



**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: 2017-14600

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

Presented to Commissioners Court and approved.

By: *Charles O. Ay*
for County Engineer

Date Recorded _____ Comm. Court No. _____

N/A

Clerk of Commissioners Court

By: _____
Drainage District Engineer/Manager

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: 2017-14600

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. Ay

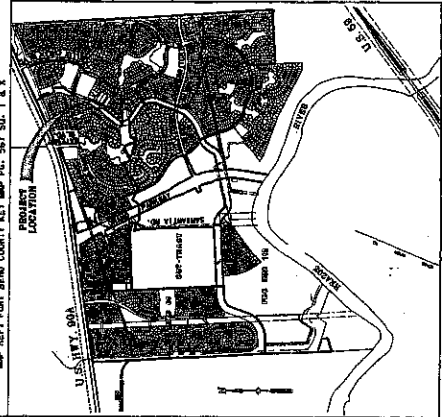
Permit Administrator

6/30/17
Date

CONSTRUCTION PLANS FOR EAST HOMERD WAY (RECLAIMED EFFLUENT) RE-USED WATER LINE

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

MAP REF: FORT BEND COUNTY KEY MAP PG. 557 S.D. T & X



SCALE: 1/4 MILE



CITY OF SUGAR LAND
APPROVED: *[Signature]*
DATE: 12/26/16



Engineering and Surveying
9690 Richmond Avenue, Suite 400 N
Houston, Texas 77042
(713) 783-7788 (713) 783-3560, FXR
TELEPHONE REG. NO. 280
TELEPHONE REG. NO. 105486

DATES: OCTOBER 2010



City of Sugar Land
Engineering Department

CITY OF SUGAR LAND - ENGINEERING DEPT.
FAC. MAILING BY A III - OPERATOR - MUNICIPAL OPERATIONS & CONSTRUCTION, INC. - 280-279-2788
FAC. MAILING BY A III - ENGINEER - COSTELLO, INC. - 713-783-3560
FORT BEND COUNTY DRAINAGE DISTRICT - 281-242-2853

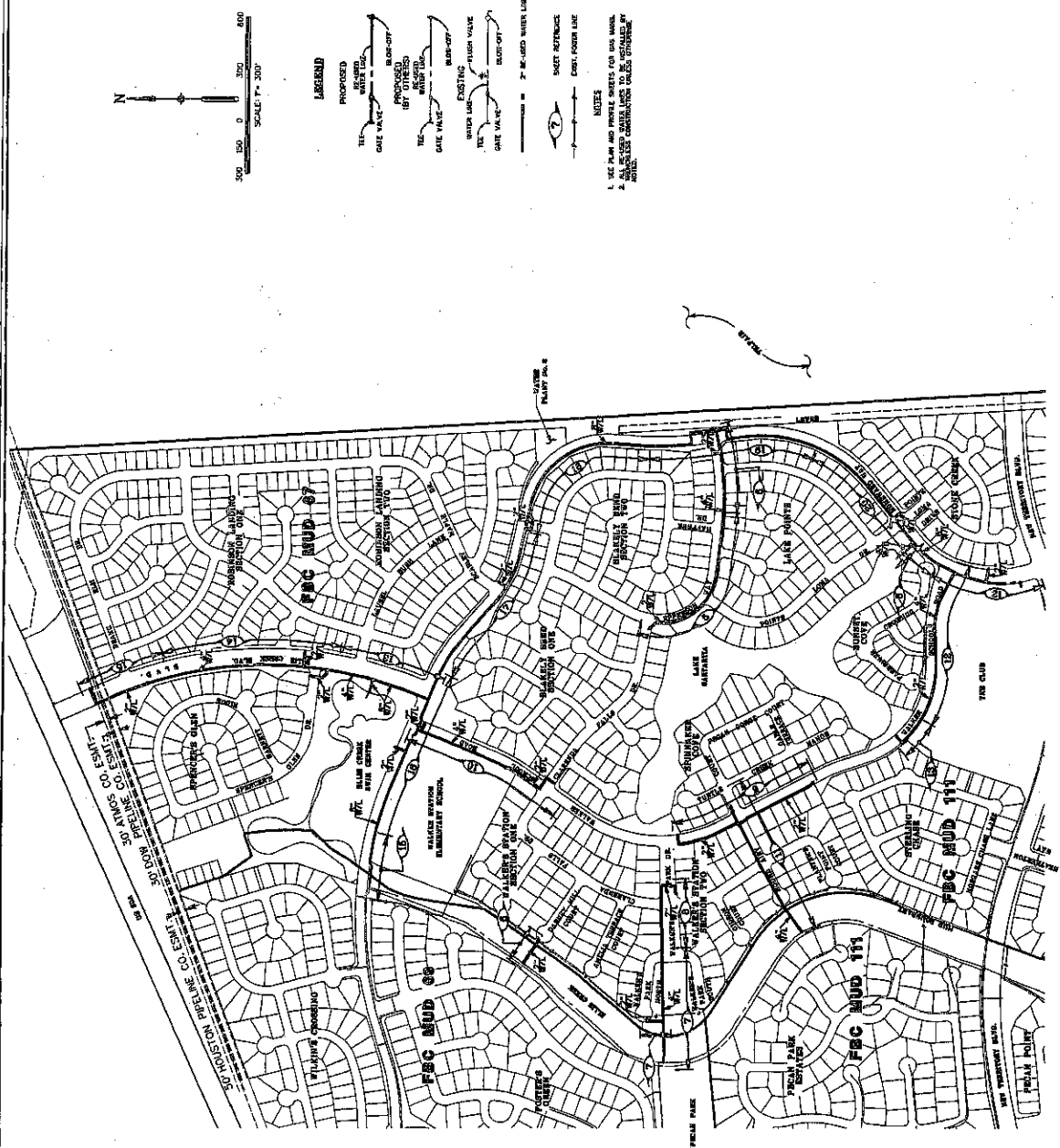
FORT BEND COUNTY
ENGINEER: *[Signature]*
DATE: 12/16/16
THESE DOCUMENTS ARE VOID IF CONSTRUCTION HAS NOT
COMMENCED IN ONE YEAR FROM DATE OF APPROVAL.
APPROVED: *[Signature]*
DATE: 12/16/16

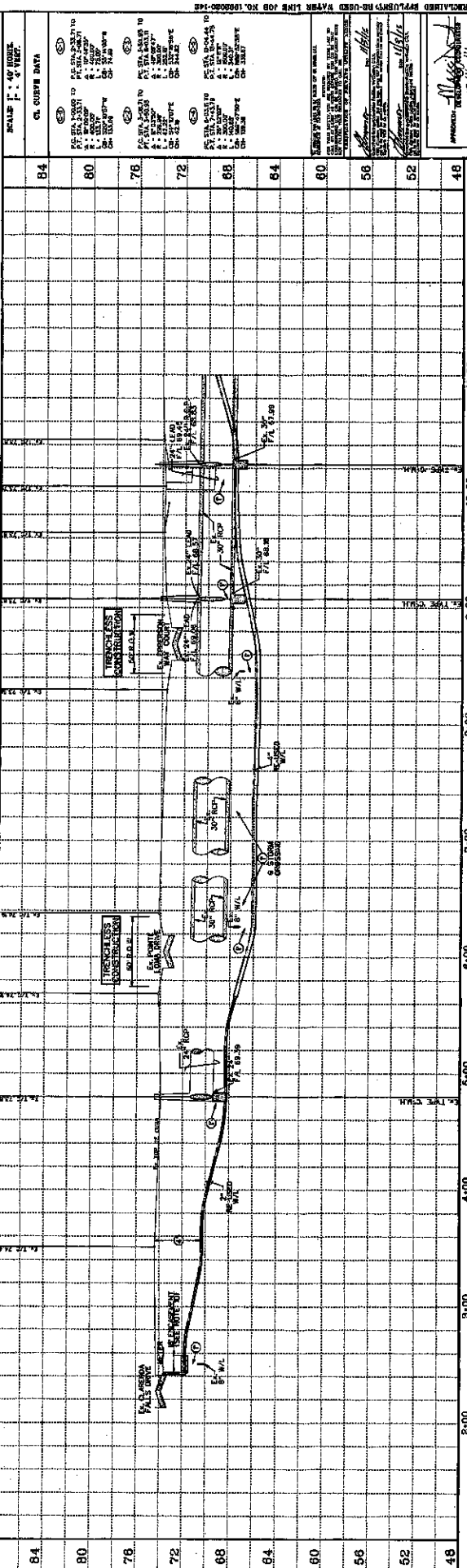
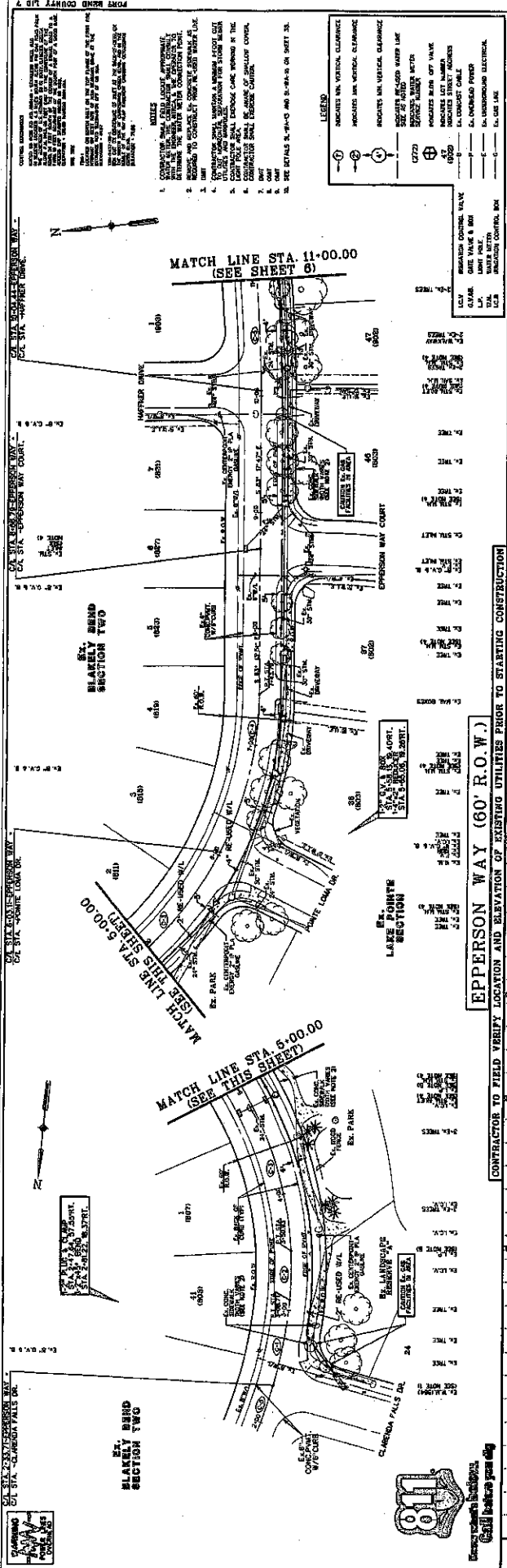
INDEX OF DRAWINGS

SHEET NO. DESCRIPTION

1. CIVIL ENGINEER'S NOTES
2. GENERAL NOTES
3. WATER LINE LAYOUT
4. PLANS AND SPECIAL NOTES

5. APPROPRIATE WAY - ETL 10-0000 TO ETL 10-0000
6. APPROPRIATE WAY - ETL 10-0000 TO ETL 10-0000 AND DUMMETT HILL COURT
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CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION

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

NEW TERRITORY
EAST HOMETOWN WAY
(RECLAIMED EFFLUENT RE-USED WATER LINE)
EPPERSON WAY
STA. 2+00.00 TO STA. 11+00.00

Engineering and Surveying
 9900 Richmond Avenue, Suite 450 N
 Houston, Texas 77024
 (713) 763-7763 (713) 763-5560, Fax
 TWP 15N R15E SEC 10, 20, 30

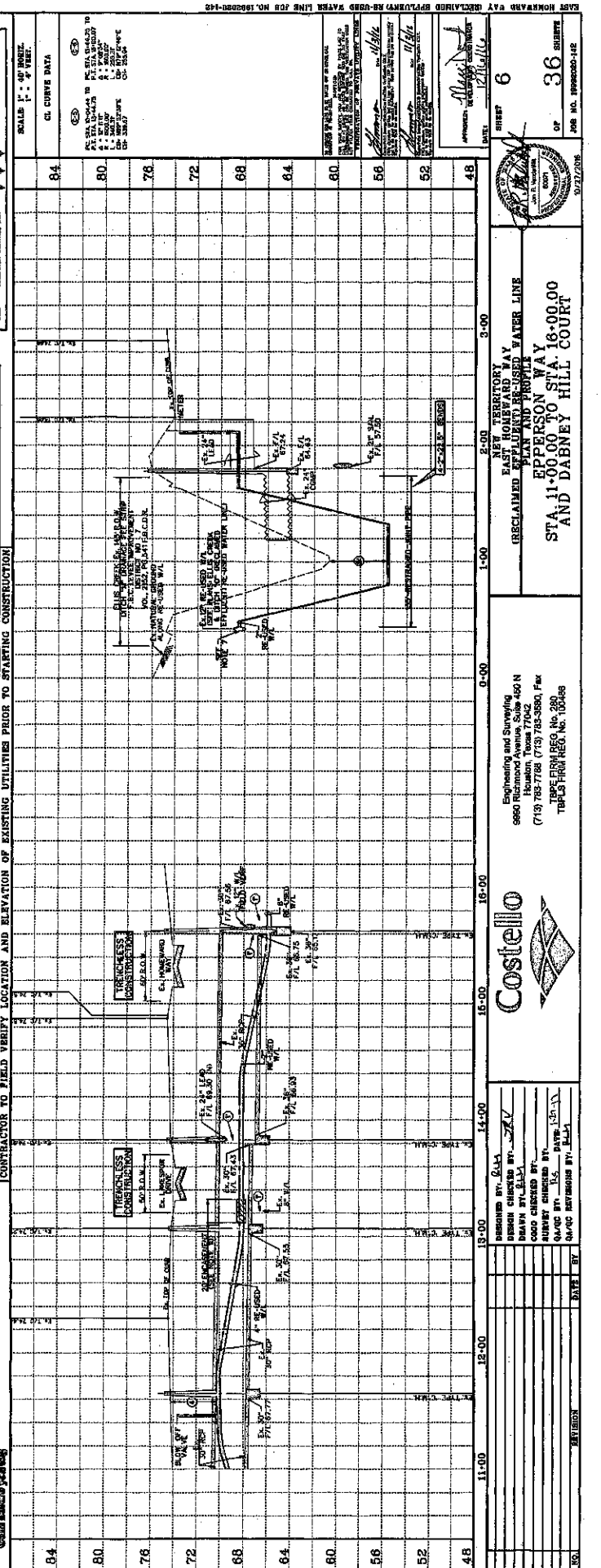
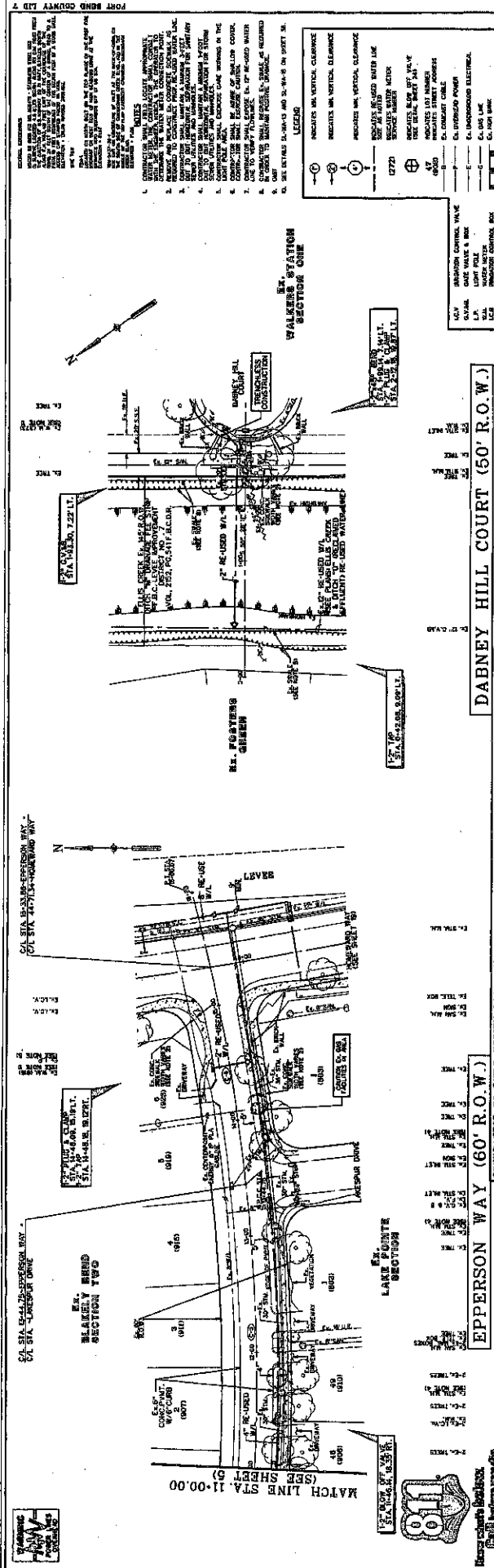
Costello

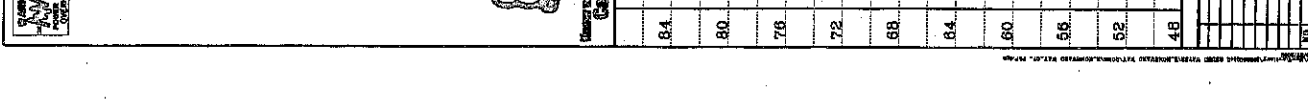
DESIGNED BY: JLV
 CHECKED BY: JLV
 SURVEY CHECKED BY: JLV
 QUOTE BY: JLV
 DATE: 10/1/11

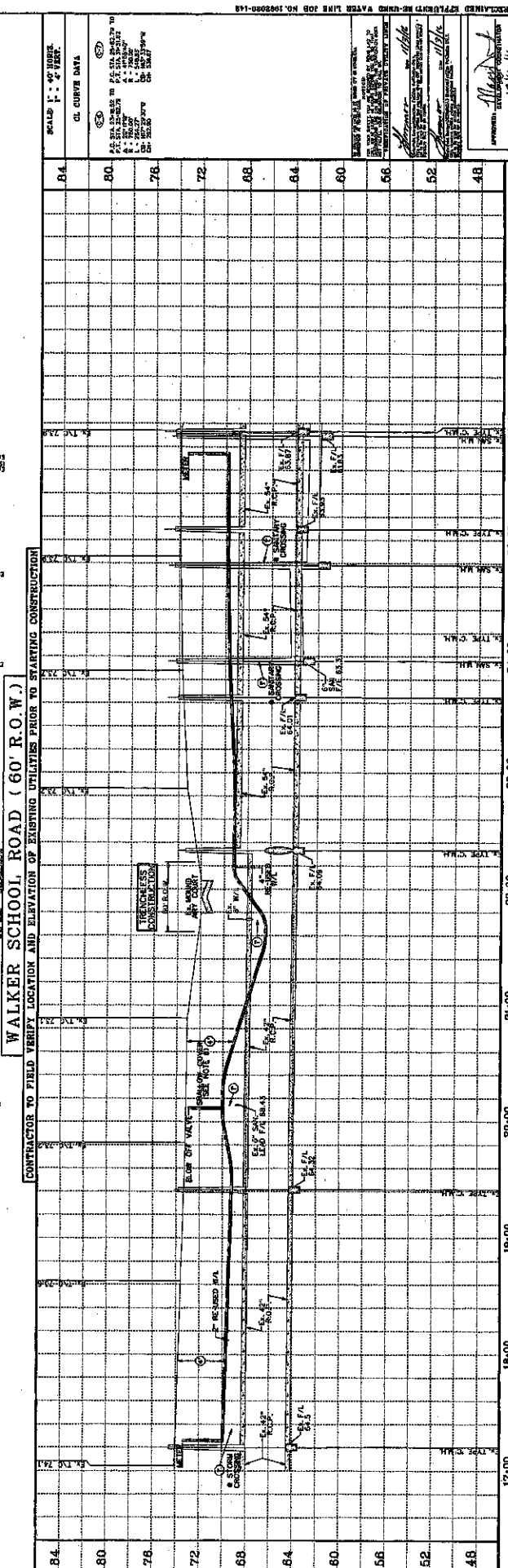
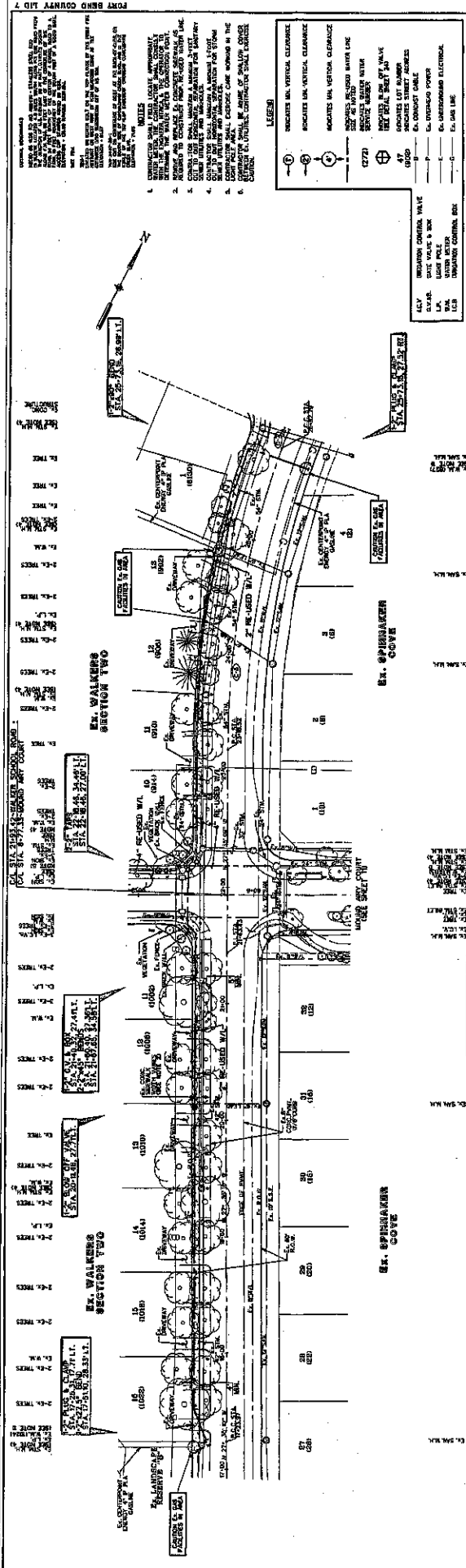
REVISION

APPROVED: [Signature]
 DATE: 12/1/11

SHEET 5
 OF 36
 JOB NO. 1000000-102



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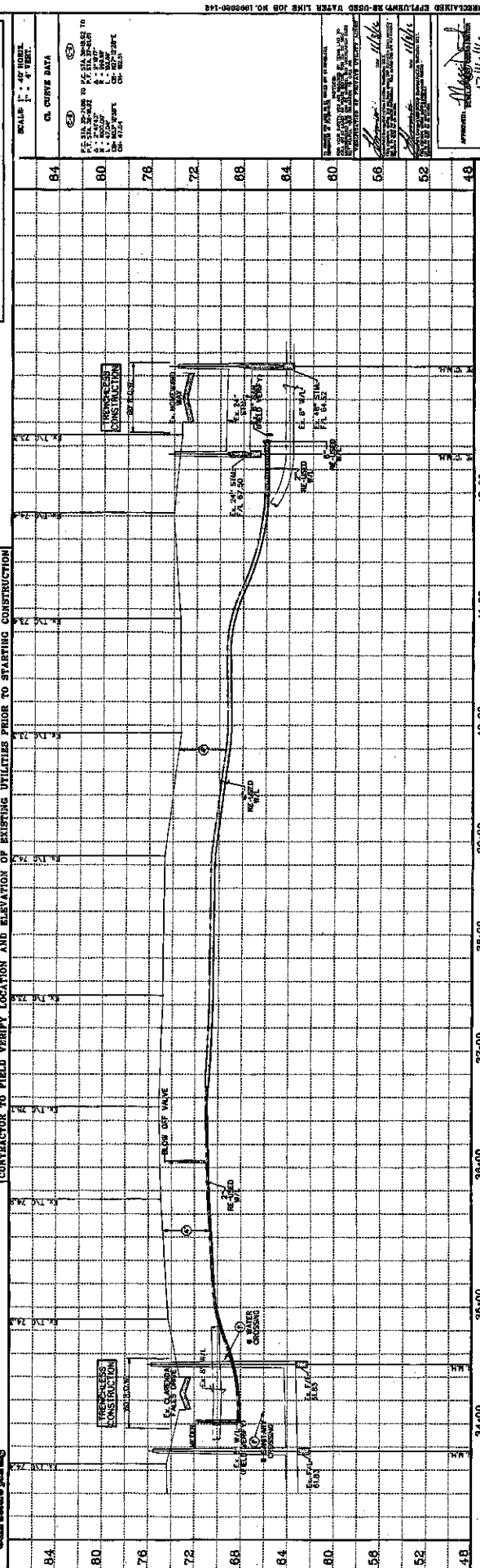
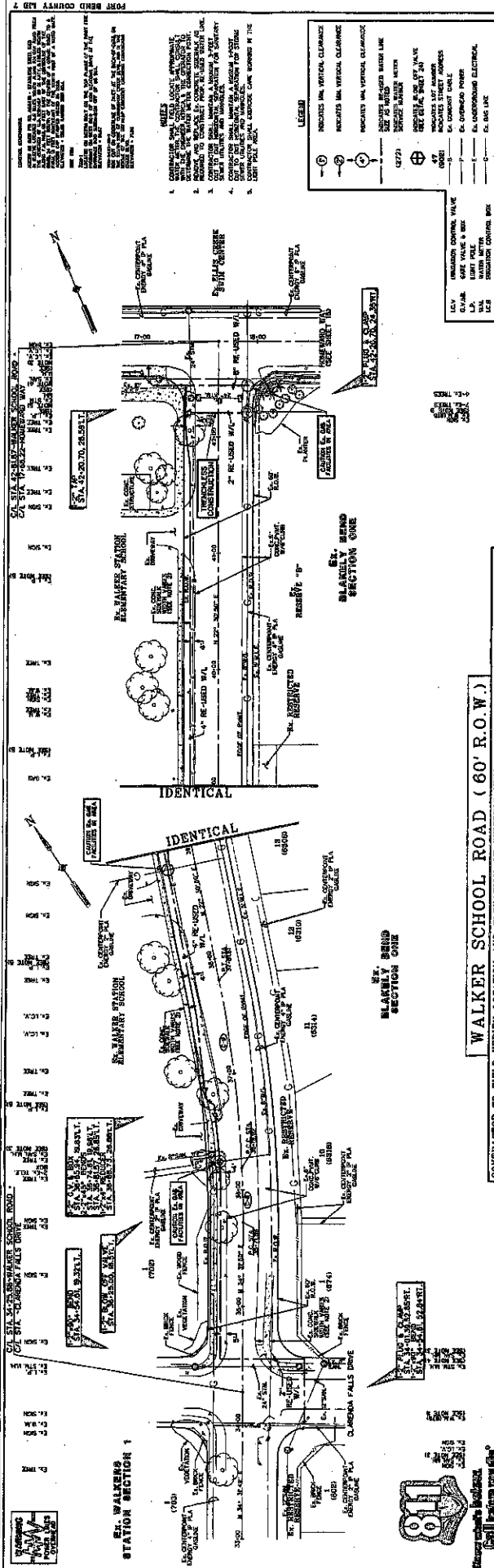
SHEET 9
 DATE 12/11/11
 APPROVED: [Signature]
 NEW TERRITORY
 EAST HONOREAD WAY
 RECLAIMED EFFLUENT RE-USED WATER LINE
 PLAN AND PROFILE
 WALKER SCHOOL ROAD
 STA. 17+00.00 TO STA. 26+00.00

Engineering and Surveying
 9900 Richmond Avenue, Suite 400 N
 Houston, Texas 7702
 (713) 762-7788 (713) 762-3860, Fax
 TBE FIRM REG. NO. 20098
 TBE FIRM REG. NO. 20098

DESIGNED BY: [Signature]
 CHECKED BY: [Signature]
 DRAWN BY: [Signature]
 DATE: 12-11-11
 DATE: 12-11-11

REVISION
 DATE BY

POLY BEND COUNTY LID 7
 1. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
 2. RECLAIMED EFFLUENT RE-USED WATER LINE SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:
 3. THE RECLAIMED EFFLUENT RE-USED WATER LINE SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:
 4. THE RECLAIMED EFFLUENT RE-USED WATER LINE SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:
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 10. THE RECLAIMED EFFLUENT RE-USED WATER LINE SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:



WALKER SCHOOL ROAD (60' R.O.W.)

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

NEW TERRITORY
EAST HONOLULU WAY
RECLAIMED EFFLUENT POND
PLAN AND PROFILE
STA. 33+00.00 TO STA. 42+81.87

Engineering and Surveying
6980 Robinson Avenue, Suite 450 N
Honolulu, Hawaii 96821
(713) 785-1756 (713) 785-3660, Fax
TOLL FREE 1-800-888-8888

Costello

DESIGNED BY: J.L.V.
CHECKED BY: J.L.V.
DRAWN BY: J.L.V.
SURVEY CHECKED BY: J.L.V.
QA/QC BY: J.L.V.

DATE: 11/11/11
REVISION: 1

APPROVED: [Signature]
DATE: 11/11/11

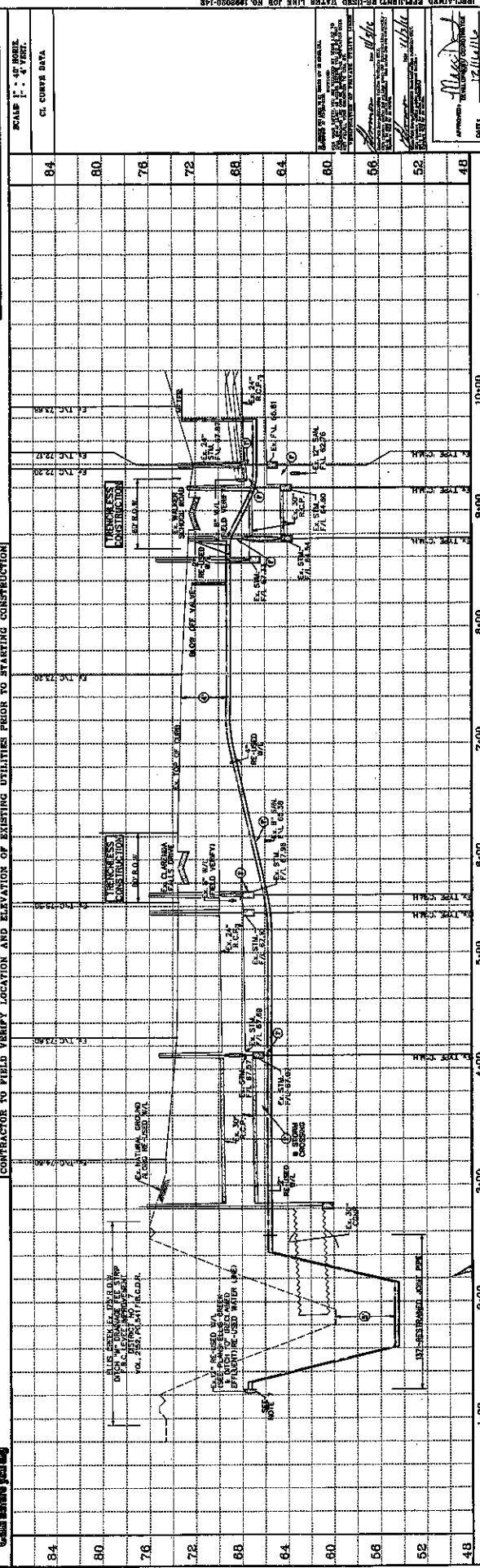
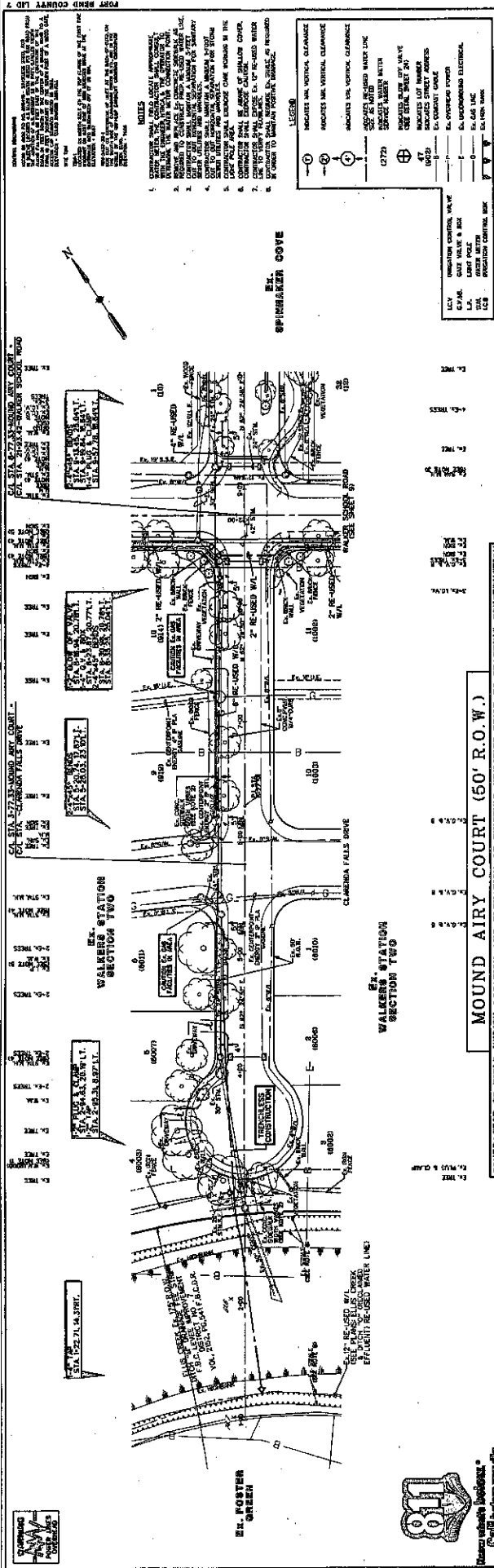
SCALE: 1" = 40' HORIZONTAL
1" = 4' VERTICAL

CL. CURVE DATA

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CL. CURVE DATA

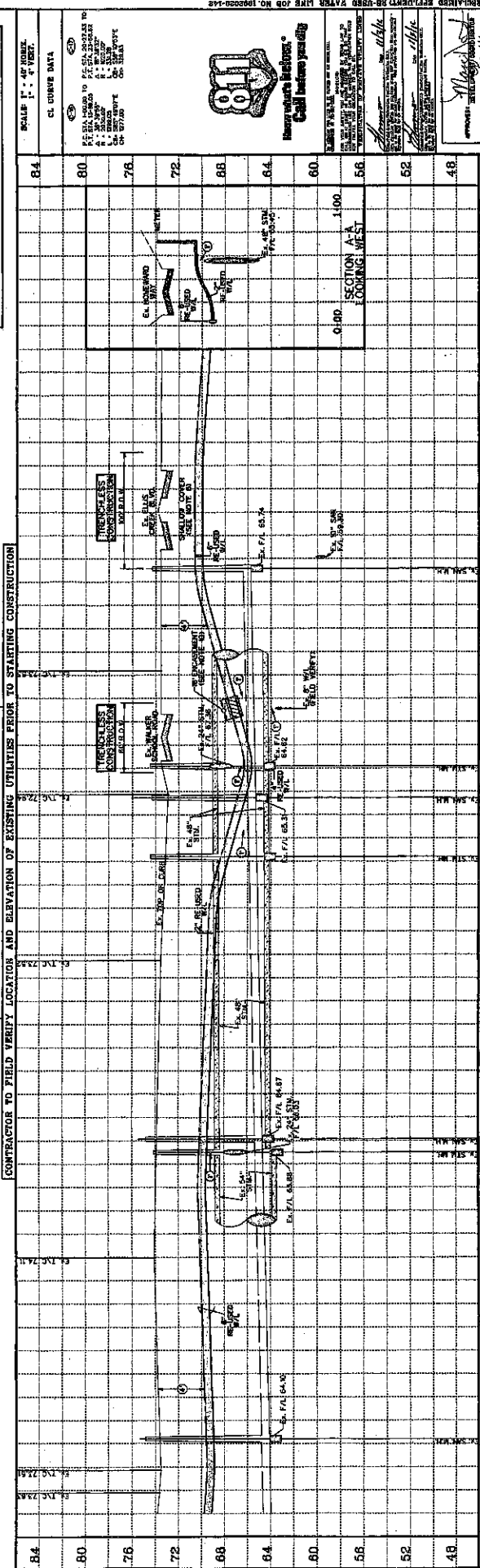
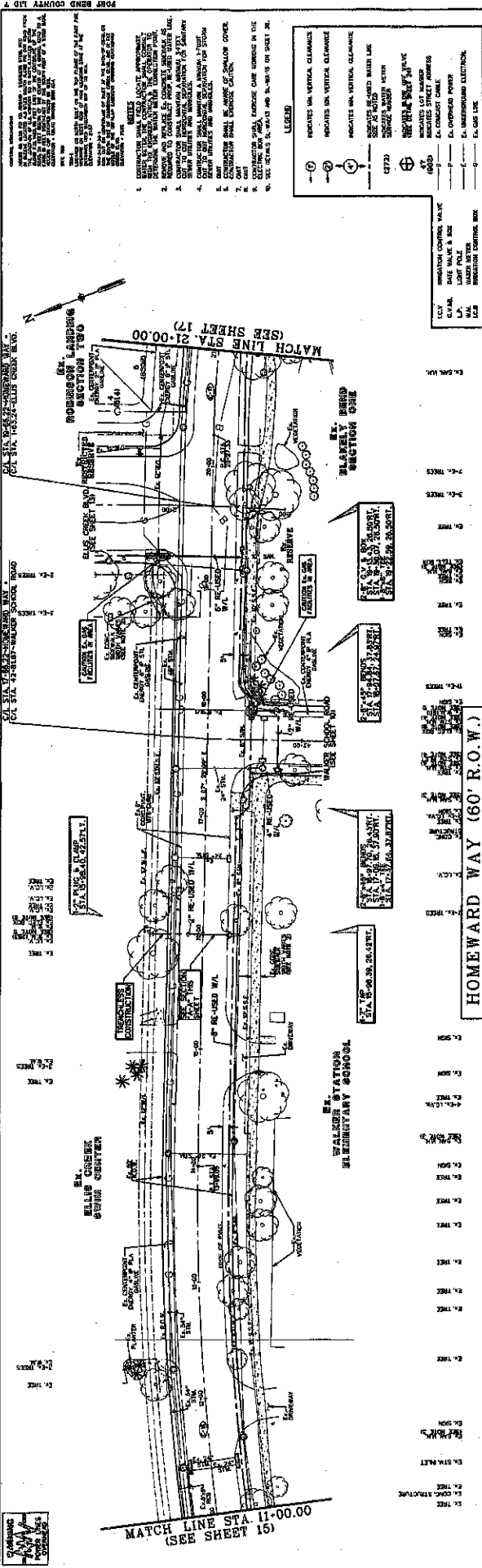
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NEW TERRITORY EAST HOLT AVENUE RECLAIMED SEWER AND WATER LINE MOUND AIRY COURT		SHEET 11 OF 36 SHEETS JOB NO. 099800-148
Engineering and Surveying 9800 Richmond Avenue, Suite 450 N (713) 785-7788 (713) 785-3580 Fax TEXAS FIRST REG. NO. 280 TCELS FIRST REG. NO. 100496		APPROVED BY: <i>[Signature]</i> DATE: 12/11/11
DESIGNED BY: B.L.A. CHECKED BY: B.L.A. CORO CHECKED BY: SURVEY CHECKED BY: QUANT BY: B.S. DATE: 1-2-11 QUANT REVISIONS BY: B.S.	REVISION NO. DATE BY	

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

811
 Call before you dig



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

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

RECLAIMED EFFLUENT RE-USED WATER LINE

PLAN AND PROFILE

STA. 11+00.00 TO STA. 21+00.00

NEW TERRITORY

RECLAIMED EFFLUENT RE-USED WATER LINE

PLAN AND PROFILE

STA. 11+00.00 TO STA. 21+00.00

DESIGNED BY: JAL

DRAWN BY: JAL

CHECKED BY: JAL

DATE: 11/11/16

ENGINEERING AND SURVEYING

8800 Richmond Avenue, Suite 400 N

Houston, Texas 77042

(713) 783-7788 (713) 783-3580 Fax

TPBLS FIRM REG. NO. 280

TPBLS FIRM REG. NO. 100486

REVISION

NO.	DATE	BY
1		

Costello

Engineering and Surveying

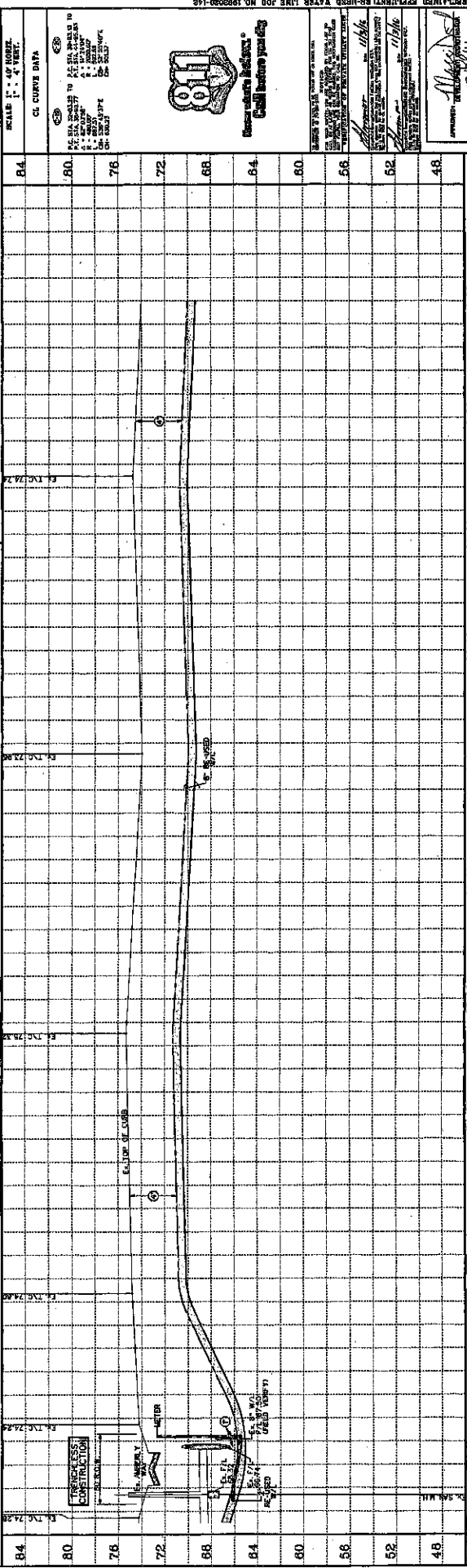
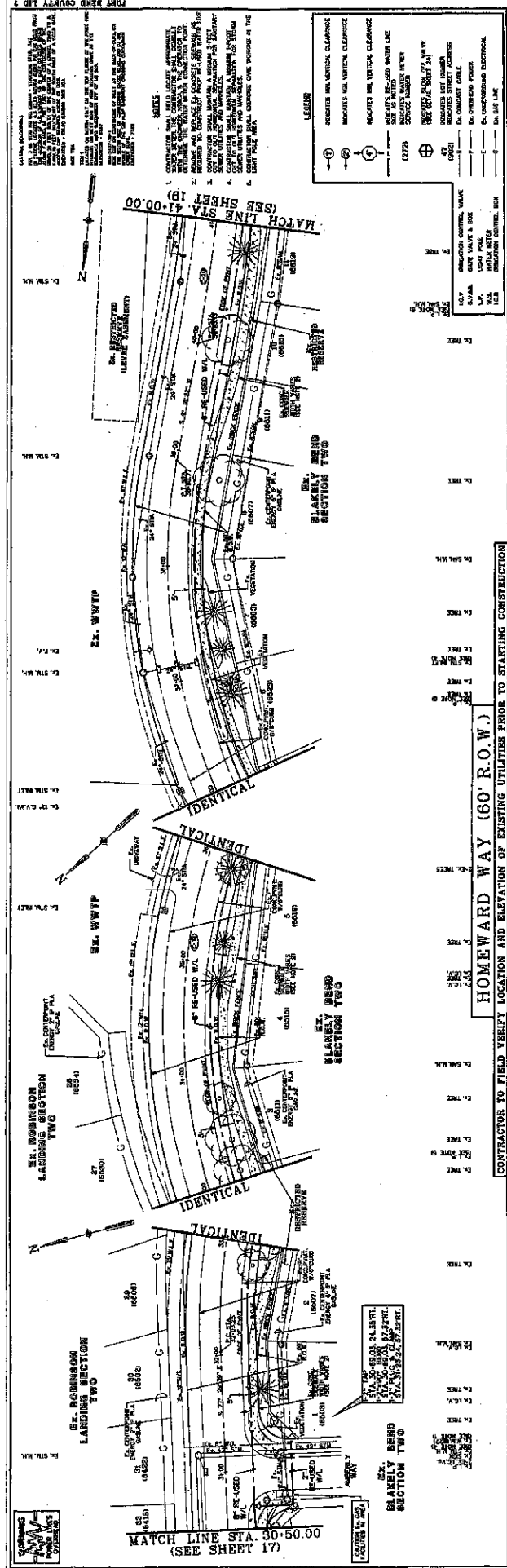
8800 Richmond Avenue, Suite 400 N

Houston, Texas 77042

(713) 783-7788 (713) 783-3580 Fax

TPBLS FIRM REG. NO. 280

TPBLS FIRM REG. NO. 100486



DESIGNED BY: **Costello**

DESIGN CHECKED BY: **STC**

DRAWN BY: **STC**

CHECKED BY: **STC**

DATE: **03-11-11**

DATE: **03-11-11**

RECLAIMED EFFLUENT RE-USED WATER LINE
PLAN AND PROFILE

STA. 30+50.00 TO STA. 41+00.00

NEW TERRITORY
EAST, HOMEWARD WAY

Engineering and Surveying
9950 Richmond Avenue, Suite 450 N
Houston, Texas 77042
(713) 783-7788 (713) 783-3880, Fax
TBL&FHW REG. NO. 10048

REVISION

NO.

DATE

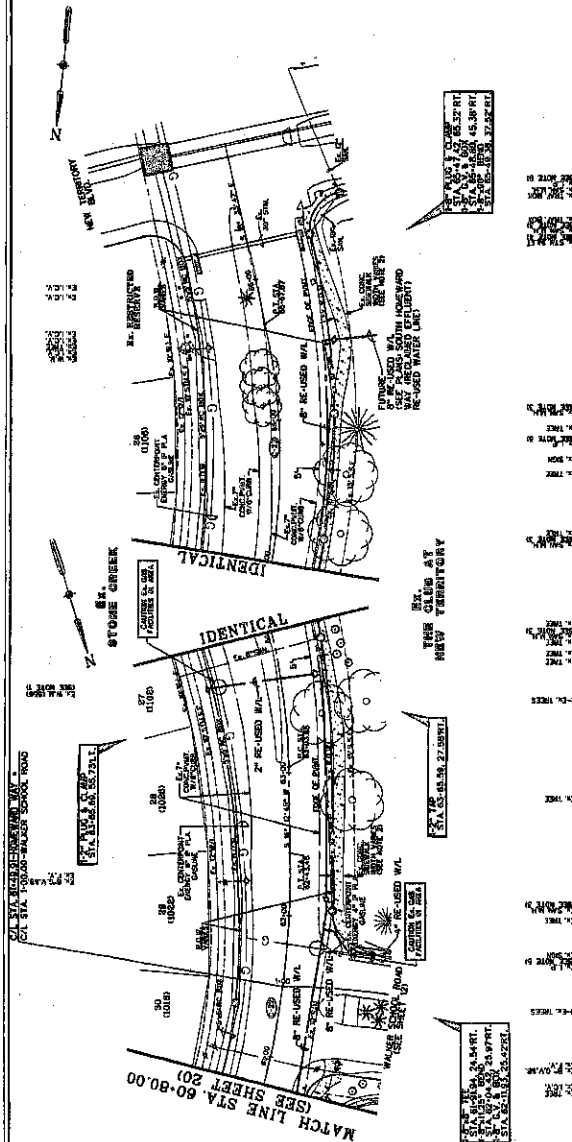
REVISION

NO.

DATE



CL. 11.40 TO 11.45
CL. 11.45 TO 11.50
CL. 11.50 TO 11.55
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CL. 11.65 TO 11.70
CL. 11.70 TO 11.75
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CL. 11.80 TO 11.85
CL. 11.85 TO 11.90
CL. 11.90 TO 11.95
CL. 11.95 TO 12.00



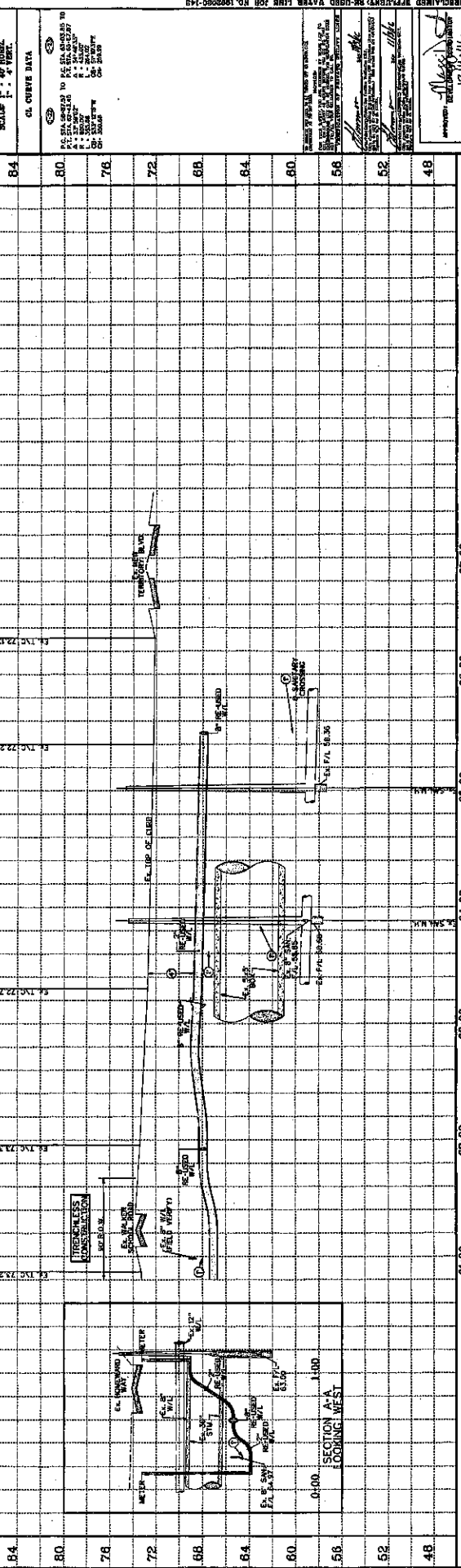
CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.

LEGEND

- 1. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
- 2. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
- 3. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
- 4. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
- 5. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.

HOMEWARD WAY (R.O.W. VARIES)

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



DESIGNED BY: <u>SLA</u>	DATE: <u>10/1/00</u>
CHECKED BY: <u>SLA</u>	DATE: <u>10/1/00</u>
APPROVED BY: <u>SLA</u>	DATE: <u>10/1/00</u>
DATE: <u>10/1/00</u>	DATE: <u>10/1/00</u>

STATION: 60+80.00 TO STA. 67+00.00

NEW TERRITORY
EAST HOMEWARD WAY
RECLAIMED EFFLUENT RE-USED WATER LINE
PLAN AND PROFILE

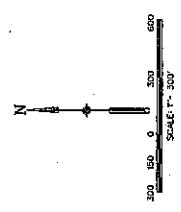
STATION: 60+80.00 TO STA. 67+00.00

Costello

Engineering and Surveying
8660 Richmond Avenue, Suite 450 N
Houston, Texas 77042
(713) 783-7788 (713) 783-3680, Fax
TELEPHONE REG. NO. 280
TELETYPE REG. NO. 10486

SHRIT 21
36
JOB NO. 1000000-142

PORT HEND COUNTY, TEXAS
 EAST HOMETOWN WAY (RECLAIMED EFFLUENT RE-USED WATER LINE)
 POLLUTION PREVENTION PLAN LAYOUT



POLLUTION PREVENTION LEGEND

- INLET PROTECTION REQUIRED
- FILTER FABRIC FENCE
- STABILIZED CONSTRUCTION ACCESS

- NOTES:
1. ALL FILTER FABRIC FENCE 4'-5 FEET AROUND
 2. ALL SOIL STOCKPILES OF SIGNIFICANT SIZE SHALL BE
 3. ALL PROPOSED SHORES TO BE CONSTRUCTED BY THE
 4. DRAINAGE SHALL BE MAINTAINED AND THE LINE SHALL
 5. LOCATED BY THE CONTRACTOR WITHIN A YEAR OF THE
 6. UPON PROJECT COMPLETION, THE ENTIRE DISTURBED AREA
 7. UPON PROJECT COMPLETION AND FINAL STABILIZATION,

EAST HOMETOWN WAY (RECLAIMED EFFLUENT RE-USED WATER LINE) POLLUTION PREVENTION PLAN LAYOUT		SHEET 22 OF 36 JOB NO. 19990000-148
NEW TERRITORY EAST HOMETOWN WAY (RECLAIMED EFFLUENT RE-USED WATER LINE)		
Engineering and Surveying 9900 Richmond Avenue, Suite 450 N Houston, Texas 77042 (713) 786-7786 (713) 786-3660, Fax (713) 786-7786 (713) 786-3660 TOLL FREE 1-800-855-1000		
Costello		
DESIGNED BY: G.A. JAV CHECKED BY: J.A. JAV DATE: 1/1/00	SHEET CHECKED BY: J.A. JAV DATE: 1/1/00	SHEET CHECKED BY: J.A. JAV DATE: 1/1/00
DESIGNED BY: G.A. JAV CHECKED BY: J.A. JAV DATE: 1/1/00	SHEET CHECKED BY: J.A. JAV DATE: 1/1/00	SHEET CHECKED BY: J.A. JAV DATE: 1/1/00

SUMMARY OF LARGE SIGNS

BACKGROUND COLOR	SIGN DESIGNATION	SIGN	SIGN DIMENSIONS	REFLECTIVE SHEETING	SQ. FT.	GALVANIZED STEEL SHEET	DRILLED SHAFT
Orange	C20-7T		96" X 48"	Type B ₁ or C ₁ R.	32	Size 11	24" DIA. (LF)
Orange	C20-7T		192" X 96"	Type B ₁ or C ₁ R.	128	W8x18	16 17 12

▲ See Note 6 Below

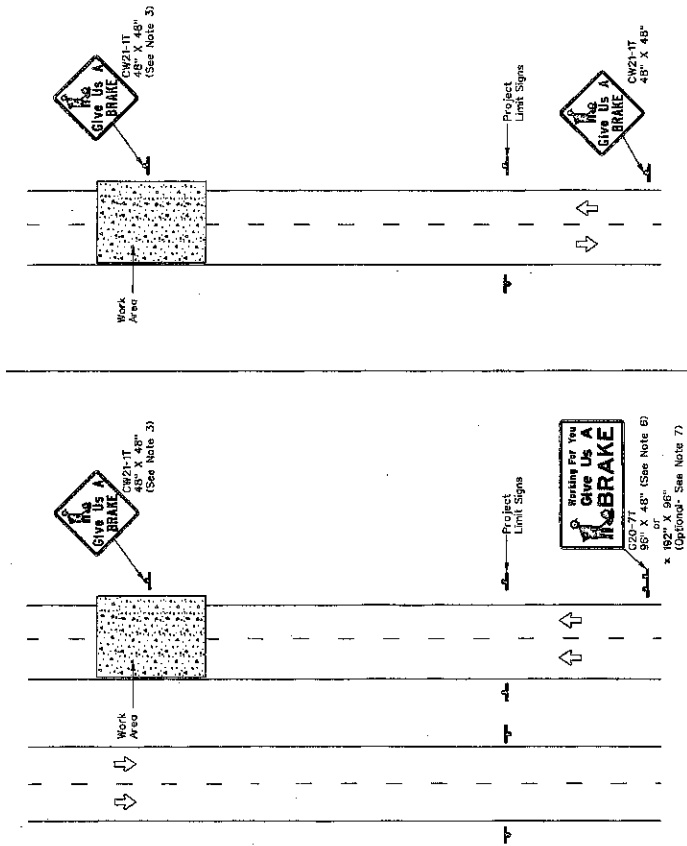
DEPARTMENTAL MATERIAL SPECIFICATIONS	
PLYWOOD SIGN BLANKS	DMS-7100
ALUMINUM SIGN BLANKS	DMS-7110
SIGN FACE MATERIALS	DMS-8300
SHEETING MATERIAL	
COLOR	ORANGE
BACKGROUND	TYPE B ₁ OR TYPE C ₁
LEGEND & BORDERS	NON-REFLECTIVE ACRYLIC FILM

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 (CW21-1T) may be used for this purpose.
4. Work zone speed limits are sometimes used in conjunction with GIVE US A BRAKE signing. See BC(13) for location and spacing of construction speed zone signing when required.
5. Give Us A Brake (CW21-1T) signs and supports shall be considered subsidiary to Item 502, "Barreled, Sign and Traffic Handling."
6. The 96" X 48" Working For You Give Us A Brake (C20-7T) may use a 1/2" or 5/8" plywood substrate or 0.25" aluminum sheeting substrate and may be supported by two 1/2" x 4" x 8" posts from which drilled holes for breakaway as per BC(13) and will be subsidiary to Item 502.
7. The Working For You Give Us A Brake (C20-7T) 96" X 96" sign shall be paid for under the following specification items:
 - Item 647 - Large Roadway Sign Supports and Assemblies.
 - Item 647 - Large Roadway Sign Supports and Assemblies.
 - Item 418 - Drilled Shaft Foundations
8. All signs shall be constructed in accordance with the details found in the "Standard Highway Signs and Supports" manual. Sign details not shown in the manual shall be shown in the plans or the Engineer shall provide details to the Contractor before the sign is manufactured.

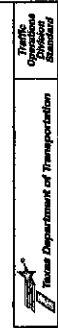
SIGNS ARE SHOWN FOR ONE DIRECTION OF TRAVEL



UNDIVIDED HIGHWAY

DIVIDED HIGHWAY

* When the optional larger WORKING FOR YOU GIVE US A BRAKE (C20-7T) 192" X 96" sign is required, the locations shall be noted elsewhere in the plans.



WORK ZONE
"GIVE US A BRAKE"
SIGNS

WZ(BRK)-13

NO.	DATE	BY	CHKD.	DATE	BY
1	10/10/01	10/10/01	10/10/01	10/10/01	10/10/01
2	10/10/01	10/10/01	10/10/01	10/10/01	10/10/01
3	10/10/01	10/10/01	10/10/01	10/10/01	10/10/01
4	10/10/01	10/10/01	10/10/01	10/10/01	10/10/01
5	10/10/01	10/10/01	10/10/01	10/10/01	10/10/01
6	10/10/01	10/10/01	10/10/01	10/10/01	10/10/01
7	10/10/01	10/10/01	10/10/01	10/10/01	10/10/01
8	10/10/01	10/10/01	10/10/01	10/10/01	10/10/01
9	10/10/01	10/10/01	10/10/01	10/10/01	10/10/01
10	10/10/01	10/10/01	10/10/01	10/10/01	10/10/01



Engineering and Surveying
9900 Richmond Avenue, Suite 400 N
Houston, Texas 77042
(713) 783-7788 (713) 783-3680, Fax
TELEX FROM REG. NO. 280
TBLT-HM REG. NO. 10466

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

APPROVED:
DATE: 12/11/01
SHEET: 25
OF 36
JOB NO. 10000000-142

CONCRETE/PAVING NOTES:

- [illegible]

HOT MIX ASPHALTIC BASE COURSE:

- BANK SAND:

[illegible][illegible]

- [illegible]

4. NO SUBGRADE SHALL BE COVERED WITH ANOTHER MATERIAL UNLESS APPROVED BY THE CITY OF CUL-DE-SAC.

EDITIONS AND ANY REVISIONS THEREOF.

Costello



Costello

TYPE FIRM REG. No. 280
TYPE FIRM REG. No. 100498

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

Max De 12/16/11



40 27 10

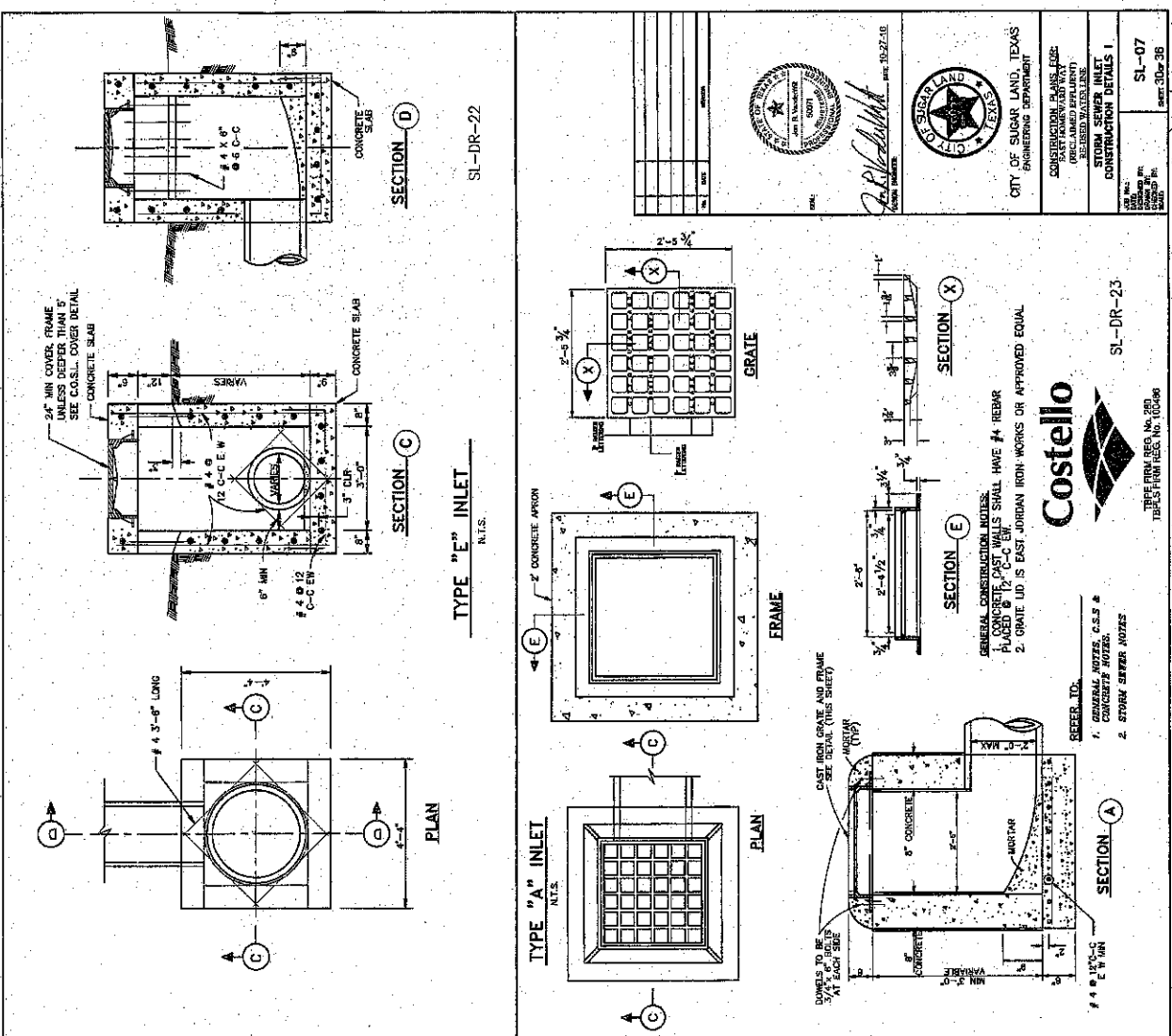
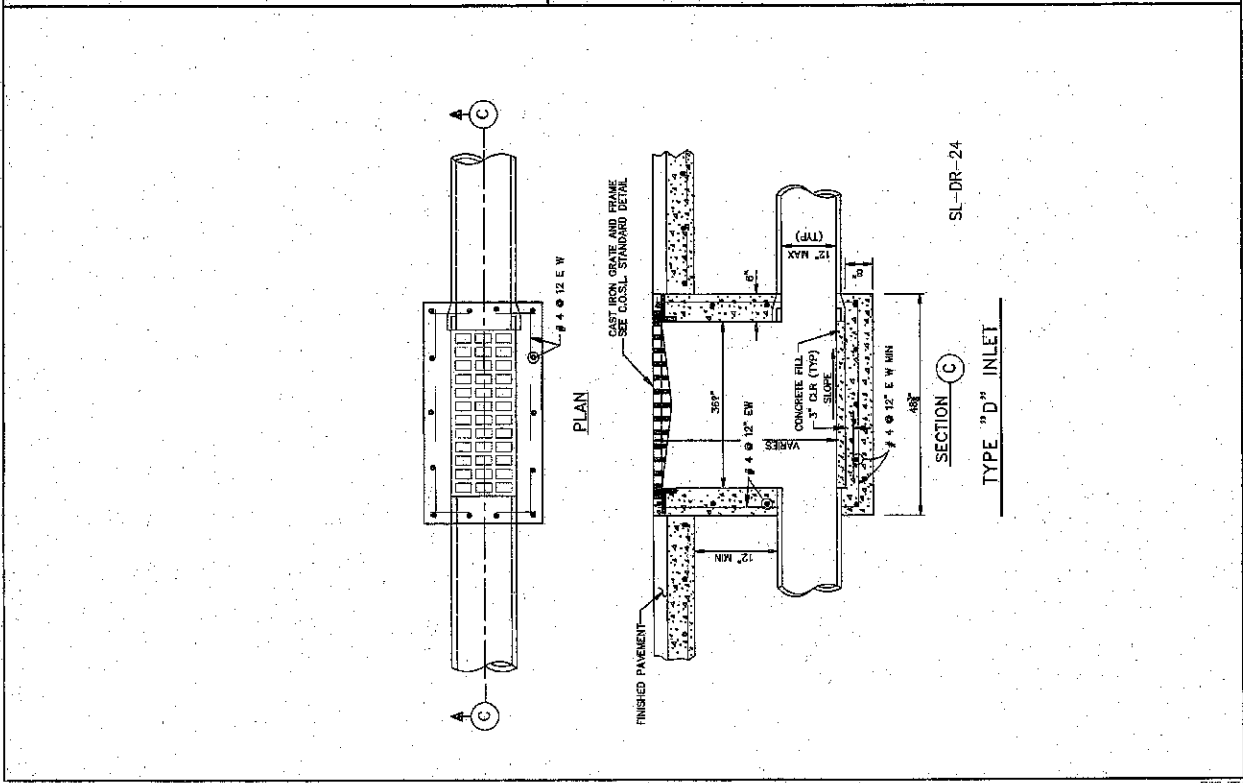
CITY OF SUGAR LAND, TEXAS

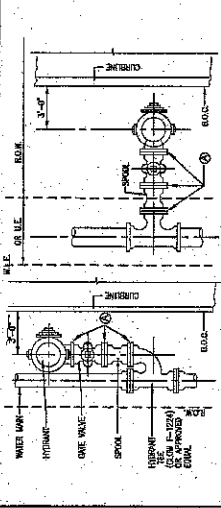
CONSTRUCTION PLANS FOR:
EAST HONEYDALE WAY
(RECLAIMED EFFLUENT)
RE-USED WATER LINE

GENERAL CONSTRUCTION NOTES

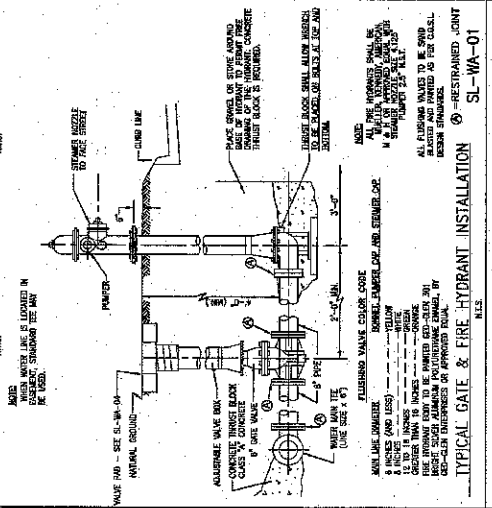
SL-01

Sheet 21 of 30

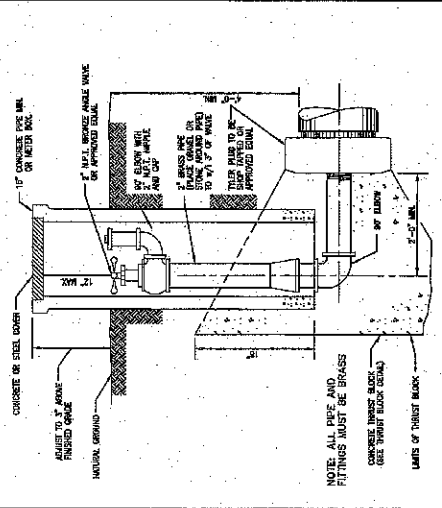




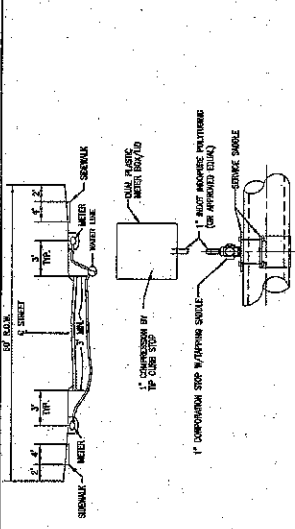
R.O.W. INSTALLATION
EASEMENT INSTALLATION



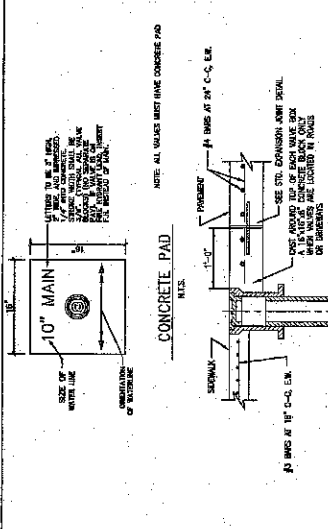
TYPICAL GATE & FIRE HYDRANT INSTALLATION
SL-WA-01



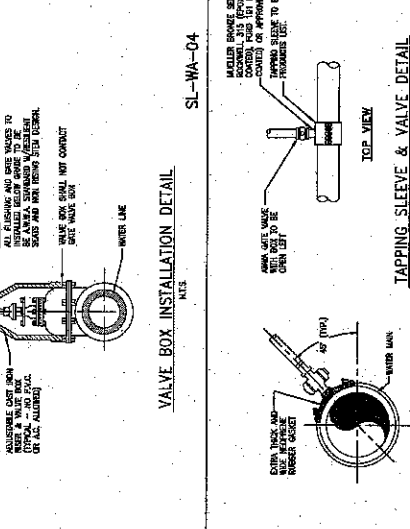
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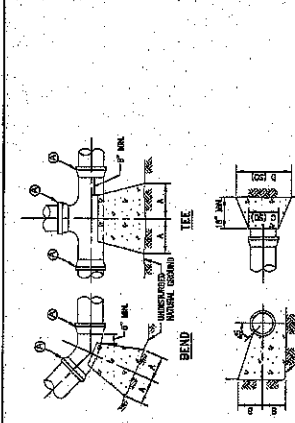
WATER SERVICE CONNECTION
AND
WATER SERVICE TAPPING ASSEMBLY DETAIL
SL-WA-03



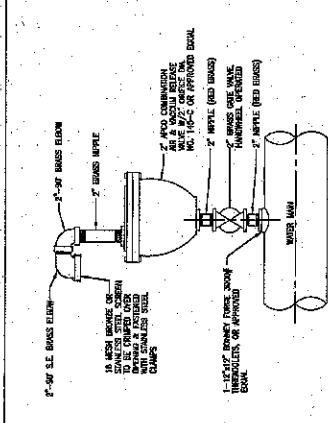
VALVE BOX INSTALLATION DETAIL
SL-WA-04



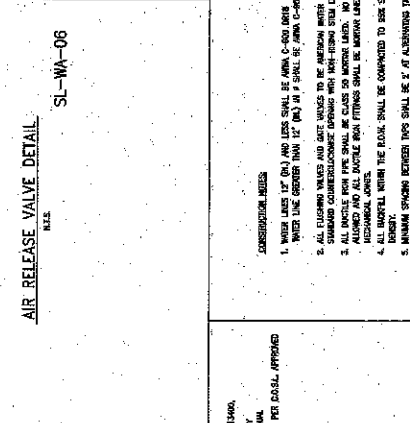
TAPPING SLEEVE & VALVE DETAIL
SL-WA-07



THRUST BLOCK DETAIL
SL-WA-05



AIR RELEASE VALVE DETAIL
SL-WA-06



CONSTRUCTION NOTES
SL-WA-08

NOTES:
POLYETHYLENE WRAP FOR IRON PIPE

1. POLYETHYLENE WRAP SHALL BE USED AS A MEANS TO PROTECT CAST IRON AND OTHER METALS IN A CORROSION PROTECTANT.
2. A 1 MIL POLYETHYLENE WRAP SHALL BE REQUIRED AROUND ALL METAL PIPE.
3. POLYETHYLENE WRAP SHALL BE APPLIED TO ALL METAL PIPE.
4. POLYETHYLENE WRAP SHALL BE APPLIED TO ALL METAL PIPE.
5. POLYETHYLENE WRAP SHALL BE APPLIED TO ALL METAL PIPE.

BENDS, TEES & PLUGS FOR PIPE OF VARIOUS SIZES

SIZE	10\"/>
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CONSTRUCTION NOTES

1. WATER MAIN 12\"/>

CONSTRUCTION DETAILS

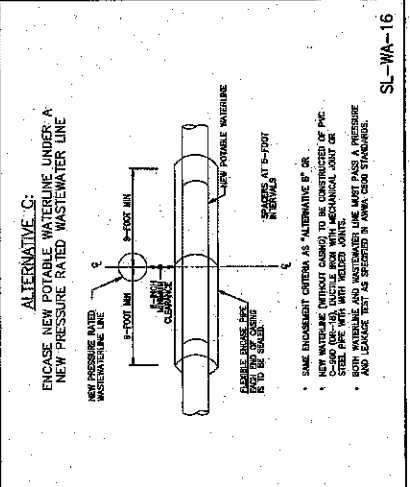
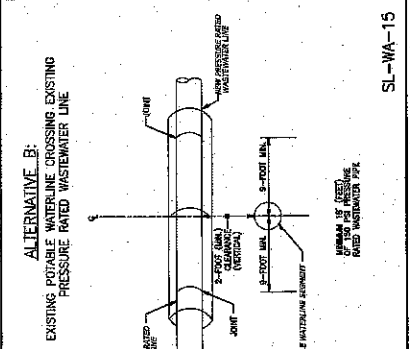
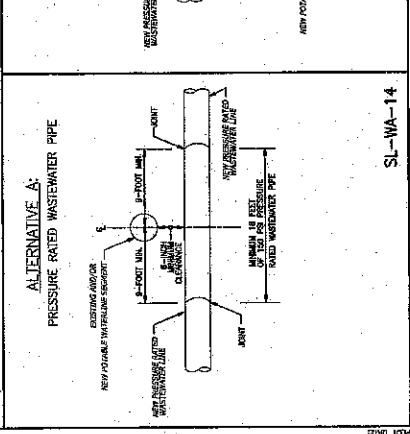
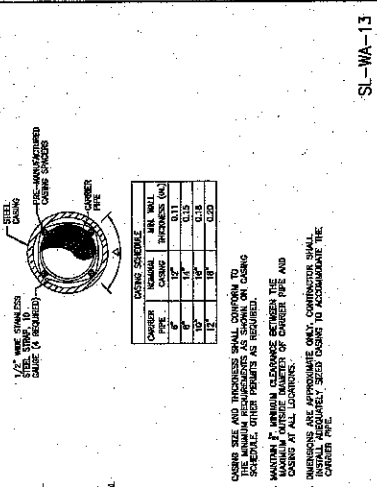
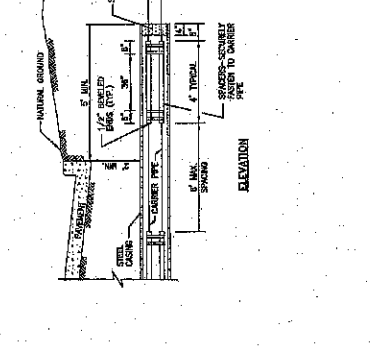
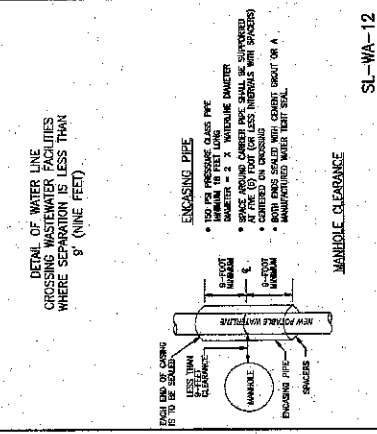
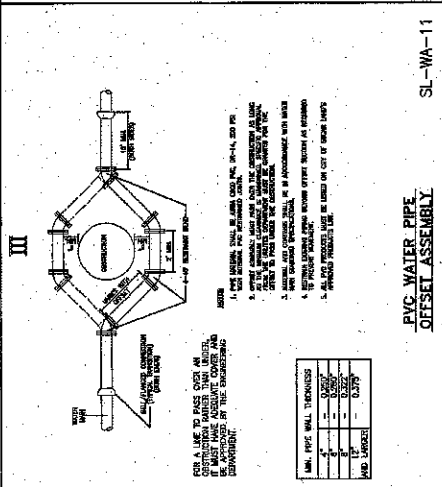
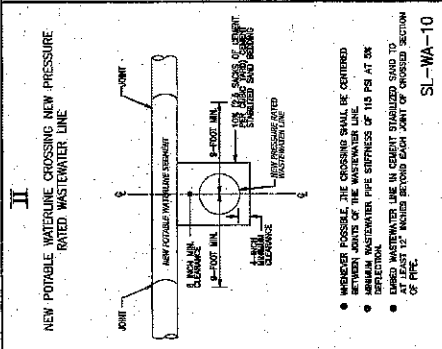
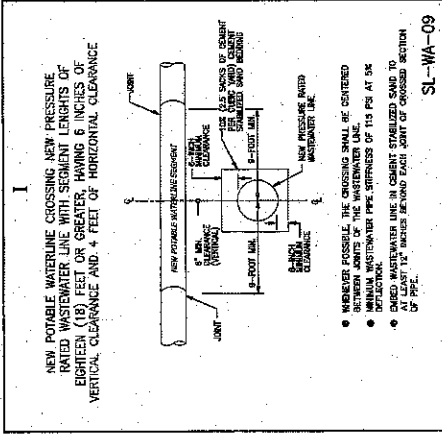
WATER LINE

SL-WA-08

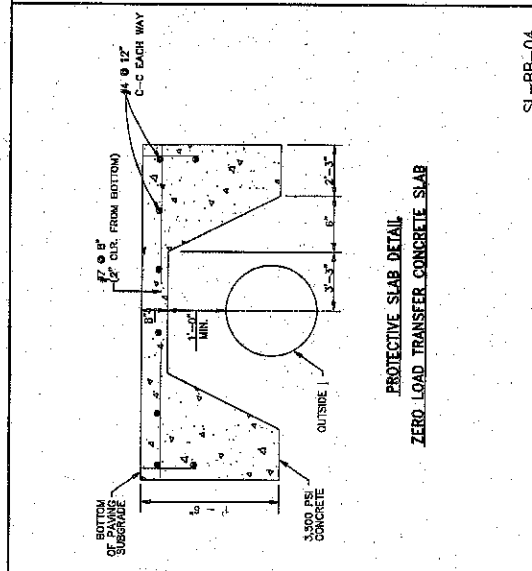
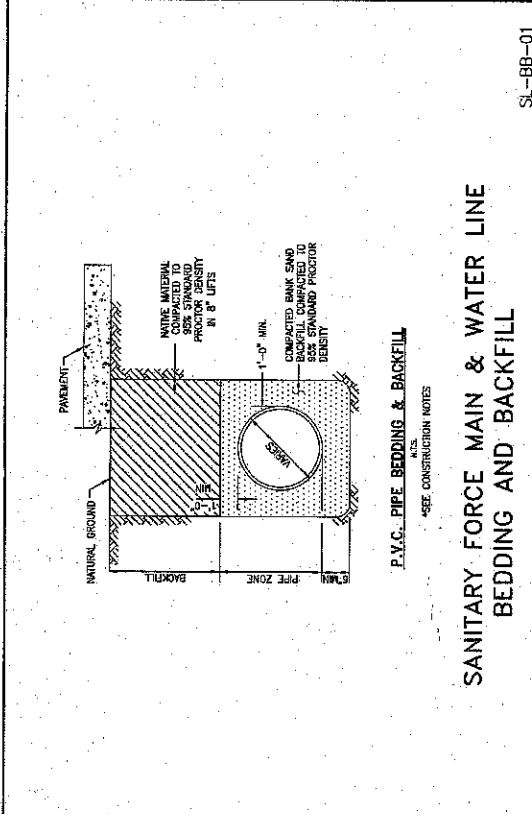
CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT
CONSTRUCTION STANDARDS
BAYSHOREWAY DRIVE
SUGAR LAND, TEXAS 77478

SL-WA-08
REVISED BY
DATE

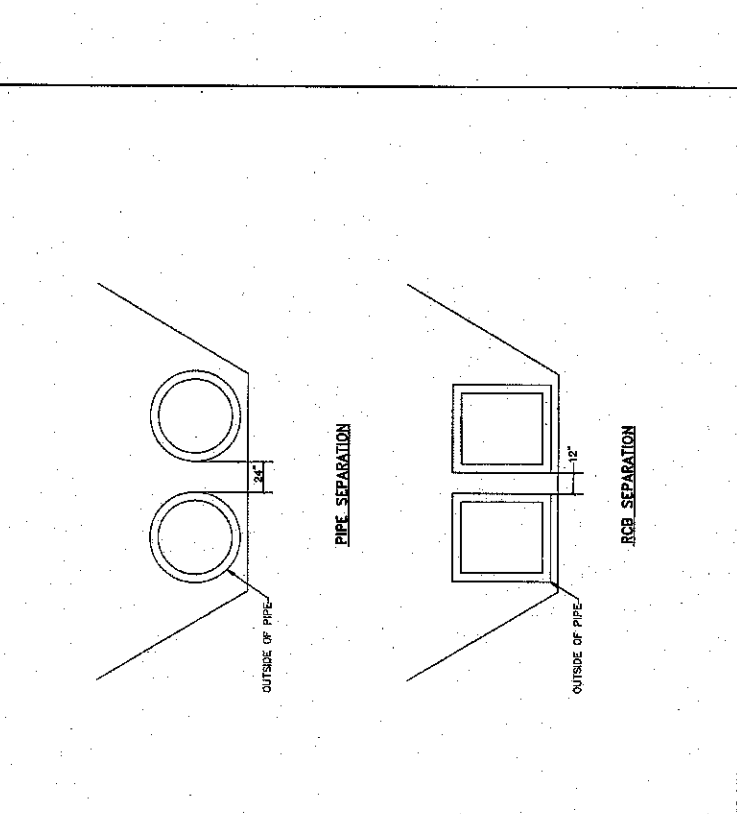
12/11/16



CITY OF SUGAR LAND, TEXAS ENGINEERING DEPARTMENT CONSTRUCTION PLANS FOR: 1/2" = 1' REINFORCED CONCRETE WATER PUMP FOUNDATION AND WATER LATERAL WATER LINE CROSSING DETAILS		SL-16 SHEET 329 OF 330
CITY OF SUGAR LAND, TEXAS ENGINEERING DEPARTMENT CONSTRUCTION PLANS FOR: 1/2" = 1' REINFORCED CONCRETE WATER PUMP FOUNDATION AND WATER LATERAL WATER LINE CROSSING DETAILS		SL-16 SHEET 329 OF 330



- CONSTRUCTION NOTES**
1. CONTRACTOR SHALL CONTACT SUGAR LAND ENGINEERING DEPARTMENT IMMEDIATELY IF WET SAND CONDITIONS ARE ENCOUNTERED.
 2. LIMESTONE AND RECYCLED CONCRETE DIMENSIONS SHOWN ARE TYPICAL BUT MAY BE VARY BY ORDER OF CITY ENGINEER.
 3. LIMESTONE OR RECYCLED DIMENSIONS SHALL BE IN ACCORDANCE WITH TEXAS SPECIFICATION NO. 244 FLOOR BASE, TYPE A, GRADE 2.
 4. NO BEDDING SHALL BE INSTALLED IN WET CONDITIONS. WHEN WELL PUMPING OR IN WET SAND CONDITIONS, MAINTAIN GROUND WATER 1 (FT) BELOW BOTTOM OF TRENCH FOR A MINIMUM OF 24-HRS AFTER BEDDING AND BACKFILL IS IN PLACE.
 5. ALL MATERIALS SHALL BE FROM THE APPROVED PRODUCTS LIST UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER.
 6. SANITARY SEWER BEDDING FOR WET SAND CONDITIONS SHALL BE AS PER WORKED "A".
 7. ALL SAND BEDDING FOR WATER LINES SHALL BE CLEAN, MECHANICALLY COMPACTED BANK SAND.
 8. REFER TO: MINOR DETAIL, SANITARY C.S.S., GENERAL, WATER CROSSING, WATER DISTRIBUTION DETAILS AND NOTES.
 9. ALL BEDDING WILL BE COMPACTED TO 82% STANDARD PROCTOR DENSITY. TO A PERFORMANCE 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



MODIFIED "A"
N.T.S.

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

**SANITARY SEWER
BEDDING AND BACKFILL**

SL-BB-03

REFER TO:

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

Costello

PROFESSIONAL ENGINEER
NO. 200
EXPIRATION DATE 12/31/2025
TELEPHONE NO. 150866

CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT

CONSTRUCTION PLANS FOR:
SUGAR LAND WATER TREATMENT PLANT
(RELAND 19TH UNIT)
EAST TOWNSHIP ROAD WAY

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

SL-19

DATE: 12/16/14

HYPER-CHLORINATED WATER NOTES

1. HYPER-CHLORINATED WATER SHALL NOT BE DISCHARGED TO THE STORM DRAINAGE SYSTEM UNLESS IT IS FIRST TREATED TO A pH OF 6.5 OR LESS BY CHEMICALLY ADDING THE HYDROLYSIS PRODUCT TO A pH OF 6.5 OR LESS BY CHEMICALLY ADDING THE HYDROLYSIS PRODUCT.
2. HYPER-CHLORINATED WATER SHALL NOT BE DISCHARGED TO THE STORM DRAINAGE SYSTEM UNLESS IT IS FIRST TREATED TO A pH OF 6.5 OR LESS BY CHEMICALLY ADDING THE HYDROLYSIS PRODUCT.
3. HYPER-CHLORINATED WATER SHALL NOT BE DISCHARGED TO THE STORM DRAINAGE SYSTEM UNLESS IT IS FIRST TREATED TO A pH OF 6.5 OR LESS BY CHEMICALLY ADDING THE HYDROLYSIS PRODUCT.
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6. HYPER-CHLORINATED WATER SHALL NOT BE DISCHARGED TO THE STORM DRAINAGE SYSTEM UNLESS IT IS FIRST TREATED TO A pH OF 6.5 OR LESS BY CHEMICALLY ADDING THE HYDROLYSIS PRODUCT.

SPILL AND LEAK RESPONSE NOTES

1. RECORDS OF RELEASES THAT EXCEED THE REQUIREMENT QUANTITY (RQ) FOR OIL AND HAZARDOUS SUBSTANCES SHOULD BE MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FEDERAL OIL POLLUTION ACT (OPA) AND THE FEDERAL HAZARDOUS MATERIALS RESPONSE ACT (HMTA).
2. EMERGENCY CONTACT INFORMATION AND SPILL RESPONSE PROCEDURES SHALL BE MAINTAINED AT ALL TIMES AND SHALL BE AVAILABLE FOR ALL EMPLOYEES AND SUBCONTRACTORS.
3. ALL EMPLOYEES AND SUBCONTRACTORS SHOULD BE TRAINED IN THE PROPER USE OF SPILL RESPONSE EQUIPMENT AND PROCEDURES.
4. SPILL KITS ARE REQUIRED FOR ALL SPILLS OF HAZARDOUS MATERIALS IN THE WORK AREA.
5. SPILL KITS ARE REQUIRED FOR ALL SPILLS OF HAZARDOUS MATERIALS IN THE WORK AREA.
6. SPILL KITS ARE REQUIRED FOR ALL SPILLS OF HAZARDOUS MATERIALS IN THE WORK AREA.
7. SPILL KITS ARE REQUIRED FOR ALL SPILLS OF HAZARDOUS MATERIALS IN THE WORK AREA.

SANITARY WASTE NOTES

1. THE CONTRACTOR SHALL PROVIDE AN APPROPRIATE NUMBER OF PORTABLE TOILETS BASED ON THE NUMBER OF EMPLOYEES USING THE TOILETS AND THE DURATION OF THE PROJECT.
2. SANITARY FACILITIES SHALL BE PLACED ON A MINIMUM OF 50 FEET AWAY FROM ANY EXISTING OR PROPOSED WATERWAYS, DRAINAGE CHANNELS, OR OTHER SENSITIVE AREAS.
3. SANITARY FACILITIES SHALL BE MAINTAINED IN A CLEAN AND HYGIENIC MANNER AT ALL TIMES.
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8. SANITARY FACILITIES SHALL BE MAINTAINED IN A CLEAN AND HYGIENIC MANNER AT ALL TIMES.

SUBGRADE STABILIZATION NOTES

1. MINIMIZE THE DISCHARGE OF THE CHEMICAL STABILIZERS BY THE APPLICATION OF THE STABILIZER TO THE SUBGRADE SURFACE.
2. STABILIZATION SHALL NOT OCCUR IMMEDIATELY AFTER AND DURING RAINFALL.
3. STABILIZATION SHALL NOT OCCUR IMMEDIATELY AFTER AND DURING RAINFALL.
4. STABILIZATION SHALL NOT OCCUR IMMEDIATELY AFTER AND DURING RAINFALL.
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7. STABILIZATION SHALL NOT OCCUR IMMEDIATELY AFTER AND DURING RAINFALL.
8. STABILIZATION SHALL NOT OCCUR IMMEDIATELY AFTER AND DURING RAINFALL.

DEBRIS AND TRASH NOTES

1. ALL WASTE SOURCES AND STORAGE AREAS SHALL BE LOCATED A MINIMUM OF 50 FEET AWAY FROM ALLEYS, STREETS, DRAINAGE, WATER CHANNELS, AND OTHER SENSITIVE AREAS.
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8. ALL WASTE SOURCES AND STORAGE AREAS SHALL BE LOCATED A MINIMUM OF 50 FEET AWAY FROM ALLEYS, STREETS, DRAINAGE, WATER CHANNELS, AND OTHER SENSITIVE AREAS.



THE CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT

CONSTRUCTION PLANS, SPECIFICATIONS, AND CONDITIONS
(REVISIONS AND SUPPLEMENTAL NOTES)
12-16-11

GENERAL EROSION CONTROL NOTES

1. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED AT ALL TIMES.

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12-16-11



CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT

CONSTRUCTION PLANS, SPECIFICATIONS, AND CONDITIONS
(REVISIONS AND SUPPLEMENTAL NOTES)
12-16-11

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5. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED AT ALL TIMES.

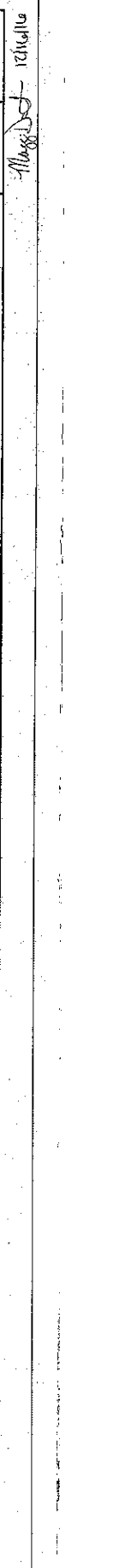
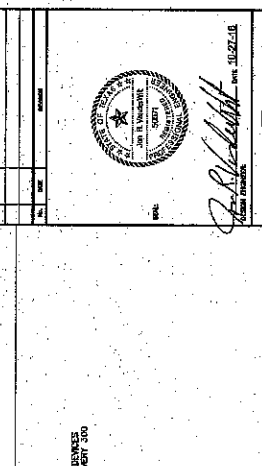
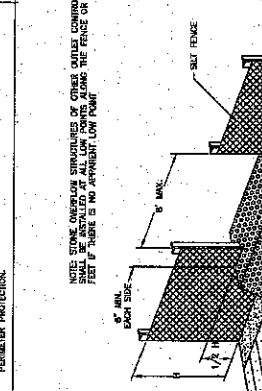
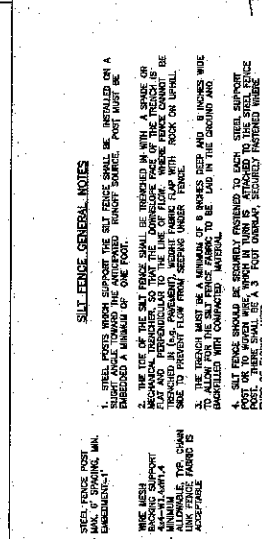
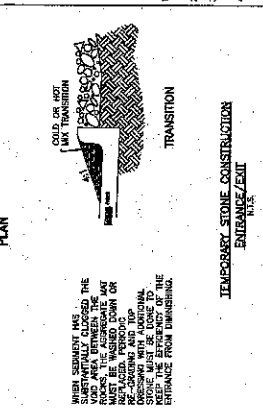
6. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED AT ALL TIMES.

7. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED AT ALL TIMES.

8. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED AT ALL TIMES.

9. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED AT ALL TIMES.

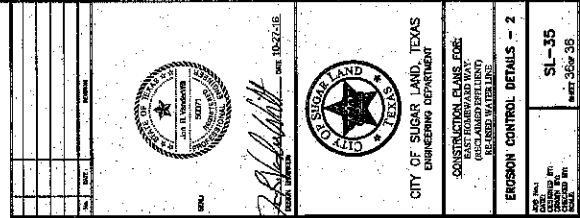
10. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED AT ALL TIMES.



1. TYPE OF NETTING, FILTER MATERIAL, DIAMETER OF TUBE, AND SPACING OF TUBES SHALL BE SPECIFIED BY THE DESIGNER BASED ON THE FOLLOWING SITE PARAMETERS:
 - TYPE OF CONTAMINATING DRAINAGE AREA
 - PERCENTAGE OF SLOPE
 - SLOPE LENGTH
 - GROUND CONDITIONS (SOIL OR PAVEMENT)
2. DESIGNER SHALL SHOW ON THE DRAWINGS THE LOCATIONS WHERE TUBES ARE TO BE TURNED UPSLOPE. UPSLOPE LENGTHS SHALL BE MINIMUM OF 10 FEET.



N.T.S.

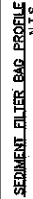


1. SWEDBAGS MAYBE REPLACED BY A SOIL BEEM TO ANCHOR THE PLASTIC BAG

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Mass. Def. - 12/11/16



DEWATERING CONTROLS
N.T.S.

END FILE PATH
PLOT DATE: