



**REVIEW BY FORT BEND COUNTY
COMMISSIONERS COURT**

**Fort Bend County
Engineering Department**
301 Jackson Suite 401
Richmond, Texas 77469
281.633.7500
Permits@fortbendcountytexas.gov

☒

Right of Way Permit

☐

Commercial Driveway Permit

Permit No: 2017-14598

Applicant: G&A Boring Direccional/Costello, Inc.

Job Location Site: several streets in New Territory , Sugar Land, TX 77479

Bond No. CMB-15203-00 **Date of Bond:** 5/8/2017 **Amount:** \$50,000.00

The above applicant came to make use of certain Fort Bend County property subject to, "The 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, of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistent with Chapter 181, Vernon's Texas Statutes and Codes Annotated.

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, submit notification to Permit Administrator thru MyGovernmentOnline.org portal.
3. This permit expires one (1) year from date of permit if construction has not commenced.

On this 11th day of July, 2017, 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.

Signature

By:

Charles O. Ay

fa County Engineer

N/A

By:

Drainage District Engineer/Manager

Presented to Commissioners Court and approved.

Date Recorded _____ Comm. Court No. _____

Clerk of Commissioners Court

By:

Deputy



**PERMIT APPLICATION REVIEW FORM FOR
CABLE, CONDUIT, AND POLE LINE ACTIVITY
IN FORT BEND COUNTY**

**Fort Bend County
Engineering Department**
301 Jackson Suite 401
Richmond, Texas 77469
281.633.7500
Permits@fortbendcountytexas.gov

☒

Right of Way Permit

☐

Commercial Driveway Permit

Permit No: 2017-14598

The following "Notice of Proposed Cable, Conduit, and/or Pole Line activity in Fort Bend County" and accompanying attachments have been reviewed and the notice conforms to appropriate regulations set by Commissioner's Court of Fort Bend County, Texas.

(1) COMPLETE APPLICATION FORM:

☒

a. Name of road, street, and/or drainage ditch affected.

☒

b. Vicinity map showing course of directions

☒

c. Plans and specifications

(2) BOND:

☐

County Attorney, approval when applicable.

☒

Perpetual bond currently posted.

Bond No: CMB-15203-00

Amount: \$50,000.00

☐

Performance bond submitted.

Bond No:

Amount:

☐

Cashier's Check

Check No:

Amount:

(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):

Drainage District Approval

Date

We have reviewed this project and agree it meets minimum requirements.

Charles O. Al

Permit Administrator

6/30/17

Date

PORT BEND COUNTY LID 3



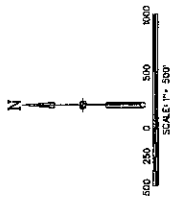
6.4. STANDARD POWER
6.4. UNDERGROUND ELECTRICAL
6.4. GAS LINE

APPROVED: [Signature] DATE: 12/16/16
 SHEET 3 OF 36
 JOB NO. 1585880-148



LEGEND

- PROPOSED RE-USED WATER LINE
- PROPOSED RE-USED WATER LINE (BY OTHERS)
- EXISTING RE-USED WATER LINE (BY OTHERS)

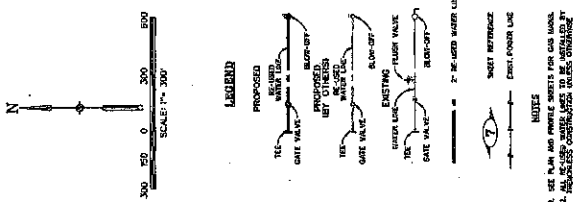


Engineering and Surveying
 8880 Richmond Avenue, Suite 450 N
 Houston, Texas 77062
 (713) 782-7788 (713) 782-5566 Fax
 INFO@COSTELLOINC.COM
 T812-277-0000 FAX 1-800-688

NEW TERRITORY
 EAST HOMETOWN WAY
 RECLAIMED EFFLUENT RE-USED WATER LINE
 OVERALL LAYOUT

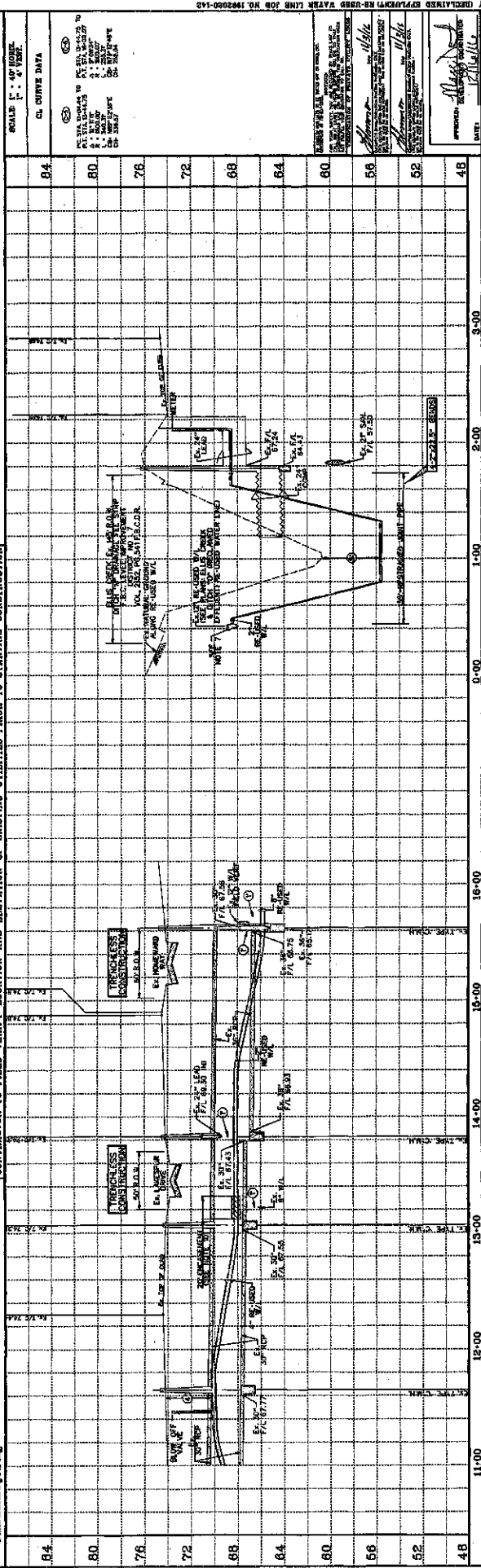
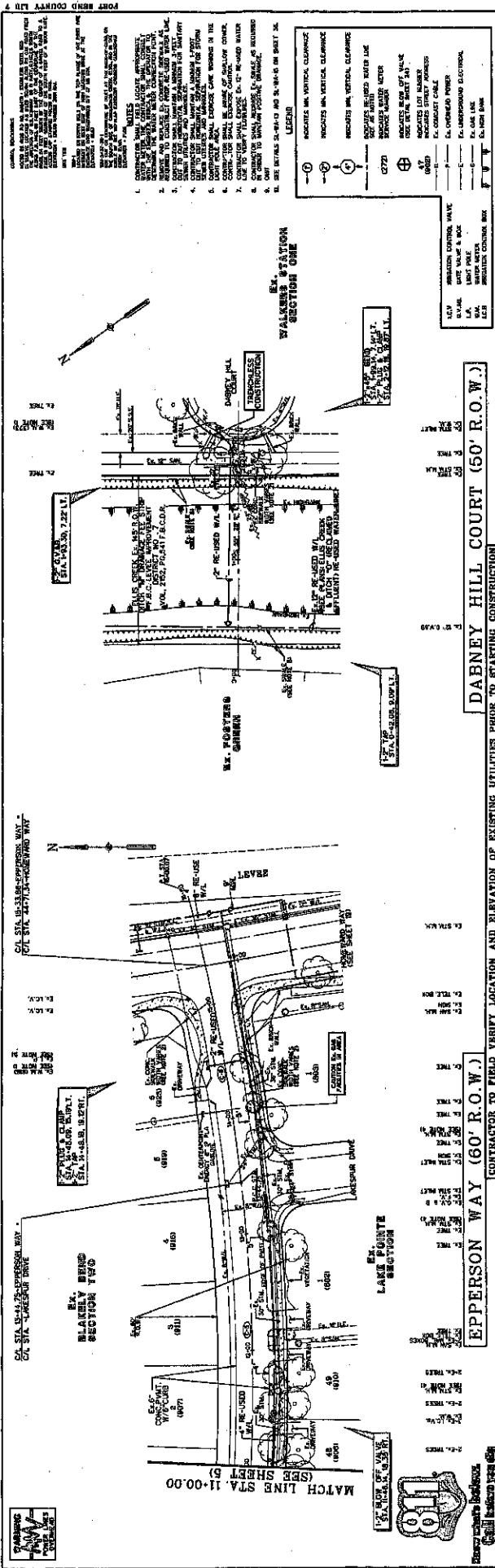
DESIGNED BY: O.A.
 DRAWN BY: J.A.V.
 CHECKED BY: [Signature]
 DATE: 12/16/16

NO.	REVISION	DATE	BY



Engineering and Surveying
89950 Richmond Avenue, Suite 450 N
Houston, Texas 77042
(713) 783-7768 (713) 783-3580, Fax
TBPE FIRM REG. No. 280
TBPLS FIRM REG. No. 100486

[illegible]



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

DABNEY HILL COURT (50' R.O.W.)

EPPLER WAY (60' R.O.W.)

LAKE POINTE SECTION

WALKERS STATION SECTION ONE

NEW TERRITORY

EAST HONOLULU WAY

(RECLAIMED EFFLUENT RE-USED WATER LINE)

EPPLER WAY

STA 11+00.00 TO STA 16+00.00

AND DABNEY HILL COURT

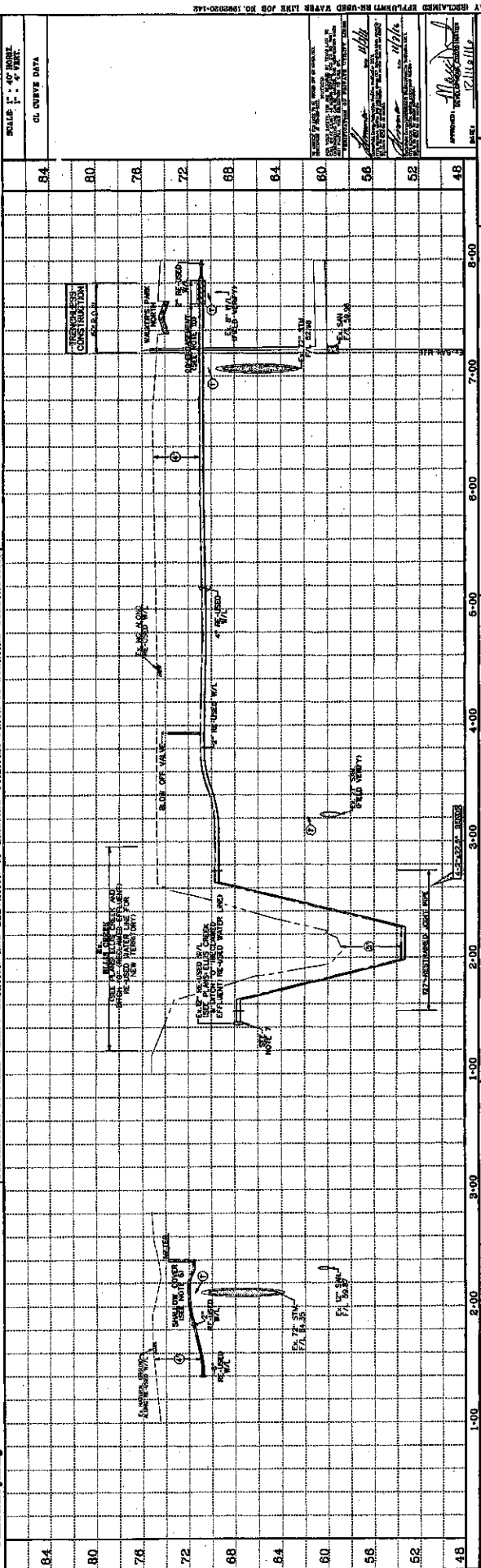
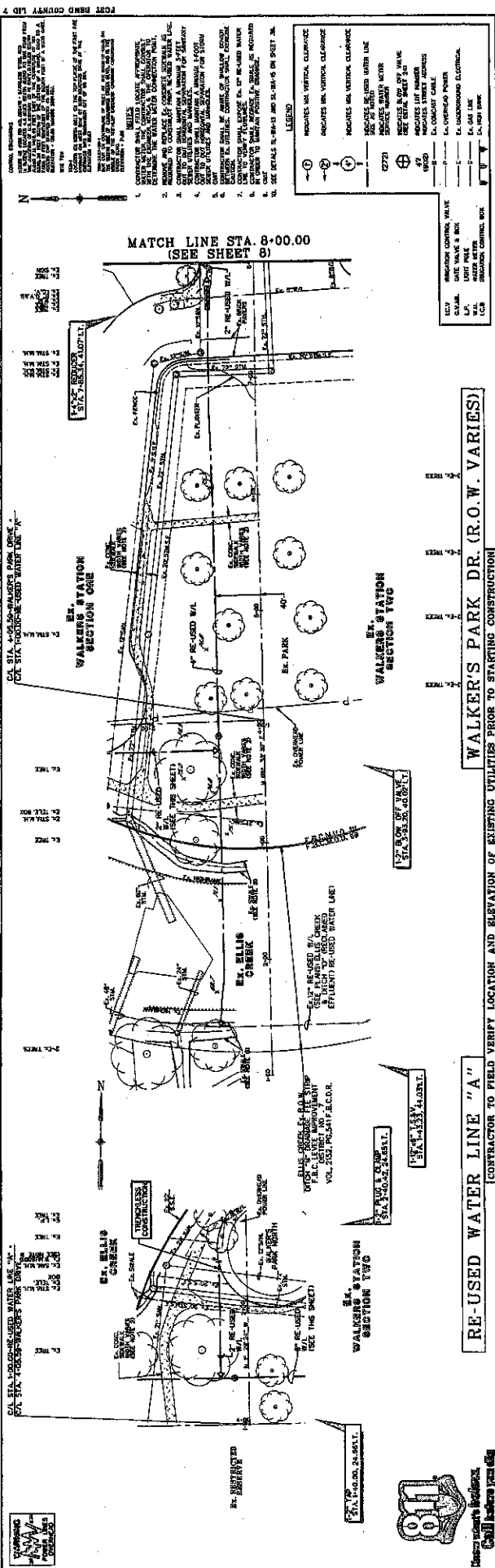
Engineering and Surveying
9900 Richmond Avenue, Suite 450 N
Houston, Texas 77025
(713) 755-7788 (713) 755-7789 Fax
TDC PROJECT NO. 200
TDC PROJECT NO. 10000

Costello

DESIGNED BY: **Costello**
CHECKED BY: **Costello**
SURVEY CHECKED BY: **Costello**
DATE: **12-1-11**
DATE: **12-1-11**

DESIGNED BY: **Costello**
CHECKED BY: **Costello**
SURVEY CHECKED BY: **Costello**
DATE: **12-1-11**
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CHECKED BY: **Costello**
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DATE: **12-1-11**
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RE-USED WATER LINE "A"
CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION

WALKER'S PARK DR. (R.O.W. VARIES)

RE-USED WATER LINE "B"
CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION

WALKER'S PARK DR. (R.O.W. VARIES)

Engineering and Surveying
9900 Richmond Avenue, Suite 400 N
(713) 783-7788 (713) 783-3580, Fax
TRESPASS REG. NO. 280
TRUST FIRM REG. NO. 10089

Costello

APPROVED BY: *[Signature]*
DATE: 12/18/16
SHEET 7

APPROVED BY: *[Signature]*
DATE: 12/18/16
SHEET 36

PROJECT: RE-USED WATER LINE "A" AND "B"
SHEET: 36 OF 36
DATE: 12/18/16
DRAWN BY: JAV
CHECKED BY: JAV
SURVEY CHECKED BY: JAV
DATE: 12/18/16
Q/C BY: JAV
Q/C BY: JAV

PROJECT: RE-USED WATER LINE "A" AND "B"
SHEET: 36 OF 36
DATE: 12/18/16
DRAWN BY: JAV
CHECKED BY: JAV
SURVEY CHECKED BY: JAV
DATE: 12/18/16
Q/C BY: JAV
Q/C BY: JAV

PORT BOUND COUNTY AID 7

CA STA 8+00.00 TO 8+50.00 WATER LINE "B"
CA STA 8+50.00 TO 9+00.00 WATER LINE "B"

EX. SUMMIT COVE

EX. LAKE SANTIAGO

EX. LAKE SANTIAGO

EX. LAKE SANTIAGO

EX. LAKE SANTIAGO

EX. LAKE SANTIAGO

EX. LAKE SANTIAGO

NOTES

1. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES.
3. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES.
4. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES.
5. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES.
6. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES.

LEGEND

- 1. EXISTING WATER LINE
- 2. EXISTING WATER LINE
- 3. EXISTING WATER LINE
- 4. EXISTING WATER LINE
- 5. EXISTING WATER LINE
- 6. EXISTING WATER LINE

EX. LAKE SANTIAGO

EX. LAKE SANTIAGO

EX. LAKE SANTIAGO

EX. LAKE SANTIAGO

EX. LAKE SANTIAGO

EX. LAKE SANTIAGO

EX. LAKE SANTIAGO

EX. LAKE SANTIAGO

RE-USED WATER LINE "B"

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

WALKER'S PARK DR. (R.O.W. VARIES)

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

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

REVISION

DATE

BY

REVISION

DATE

BY

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

DESIGNED BY: 2-1-1
DESIGN CHECKED BY: [Signature]
DRAWN BY: [Signature]
SURVEY CHECKED BY: [Signature]
DATE: 11-1-11
SCALE: 1"=40' HORIZ.
DATE: 11-1-11

REVISION

NO. DATE BY

1 11-1-11 [Signature]

2 11-1-11 [Signature]

3 11-1-11 [Signature]

4 11-1-11 [Signature]

5 11-1-11 [Signature]

6 11-1-11 [Signature]

7 11-1-11 [Signature]

8 11-1-11 [Signature]

9 11-1-11 [Signature]

10 11-1-11 [Signature]

11 11-1-11 [Signature]

12 11-1-11 [Signature]

13 11-1-11 [Signature]

14 11-1-11 [Signature]

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REVISION

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DATE: 11-1-11
SCALE: 1"=40' HORIZ.
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REVISION

NO. DATE BY

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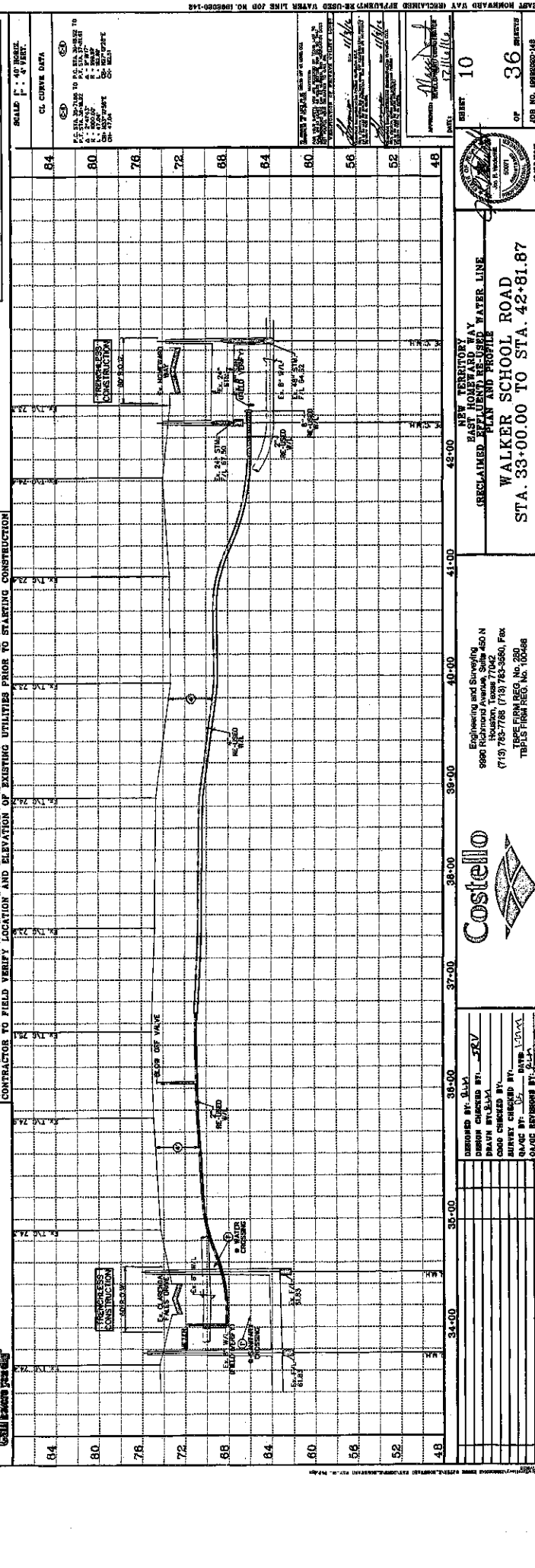
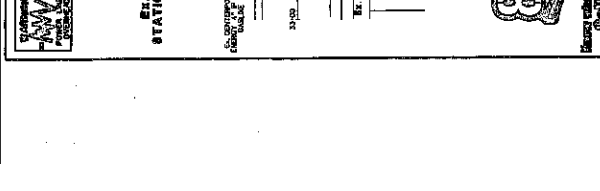
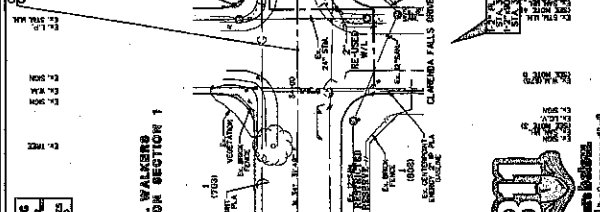
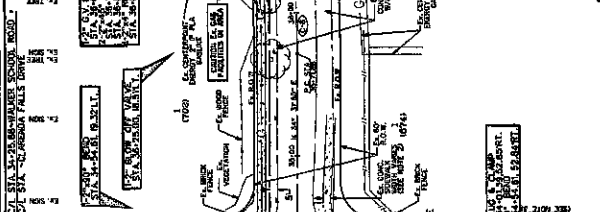
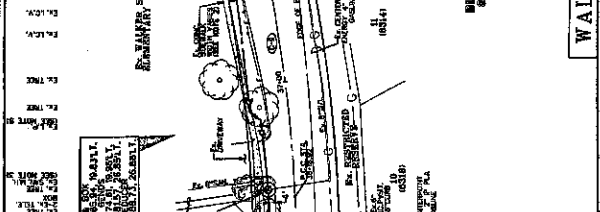
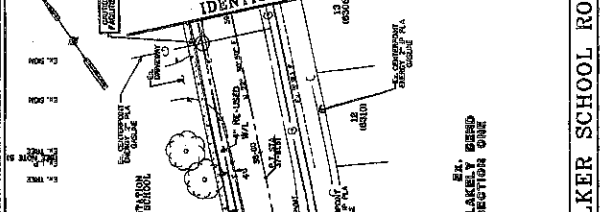
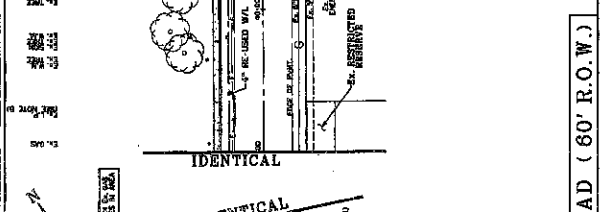
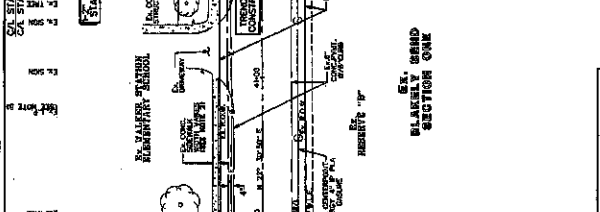
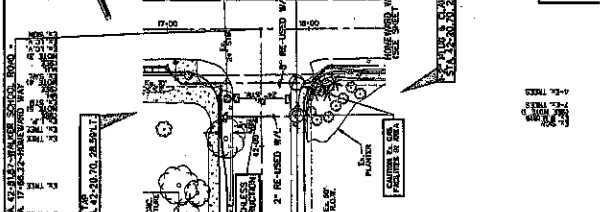
12 11-1-11 [Signature]

13 11-1-11 [Signature]

14 11-1-11 [Signature]

PORT BEND COUNTY, TEXAS
 PROJECT NO. 100820-148
 DATE: 12/11/16

- NOTES:**
1. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
 2. ALL NEW CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES.
 3. ALL NEW CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION OF UTILITIES.
 4. ALL NEW CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION OF STRUCTURES.
 5. ALL NEW CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION OF EARTHWORK.



APPROVED: *[Signature]*
 DATE: 12/11/16
 SHEET NO. 10
 OF 36
 JOB NO. 100820-148

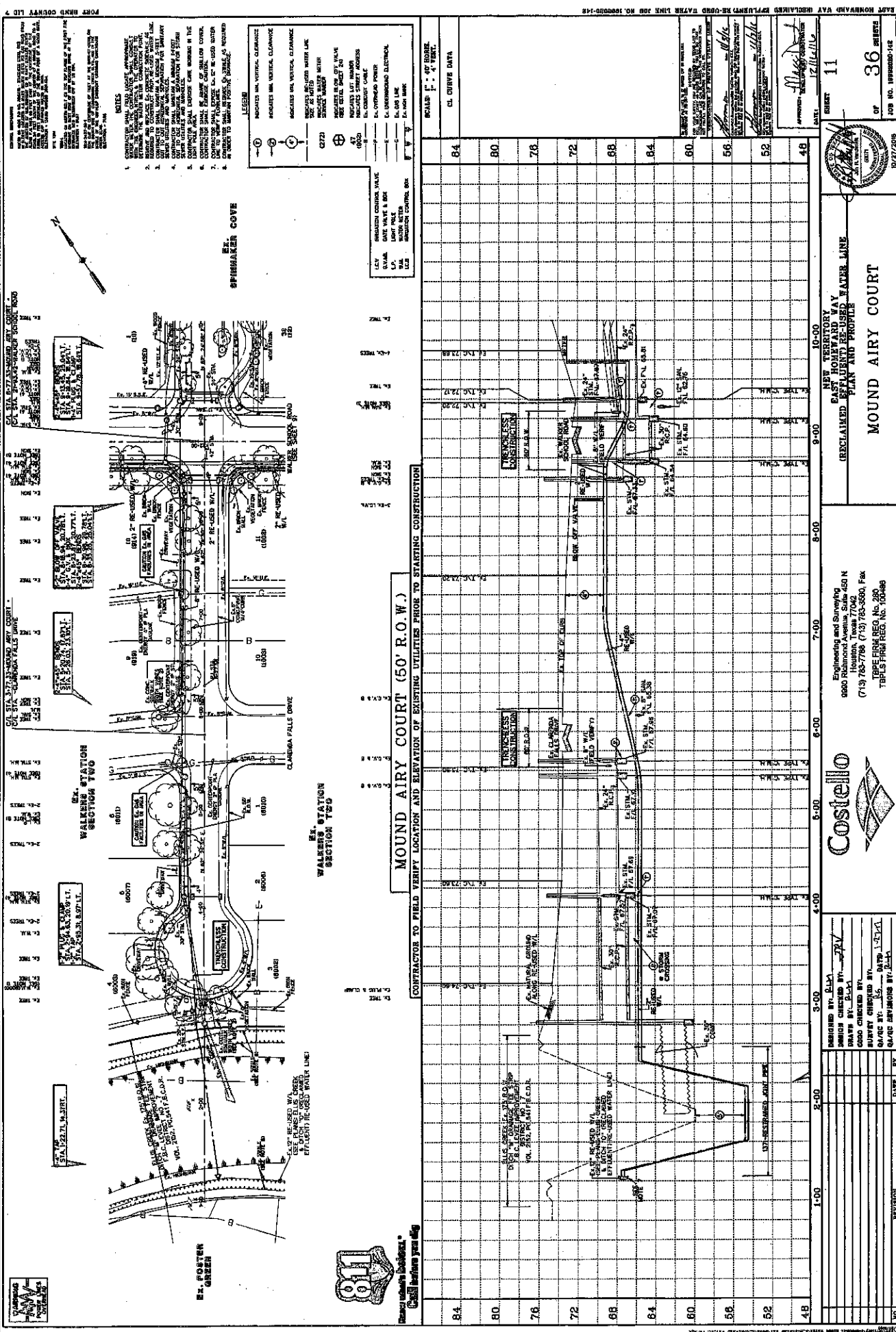
NEW TERRITORY
 EAST HOUSTON ROAD
 (RECLAIMED AFFLUENT RE-USED WATER LINE)
 WALKER SCHOOL ROAD
 STA. 33+00.00 TO STA. 42+81.87

Engineering and Surveying
 9880 Richmond Avenue, Suite 450 N
 Houston, Texas 77042
 (713) 785-7788 (713) 785-3860 Fax
 TBS FIRM REG. NO. 280
 TBS FIRM REG. NO. 18088



DRAWN BY: BLS
 DESIGN CHECKED BY: JRV
 CONSTRUCTION CHECKED BY: JRV
 SURVEY CHECKED BY: JRV
 Q.A.C. BY: JRV
 Q.A.C. EXTENSIONS BY: JRV

NO.	REVISION	DATE	BY



NOTES

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE CALIFORNIA STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, LATEST EDITIONS OF THE CALIFORNIA STANDARD SPECIFICATIONS FOR STRUCTURES, AND THE LATEST EDITIONS OF THE CALIFORNIA STANDARD SPECIFICATIONS FOR MATERIALS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
5. THE CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE AND EROSION CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PROCESS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS AND MATERIALS FROM THE SITE.
7. THE CONTRACTOR SHALL MAINTAIN ADEQUATE ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

LEGEND

- MANHOLE
- CATCH BASIN
- SPRINKLER COVE
- CLANESIA FALLS DRIVE
- WALKERS STATION SECTION TWO
- SPRINKLER COVE
- CLANESIA FALLS DRIVE
- WALKERS STATION SECTION TWO

EX. POSTER GREEN

EX. SPARKER COVE

EX. WALKERS STATION SECTION TWO

EX. CLANESIA FALLS DRIVE

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

MOUND AIRY COURT (50' R.O.W.)

CL DRIVE DATA

STATION	ELEVATION
84	84
80	80
78	78
72	72
68	68
64	64
60	60
56	56
52	52
48	48

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

APPROVED: [Signature]

DATE: 12/11/11

SHEET 11

OF 36 SHEETS

JOB NO. 100000-110

Costello

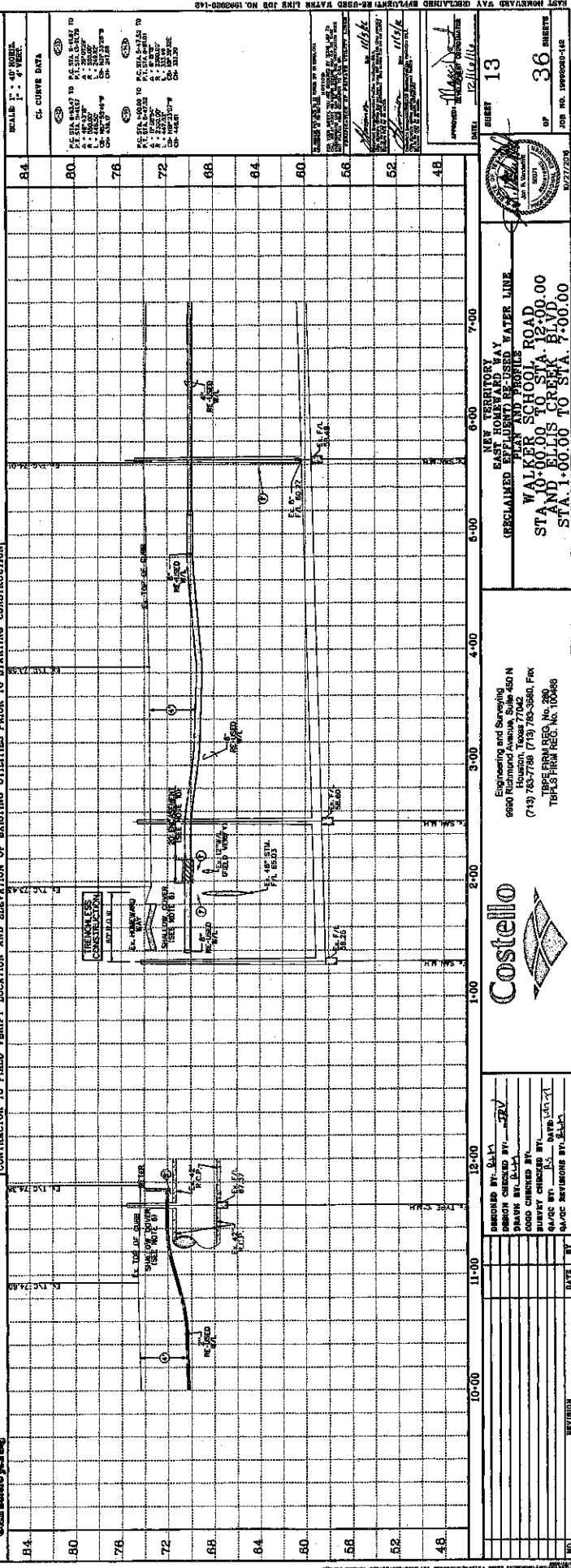
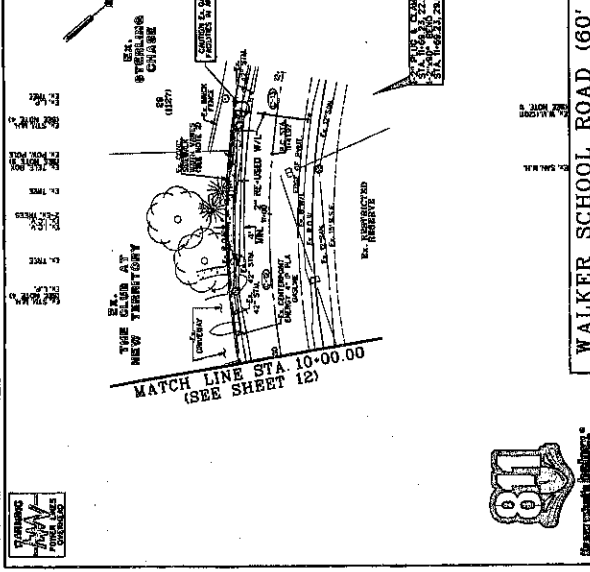
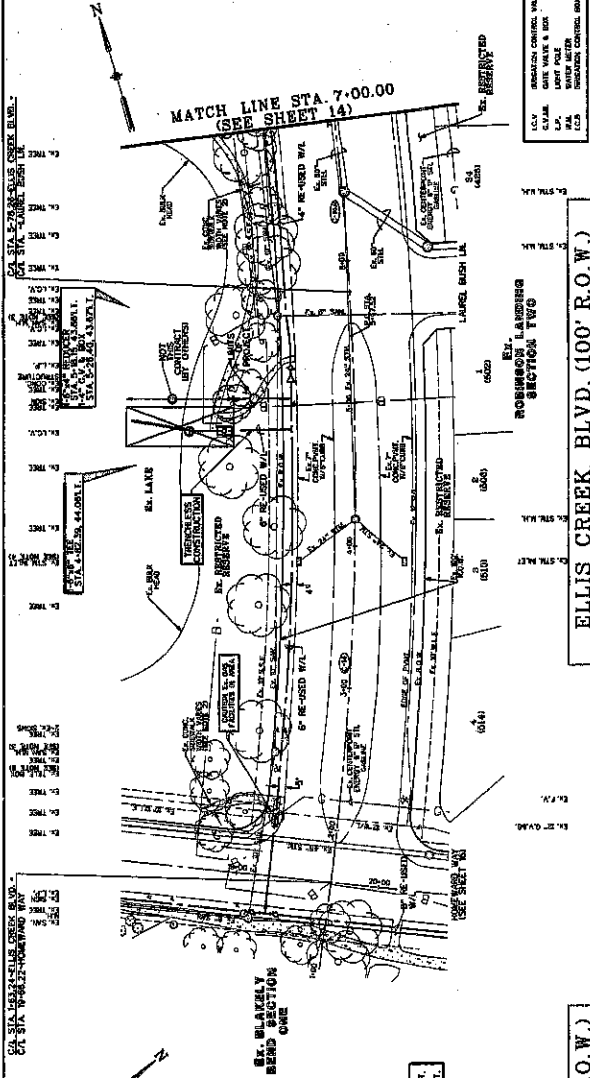
Engineering and Surveying
6000 Highway 99, Suite 100
Folsom, CA 95630
(916) 783-7788 (713) 783-3500 Fax
TYPE ERS REG. NO. 380
TBL'S FRM REG. NO. 100486

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
SURVEY CHECKED BY: [Signature]
DATE: 12/11/11

REVISION

NO.	DATE	BY
1	12/11/11	[Signature]

CONTRACTOR'S NOTES:
 1. ALL UTILITIES SHOWN ARE BASED ON RECORD DRAWINGS AND FIELD SURVEY.
 2. ALL UTILITIES SHALL BE DEEPENED TO A MINIMUM OF 48" BELOW FINISHED GRADE.
 3. ALL UTILITIES SHALL BE PROTECTED BY A MINIMUM OF 18" OF CONCRETE OR 24" OF R.C.P.
 4. ALL UTILITIES SHALL BE PROTECTED BY A MINIMUM OF 18" OF CONCRETE OR 24" OF R.C.P.
 5. ALL UTILITIES SHALL BE PROTECTED BY A MINIMUM OF 18" OF CONCRETE OR 24" OF R.C.P.
 6. ALL UTILITIES SHALL BE PROTECTED BY A MINIMUM OF 18" OF CONCRETE OR 24" OF R.C.P.
 7. ALL UTILITIES SHALL BE PROTECTED BY A MINIMUM OF 18" OF CONCRETE OR 24" OF R.C.P.
 8. ALL UTILITIES SHALL BE PROTECTED BY A MINIMUM OF 18" OF CONCRETE OR 24" OF R.C.P.
 9. ALL UTILITIES SHALL BE PROTECTED BY A MINIMUM OF 18" OF CONCRETE OR 24" OF R.C.P.
 10. ALL UTILITIES SHALL BE PROTECTED BY A MINIMUM OF 18" OF CONCRETE OR 24" OF R.C.P.



NO.	REVISION	DATE	BY
1	DESIGNED BY: S.A.V.		
2	CHECKED BY: S.A.V.		
3	DESIGNED BY: S.A.V.		
4	CHECKED BY: S.A.V.		
5	DESIGNED BY: S.A.V.		
6	CHECKED BY: S.A.V.		
7	DESIGNED BY: S.A.V.		
8	CHECKED BY: S.A.V.		
9	DESIGNED BY: S.A.V.		
10	CHECKED BY: S.A.V.		

DESIGNED BY: S.A.V.

CHECKED BY: S.A.V.

DESIGNED BY: S.A.V.

CHECKED BY: S.A.V.

DESIGNED BY: S.A.V.

CHECKED BY: S.A.V.

DESIGNED BY: S.A.V.

CHECKED BY: S.A.V.

DESIGNED BY: S.A.V.

CHECKED BY: S.A.V.

13

36

10/1/14

10/1/14

10/1/14

10/1/14

10/1/14

10/1/14

10/1/14

10/1/14

WALKER SCHOOL ROAD

STATION 0+00.00 TO STA. 10+00.00

AND ELLIS CREEK BLVD.

STATION 0+00.00 TO STA. 10+00.00

Costello

Engineering and Surveying

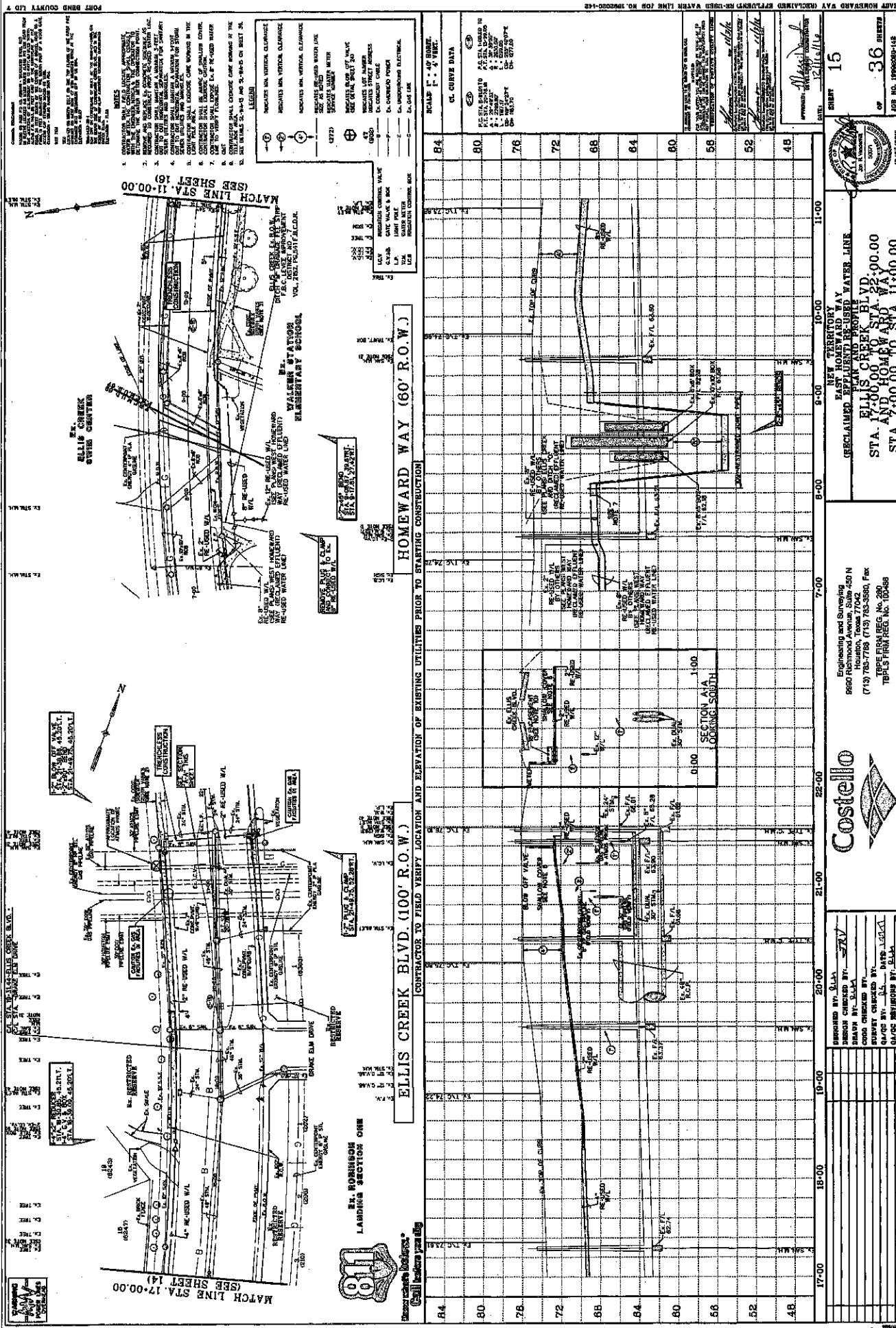
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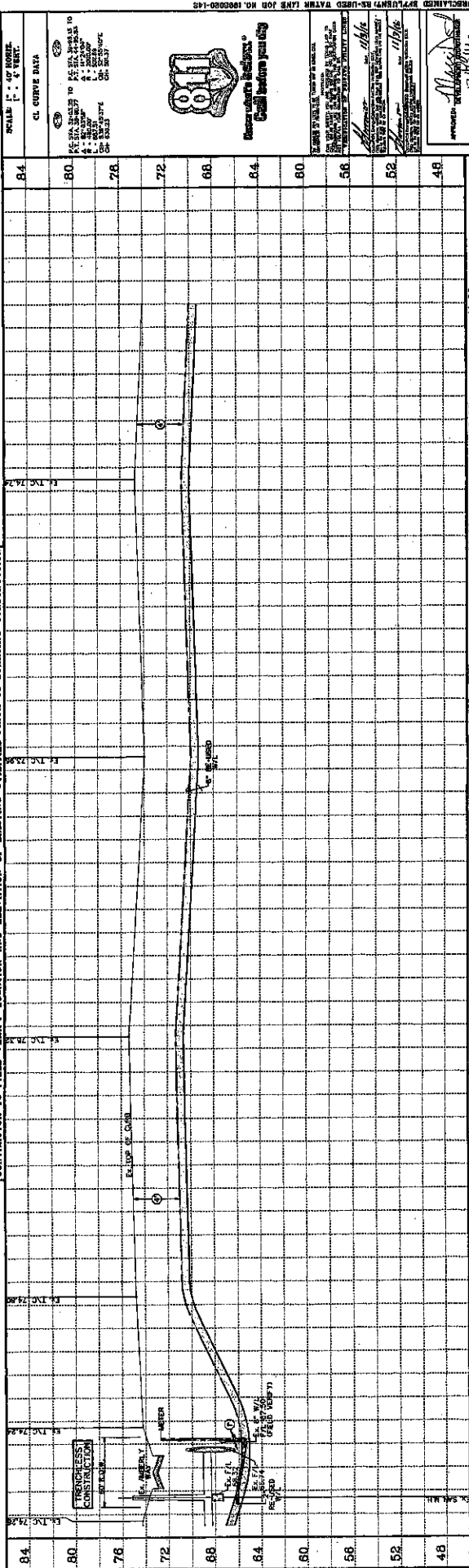
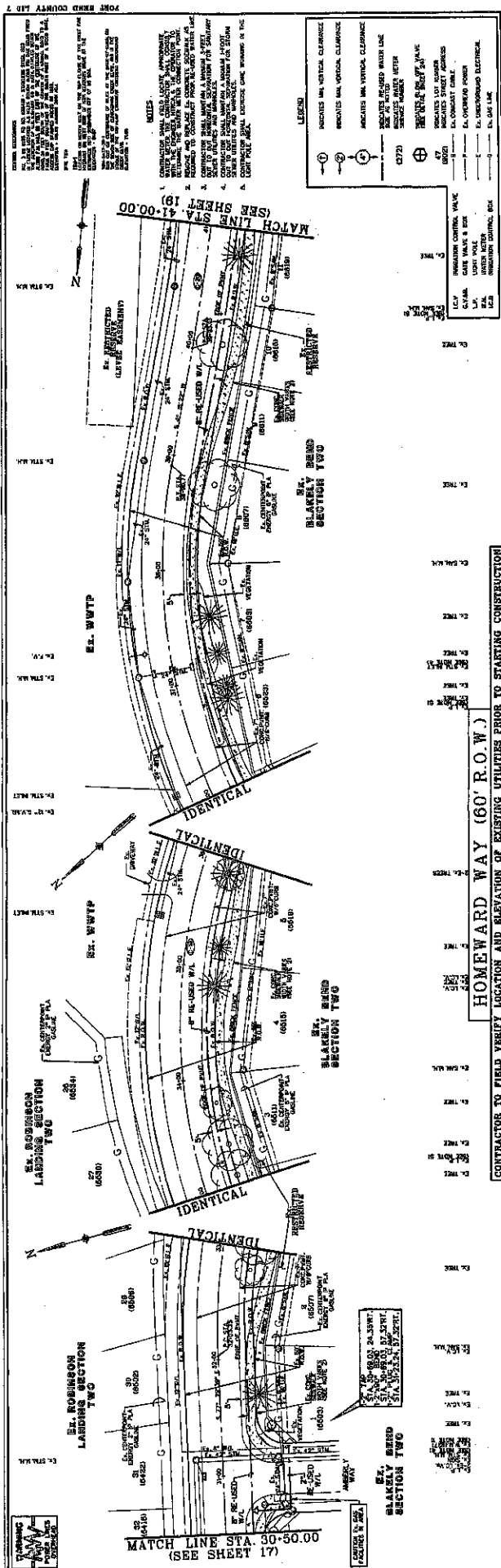
Houston, Texas 77042

(713) 765-7788 (713) 765-3560 Fax

TELEPHONE REG. NO. 280

TELEPHONE REG. NO. 100886





DESIGNED BY: S.L.A.

CHECKED BY: S.L.A.

DATE: 11/11/11

PROJECT: NEW TERRITORY EAST, HOMERLAND WAY RECLAIMED EFFLUENT RE-USED WATER LINE

PLAN AND PROFILE

STA. 30+50.00 TO STA. 41+00.00

Costello

Engineering and Surveying
9000 Richmond Avenue, Suite 400 N
Houston, Texas 77042
(713) 783-7748 (713) 783-3560 Fax
TDD/TELEPHONE REG. NO. 230
TDD/TELEPHONE REG. NO. 100866

APPROVED: [Signature]

DATE: 11/11/11

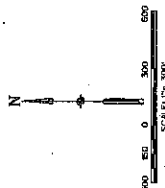
PROJECT: NEW TERRITORY EAST, HOMERLAND WAY RECLAIMED EFFLUENT RE-USED WATER LINE

PLAN AND PROFILE

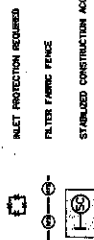
STA. 30+50.00 TO STA. 41+00.00

Costello

Engineering and Surveying
9000 Richmond Avenue, Suite 400 N
Houston, Texas 77042
(713) 783-7748 (713) 783-3560 Fax
TDD/TELEPHONE REG. NO. 230
TDD/TELEPHONE REG. NO. 100866



POLLUTION PREVENTION LEGEND



1. PLACE FILTER FABRIC SIFT FENCE 4-5 FEET AROUND THE PILE.
2. AS SIFT STOODPILES OF SIGNIFICANT SIZE SHALL BE ENCLOSED BY A SIFT FENCE.
3. CONTRACTOR TO MAINTAIN THE SIFT FENCE AT ALL TIMES TO PREVENT THE ESCAPE OF THE SMALL SIFT FROM THE SIFT FENCE.
4. A VEHICLE WASH-DOWN AREA FOR THE PROJECT MAY BE REQUIRED TO MAINTAIN THE SIFT FENCE AND TO PREVENT CONTAMINATION. THE CONTRACTOR SHALL PROVIDE THE MAINTENANCE OF THE WASH-DOWN IS AT THE CONTRACTOR'S OPTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SIFT FENCES INDICATED ON THIS PLAN.
6. ANY PROPOSED OR EXISTING TRAILING SHALL BE REDESIGNED AS PER POLLUTION PREVENTION PLAN.
7. UNDER PROJECT CONSTRUCTION AND FINAL STABILIZATION.



Costello

Engineering and Surveying
2890 Richmond Avenue, Suite 450 N
Houston, Texas 77042
(713) 763-7788 (713) 783-3580, Fax
(713) 783-3580
TBE FIRM REG. No. 280
TBEPLS FIRM REG. No. 100486

DESIGNED BY: guy CHECKED BY: JAV
DRAWN BY: guy CHECKED BY: guy
DATE: 11-17-67

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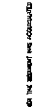
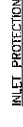
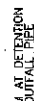
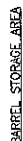
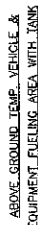
**NEW TERRITORY
EAST HOMEWARD WAY
DECLAIMED EFFLUENT RE-USED WATER LINE**

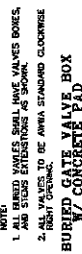
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36

36 ^{BAR}

99300001-148





0. PROPOSED SIDEWALK SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE, CLASS "A" STRUCTURAL (REFER TO SPECIFICATION Q33011), 4 INCHES THICK AND 4 FEET MINIMUM WIDTH. SEE DRAWING NO. FBC 20A FOR ADDITIONAL INFORMATION AND DETAILS.

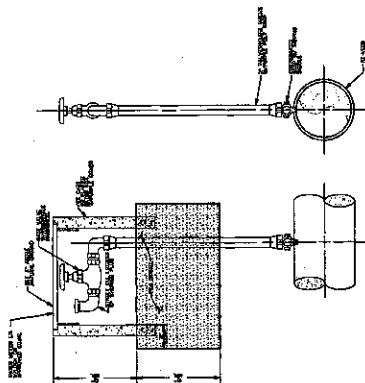
PORT BEND COUNTY ENGINEERING DEPARTMENT



DRAWN BY: L. BRODECKA DATE DRAWN: 2-1-94 APPROVED BY: L. HODD DATE: 2-1-94	REVISION BY: J. NETAPOURIS DATE REVISION: 4-7-99 DRAWING NO. FBC-1025A
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SIDEWALKS & DRIVEWAYS ON
 CURB TYPE STREETS
 COMMERCIAL AREA

FORT BEND COUNTY ENGINEERING DEPARTMENT



2" BLOW-OFF VALVE
N.T.S.

DATE	TIME	BY	REMARKS
			DISPATCHED BY: [signature]
			PERSON CHECKED BY: [signature]
			DEATH BY: [signature]
			CODER CHECKED BY:
			SURVEY CHECKED BY:
			CLINIC BY: US
			CHARGE REVISIONS
			DAYS LEFT: 18

Engineering and Surveying
26690 Richmond Avenue, Suite 460 N
Houston, Texas 77042
713/783-7788 (713) 783-3590, Fax
713/783-7788
TYPE FIRM REG. No. 280
TBP&S FIRM REG. No. 100486



Costello
Group

NEW TERRITORY
EAST HOMEWARD WAY
RECLAIMED EFFLUENT RE-USED WATER LINE
MISCELLANEOUS DETAILS

24
SHEET

MISCELLANEOUS DETAILS

93 40

APPROVED:  DATE: 12/11/16

NEW TERRITORY
EAST HOVEYARD WAY
RECLAIMED EFFLUENT RE-USED WATER LINE
"GIVE US A BRAKE"
SIGNS

DESIGNED BY: J.A.L.
DESIGN CHECKED BY: J.S.V.
DRAWN BY: J.A.L.
CADD CHECKED BY: J.A.L.
CHECKED BY: J.A.L.
DATE: 12/11/16

SUMMARY OF LARGER SIGNS					
BACKGROUND COLOR	SIGN DESIGNATION	SIGN	SIGN DIMENSIONS	REFLECTIVE SHEETING	SQ. FT.
Orange	G20-7T		96" X 48"	Type B ₁ or C ₁	32
Orange	G20-7T		192" X 96"	Type B ₁ or C ₁	128
					WELLS 16 17 12

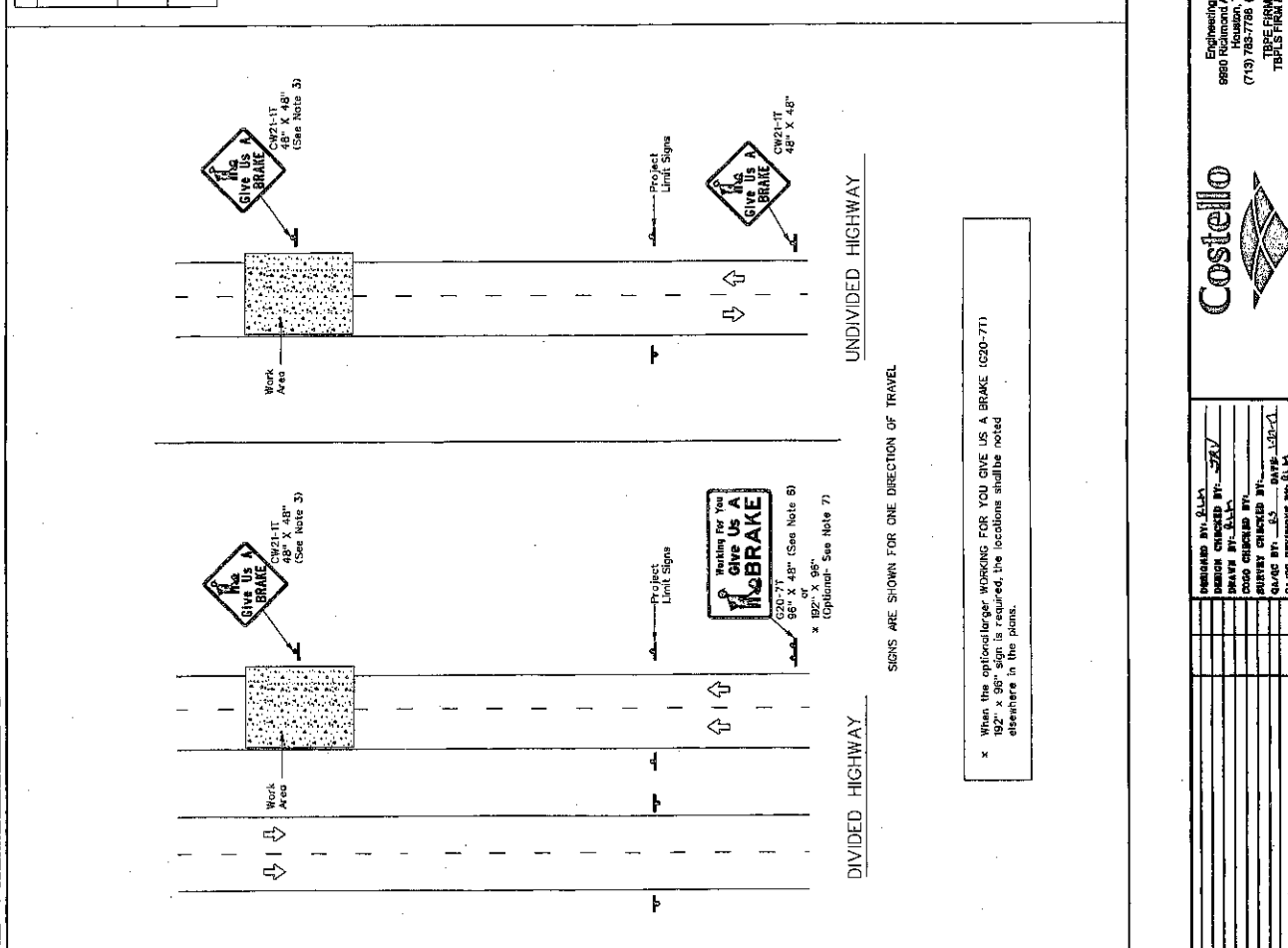
LEGEND	
	Sign
	Large Sign
	Traffic Flow

EXPERIMENTAL MATERIAL SPECIFICATIONS	
PLYWOOD SIGN BLANKS	DMS-7100
ALUMINUM SIGN BLANKS	DMS-7100
SIGN FACE MATERIALS	DMS-8300

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

GENERAL NOTES

- See BC and SMD sheets for additional sign support details.
- Sign locations shall be approved by the Engineer.
- 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 (CW21-1T) may be used for this purpose.
- Work zone speed limits are sometimes used in conjunction with GIVE US A BRAKE signs. See BC(3) for location and spacing of construction speed zone signing when required.
- Give Us A Brake (CW21-1T) signs and supports shall be considered auxiliary to Item 502, Barricades, Signs and Traffic Warning.
- The 96" X 48" Working For You Give Us A BRAKE (G20-7T) may use a 1/2" or 5/8" plywood substrate or 0.025" aluminum sheeting substrate and may be supported by two 1x4s or water-pasted on drilled holes for steelwork as per BC(3) and will be subsidiary to Item 502.
- The Working For You Give Us A BRAKE (G20-7T) 192" X 96" sign shall be sold for under the following specification items:
 - Item 831 - Large Roadway Sign Supports and Assemblies.
 - Item 847 - Large Roadway Sign Supports and Assemblies.
 - Item 416 - Drilled Shaft Foundations
- Alsigns shall be constructed in accordance with the details found in the "Standard Highway Signs and Markings" manual. Sign details shall be approved by the Engineer. Highways shall be approved by the Engineer. Signs shall be provided to the Contractor before the sign is manufactured.



APPROVED: *[Signature]* DATE: 12/11/16
SHEET: 26 OF 36
JOB NO. 180000-142



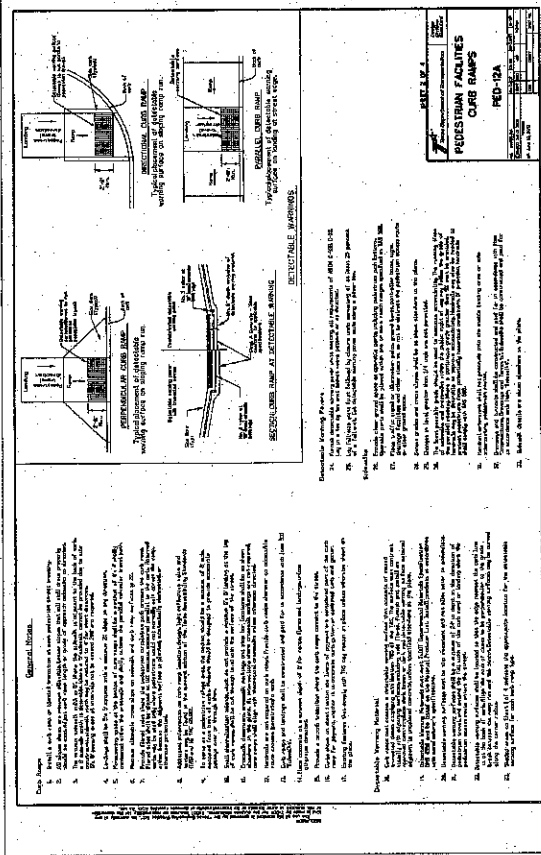
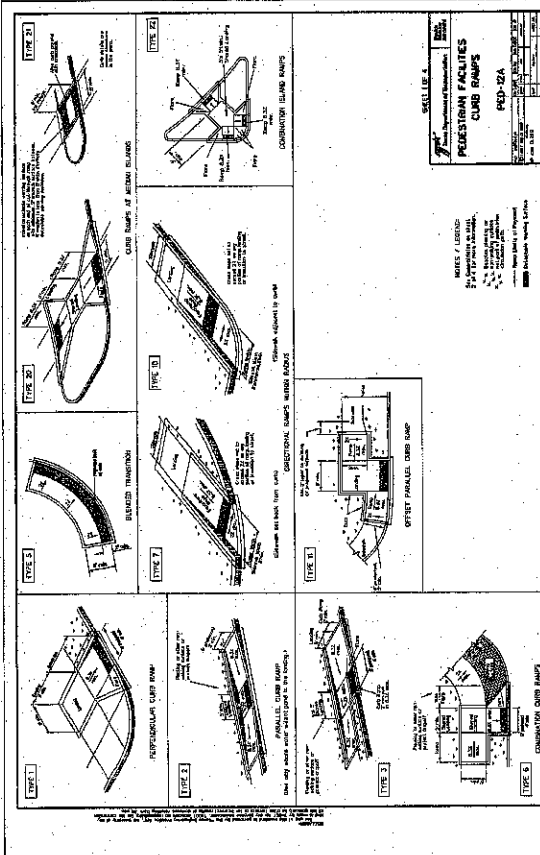
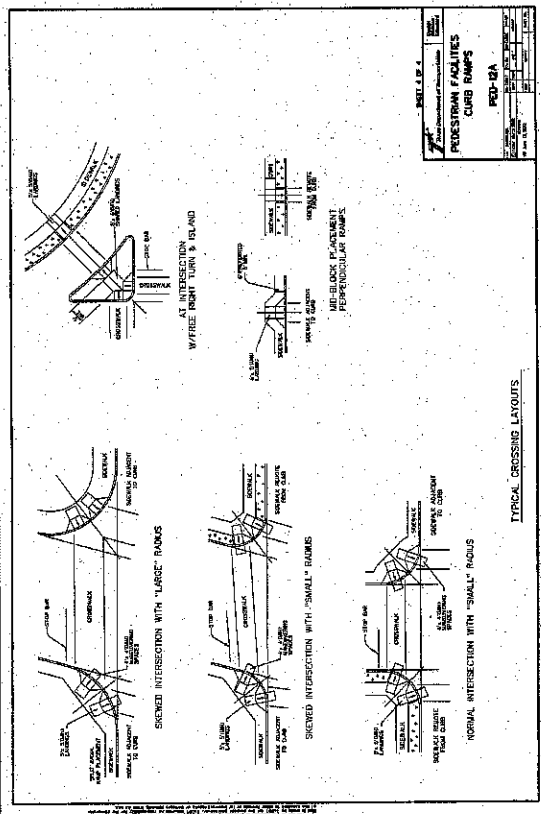
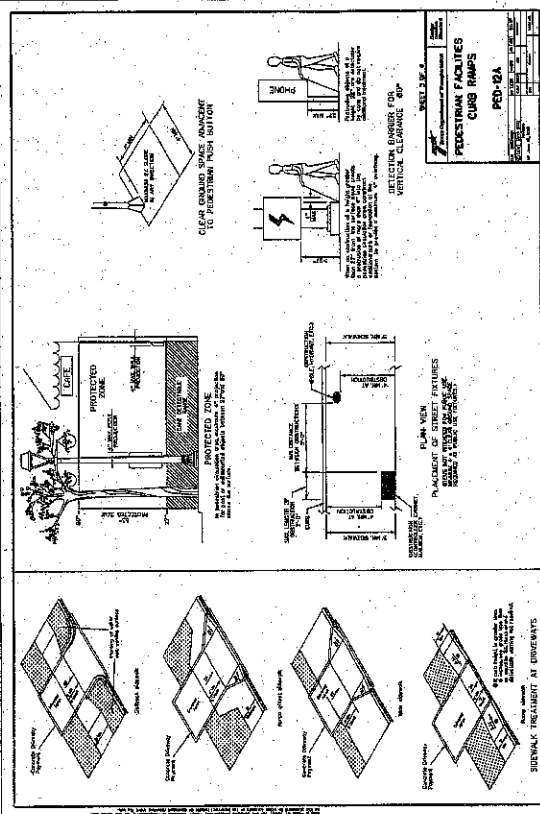
NEW TERRITORY
EAST HOUSTON, TEXAS
RECLAIMED EFFLUENT RE-USED WATER LINE
PEDESTRIAN FACILITIES
CURB RAMPS - PED 12A

Engineering and Surveying
9850 Richmond Avenue, Suite 980 N
Houston, Texas 77042
(713) 785-7788 (713) 785-3560 Fax
TYPE FIRM REG. NO. 280
TSPS FIRM REG. NO. 10068



DESIGNED BY: *[Signature]*
DESIGN CHECKED BY: *[Signature]*
DRAWN BY: S.A.A.
SURVEY CHECKED BY: *[Signature]*
QA/QC BY: *[Signature]* DATE: *[Signature]*

NO.	REVISION	DATE	BY



1. ASPHALTIC MATERIAL AND WORKMANSHIP SHALL COMPLY WITH ASTM C 33, ASTM C 131, ASTM C 136, STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND PARKWAYS (1992) AND ITS LATEST REVISIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF SUGAR LAND, TEXAS.
3. CONTRACTOR SHALL VERIFY ELEVATIONS AND GRADINGS AND THAT SUCH COURSE IS SLOAN TO SUPPORT INCREASED LOADS. APPLY A PRIME COAT PER CITY OF SUGAR LAND AND TROTT STANDARDS. DO NOT APPLY TOP COAT UNTIL PAVED BASE COURSE HAS CURED, AND IS APPROVED BY THE CONSTRUCTION INSPECTOR.

1. ASPHALTIC MATERIAL AND WORKMANSHIP SHALL COMPLY WITH ASTM C 131, ASTM C 115, AND DISTRICT SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND SIDEWALKS (1929) AND ITS LATEST REVISIONS.
2. ALL CURBS SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE, 4" MINIMUM THICKNESS, TO BE PLACED AND FINISHED IN ONE DAY.
3. ALL CURBS SHALL BE FINISHED WITH A FINISH WHICH PROVIDES A SURFACE TO SUPPORT A 100 LB. TESTED LOAD.
4. APPLY A FINE COAT AS PER CITY OF SUGAR LAND AND DISTRICT SPECIFICATIONS TO SUPPORT A 100 LB. TESTED LOAD.
5. ALL CURBS SHALL BE FINISHED WITH A FINISH WHICH PROVIDES A SURFACE TO SUPPORT A 100 LB. TESTED LOAD.
6. DO NOT USE GUMBRIDGE ASPHALT UNTIL CITY OF SUGAR LAND AND DISTRICT SPECIFICATIONS.
7. DO NOT USE GUMBRIDGE ASPHALT UNTIL CITY OF SUGAR LAND AND DISTRICT SPECIFICATIONS.
8. ALL CURBS SHALL BE FINISHED WITH A FINISH WHICH PROVIDES A SURFACE TO SUPPORT A 100 LB. TESTED LOAD.
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17. ALL CURBS SHALL BE FINISHED WITH A FINISH WHICH PROVIDES A SURFACE TO SUPPORT A 100 LB. TESTED LOAD.

1. TEST AND ANALYSIS OF AGGREGATE AND RUBBER MATERIALS WILL BE PERFORMED IN ACCORDANCE WITH ASTM 1597 AND ASTM 4318. CEMENT SHALL BE ASTM 150 TYPE I.
2. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH EXISTING SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES AND ITS LATEST REVISIONS AND CITY OF SUGAR DAM STANDARDS.
3. FINISH COAT SHALL BE AC. 30 OR ENHANCED FRACTIONAL RUBBER CONCRETE. THE FINISH COAT SHALL BE 1.0 IN. THICK. A MINIMUM OF 10% OF THE TOTAL VOLUME OF THE CONCRETE SHALL BE RUBBER. THE RUBBER SHALL BE 100% RUBBER. THE RUBBER SHALL BE 100% RUBBER. THE RUBBER SHALL BE 100% RUBBER.

1. TEST AND ANALYSIS OF AGGREGATE AND ASPHALT SHALL BE PERFORMED IN ACCORDANCE WITH ASTM 1557 AND ASTM 415.
2. ALL MATERIALS AND DIMENSIONS SHALL COMPLY WITH INDUSTRY SPECIFICATIONS FOR CONSTRUCTION OF ALL MATERIALS AND DIMENSIONS OF THE LATEST EDITIONS AND CITY OF SIOUX FALLS DIMENSIONS.
3. PAVING COURSE SHALL BE 10 INCHES THICK.
4. DESIGN MIX FOR MINIMUM AVERAGE COMPRESSIVE STRENGTH OF 200 PSI IN 48 HRS. PROPOSED MINIMUM GRADIENT MAY BE 0.3 PER CENT.
5. DESIGN MIX FOR MINIMUM AVERAGE GRADIENT MAY BE 0.5 IN 48 HRS. PROPOSED MINIMUM GRADIENT MAY BE 0.3 PER CENT OF TOTAL AVERAGE GRADIENT.
6. THREE SAMPLES SHALL BE TAKEN 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, ALL DEFECTIVE MATERIALS.
7. CONTRACTOR SHALL FURNISH GRANULES AND COMBINED SUBGRADE AS READY TO RECEIVE MATERIALS PRIOR TO ITS PLACEMENT.
8. CONTRACTOR SHALL NOT BE ALLOWED TO EXCEED A MINIMUM DENSITY OF 94% AND FILLING. GAGE MATERIAL MAY BE PLACED AT AMBIENT TEMPERATURE IN SETS AND EXPOSED.
9. MATERIAL MAY BE PLACED IN SETS AND EXPOSED. EACH LIFT SHALL GAGE BENEATH WHEN.
10. GRADIENT STABILIZED BASE MAY NOT BE STUDIED FOR SETTING. CONTRACTOR SHALL NOT ALLOW SETTING.
11. CONTRACTOR SHALL NOT BE ALLOWED TO EXCEED A MINIMUM DENSITY OF 94% AND FILLING. GAGE MATERIAL SHALL BE PLACED AT AMBIENT TEMPERATURE IN SETS AND EXPOSED.
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20. CONTRACTOR SHALL NOT BE ALLOWED TO EXCEED A MINIMUM DENSITY OF 94% AND FILLING. GAGE MATERIAL SHALL BE PLACED AT AMBIENT TEMPERATURE IN SETS AND EXPOSED.

1. ALL PIPE STORM SEWERS SHALL BE DESIGNED, SIZED, AND BACKFILLED IN ACCORDANCE WITH CITY OF SUGAR LAND STANDARD DETAIL C.D.S.5.
2. ALL EXIST STANDARD SAND (C.S.5) SHALL BE 1-1/2 YD. PER CUBIC YD. AND MEET MINIMUM C.S.5 STANDARDS COMPACTED TO 80%.
3. ALL STORM SEWERS UNDER AND WITHIN TWO (2) FEET OF PROPOSED OF PAVEMENTS SHALL BE

- [illegible]

1. SANITARY SEWER, FORCE MAIN, MANHOLES, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS SHALL BE DESIGNED AND CONSTRUCTED AS PER THE REQUIREMENTS OF THE CITY OF SUGAR LAND DESIGN STANDARDS AND CORRESPONDING STANDARD CONSTRUCTION DETAILS SHEETS AND AS PER THE REQUIREMENTS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY "DESIGN CRITERIA FOR SURFACE SYSTEMS" SHOULD A CONFLICT. ARISE BETWEEN INFORMATION DETICED ON APPROVED CONSTRUCTION DRAWS AND/OR INFORMATION INCLUDED IN PROJECT SPECIFICATIONS. CITY OF SUGAR LAND DESIGN STANDARDS SHALL GOVERN ALL MATERIALS AND SPECIFICATIONS USED IN THE CONSTRUCTION OF SANITARY SEWER FORCE MAINS, MANHOLES, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS.

- [illegible]

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 CORRESPONDING STANDARD CONSTRUCTION DETAILS SHEETS, AND AS PER THE REQUIREMENTS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, SHOULD A CONFLICT ARISE BETWEEN INFORMATION DERIVED ON APPROVED CONSTRUCTION DRAWINGS AND/OR INFORMATION INCLUDED IN PROJECT SPECIFICATIONS, CITY OF SUGAR LAND DESIGN STANDARDS SHALL GOVERN.

- [illegible]

[illegible]

7-21-66



CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT

**CONSTRUCTION PLANS FOR:
EAST HOMEWARD WAY
(RECLAIMED EFFLUENT)**

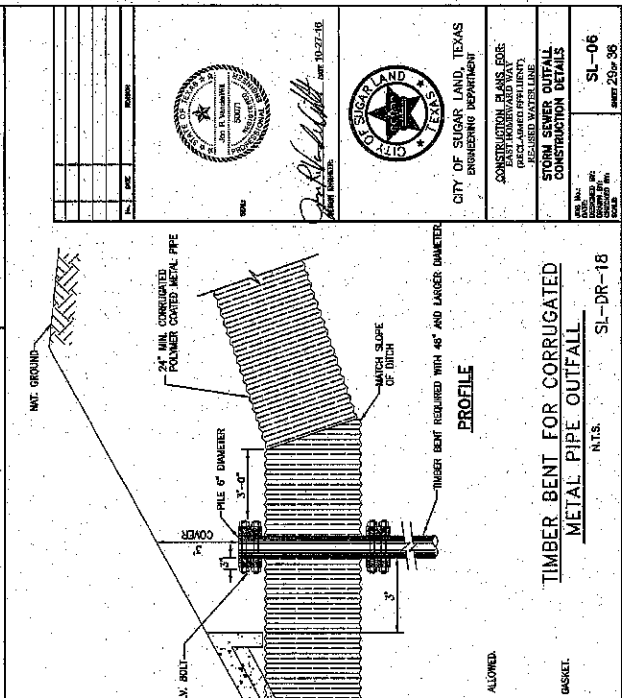
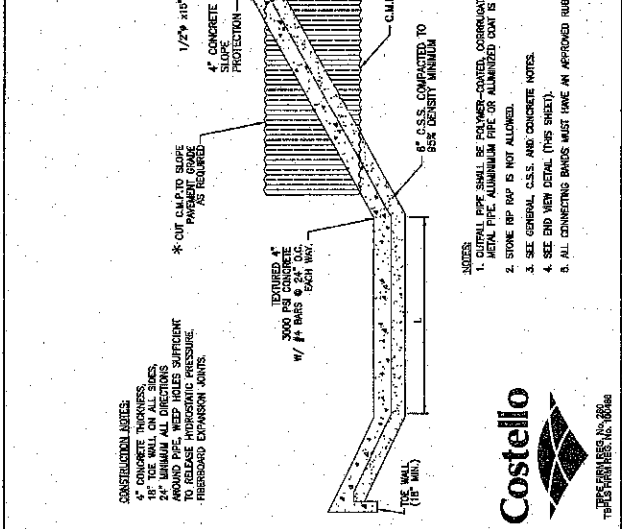
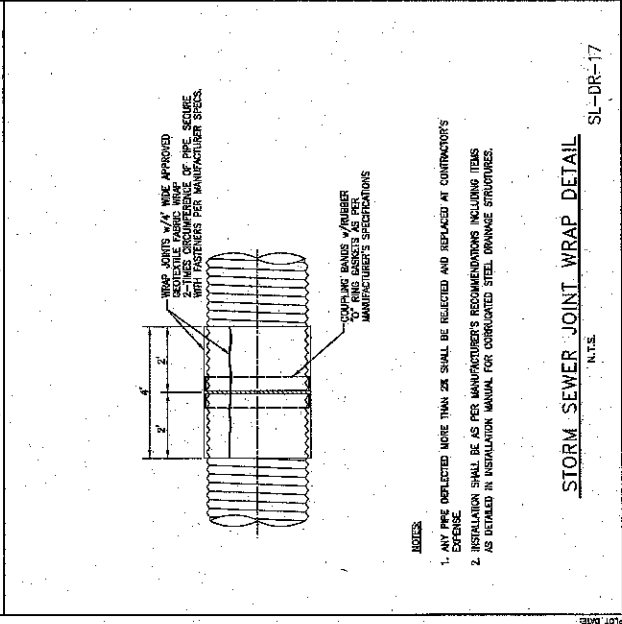
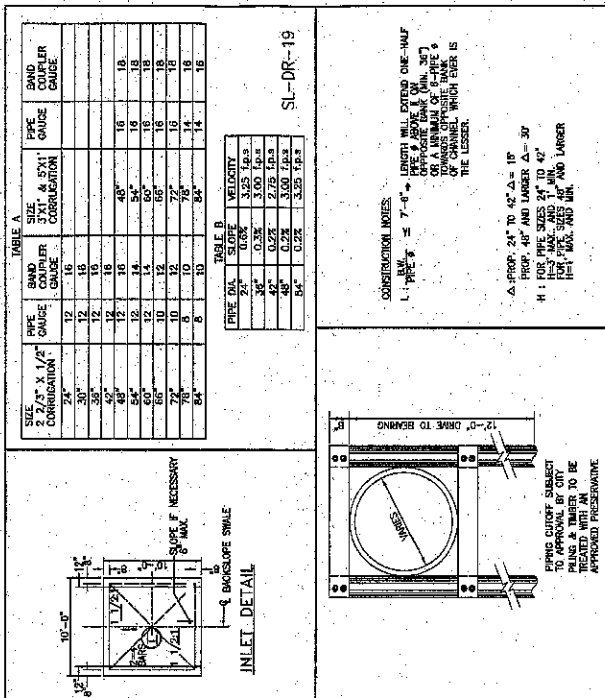
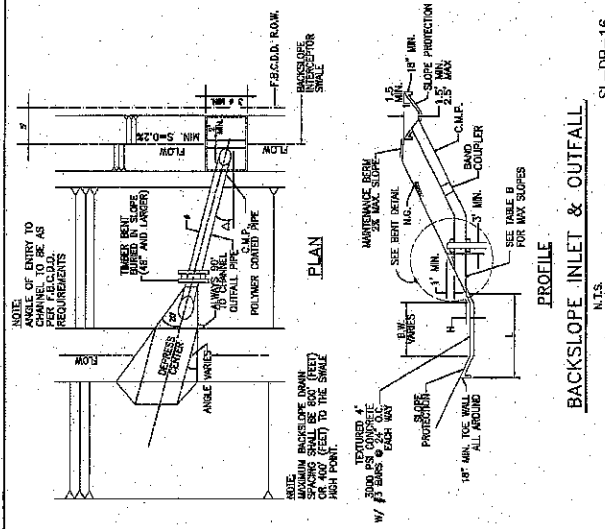
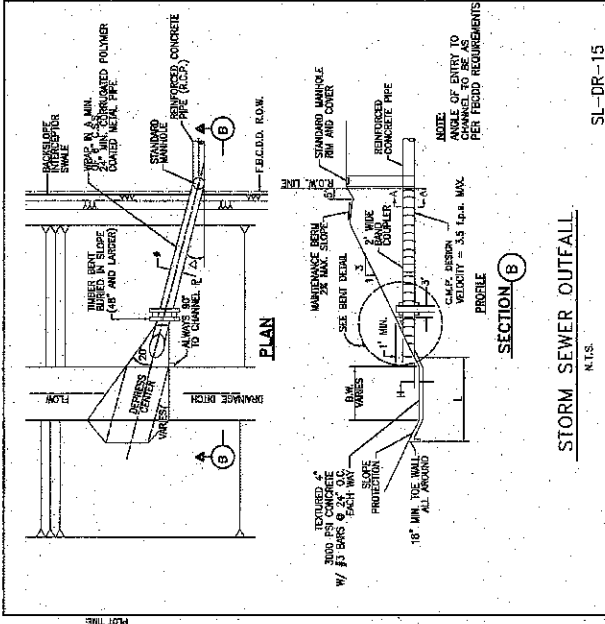
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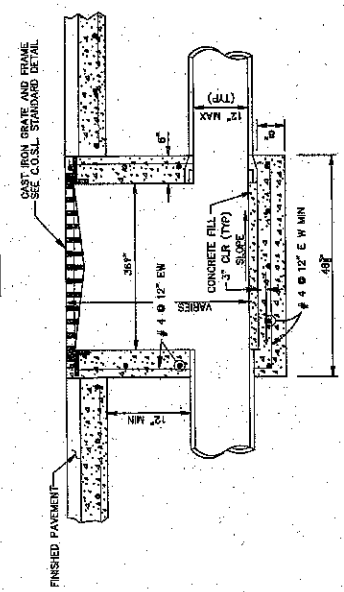
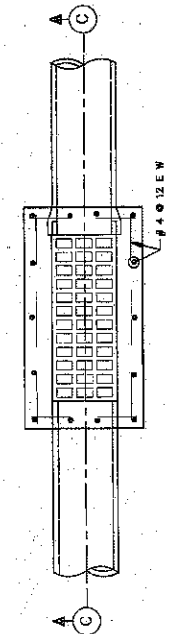
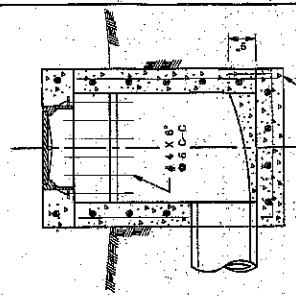
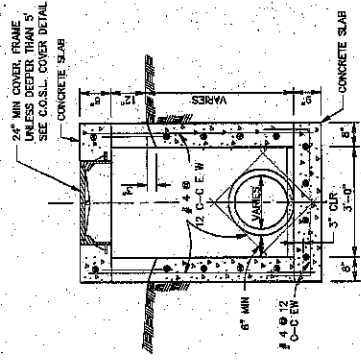
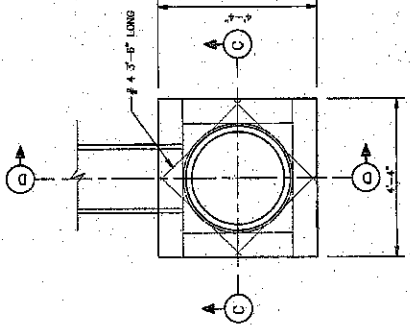
Maxwell 12/16/16



TYPE FIRM REG. NO. 200
TYPE FIRM REG. NO. 10000



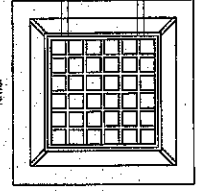
May 12/16/14



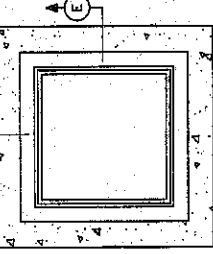
SL-DR-24

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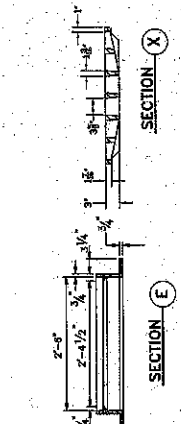
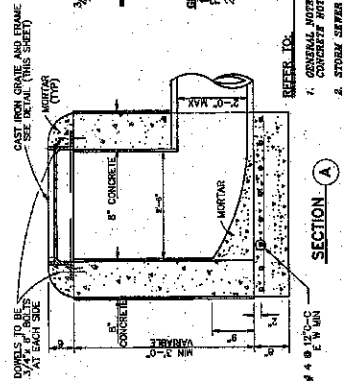
TYPE "A" INLET



TYPE "E" INLET



TYPE "E" INLET



TYPE "E" INLET

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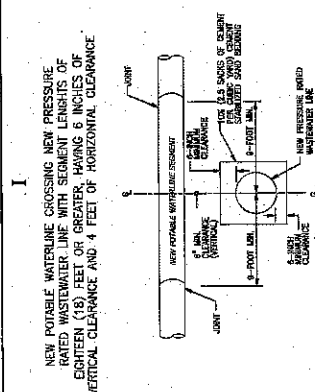
SL-DR-62

SL-DR-63

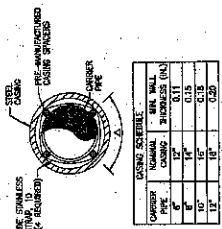
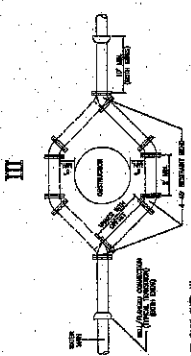
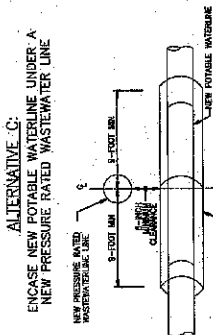
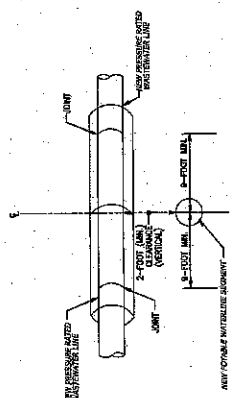
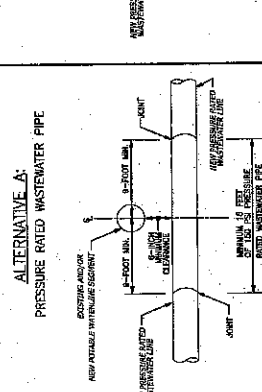
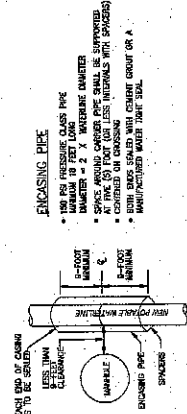
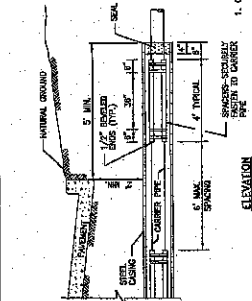
SL-DR-64

SL-DR-65

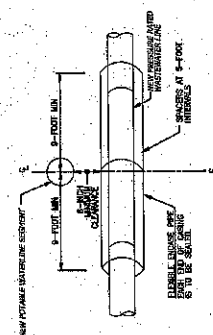
SL-DR-66



- WHENEVER POSSIBLE, THE CROSSING SHALL BE CENTERED BETWEEN JOINTS OF THE WASTEWATER LINE.
- MINIMUM WASTEWATER PIPE STIFFNESS OF 115 PSI AT 5% DEFLECTION.
- CURED WASTEWATER LINE IN CEMENT STABILIZED SAND, TO AT LEAST 12" INCHES BEYOND EACH JOINT OF CROSSED SECTION OF PIPE.



ENCASED WASTEWATER LINE.



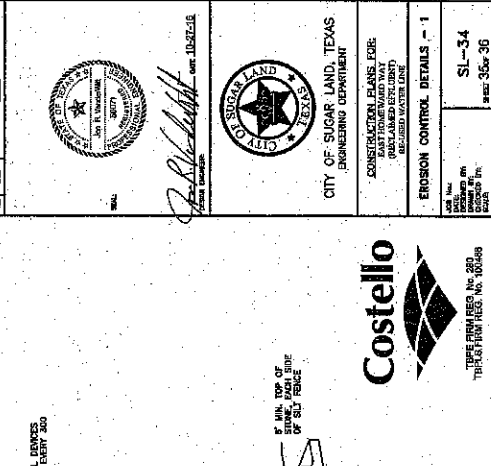
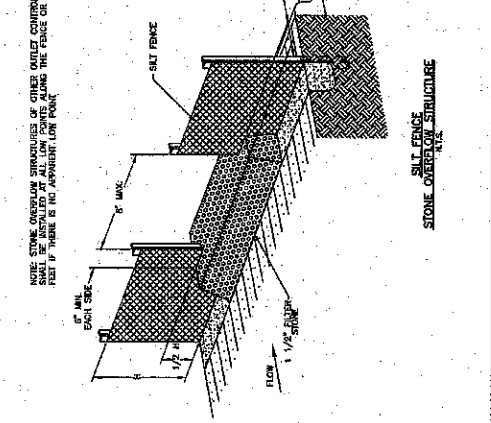
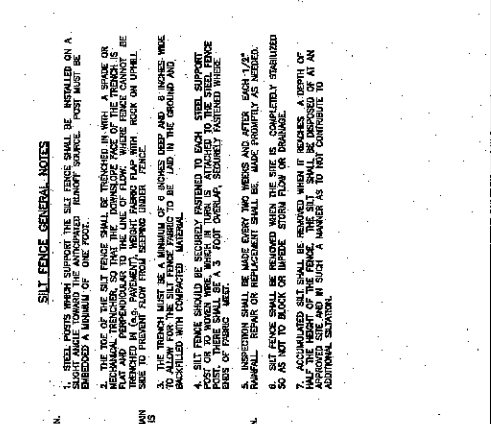
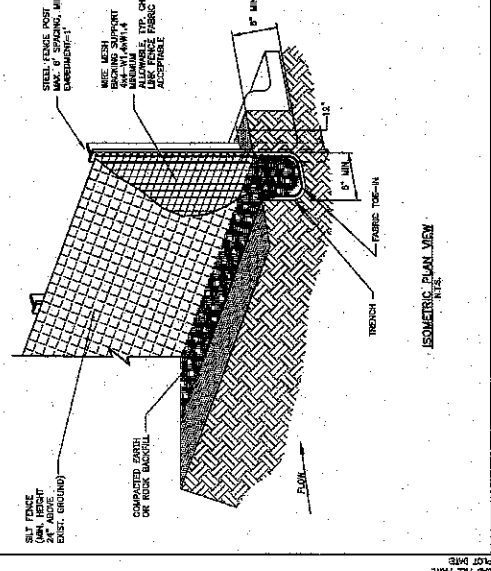
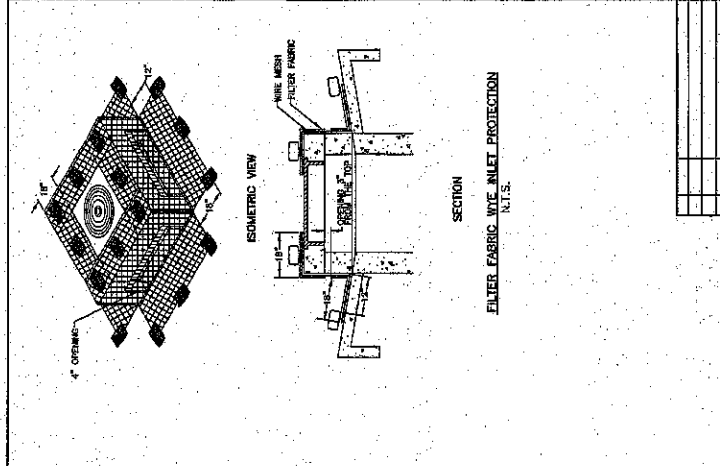
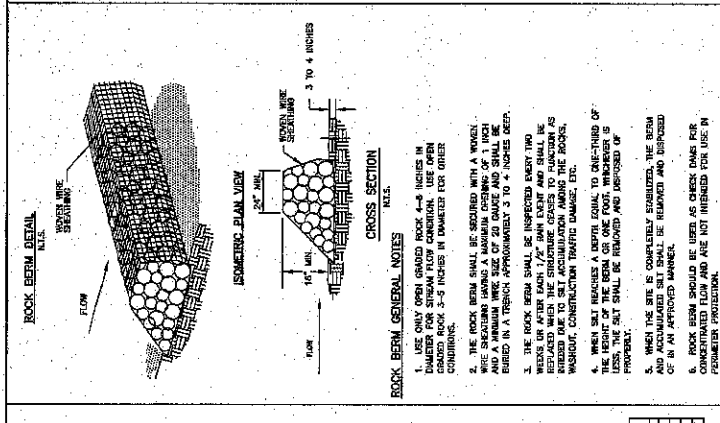
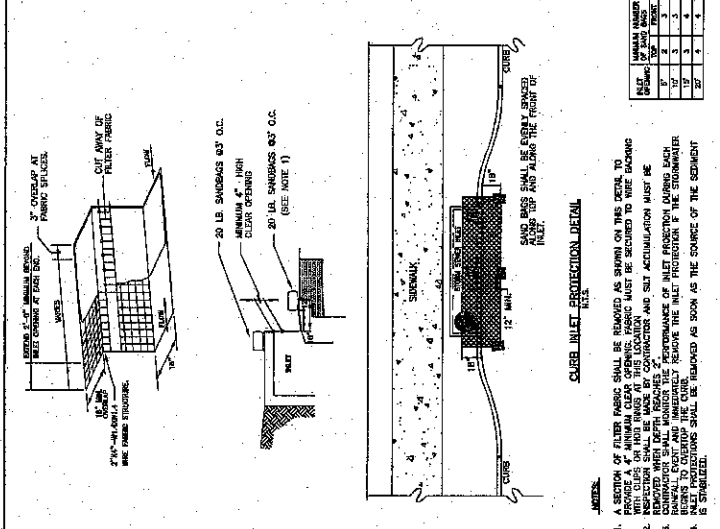
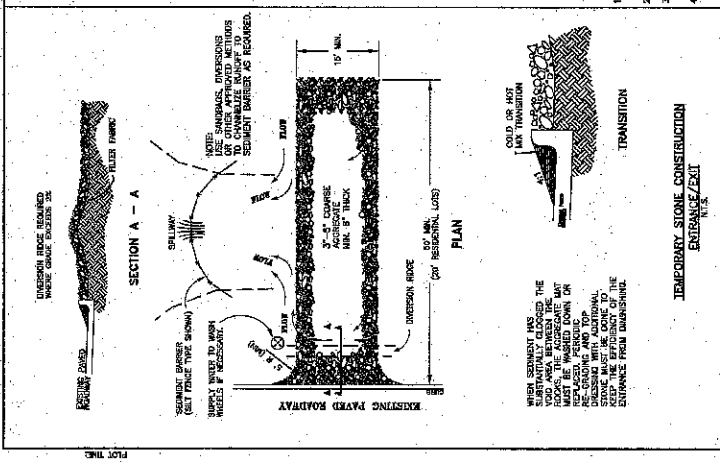
- MINIMUM CASING PIPE STIFFNESS OF 115 PSI AT 0% COLLECTION
- MINIMUM CASING PIPE DIAMETER # 2 X INSTALLED LOG DIAMETER
- THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE (5) FOOT (OR LESS) INTERVALS WITH SPACERS
- EACH END CASING IS TO BE SEALED WITH WATER TIGHT

NO-SHINK GROUP ON MANUFACTURED HOMES ISSUED
SL-WA-1

Age Group	U.S. should take action (%)	U.S. should not take action (%)
18-29	85	15
30-49	82	18
50-69	88	12
70+	92	8

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Figure 1 is a line graph titled "Number of cases of COVID-19 in the United States". The x-axis is labeled "Time" and shows months from March 2020 to March 2021. The y-axis is labeled "Number of cases" and ranges from 0 to 10 million. The graph shows a sharp increase in cases starting in March 2020, peaking in May 2020, and then fluctuating with a general upward trend through March 2021.



Costello
 CITY OF SUGAR LAND, TEXAS
 ENGINEERING DEPARTMENT
 CONSTRUCTION PLANS FOR
 EAST TOWNHOMES WAY
 SUGAR LAND, TEXAS
 EROSION CONTROL DETAILS - 1
 SL-34
 SHEET 35-36
 12/16/16

12/16/16

