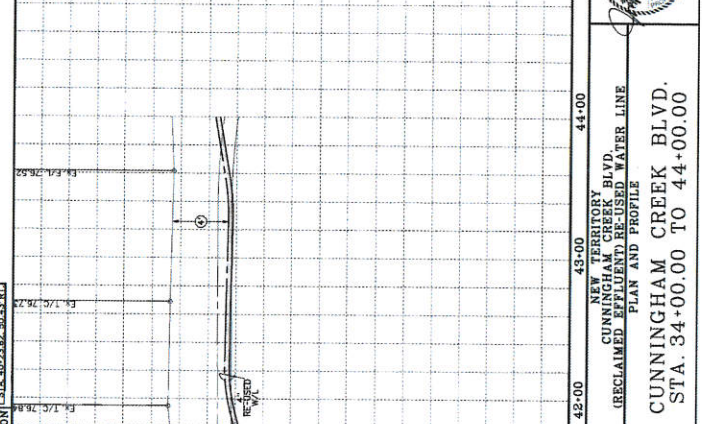


SCALE: 1" = 40' HORIZ.
 1" = 4' VERT.

CL CURVE DATA

84
80
76
72
68
64
60
56
52
48

APPROVED: *Maressi Co.*
 DATE: 06/15/14



CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION

CUNNINGHAM CREEK BLVD. (100' R.O.W.)

DESIGNED BY: *Maressi Co.*
 DESIGN CHECKED BY: *Maressi Co.*
 DRAFT BY: *Maressi Co.*
 SURVEY CHECKED BY: *Maressi Co.*
 QM/QC BY: *Maressi Co.*
 DATE: *06/15/14*
 QM/QC REVISIONS BY: *Maressi Co.*

NEW TERRITORY BLVD. CUNNINGHAM CREEK BLVD. WATER LINE
 (RECLAIMED RIGHT-OF-WAY)
 PLAN AND PROFILE

CUNNINGHAM CREEK BLVD.
 STA. 34+00.00 TO 44+00.00

24
 OF 42 SHEETS
 JOB NO. 1498000-148
 5/22/2008

Costello

Engineering and Surveying
 9900 Richmond Road, Suite 400 N
 Houston, Texas 77042
 (713) 783-7788 (713) 783-3580 Fax
 TBPCE FIRM REG. NO. 280
 TBPCE FIRM REG. NO. 100486

Call before you dig

800-4-A-DIG

PORT BEND COUNTY LID 7

WILLIAMS LANDING DR. (60' R.O.W.)

CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION

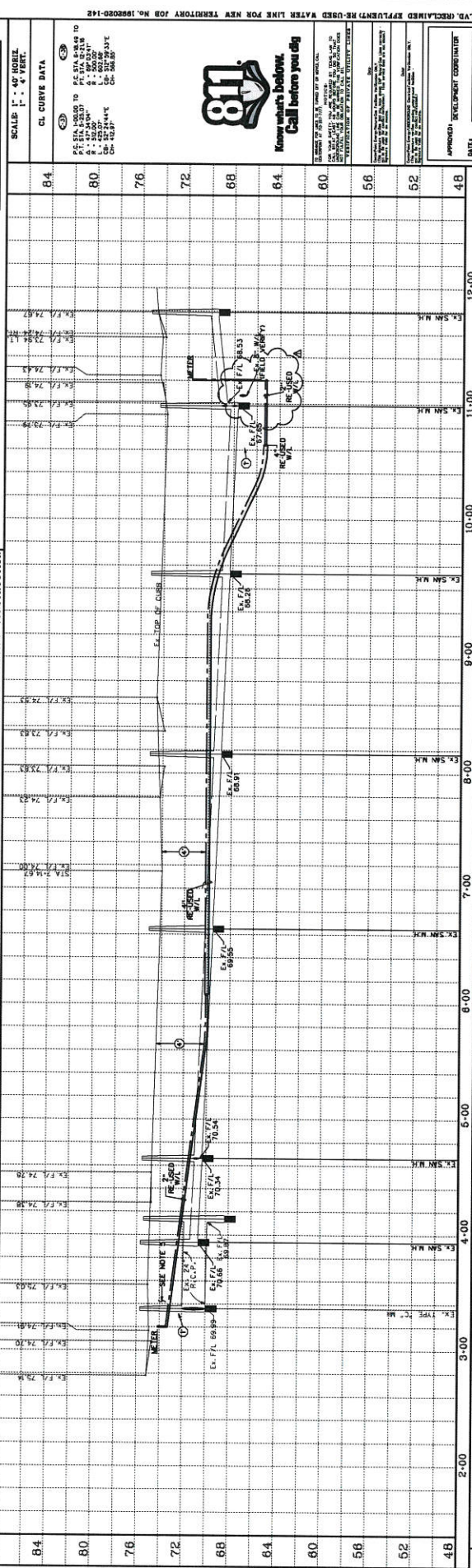
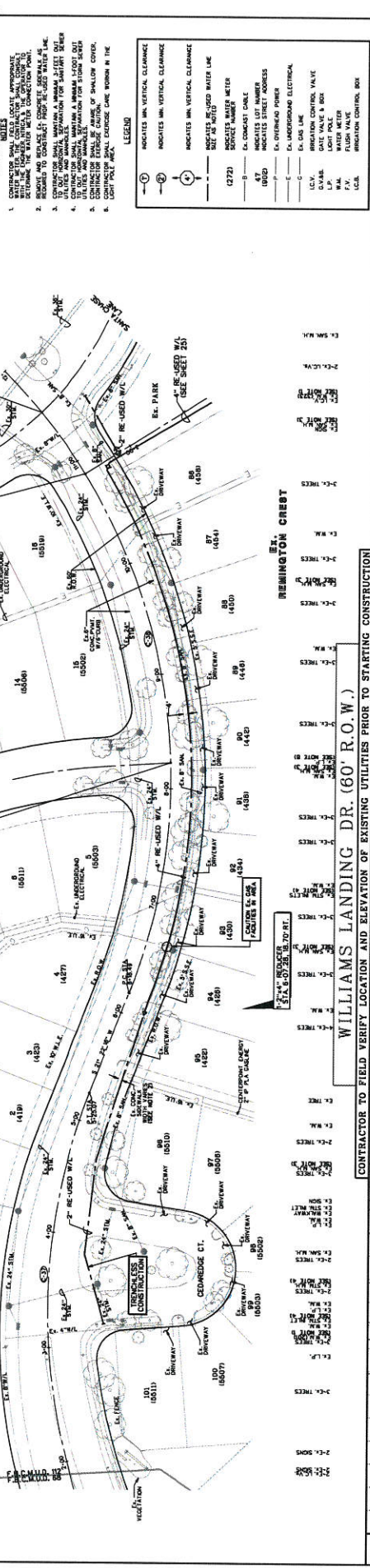
RECLAIMED WATER LINE

NEW TERRITORY BLVD

CUNNINGHAM CREEK BLVD (RECLAIMED)

WILLIAMS LANDING DR. STA. 2+00.00 TO 12+00.00

PLAN AND PROFILE



LEGEND

- INDICATES MIN. VERTICAL CLEARANCE
- INDICATES MAX. VERTICAL CLEARANCE
- INDICATES RE-USED WATER LINE
- INDICATES WATER METER
- INDICATES SERVICE METER
- INDICATES STREET ADDRESS
- INDICATES OVERHEAD POWER
- INDICATES UNDERGROUND ELECTRICAL
- INDICATES GAS LINE
- INDICATES IRRIGATION CONTROL VALVE
- INDICATES LIGHT POLE
- INDICATES WATER METER
- INDICATES IRRIGATION CONTROL BOX

SCALE: 1" = 40' HORIZ. 1" = 4' VERT.

CL CURVE DATA

84	80	76	72	68	64	60	56	52	48
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DESIGNED BY: _____

DRAWN BY: _____

CHECKED BY: _____

DATE: _____

REVISIONS:

NO.	REVISION	DATE

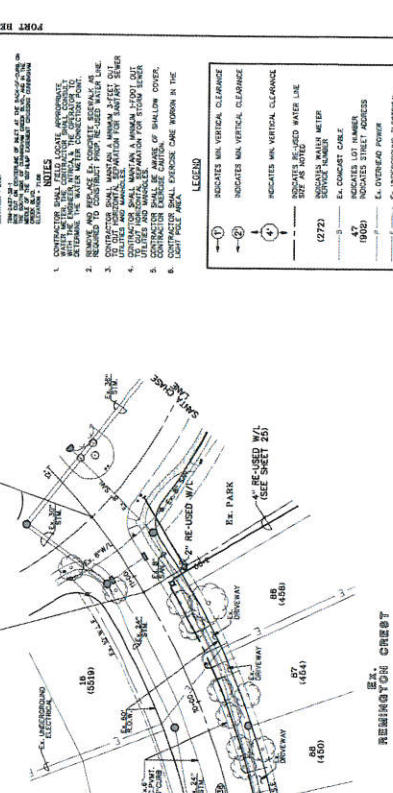
Costello

Engineering and Surveying
 9990 Houston, Texas 77042
 (713) 785-7788 (713) 785-3500 Fax
 TBPE FIRM REG. No. 280
 TBPLS FIRM REG. No. 100486

NEW TERRITORY BLVD
 CUNNINGHAM CREEK BLVD
 WILLIAMS LANDING DR.
 PLAN AND PROFILE

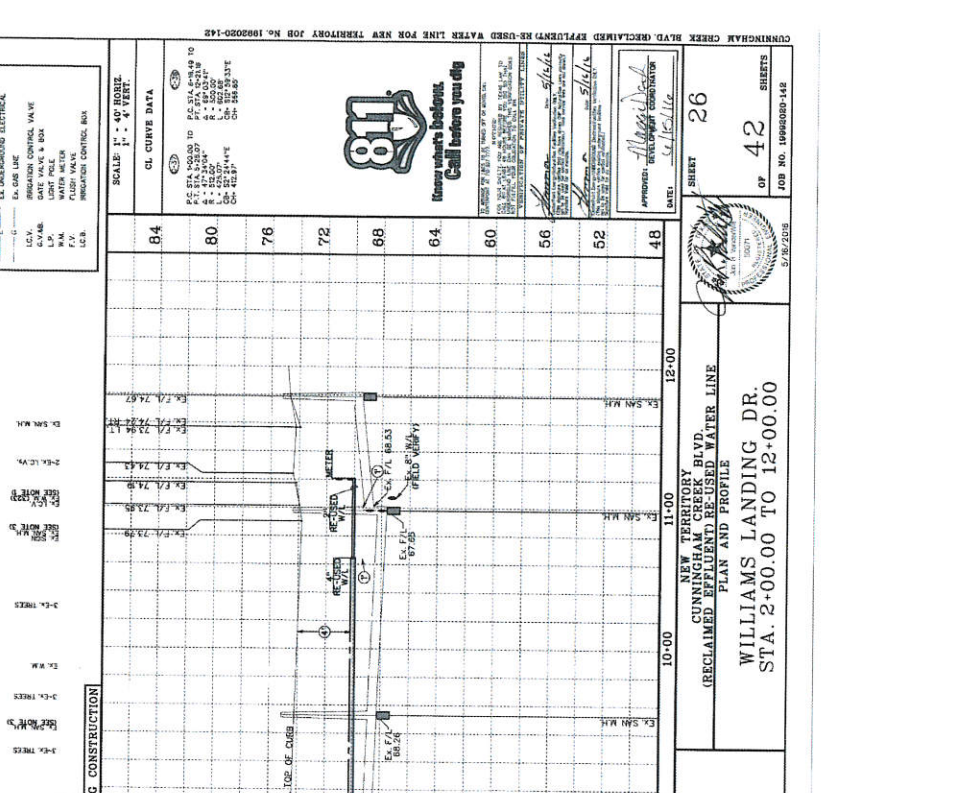
WILLIAMS LANDING DR.
 STA. 2+00.00 TO 12+00.00

SHEET 26
 OF 42 SHEETS
 JOB NO. 198802-14E
 7/28/2016



CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION

STATION	EXISTING UTILITIES
2+00	2" K. TRENCH CONSTRUCTION
2+10	2" K. TRENCH CONSTRUCTION
2+20	2" K. TRENCH CONSTRUCTION
2+30	2" K. TRENCH CONSTRUCTION
2+40	2" K. TRENCH CONSTRUCTION
2+50	2" K. TRENCH CONSTRUCTION
2+60	2" K. TRENCH CONSTRUCTION
2+70	2" K. TRENCH CONSTRUCTION
2+80	2" K. TRENCH CONSTRUCTION
2+90	2" K. TRENCH CONSTRUCTION
3+00	2" K. TRENCH CONSTRUCTION
3+10	2" K. TRENCH CONSTRUCTION
3+20	2" K. TRENCH CONSTRUCTION
3+30	2" K. TRENCH CONSTRUCTION
3+40	2" K. TRENCH CONSTRUCTION
3+50	2" K. TRENCH CONSTRUCTION
3+60	2" K. TRENCH CONSTRUCTION
3+70	2" K. TRENCH CONSTRUCTION
3+80	2" K. TRENCH CONSTRUCTION
3+90	2" K. TRENCH CONSTRUCTION
4+00	2" K. TRENCH CONSTRUCTION
4+10	2" K. TRENCH CONSTRUCTION
4+20	2" K. TRENCH CONSTRUCTION
4+30	2" K. TRENCH CONSTRUCTION
4+40	2" K. TRENCH CONSTRUCTION
4+50	2" K. TRENCH CONSTRUCTION
4+60	2" K. TRENCH CONSTRUCTION
4+70	2" K. TRENCH CONSTRUCTION
4+80	2" K. TRENCH CONSTRUCTION
4+90	2" K. TRENCH CONSTRUCTION
5+00	2" K. TRENCH CONSTRUCTION
5+10	2" K. TRENCH CONSTRUCTION
5+20	2" K. TRENCH CONSTRUCTION
5+30	2" K. TRENCH CONSTRUCTION
5+40	2" K. TRENCH CONSTRUCTION
5+50	2" K. TRENCH CONSTRUCTION
5+60	2" K. TRENCH CONSTRUCTION
5+70	2" K. TRENCH CONSTRUCTION
5+80	2" K. TRENCH CONSTRUCTION
5+90	2" K. TRENCH CONSTRUCTION
6+00	2" K. TRENCH CONSTRUCTION
6+10	2" K. TRENCH CONSTRUCTION
6+20	2" K. TRENCH CONSTRUCTION
6+30	2" K. TRENCH CONSTRUCTION
6+40	2" K. TRENCH CONSTRUCTION
6+50	2" K. TRENCH CONSTRUCTION
6+60	2" K. TRENCH CONSTRUCTION
6+70	2" K. TRENCH CONSTRUCTION
6+80	2" K. TRENCH CONSTRUCTION
6+90	2" K. TRENCH CONSTRUCTION
7+00	2" K. TRENCH CONSTRUCTION
7+10	2" K. TRENCH CONSTRUCTION
7+20	2" K. TRENCH CONSTRUCTION
7+30	2" K. TRENCH CONSTRUCTION
7+40	2" K. TRENCH CONSTRUCTION
7+50	2" K. TRENCH CONSTRUCTION
7+60	2" K. TRENCH CONSTRUCTION
7+70	2" K. TRENCH CONSTRUCTION
7+80	2" K. TRENCH CONSTRUCTION
7+90	2" K. TRENCH CONSTRUCTION
8+00	2" K. TRENCH CONSTRUCTION
8+10	2" K. TRENCH CONSTRUCTION
8+20	2" K. TRENCH CONSTRUCTION
8+30	2" K. TRENCH CONSTRUCTION
8+40	2" K. TRENCH CONSTRUCTION
8+50	2" K. TRENCH CONSTRUCTION
8+60	2" K. TRENCH CONSTRUCTION
8+70	2" K. TRENCH CONSTRUCTION
8+80	2" K. TRENCH CONSTRUCTION
8+90	2" K. TRENCH CONSTRUCTION
9+00	2" K. TRENCH CONSTRUCTION
9+10	2" K. TRENCH CONSTRUCTION
9+20	2" K. TRENCH CONSTRUCTION
9+30	2" K. TRENCH CONSTRUCTION
9+40	2" K. TRENCH CONSTRUCTION
9+50	2" K. TRENCH CONSTRUCTION
9+60	2" K. TRENCH CONSTRUCTION
9+70	2" K. TRENCH CONSTRUCTION
9+80	2" K. TRENCH CONSTRUCTION
9+90	2" K. TRENCH CONSTRUCTION
10+00	2" K. TRENCH CONSTRUCTION
10+10	2" K. TRENCH CONSTRUCTION
10+20	2" K. TRENCH CONSTRUCTION
10+30	2" K. TRENCH CONSTRUCTION
10+40	2" K. TRENCH CONSTRUCTION
10+50	2" K. TRENCH CONSTRUCTION
10+60	2" K. TRENCH CONSTRUCTION
10+70	2" K. TRENCH CONSTRUCTION
10+80	2" K. TRENCH CONSTRUCTION
10+90	2" K. TRENCH CONSTRUCTION
11+00	2" K. TRENCH CONSTRUCTION
11+10	2" K. TRENCH CONSTRUCTION
11+20	2" K. TRENCH CONSTRUCTION
11+30	2" K. TRENCH CONSTRUCTION
11+40	2" K. TRENCH CONSTRUCTION
11+50	2" K. TRENCH CONSTRUCTION
11+60	2" K. TRENCH CONSTRUCTION
11+70	2" K. TRENCH CONSTRUCTION
11+80	2" K. TRENCH CONSTRUCTION
11+90	2" K. TRENCH CONSTRUCTION
12+00	2" K. TRENCH CONSTRUCTION



WILLIAMS LANDING DR. (60' R.O.W.)

STATION	ELEVATION (FEET)	DESCRIPTION
2+00	84.00	EXIST. F.A. 84.00
2+10	83.80	EXIST. F.A. 83.80
2+20	83.60	EXIST. F.A. 83.60
2+30	83.40	EXIST. F.A. 83.40
2+40	83.20	EXIST. F.A. 83.20
2+50	83.00	EXIST. F.A. 83.00
2+60	82.80	EXIST. F.A. 82.80
2+70	82.60	EXIST. F.A. 82.60
2+80	82.40	EXIST. F.A. 82.40
2+90	82.20	EXIST. F.A. 82.20
3+00	82.00	EXIST. F.A. 82.00
3+10	81.80	EXIST. F.A. 81.80
3+20	81.60	EXIST. F.A. 81.60
3+30	81.40	EXIST. F.A. 81.40
3+40	81.20	EXIST. F.A. 81.20
3+50	81.00	EXIST. F.A. 81.00
3+60	80.80	EXIST. F.A. 80.80
3+70	80.60	EXIST. F.A. 80.60
3+80	80.40	EXIST. F.A. 80.40
3+90	80.20	EXIST. F.A. 80.20
4+00	80.00	EXIST. F.A. 80.00
4+10	79.80	EXIST. F.A. 79.80
4+20	79.60	EXIST. F.A. 79.60
4+30	79.40	EXIST. F.A. 79.40
4+40	79.20	EXIST. F.A. 79.20
4+50	79.00	EXIST. F.A. 79.00
4+60	78.80	EXIST. F.A. 78.80
4+70	78.60	EXIST. F.A. 78.60
4+80	78.40	EXIST. F.A. 78.40
4+90	78.20	EXIST. F.A. 78.20
5+00	78.00	EXIST. F.A. 78.00
5+10	77.80	EXIST. F.A. 77.80
5+20	77.60	EXIST. F.A. 77.60
5+30	77.40	EXIST. F.A. 77.40
5+40	77.20	EXIST. F.A. 77.20
5+50	77.00	EXIST. F.A. 77.00
5+60	76.80	EXIST. F.A. 76.80
5+70	76.60	EXIST. F.A. 76.60
5+80	76.40	EXIST. F.A. 76.40
5+90	76.20	EXIST. F.A. 76.20
6+00	76.00	EXIST. F.A. 76.00
6+10	75.80	EXIST. F.A. 75.80
6+20	75.60	EXIST. F.A. 75.60
6+30	75.40	EXIST. F.A. 75.40
6+40	75.20	EXIST. F.A. 75.20
6+50	75.00	EXIST. F.A. 75.00
6+60	74.80	EXIST. F.A. 74.80
6+70	74.60	EXIST. F.A. 74.60
6+80	74.40	EXIST. F.A. 74.40
6+90	74.20	EXIST. F.A. 74.20
7+00	74.00	EXIST. F.A. 74.00
7+10	73.80	EXIST. F.A. 73.80
7+20	73.60	EXIST. F.A. 73.60
7+30	73.40	EXIST. F.A. 73.40
7+40	73.20	EXIST. F.A. 73.20
7+50	73.00	EXIST. F.A. 73.00
7+60	72.80	EXIST. F.A. 72.80
7+70	72.60	EXIST. F.A. 72.60
7+80	72.40	EXIST. F.A. 72.40
7+90	72.20	EXIST. F.A. 72.20
8+00	72.00	EXIST. F.A. 72.00
8+10	71.80	EXIST. F.A. 71.80
8+20	71.60	EXIST. F.A. 71.60
8+30	71.40	EXIST. F.A. 71.40
8+40	71.20	EXIST. F.A. 71.20
8+50	71.00	EXIST. F.A. 71.00
8+60	70.80	EXIST. F.A. 70.80
8+70	70.60	EXIST. F.A. 70.60
8+80	70.40	EXIST. F.A. 70.40
8+90	70.20	EXIST. F.A. 70.20
9+00	70.00	EXIST. F.A. 70.00
9+10	69.80	EXIST. F.A. 69.80
9+20	69.60	EXIST. F.A. 69.60
9+30	69.40	EXIST. F.A. 69.40
9+40	69.20	EXIST. F.A. 69.20
9+50	69.00	EXIST. F.A. 69.00
9+60	68.80	EXIST. F.A. 68.80
9+70	68.60	EXIST. F.A. 68.60
9+80	68.40	EXIST. F.A. 68.40
9+90	68.20	EXIST. F.A. 68.20
10+00	68.00	EXIST. F.A. 68.00
10+10	67.80	EXIST. F.A. 67.80
10+20	67.60	EXIST. F.A. 67.60
10+30	67.40	EXIST. F.A. 67.40
10+40	67.20	EXIST. F.A. 67.20
10+50	67.00	EXIST. F.A. 67.00
10+60	66.80	EXIST. F.A. 66.80
10+70	66.60	EXIST. F.A. 66.60
10+80	66.40	EXIST. F.A. 66.40
10+90	66.20	EXIST. F.A. 66.20
11+00	66.00	EXIST. F.A. 66.00
11+10	65.80	EXIST. F.A. 65.80
11+20	65.60	EXIST. F.A. 65.60
11+30	65.40	EXIST. F.A. 65.40
11+40	65.20	EXIST. F.A. 65.20
11+50	65.00	EXIST. F.A. 65.00
11+60	64.80	EXIST. F.A. 64.80
11+70	64.60	EXIST. F.A. 64.60
11+80	64.40	EXIST. F.A. 64.40
11+90	64.20	EXIST. F.A. 64.20
12+00	64.00	EXIST. F.A. 64.00

Costello

Engineers and Surveyors
 9990 Richmond Avenue, Suite 450 N
 Houston, Texas 77042
 (713) 783-7788 (713) 783-5580, Fax
 TBP# FIRM REG. NO. 280
 TBP#LS FROM REG. NO. 00846

DESIGNED BY: *[Signature]*
 DRAWN CHECKED BY: *[Signature]*
 CADD CHECKED BY: *[Signature]*
 SURVEY CHECKED BY: *[Signature]*
 Q.A./C. BY: *[Signature]* DATE: *[Date]*
 REVISIONS BY: *[Signature]* DATE: *[Date]*

APPROVED: *[Signature]*
 DEVELOPER/CONTRACTOR
 DATE: *[Date]*

SCALE: 1" = 40' HORIZ.
 1" = 4' VERT.

GL CURVE DATA
 P.C. STA. 000.00 TO P.T. STA. 6+04.9 TO
 R = 100.00' Δ = 60.00°
 E.A. 60.00' Δ = 60.00°
 P.T. STA. 604.90
 Δ = 60.00°
 T.C. STA. 302.45
 Δ = 60.00°
 Δ = 60.00°
 Δ = 60.00°

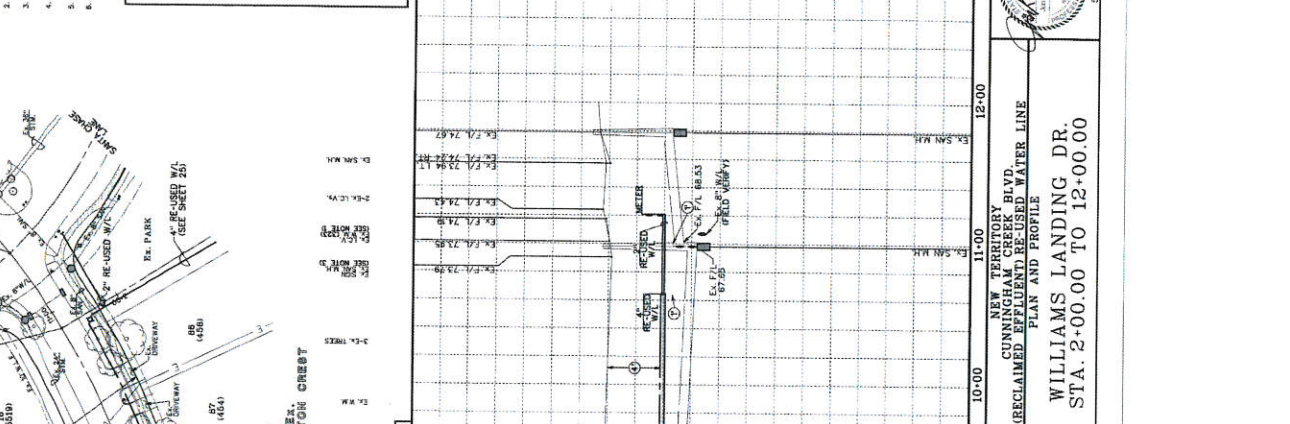
Know what's below. Call before you dig.

84 80 76 72 68 64 60 56 52 48

LEGEND

① INDICATES MIN. VERTICAL CLEARANCE
 ② INDICATES MAX. VERTICAL CLEARANCE
 ③ INDICATES MIN. VERTICAL CLEARANCE
 ④ INDICATES RE-USED WATER LINE
 (DZ) INDICATES DRAINAGE WATER LINE
 ⑤ CONCRETE CABLE
 ⑥ OVERHEAD POWER
 ⑦ UNDERGROUND ELECTRICAL
 ⑧ GAS LINE
 ⑨ SLOTTED CONTROL VALVE
 ⑩ SLOTTED CONTROL VALVE
 ⑪ WATER METER
 ⑫ WATER METER CONTROL BOX
 ⑬ INSULATION CONTROL BOX

1. CONTRACTOR SHALL FIELD LOCATE APPROPRIATE UTILITIES PRIOR TO STARTING CONSTRUCTION.
 2. REMOVE AND REUSE EX. EXISTING WATER LINE TO CONTRACTOR'S RE-USED WATER LINE.
 3. CONTRACTOR SHALL FIELD LOCATE APPROPRIATE UTILITIES PRIOR TO STARTING CONSTRUCTION.
 4. CONTRACTOR SHALL FIELD LOCATE APPROPRIATE UTILITIES PRIOR TO STARTING CONSTRUCTION.
 5. CONTRACTOR SHALL FIELD LOCATE APPROPRIATE UTILITIES PRIOR TO STARTING CONSTRUCTION.
 6. CONTRACTOR SHALL FIELD LOCATE APPROPRIATE UTILITIES PRIOR TO STARTING CONSTRUCTION.
 7. CONTRACTOR SHALL FIELD LOCATE APPROPRIATE UTILITIES PRIOR TO STARTING CONSTRUCTION.
 8. CONTRACTOR SHALL FIELD LOCATE APPROPRIATE UTILITIES PRIOR TO STARTING CONSTRUCTION.



WILLIAMS LANDING DR. (60' R.O.W.)

STATION	ELEVATION (FEET)	DESCRIPTION
2+00	84.00	EXIST. F.A. 84.00
2+10	83.80	EXIST. F.A. 83.80
2+20	83.60	EXIST. F.A. 83.60
2+30	83.40	EXIST. F.A. 83.40
2+40	83.20	EXIST. F.A. 83.20
2+50	83.00	EXIST. F.A. 83.00
2+60	82.80	EXIST. F.A. 82.80
2+70	82.60	EXIST. F.A. 82.60
2+80	82.40	EXIST. F.A. 82.40
2+90	82.20	EXIST. F.A. 82.20
3+00	82.00	EXIST. F.A. 82.00
3+10	81.80	EXIST. F.A. 81.80
3+20	81.60	EXIST. F.A. 81.60
3+30	81.40	EXIST. F.A. 81.40
3+40	81.20	EXIST. F.A. 81.20
3+50	81.00	EXIST. F.A. 81.00
3+60	80.80	EXIST. F.A. 80.80
3+70	80.60	EXIST. F.A. 80.60
3+80	80.40	EXIST. F.A. 80.40
3+90	80.20	EXIST. F.A. 80.20
4+00	80.00	EXIST. F.A. 80.00
4+10	79.80	EXIST. F.A. 79.80
4+20	79.60	EXIST. F.A. 79.60
4+30	79.40	EXIST. F.A. 79.40
4+40	79.20	EXIST. F.A. 79.20
4+50	79.00	EXIST. F.A. 79.00
4+60	78.80	EXIST. F.A. 78.80
4+70	78.60	EXIST. F.A. 78.60
4+80	78.40	EXIST. F.A. 78.40
4+90	78.20	EXIST. F.A. 78.20
5+00	78.00	EXIST. F.A. 78.00
5+10	77.80	EXIST. F.A. 77.80
5+20	77.60	EXIST. F.A. 77.60
5+30	77.40	EXIST. F.A. 77.40
5+40	77.20	EXIST. F.A. 77.20
5+50	77.00	EXIST. F.A. 77.00
5+60	76.80	EXIST. F.A. 76.80
5+70	76.60	EXIST. F.A. 76.60
5+80	76.40	EXIST. F.A. 76.40
5+90	76.20	EXIST. F.A. 76.20
6+00	76.00	EXIST. F.A. 76.00
6+10	75.80	EXIST. F.A. 75.80
6+20	75.60	EXIST. F.A. 75.60
6+30	75.40	EXIST. F.A. 75.40
6+40	75.20	EXIST. F.A. 75.20
6+50	75.00	EXIST. F.A. 75.00
6+60	74.80	EXIST. F.A. 74.80
6+70	74.60	EXIST. F.A. 74.60
6+80	74.40	EXIST. F.A. 74.40
6+90	74.20	EXIST. F.A. 74.20
7+00	74.00	EXIST. F.A. 74.00
7+10	73.80	EXIST. F.A. 73.80
7+20	73.60	EXIST. F.A. 73.60
7+30	73.40	EXIST. F.A. 73.40
7+40	73.20	EXIST. F.A. 73.20
7+50	73.00	EXIST. F.A. 73.00
7+60	72.80	EXIST. F.A. 72.80
7+70	72.60	EXIST. F.A. 72.60
7+80	72.40	EXIST. F.A. 72.40
7+90	72.20	EXIST. F.A. 72.20
8+00	72.00	EXIST. F.A. 72.00
8+10	71.80	EXIST. F.A. 71.80
8+20	71.60	EXIST. F.A. 71.60
8+30	71.40	EXIST. F.A. 71.40
8+40	71.20	EXIST. F.A. 71.20
8+50	71.00	EXIST. F.A. 71.00
8+60	70.80	EXIST. F.A. 70.80
8+70	70.60	EXIST. F.A. 70.60
8+80	70.40	EXIST. F.A. 70.40
8+90	70.20	EXIST. F.A. 70.20
9+00	70.00	EXIST. F.A. 70.00
9+10	69.80	EXIST. F.A. 69.80
9+20	69.60	EXIST. F.A. 69.60
9+30	69.40	EXIST. F.A. 69.40
9+40	69.20	EXIST. F.A. 69.20
9+50	69.00	EXIST. F.A. 69.00
9+60	68.80	EXIST. F.A. 68.80
9+70	68.60	EXIST. F.A. 68.60
9+80	68.40	EXIST. F.A. 68.40
9+90	68.20	EXIST. F.A. 68.20
10+00	68.00	EXIST. F.A. 68.00
10+10	67.80	EXIST. F.A. 67.80
10+20	67.60	EXIST. F.A. 67.60
10+30	67.40	EXIST. F.A. 67.40
10+40	67.20	EXIST. F.A. 67.20
10+50	67.00	EXIST. F.A. 67.00
10+60	66.80	EXIST. F.A. 66.80
10+70	66.60	EXIST. F.A. 66.60
10+80	66.40	EXIST. F.A. 66.40
10+90	66.20	EXIST. F.A. 66.20
11+00	66.00	EXIST. F.A. 66.00
11+10	65.80	EXIST. F.A. 65.80
11+20		

PORT BEND COUNTY LID 3

CONTRACTOR SHALL RE-LOCATE APPROXIMATELY 10' FROM THE EXISTING WATER METER TO THE NEW LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES TO REMAIN.

1. CONTRACTOR SHALL RE-LOCATE APPROXIMATELY 10' FROM THE EXISTING WATER METER TO THE NEW LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES TO REMAIN.

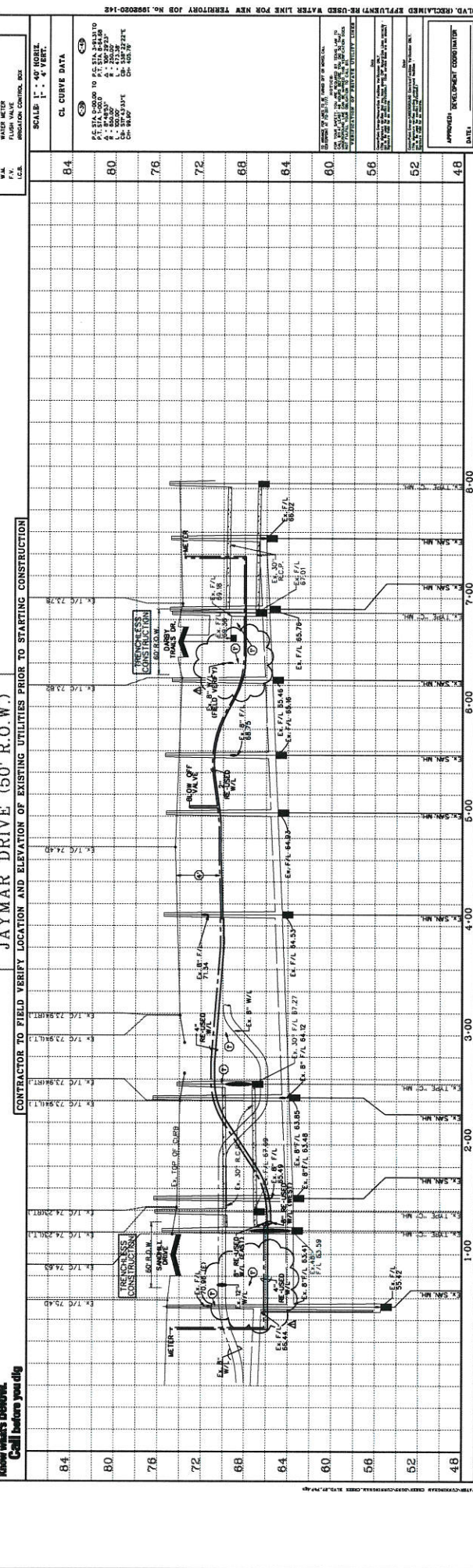
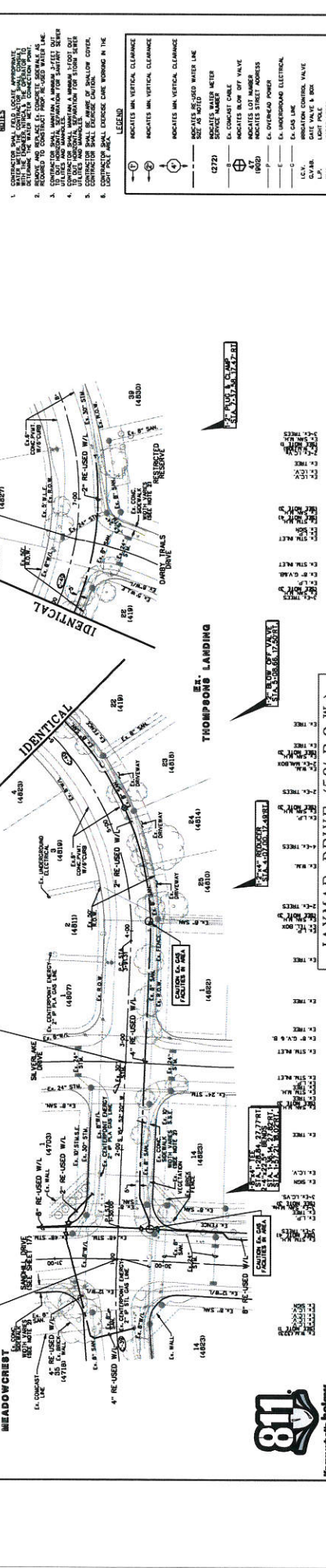
2. REMOVE AND RE-INSTALL EXISTING SERVICE AS SHOWN ON DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES TO REMAIN.

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NEW TERRITORY BLVD
CUNNINGHAM CREEK BLVD (RECLAIMED EFFLUENT RE-USED WATER LINE)
PLAN AND PROFILE
JAYMAR DRIVE
STA. 1+00.00 TO 8+00.00

Engineering and Surveying
8960 Fulshear Road, Suite 400 N
Houston, Texas 77042
(713) 783-7788 (713) 783-5580, Fax
TBP&S FIRM REG. NO. 280
TBP&S FIRM REG. NO. 100486

DESIGNED BY: _____
DESIGN CHECKED BY: _____
DRAWN BY: _____
CHECKED BY: _____
DATE: _____

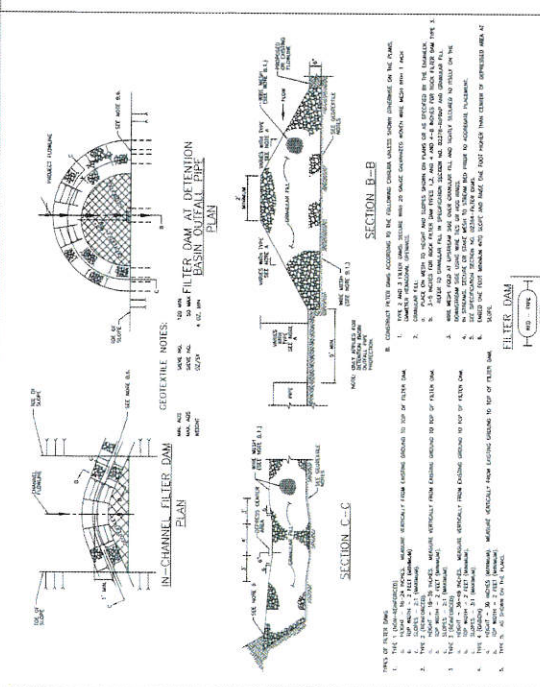
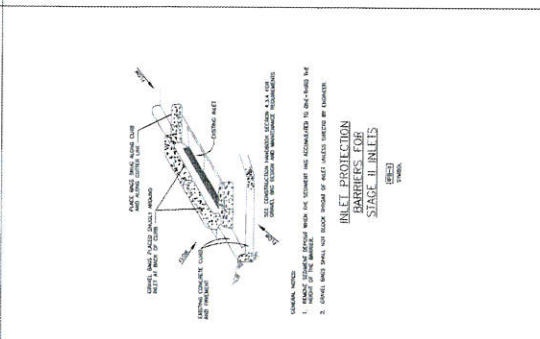
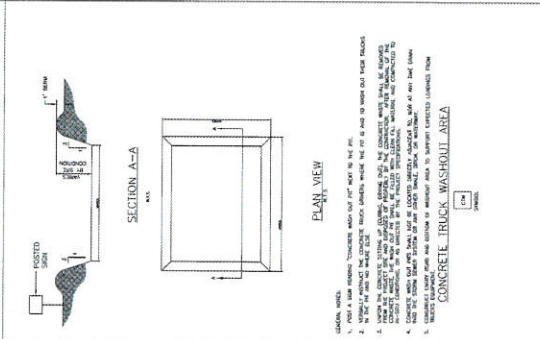
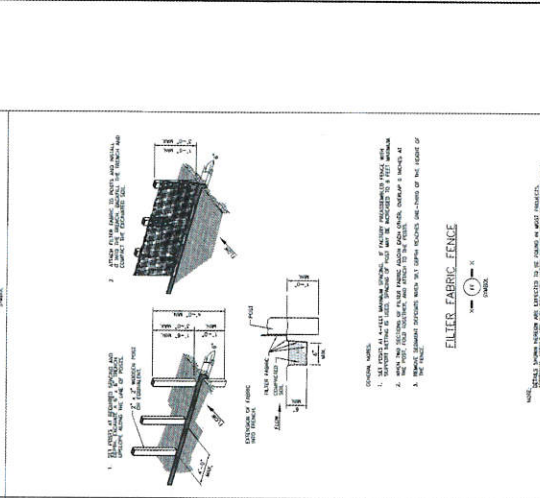
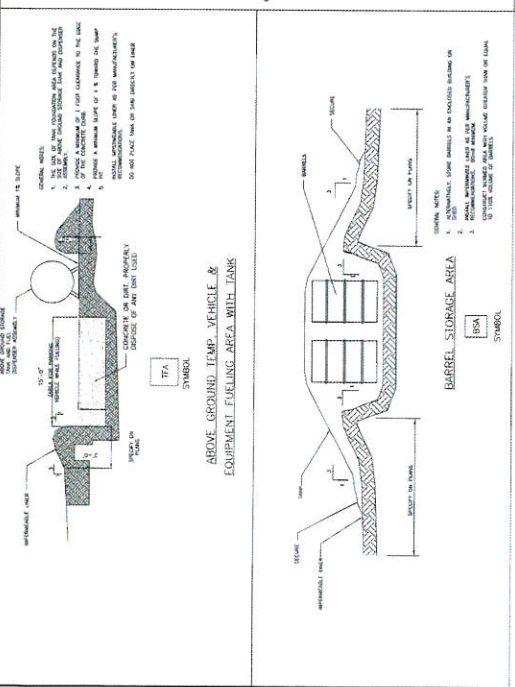
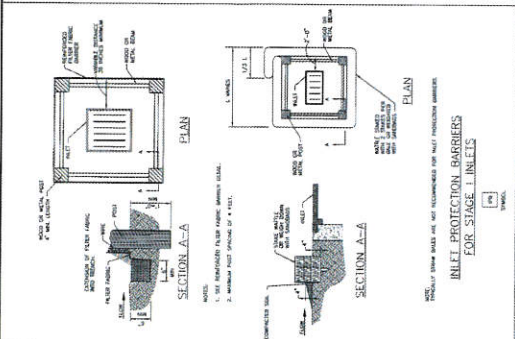
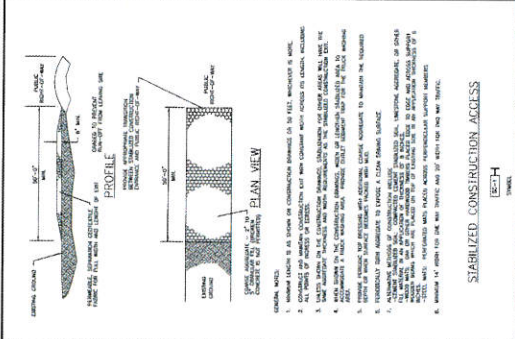
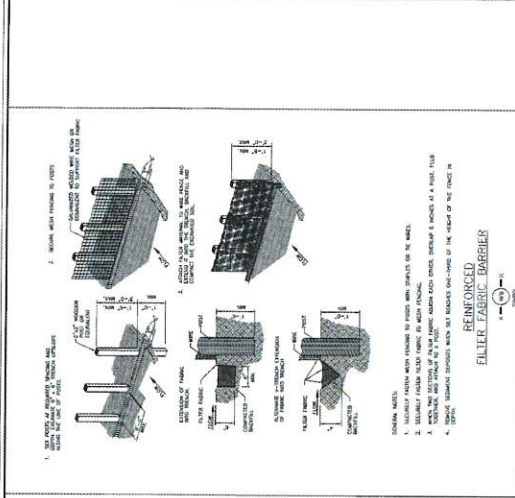
DATE BY: _____
REVISION: _____

APPROVED DEVELOPMENT COORDINATOR: _____

SHEET 27
OP 42
SHEETS
JOB NO. 100000-142
1/28/2018

811
Know what's below.
Call before you dig.

Costello



APPROVED: *[Signature]*
DATE: 12/15/2016

PROJECT: 29
SHEET: 42 OF 42
JOB NO. 199200-142

NEW TERRITORY CUNNINGHAM CREEK BLVD. (RECLAIMED EFFLUENT RE-USED WATER LINE) POLLUTION PREVENTION PLAN DETAILS

Engineering and Surveying
9980 Richmond Avenue, Suite 450 N
Houston, Texas 77042
(713) 735-3388 (713) 762-5380 Fax
TERRI FIRM REG. NO. 100486

DESIGNED BY: *[Signature]*
DESIGN CHECKED BY: *[Signature]*
DRAWN BY: *[Signature]*
CADD CHECKED BY: *[Signature]*
SURVEY CHECKED BY: *[Signature]*
DATE: 5-6-16

NO.	REVISION	DATE	BY

APPROVED: [Signature] DATE: 11/15/16 SHEET 30 OF 42 JOB NO. 1992020-142



NEW TERRITORY BLVD. CUNNINGHAM CREEK BLVD. (RECLAIMED EFFLUENT RE-USED WATER LINE) MISCELLANEOUS DETAILS

Costello Engineering and Surveying 9990 Richmond Avenue, Suite 450 N Houston, Texas 77042 (713) 782-7786 (713) 782-3880, Fax (713) 782-7786 (713) 782-3880, Fax TREC FIRM REG. NO. 2890 TREC FIRM REG. NO. 109486



DESIGNED BY: J.L.B. DRAWN BY: S.F. CHECKED BY: S.F. SURVEY CHECKED BY: J.E.S. DATE: 5-2-16 Q.A./C. REVISIONS BY: S.F.

Table with columns: NO., REVISION, DATE, BY

GENERAL NOTES FOR SIDEWALKS AND DRIVEWAYS

- SAW CUT EXISTING CURB AT EACH END AND KNOCK OUT CURB FROM BEGINNING TO END OF PROPOSED DRIVEWAY.
- SAW CUT EXISTING PAVEMENT A MINIMUM OF 18" INCHES AWAY FROM BACK OF CURB (GUTTER LINE) AND BREAK OUT TO EXPOSE EXISTING REINFORCEMENT STEEL.
- COMPACT SUBGRADE FOR PROPOSED DRIVEWAY CONNECTION FROM PROPOSED SAW CUT AT EXISTING PAVEMENT TO RIGHT-OF-WAY LINE. IF EXISTING PAVEMENT IS ASBESTOS CEMENT CONCRETE, THE COUNTY ENGINEER REQUIRES THE RIGHT TO REQUIRE LABORATORY TESTS TO BE CONDUCTED.
- PLACE AND COMPACT 4" CLEAN BANK SAND.
- MAINTAIN GUTTER LINE WITH FACE OF EXISTING CURB.
- PROPOSED DRIVEWAY REINFORCING STEEL IS TO BE TIED TO EXISTING ROADWAY REINFORCING STEEL WITH A MINIMUM LAP OF 12 INCHES.
- PROPOSED DRIVEWAY REINFORCING STEEL IS TO BE #4 REFORMED REINFORCING BARS (ASTM A615 GRADE 60, UNLESS NOTED) SPACED AT MINIMUM LAP OF 48" (OR 6" MINIMUM LAP OF 6" W x W6 AS ALTERNATE) FROM PROPOSED SAW CUT TO RIGHT-OF-WAY LINE.
- PROPOSED DRIVEWAY, CURB, GUTTER LINE, AND GRADE SHALL MATCH EXISTING STREET.
- PROPOSED DRIVEWAY SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE, CLASS "A" STRUCTURAL (REFER TO SPECIFICATION 03301), 7 INCHES THICK, FROM PROPOSED SAW CUT TO RIGHT-OF-WAY LINE (PROPERTY LINE).
- PROPOSED SIDEWALK SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE, CLASS "A" STRUCTURAL (REFER TO SPECIFICATION 03301), 4 INCHES THICK, FROM PROPOSED SAW CUT TO RIGHT-OF-WAY LINE (PROPERTY LINE). NO. FBC 24A FOR ADDITIONAL INFORMATION AND DETAILS.

CONSTRUCTION NOTES FOR SIDEWALKS & DRIVEWAYS WITH CURB TYPE STREETS COMMERCIAL AREA	DRAWN BY: L. BRDECKA DATE DRAWN: 2-1-94	REVISED BY: L. BRDECKA DATE REVISED: 3-10-05
	APPROVED BY: L. HOOD DATE: 2-1-94	DRAWING NO. FBC-025B

FORT BEND COUNTY ENGINEERING DEPARTMENT

WHEN A COMMERCIAL SIDEWALK, DRIVEWAY, CURB OR GUTTER IS CONSTRUCTED, RECONSTRUCTED, OR DEMOLISHED, THE COUNTY RIGHT-OF-WAY FOR USE WITH CONCRETE OR ASPHALT CURB TYPE STREETS, USE SECTIONS APPLICABLE.

A. USE FOR ALL PROPOSED EXISTING CURB REMOVAL FOR DRIVEWAYS (PLAN VIEW NOT TO SCALE)

B. USE FOR ALL PROPOSED DRIVES ON CURBED TYPE STREETS

GENERAL NOTES:

- CONCRETE SHALL BE PORTLAND CEMENT CONCRETE FROM FORT BEND COUNTY AT EXISTING FACILITY TO BE BUILT, UNLESS OTHERWISE NOTED TO BE CONSTRUCTED.
- CONCRETE SHALL BE PORTLAND CEMENT CONCRETE FROM FORT BEND COUNTY AT EXISTING FACILITY TO BE BUILT, UNLESS OTHERWISE NOTED TO BE CONSTRUCTED.
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SIDEWALKS & DRIVEWAYS ON CURB TYPE STREETS COMMERCIAL AREA	DRAWN BY: J. METAROUS DATE DRAWN: 2-1-94	REVISED BY: J. METAROUS DATE REVISED: 4-7-09
	APPROVED BY: L. HOOD DATE: 2-1-94	DRAWING NO. FBC-025A

FORT BEND COUNTY ENGINEERING DEPARTMENT

SUMMARY OF LARGE SIGNS

BACKGROUND COLOR	SIGN DESIGNATION	SIGN	SIGN DIMENSIONS	REFLECTIVE SHEETING	SO FT	CALVANIZED STEEL SHEET SIZE	DRILLED HOLE DIA (LF)
Orange	G20-71		96" X 48"	Type B ₁ or C ₁	32	48" X 48" (2)	24" DIA (1)
Orange	G20-71		192" X 96"	Type B ₁ or C ₁	128	WB4B	16" X 17"

▲ See Note 6 Below

DEPARTMENTAL MATERIAL SPECIFICATIONS

PLYWOOD SIGN BLANKS	DMS-7190
ALUMINUM SIGN BLANKS	DMS-7180
SIGN FACE MATERIALS	DMS-8300

COLOR

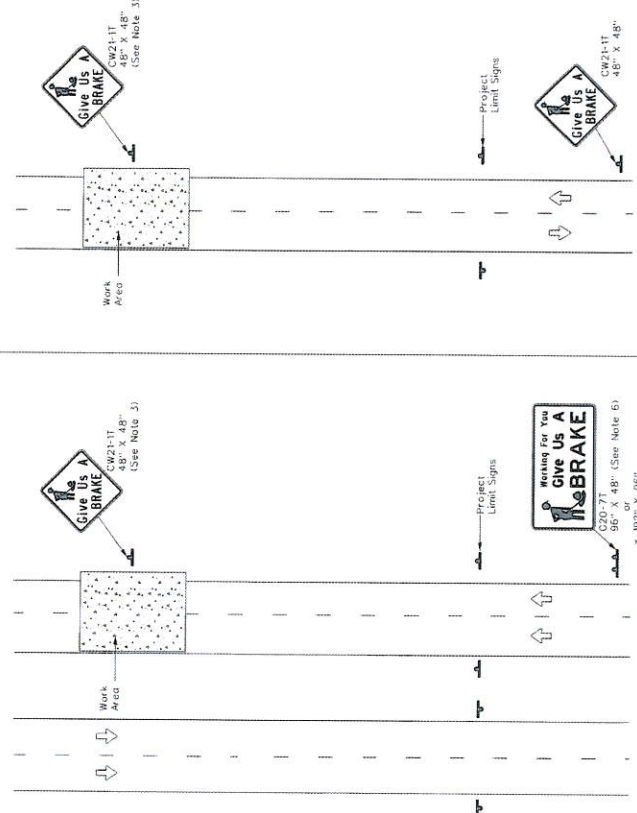
ORANGE BACKGROUND	TYPE B ₁ OR TYPE C ₁
BLACK LEGEND & BORDERS	NON-REFLECTIVE ACRYLIC FILM

LEGEND

	Sign
	Large Sign
	Traffic Flow

GENERAL NOTES

1. See BC and SMD sheets for additional sign support details.
2. Sign locations shall be approved by the Engineer.
3. For projects more than two miles in length, Give Us A BRAKE signs should be repeated halfway through the project. The Give Us A Brake (CW21-11) may be used for this purpose.
4. Work zone speed signs are sometimes used in conjunction with GIVE US A BRAKE signs. See BC(S) location and spacing of construction speed zone signing when required.
5. Give Us A Brake (CW21-11) signs and supports shall be considered secondary to Item 3021, Barricades, Signs and Traffic Handling.
6. The 96" X 48" Working For You Give Us A BRAKE (G20-71) may use a 1/2" or 5/8" plywood substrate or 0.125" aluminum sheeting substrate and may be supported by two wood posts with drilled holes for breakout as per BC(S) and will be secondary to Item 3021.
7. The Working For You Give Us A BRAKE (G20-71) 96" X 96" sign shall be paid for under the following specification items:
 Item 647 - Large Roadside Sign Supports and Assemblies.
 Item 416 - Drilled Sheet Foundations
8. All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Construction Manual" published by the Texas Department of Transportation before the sign is manufactured.



UNDIVIDED HIGHWAY

SIGNS ARE SHOWN FOR ONE DIRECTION OF TRAVEL

DIVIDED HIGHWAY

* When the optional larger working sign is required, the locations shall be noted elsewhere in the plans.

Texas Department of Transportation
 Traffic Operations Standard
 WORK ZONE
 "GIVE US A BRAKE"
 SIGNS
 WZ(BRK)-13

DATE	APPROVED	DATE
01/01/2013	[Signature]	01/01/2013

NEW TERRITORY BLDG
 CUNNINGHAM CREK BLDG (RECLAIMED EFFLUENT) RE-USED WATER LINE
 "GIVE US A BRAKE"
 SIGNS

Engineering and Surveying
 9900 Richmond Avenue, Suite 400 N
 Houston, Texas 77042
 (713) 783-7788 (713) 783-3580, Fax
 TBPE FIRM REG. No. 280
 TBPE FIRM REG. No. 100486



NO.	REVISION	DATE	BY

DESIGNED BY: [Signature]
 DESIGN CHECKED BY: [Signature]
 SURVEY CHECKED BY: [Signature]
 Q/A/C BY: [Signature] MTS S-6-16
 Q/A/C REVISIONS BY: [Signature]

APPROVED: [Signature] 32 SHEET OF 42 SHEETS JOB NO. 198020-142

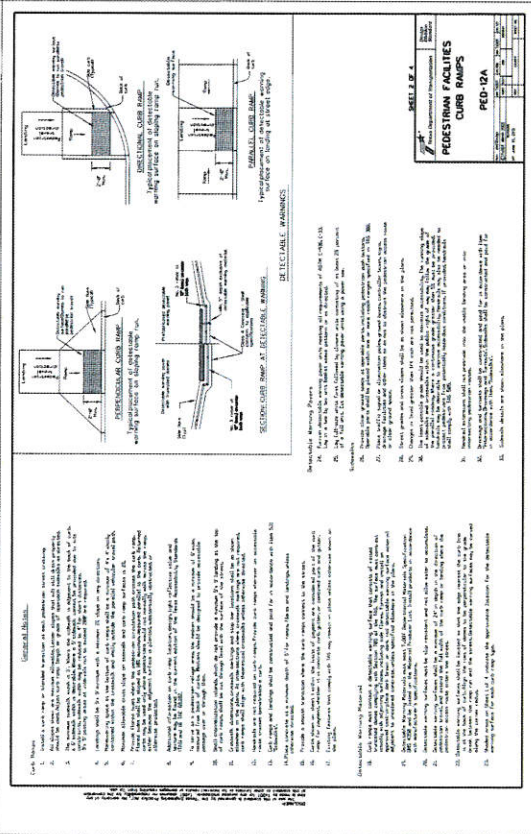
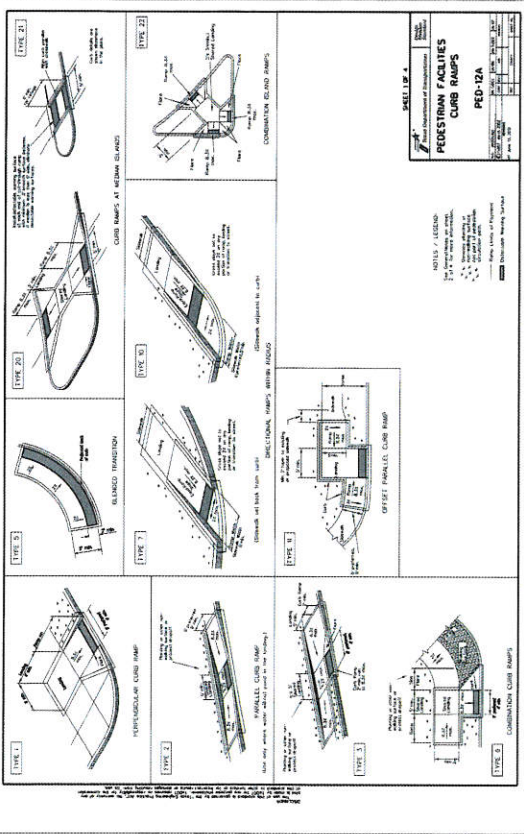
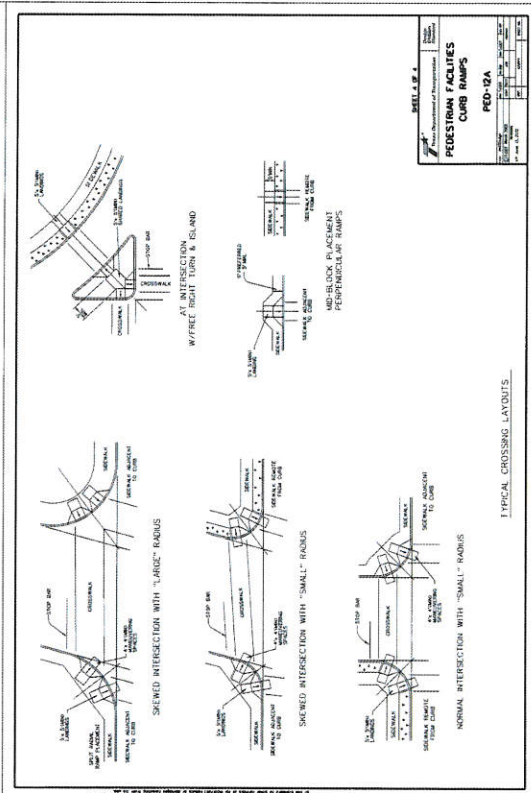
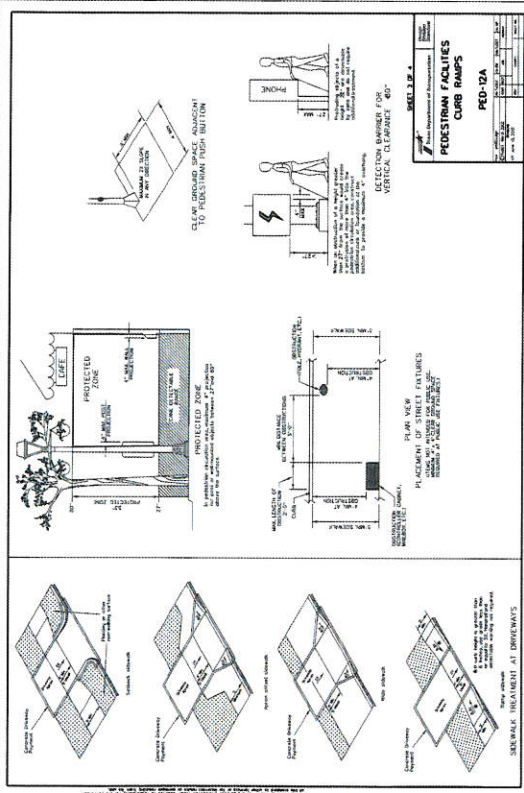


NEW TERRITORY BLVD. CUNNINGHAM BLVD. (RECLAIMED EFFLUENT RE-USED WATER LINE) PEDESTRIAN FACILITIES CURB RAMPS PED-12A

Engineering and Surveying 5880 Richmond Avenue, Suite 450 N Houston, Texas 77042 (713) 785-7788 (713) 785-3550, Fax (713) 785-7788 TBPUS FIRM REG. NO. 280 TBPUS FIRM REG. NO. 103486



DESIGNED BY: [Signature] CHECKED BY: [Signature] DRAWN BY: [Signature] SURVEY CHECKED BY: [Signature] DATE: 5-4-18 Q/A/QC REVISIONS BY: [Signature]



- 1. All paving shall be in accordance with the approved plans and specifications.
- 2. All paving shall be in accordance with the approved plans and specifications.
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- 15. All paving shall be in accordance with the approved plans and specifications.

ASPHALTIC CONCRETE PAVEMENT:

1. ASPHALTIC MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ASTM C 39, ASTM C 131, ASTM C 155, AND "HOT" STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES (1993) AND ITS LATEST REVISIONS. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH TxDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES (1993) AND ITS LATEST REVISIONS.
2. ALL CORE SAMPLES SHALL BE TAKEN AT RANDOM LOCATIONS PER 500 LF PER LANE OF ROADWAY OR ONE PER 20,000 SQ YD OF SURFACE AREA. CORES SHALL BE TAKEN AT RANDOM LOCATIONS PER 500 LF PER LANE OF ROADWAY OR ONE PER 20,000 SQ YD OF SURFACE AREA.
3. CORE SAMPLES SHALL BE TAKEN AT RANDOM LOCATIONS PER 500 LF PER LANE OF ROADWAY OR ONE PER 20,000 SQ YD OF SURFACE AREA.
4. DO NOT PLACE CEMENT ASPHALT PAVEMENT ON SOFT OR UNCONSOLIDATED SUBGRADE. THE SUBGRADE SHALL BE PROPERLY PREPARED AND COMPACTED TO THE REQUIRED FINISH GRADE.
5. DO NOT PLACE CEMENT ASPHALT PAVEMENT ON SOFT OR UNCONSOLIDATED SUBGRADE. THE SUBGRADE SHALL BE PROPERLY PREPARED AND COMPACTED TO THE REQUIRED FINISH GRADE.
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17. DO NOT PLACE CEMENT ASPHALT PAVEMENT ON SOFT OR UNCONSOLIDATED SUBGRADE. THE SUBGRADE SHALL BE PROPERLY PREPARED AND COMPACTED TO THE REQUIRED FINISH GRADE.

STABILIZED CRUSHED CONCRETE:

1. TEST AND ANALYSIS OF AGGREGATE AND FINISH MATERIALS WILL BE PERFORMED IN ACCORDANCE WITH ASTM 1067 AND 1068.
2. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH TxDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES (1993) AND ITS LATEST REVISIONS AND CITY OF SUGAR LAND STANDARDS.
3. DESIGN MIX FOR MINIMUM AVERAGE COMPRESSIVE STRENGTH OF 200 PSI IN 48 HRS. PROVIDE MINIMUM CURB CONTENT OF 2.5% PER TON OF MIX. CURB CONTENT MAY BE RAISED AT THE CONTRACTOR'S EXPENSE IF TESTS ON THREE SAMPLES SHALL BE MADE EACH DAY FOR EACH 300 TONS OF PRODUCTION. COMPRESSIVE STRENGTH SHALL BE THE AVERAGE OF THREE TESTS FOR EACH PRODUCTION LOT. CONTRACTOR SHALL REPLACE AT HIS OWN EXPENSE. CONTRACTOR SHALL VERIFY UNITS, WATER, AND COMPACTED SUBGRADING AS READY TO RECEIVE MATERIALS PRIOR TO ITS PLACEMENT.
4. PLACEMENT OF MIX SHALL BE MADE IN LIFTS EXCEEDING 6 INCHES IN DEPTH. EACH LIFT SHALL HAVE ENDSITES TAKEN. CURB STABILIZED BASE SHALL NOT BE INSTALLED IN WET OR SOFT AREAS.
5. AFTER COMPACTING FINAL COURSE, GRADE SURFACE TO FINAL GRADE. ANY IRREGULARITIES, HOLES, SPOTS, AREAS OF EXCESSIVE WEAR, OR SURFACE IMPURITIES SHALL BE REPAIRED AND/OR REPLACED AT CONTRACTOR'S EXPENSE.
6. A CERTIFIED LAB SHALL BE ON SITE AT ALL TIMES TO TEST AND PROPERLY DOCUMENT THE CONSTRUCTION METHODS AND QUALITY OF MATERIALS.
7. MATERIALS SHALL BE PREPARED IN ACCORDANCE WITH ASTM D 1558 OR ASTM D 1559 AND ASTM D 3017 AT RANDOMLY SELECTED LOCATIONS AS DIRECTED BY CITY OF SUGAR LAND CONSTRUCTION INSPECTOR.
8. CURB FOR A MINIMUM OF 7 DAYS BEFORE ADDING ASPHALT PAVEMENT COURSES.
9. CURB FOR A MINIMUM OF 7 DAYS BEFORE ADDING ASPHALT PAVEMENT COURSES.
10. CURB FOR A MINIMUM OF 7 DAYS BEFORE ADDING ASPHALT PAVEMENT COURSES.
11. ALLOWING MOISTURE TO FULLY CURE PRIOR TO PERMITTING TRAFFIC TO DRIVE ON IT.
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19. ALLOWING MOISTURE TO FULLY CURE PRIOR TO PERMITTING TRAFFIC TO DRIVE ON IT.
20. ALLOWING MOISTURE TO FULLY CURE PRIOR TO PERMITTING TRAFFIC TO DRIVE ON IT.

STORM SEWER NOTES:

1. STORM SEWERS SHALL BE DESIGNED AND CONSTRUCTED WITH CITY OF SUGAR LAND STANDARD DETAILS SHEET AND LATEST REVISIONS AND IN ACCORDANCE WITH CITY OF SUGAR LAND STANDARD DETAILS SHEET AND LATEST REVISIONS.
2. ALL STORM SEWERS SHALL BE INSTALLED, BEDDED, AND BACKFILLED IN ACCORDANCE WITH CITY OF SUGAR LAND STANDARD DETAILS SHEET AND LATEST REVISIONS.
3. ALL STORM SEWERS SHALL BE 18" DIA. UNLESS OTHERWISE NOTED AND WITH MINIMUM C.S.S. OF 150 PSI.
4. ALL STORM SEWERS SHALL BE 18" DIA. UNLESS OTHERWISE NOTED AND WITH MINIMUM C.S.S. OF 150 PSI.
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8. ALL STORM SEWERS SHALL BE 18" DIA. UNLESS OTHERWISE NOTED AND WITH MINIMUM C.S.S. OF 150 PSI.
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10. ALL STORM SEWERS SHALL BE 18" DIA. UNLESS OTHERWISE NOTED AND WITH MINIMUM C.S.S. OF 150 PSI.
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20. ALL STORM SEWERS SHALL BE 18" DIA. UNLESS OTHERWISE NOTED AND WITH MINIMUM C.S.S. OF 150 PSI.

SANITARY SEWER NOTES:

1. SANITARY SEWERS, FORCE MAINS, MANHOLES, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH CITY OF SUGAR LAND STANDARD DETAILS SHEET AND LATEST REVISIONS AND IN ACCORDANCE WITH CITY OF SUGAR LAND STANDARD DETAILS SHEET AND LATEST REVISIONS.
2. ALL SANITARY SEWERS SHALL BE 18" DIA. UNLESS OTHERWISE NOTED AND WITH MINIMUM C.S.S. OF 150 PSI.
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WATER DISTRIBUTION NOTES:

1. WATER MAINS, WATER SERVICE LINES AND ASSOCIATED APPURTENANCES SHALL BE DESIGNED AND CONSTRUCTED AS PER REQUIREMENTS OF THE CITY OF SUGAR LAND DESIGN STANDARDS AND SPECIFICATIONS FOR WATER MAINS, WATER SERVICE LINES AND ASSOCIATED APPURTENANCES.
2. ALL WATER MAINS SHALL BE 18" DIA. UNLESS OTHERWISE NOTED AND WITH MINIMUM C.S.S. OF 150 PSI.
3. ALL WATER MAINS SHALL BE 18" DIA. UNLESS OTHERWISE NOTED AND WITH MINIMUM C.S.S. OF 150 PSI.
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NO.	DATE	REVISION



DATE: 1-15-2016



CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT

CONSTRUCTION PLANS FOR
[PROJECT NAME]

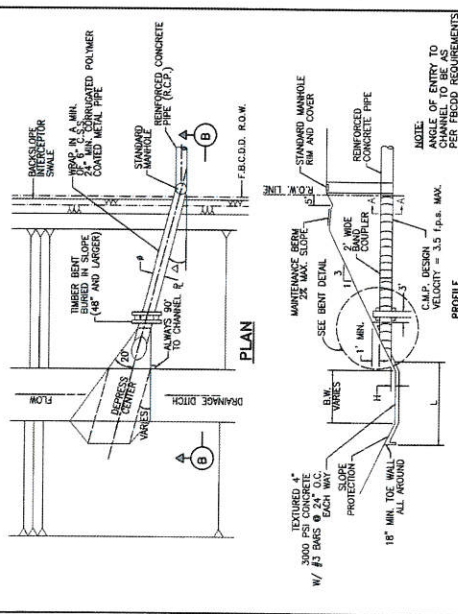
GENERAL CONSTRUCTION NOTES II

SL-02
DATE: 3/4/16

4/15/16



TRIPLE PINE, INC. 280
TRIPLE PINE, INC. 10000



SECTION (B)

STORM SEWER OUTFALL

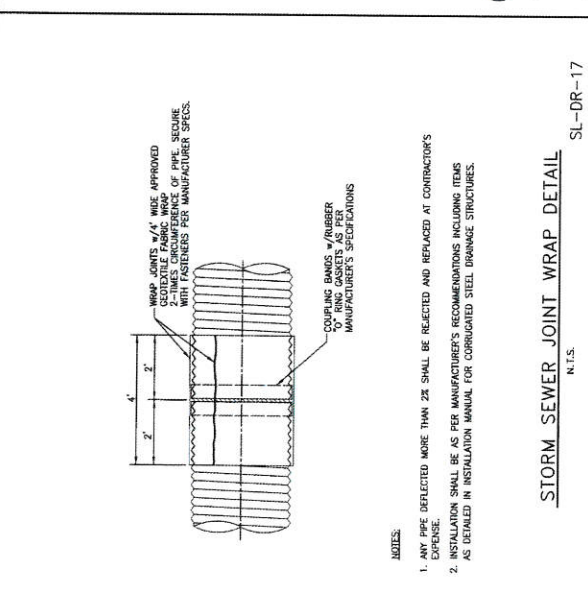
N.T.S.

SL-DR-15

NOTE: OF ENTRY TO CHANNEL TO BE AS PER F.C.C.D. REQUIREMENTS

NOTE: OF ENTRY TO CHANNEL TO BE AS PER F.C.C.D. REQUIREMENTS

NOTE: OF ENTRY TO CHANNEL TO BE AS PER F.C.C.D. REQUIREMENTS



PROFILE

STORM SEWER JOINT WRAP DETAIL

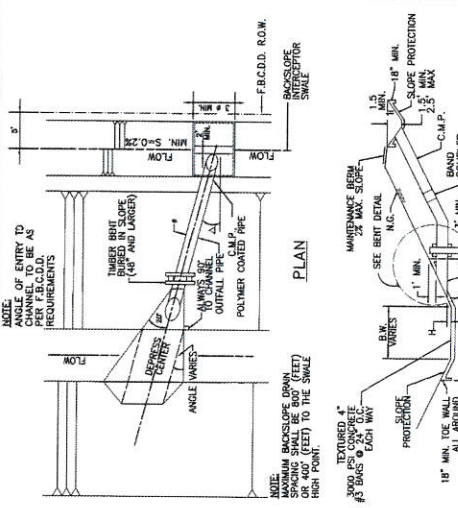
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SL-DR-17

NOTE: OF ENTRY TO CHANNEL TO BE AS PER F.C.C.D. REQUIREMENTS

NOTE: OF ENTRY TO CHANNEL TO BE AS PER F.C.C.D. REQUIREMENTS

NOTE: OF ENTRY TO CHANNEL TO BE AS PER F.C.C.D. REQUIREMENTS



PROFILE

BACKSLOPE INLET & OUTFALL

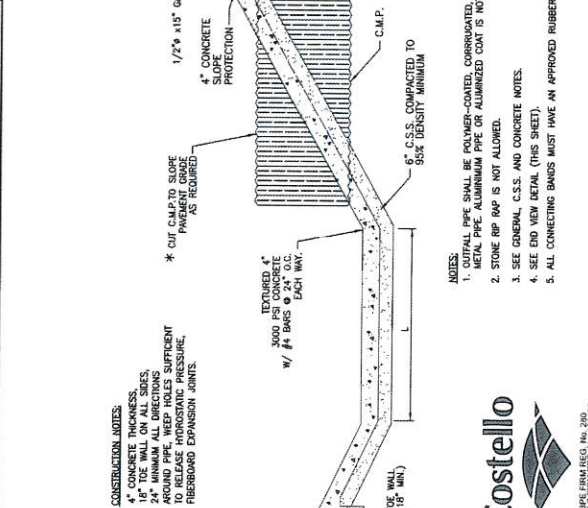
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SL-DR-16

NOTE: OF ENTRY TO CHANNEL TO BE AS PER F.C.C.D. REQUIREMENTS

NOTE: OF ENTRY TO CHANNEL TO BE AS PER F.C.C.D. REQUIREMENTS

NOTE: OF ENTRY TO CHANNEL TO BE AS PER F.C.C.D. REQUIREMENTS



PROFILE

BACKSLOPE INLET & OUTFALL

N.T.S.

SL-DR-16

NOTE: OF ENTRY TO CHANNEL TO BE AS PER F.C.C.D. REQUIREMENTS

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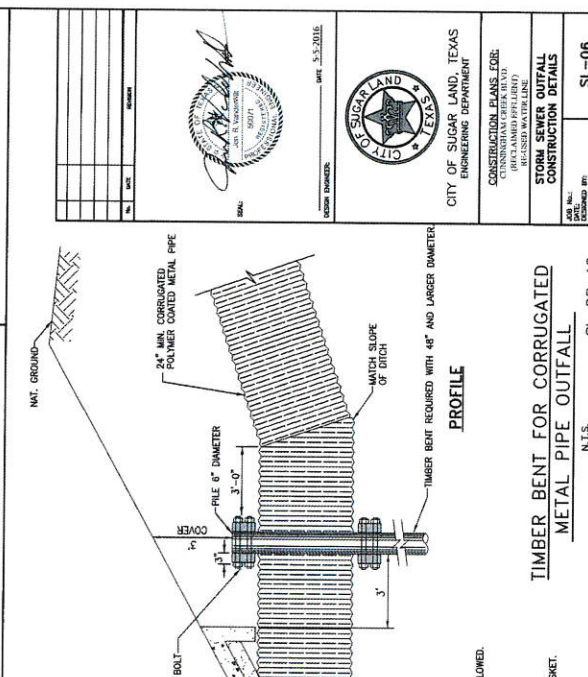
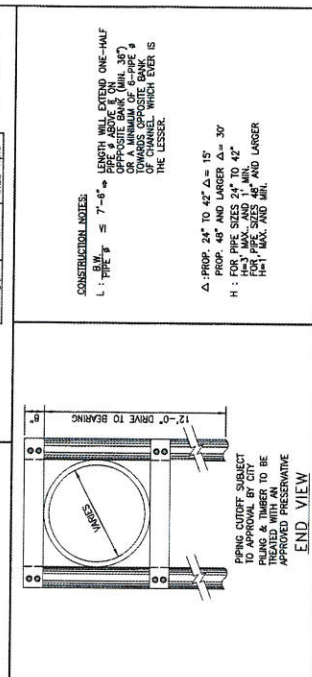
TABLE A

SIZE CORRUGATION	PIPE GAUGE	PIPE COUPLER GAUGE	PIPE SIZE 3X1 CORRUGATION	PIPE GAUGE	BAND COUPLER GAUGE
24"	12	16	18	12	16
30"	12	16	18	12	16
36"	12	16	18	12	16
42"	12	16	18	12	16
48"	12	16	18	12	16
54"	12	16	18	12	16
60"	12	16	18	12	16
66"	10	12	14	10	12
72"	10	12	14	10	12
78"	8	10	12	8	10
84"	8	10	12	8	10

TABLE B

PIPE DIA.	VELOCITY
36"	3.00 F.P.S.
42"	2.75 F.P.S.
48"	2.50 F.P.S.
54"	2.25 F.P.S.

SL-DR-19



END VIEW

BACKSLOPE INLET & OUTFALL

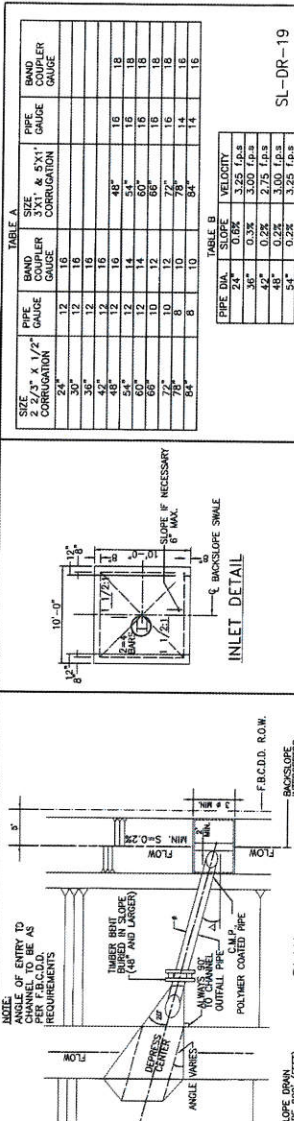
N.T.S.

SL-DR-16

NOTE: OF ENTRY TO CHANNEL TO BE AS PER F.C.C.D. REQUIREMENTS

NOTE: OF ENTRY TO CHANNEL TO BE AS PER F.C.C.D. REQUIREMENTS

NOTE: OF ENTRY TO CHANNEL TO BE AS PER F.C.C.D. REQUIREMENTS



PROFILE

STORM SEWER JOINT WRAP DETAIL

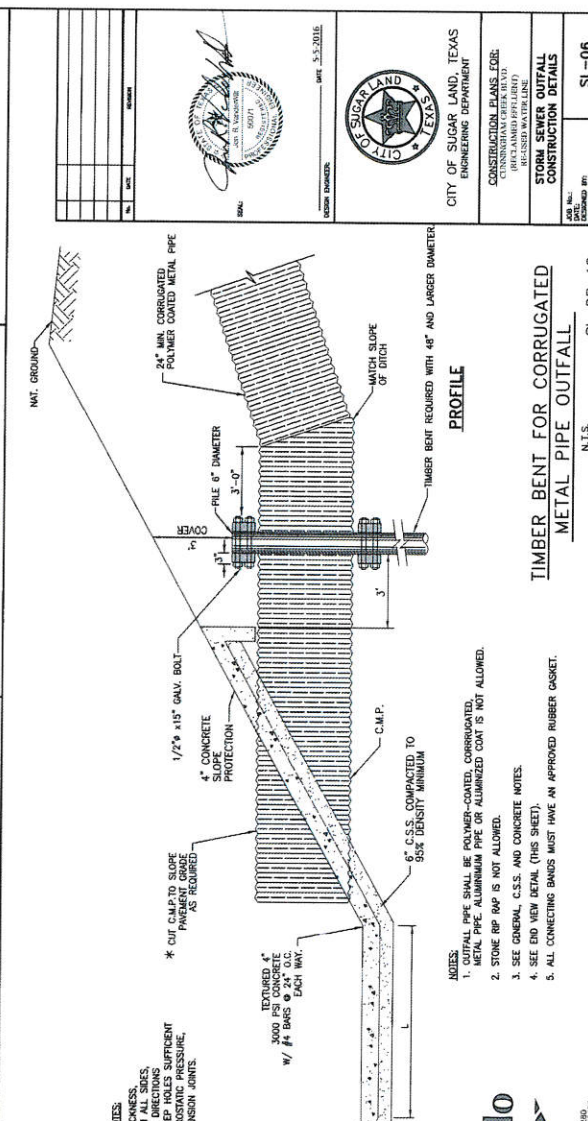
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SL-DR-17

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NOTE: OF ENTRY TO CHANNEL TO BE AS PER F.C.C.D. REQUIREMENTS



PROFILE

STORM SEWER JOINT WRAP DETAIL

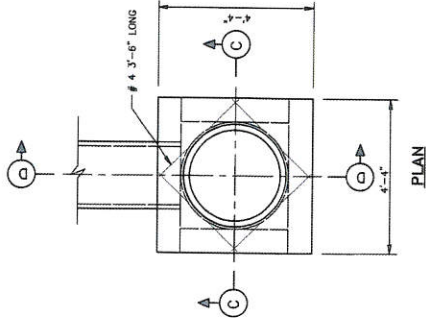
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SL-DR-17

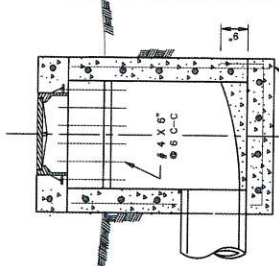
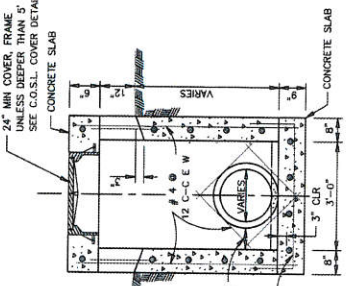
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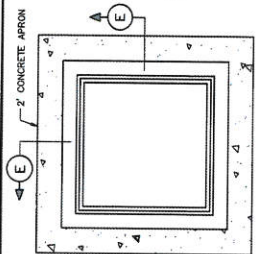
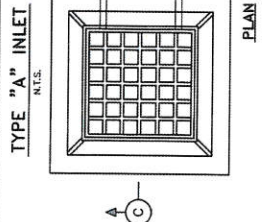
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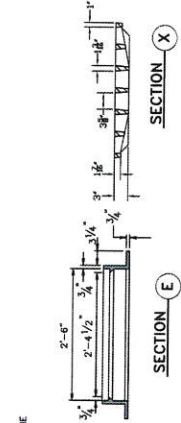
SECTION C
TYPE "E" INLET
N.T.S.



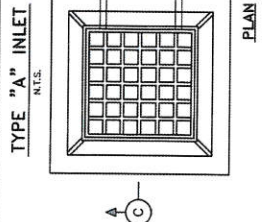
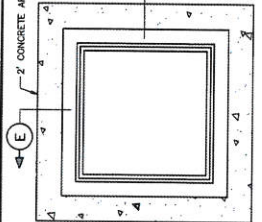
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SL-DR-22



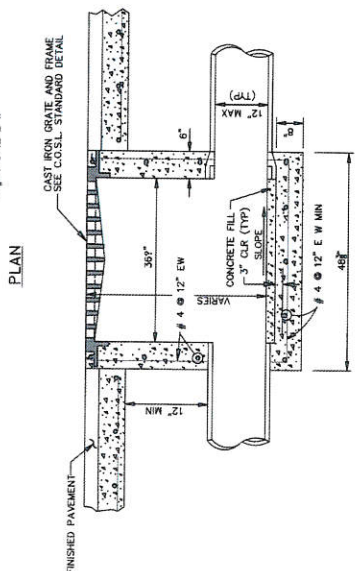
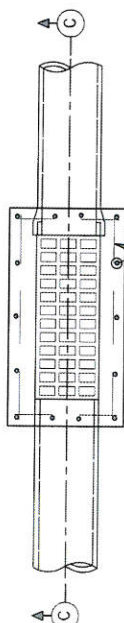
SECTION E
SL-DR-23



SECTION X



SECTION A



SECTION C
SL-DR-24

SECTION D
TYPE "D" INLET



DATE: 5.5.2016



CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT

CONSTRUCTION PLANS FOR
CUNNINGHAM CENTER BLVD.
RE-USE WATER LINE

STORM SEWER INLET
CONSTRUCTION DETAILS 1

SL-07
Sheet 36 of 42



TYPE FROM REG. NO. 290
TBR'S FROM REG. NO. 10088

GENERAL CONSTRUCTION NOTES:
1. CONCRETE CAST WALLS SHALL HAVE #4 REBAR PLACED @ 12" C-C EW.
2. GRATE LID IS EAST JORDAN IRON WORKS OR APPROVED EQUAL

REFER TO:
1. GENERAL NOTES, C.S.S. &
CONCRETE NOTES.
2. STORM SEWER NOTES

Maggi - u 1/15/16

POLYETHYLENE WRAP FOR IRON PIPE

NOTES:

1. POLYETHYLENE WRAP SHALL BE USED TO PROTECT CAST IRON AND OTHER METALS IN A CORROSION RESISTANT MANNER.
2. A 6 MIL POLYETHYLENE WRAP SHALL BE REQUIRED AROUND ALL METAL JOINTS AND APPLICABLE (EXCEPT FIRE HYDRANTS).
3. POLYETHYLENE WRAP SHALL BE APPLIED TO THE PIPE FROM PRIOR TO LAMING THE PIPE IN TRENCH OR IN SILENT TRENCH.
4. POLYETHYLENE WRAP ENCASEMENT SHALL COMPLY WITH THE MINIMUM REQUIREMENTS FOR WRAP AND THROUGHT BLOCKS AND JOINTS AS SET FORTH IN THE CONSTRUCTION PLANS FOR WATER AND SEWER LINES AND APPROVED BY THE ENGINEER. APPROVED BY THE ENGINEER AND APPROVED BY THE CITY ENGINEER. APPROVED BY THE CITY ENGINEER.
5. APPROVED BY THE CITY ENGINEER.

SIZE	18"	20"	24"	30"	36"	42"	48"	54"	60"	72"	84"	96"
A	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
B	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
C	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
D	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
E	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
F	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
G	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
H	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
I	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
J	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
K	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
L	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
M	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
N	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
O	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
P	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
Q	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
R	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
S	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
T	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
U	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
V	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
W	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
X	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
Y	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"
Z	12"	14"	16"	18"	21"	24"	27"	30"	33"	36"	42"	48"

BENDS, TEES & PLUGS FOR PIPE OF VARIOUS SIZES.

SL-WA-08

NO.	DATE	REVISION



DATE 5.5.2016



CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT

CONSTRUCTION PLANS FOR
(UNDESIGNED PROJECTS)

CONSTRUCTION DETAILS

SL-15
Sheet 37 of 42

Maggy

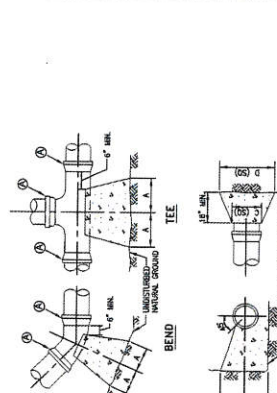


TYPE FROM REC. No. 290
TYPE FROM REC. No. 100456

SL-WA-08

CONSTRUCTION NOTES:

1. WATER LINES 12" (IN) AND LESS SHALL BE 60% C-900 DIPS (BENT) USE 60% (IN) 12" (IN) 6" SHALL BE 60% C-900 OR 18"
2. ALL FURNISHING VALVES AND GATE VALVES TO BE AMERICAN WATER WORKS ASSOC. (AWWW)
3. ALL VALVES SHALL BE COMPACTED TO 95% RELATIVE DENSITY WITH 2" (IN) SIZES SHALL BE ALLOWED AND ALL GATE VALVE FITTINGS SHALL BE AMERICAN AND FABRICATED ON MECHANICAL JOINTS.
4. ALL BOWTIE WITHIN THE BLOCK SHALL BE COMPACTED TO 95% STANDARD PROCTOR
5. MINIMUM SPACING BETWEEN LIPS SHALL BE 2" AT ALTERNATING 1/4 ANGLES.

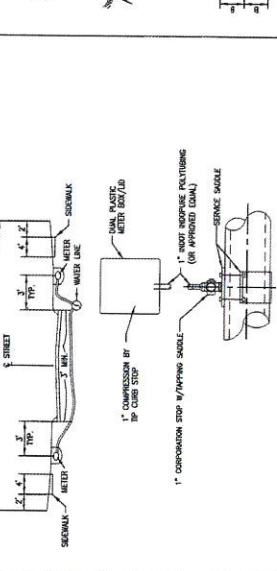
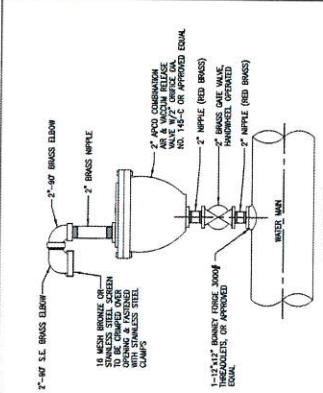


SL-WA-05

AIR RELEASE VALVE DETAIL

N.T.S.

SL-WA-06

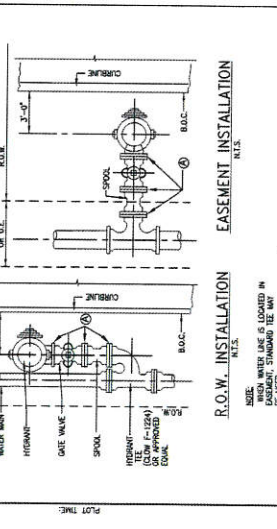
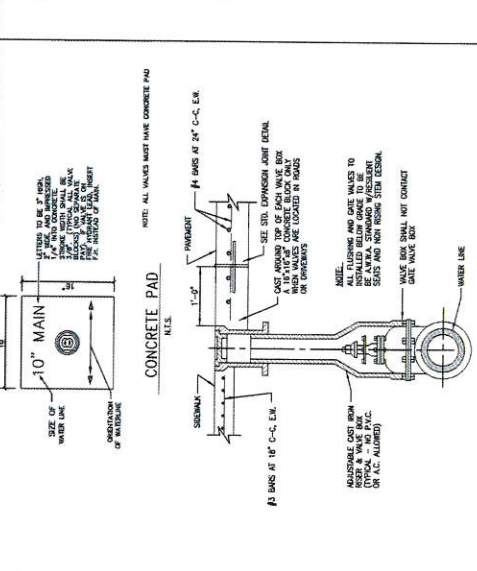


SL-WA-03

SL-WA-04

VALVE BOX INSTALLATION DETAIL

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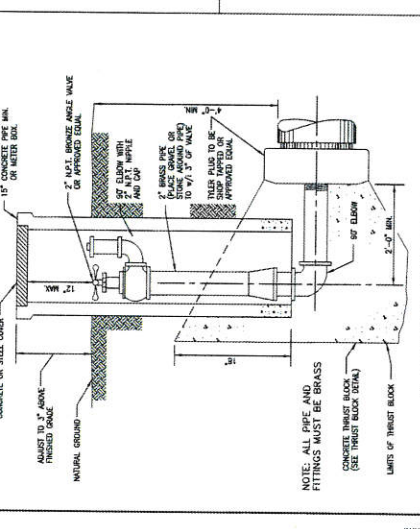


SL-WA-01

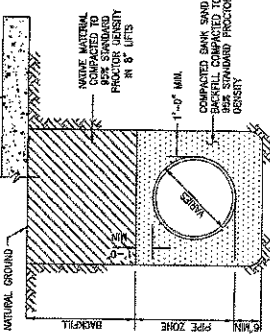
SL-WA-02

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N.T.S.



SL-WA-02

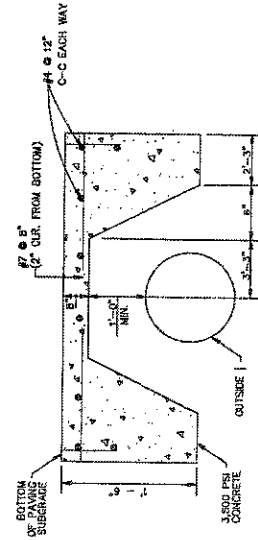


P.V.C. PIPE BEDDING & BACKFILL

SEE CONSTRUCTION NOTES

SANITARY FORCE MAIN & WATER LINE BEDDING AND BACKFILL

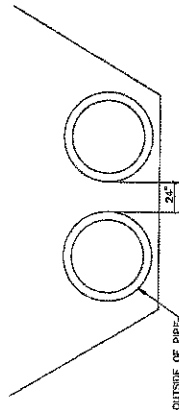
SL-BB-01



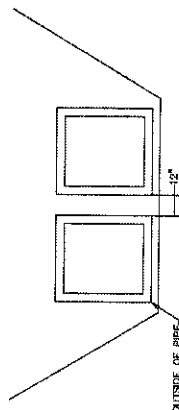
PROTECTIVE SLAB DETAIL

ZERO LOAD TRANSFER CONCRETE SLAB

SL-BB-04



PIPE SEPARATION



RCB SEPARATION

- CONSTRUCTION NOTES**
1. CONTRACTOR SHALL CONTACT SUGAR LAND ENGINEERING DEPARTMENT IMMEDIATELY IF WET SAND CONDITIONS ARE ENCOUNTERED.
 2. LUMSTONE AND RECYCLED CONCRETE EMANATING FROM ARE TYPICAL BUT MAY BE VARIED BY ORDER OF CITY ENGINEER.
 3. LUMSTONE OR RECYCLED CONCRETE SHALL BE IN ACCORDANCE WITH TxDOT SPECIFICATION NO. 248 TABLE BASE, TYPE 'A' GRADE 2, AGGREGATE.
 4. NO BEDDING SHALL BE INSTALLED IN WET CONDITIONS WHEN WELL POINTING OR IN WET SAND CONDITIONS. MAXIMUM GROUND WATER 1 (FT) POSITION INDICATOR FOR A MINIMUM OF 24-HRS AFTER BEDDING AND BACKFILL IS IN USE.
 5. ALL MATERIALS SHALL BE FROM THE APPROVED PRODUCTS LIST UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER.
 6. SANITARY SEWER BEDDING FOR NET SAND CONDITIONS SHALL BE AS PER ADDENDUM 'A'.
 7. ALL SAND BEDDING FOR WATER LINES SHALL BE CLEAN, MECHANICALLY COMPACTED BANK SAND.
 8. REFER TO: MANHOLE DETAILS, SANITARY, C.S.S., GENERAL, WATER CROSSING, WATER DISTRIBUTION DETAILS AND NOTES.
 9. ALL BEDDING WILL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
 10. A GEOTECHNICAL REPORT MAY BE REQUIRED TO ANALYZE THE BEARING CAPACITY OF EXISTING SOILS AND MAKE A DETERMINATION IF ADDITIONAL BEDDING AND BACKFILL IS APPROPRIATE.

SL-BB-05



TYPE FIRM REG. NO. 280
TBPLES FIRM REG. NO. 100868

NO.	DATE	REVISION



CADSW: BRENDA
DATE: MAY 25, 2016



CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT

CONSTRUCTION PLANS FOR:
CENTROVALLEY CREEK BLVD.
RECYCLED MATERIALS

**WATER LINE, SANITARY SEWER
FORCE MAIN BEDDING DETAILS**

DATE: MAY 25, 2016
DRAWN BY: BRENDA
CHECKED BY: BRENDA
SCALE: AS SHOWN

SL-BB-03

REFER TO:

1. GENERAL NOTES
2. C.S.S. NOTES

NOTE: C.S.S. SHALL BE INSTALLED A MIN. 1' ABOVE TOP OF PIPE.

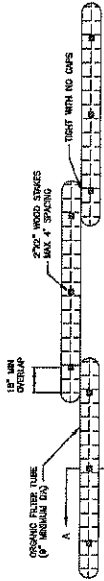
MODIFIED "A"
M.T.S.

SANITARY SEWER BEDDING AND BACKFILL

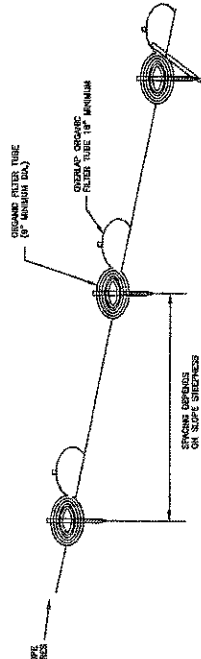
Magruder 4/18/16

ORGANIC FILTER TUBES NOTES

1. TYPE OF METAL FILTER MATERIAL, DIAMETER OF TUBE AND SPACING OF TUBES SHALL BE SPECIFIED BY THE DESIGNER BASED ON THE FOLLOWING:
 - TYPE OF SOIL
 - SIZE OF CONTRIBUTING UPLAND AREA
 - SOIL TYPE
 - SOIL COHESION (SOIL OR PACKING)
2. DESIGNER SHALL SHOW ON THE DRAWINGS THE LOCATIONS WHERE TUBES ARE TO BE TURNED UP/SLOPE LAPPING SHALL BE MINIMUM OF 10 FEET.



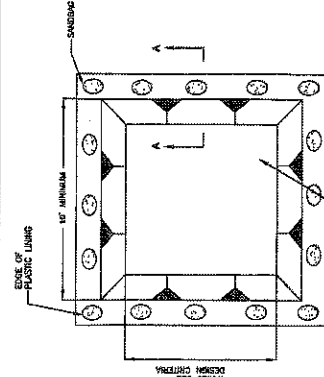
ORGANIC FILTER TUBE PERIMETER CONTROL PLAN VIEW N.T.S.



ORGANIC FILTER TUBE PERIMETER CONTROL PROFILE N.T.S.

FOR SLOPES OF 2:1 OR GREATER, A SECOND ROW AGAINST THE DOWN-SLOPE FACE OF THE TUBE MAY BE REQUIRED DEPENDING ON SOIL TYPE.

FILTER TUBE N.T.S.

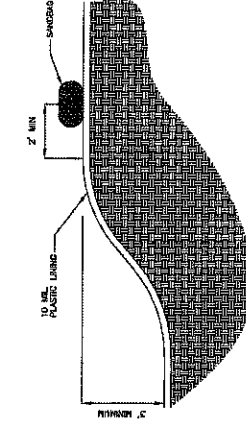


CONCRETE WASHOUT PLAN VIEW N.T.S.

CONCRETE WASHOUT NOTES

1. SWABBERS SHALL BE REPLACED BY A SIL BEAM TO ANCHOR THE PLASTIC BAG.

CONCRETE WASHOUT AREA N.T.S.



CONCRETE WASHOUT SECTION A-A N.T.S.



CONSTRUCTION PLANS FOR RELEASED WATER LINES

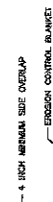
CITY OF SUGAR LAND, TEXAS ENGINEERING DEPARTMENT



DATE: 05-22-2018
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]

CONSTRUCTION PLANS FOR RELEASED WATER LINES
 EROSION CONTROL DETAILS - 2
 SL-35
 SHEET 12 OF 42

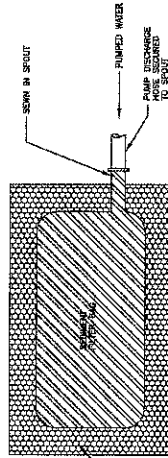
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EROSION CONTROL BLANKETS N.T.S.

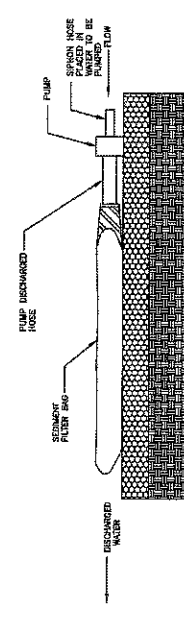
STAPLES (TYPE) 1/2 INCH ON CENTER AT JOBS AND SPACING RECOMMENDED BY MANUFACTURER.

3\"/>



SEDIMENT FILTER BAG PLAN VIEW N.T.S.

USE ONLY STRAIN OR OTHER PREPARED FILTER BAG PER MANUFACTURER'S RECOMMENDATIONS.



SEDIMENT FILTER BAG PROFILE N.T.S.

NOTE: A FILTRATION BAG IS NOT REQUIRED IF THE DRAINAGE SYSTEM CAN BE ADEQUATELY PROTECTED.

DEWATERING CONTROLS N.T.S.