

**REVIEW BY FORT BEND COUNTY
COMMISSIONERS COURT**

**Fort Bend County
Engineering Department**
301 Jackson Suite 401
Richmond, Texas 77469
281.633.7500
Permits@fortbendcountytx.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. 2017-14600-00 **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 Muyers, seconded by Commissioner Morales, 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 7-17-2017 Comm. Court No. 19D

N/A

Clerk of Commissioners Court

By: _____
Drainage District Engineer/Manager

By: Anda Willis
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: [REDACTED] 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

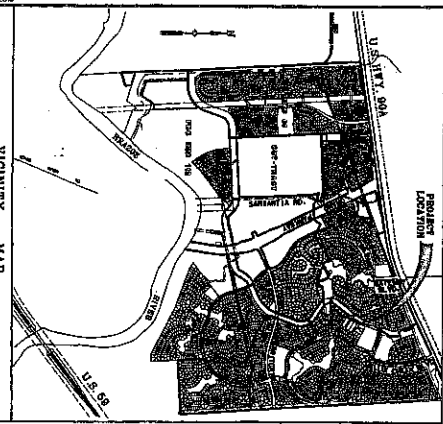
Permit Administrator

6/30/17

Date

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

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



Costello
Engineering and Surveying
8900 Richmond Avenue, Suite 400 N
Houston, Texas 77042
(713) 783-7788 (713) 783-3580, Fax
TBE'S FROM REG. NO. 280
TBE'S FROM REG. NO. 10348

DATE: 12/06/16

APPROVED: [Signature]

CITY OF BEND: [Signature]

811
Bend City Public Works

CONTACT NUMBER: 281-275-2700

CITY OF BEND: [Signature]

DATE: 12/06/16

APPROVED: [Signature]

CITY OF BEND: [Signature]

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
1	GENERAL NOTES
2	GENERAL LAYOUT
3	WATER LINE LAYOUT
4	PROPOSED WATER LINE LAYOUT
5	PROPOSED WATER LINE LAYOUT
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99	PROPOSED WATER LINE LAYOUT
100	PROPOSED WATER LINE LAYOUT

ACQUISITION AND CONSTRUCTION NOTES

- [illegible]

CALL OUT	PVC C-900	HDPE C-500
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8	8	10
10	10	12
12	12	14
14	14	16
16	16	18
18	18	20

- [illegible]

INSTRUCTIONS - GREENSHEET

- [illegible]

811
Before you dig, call 811. It's free.

WARNING
ARM
POWER LINES
OVERHEAD

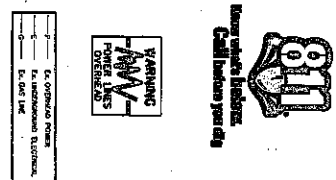
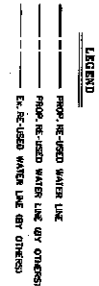
CLAIMED EFFLUENT) RE-USED WATER LINE

CONSTRUCTION NOTES

36

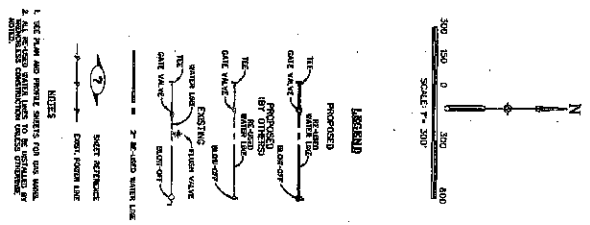
1. 姓名: 张三 2. 性别: 男 3. 年龄: 25 4. 职业: 教师 5. 籍贯: 广东 6. 民族: 汉族 7. 婚姻状况: 已婚 8. 学历: 本科 9. 学位: 硕士 10. 职称: 副教授 11. 工作单位: 广东省教育厅 12. 联系电话: 138-1234-5678 13. 电子邮箱: zhangsan@example.com 14. 身份证号: 440101199801010001 15. 住址: 广州市天河区珠江新城 16. 邮编: 510620 17. 血型: O 18. 身高: 175cm 19. 体重: 70kg 20. 爱好: 阅读、运动 21. 特长: 写作、演讲 22. 座右铭: 天道酬勤 23. 自我评价: 积极向上, 责任心强 24. 家庭成员: 父母、妻子、女儿 25. 其他信息: 无不良嗜好

FOR: BRND COUNTY LID

[illegible]

36	3	36	3
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4
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[illegible]



CA STA 5+44.25-EPERSON HWY -
CA STA 4+71.15-DAWSON HWY

BLAKEY BRIDGE
SECTION TWO

CA STA 5+44.25-EPERSON HWY -
CA STA 4+71.15-DAWSON HWY

CA STA 5+44.25-EPERSON HWY -
CA STA 4+71.15-DAWSON HWY

MATCH LINE STA. 11+00.00
(SEE SHEET 5)

LANE POINT
SECTION

WALKERS STATION
SECTION ONE

Engineering and Surveying
Costello

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

DABNEY HILL COURT (60' R.O.W.)

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

CL. CURVE DATA

CA STA 5+44.25-EPERSON HWY -
CA STA 4+71.15-DAWSON HWY

NO.	DATE	BY
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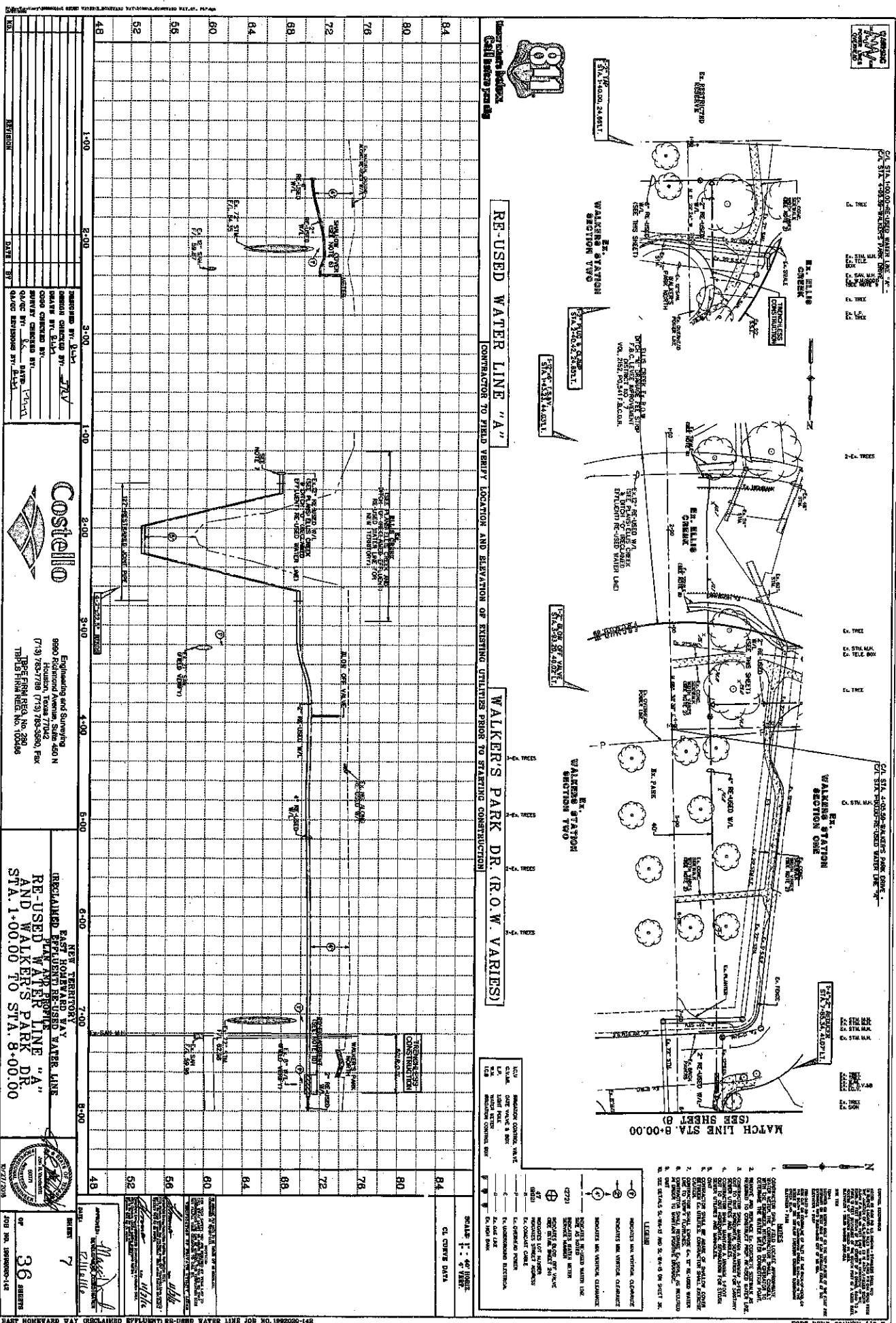


Engineering and Surveying
Costello
6880 Richmond Avenue, Suite 400 N
Houston, Texas 77042
(713) 783-7708 (713) 783-5880, Fax
1865 FPM 559 No. 280
1865 FPM 559 No. 18485

RECLAIMED APPLICANT RE-USED WATER LINE
EAST HONWARD WAY
EPERSON WAY
STA 11+00.00 TO STA 16+00.00
AND DABNEY HILL COURT



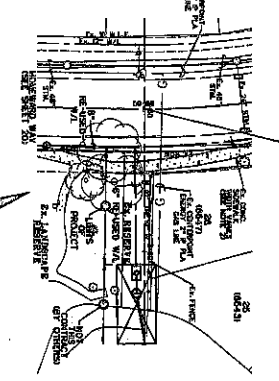
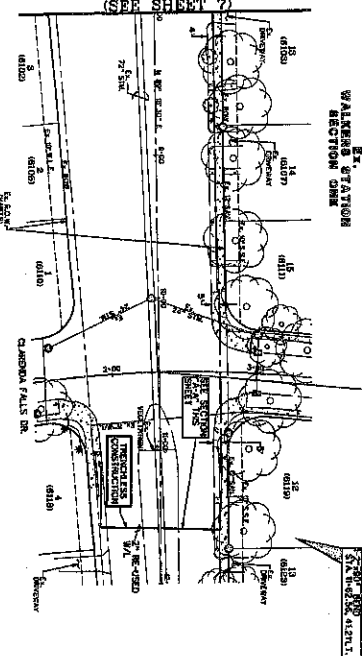
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36 SHEET





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MATCH LINE STA. 8+00.00
(SEE SHEET 7)



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

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

CL. CURVE DATA

DATE 12/11/14

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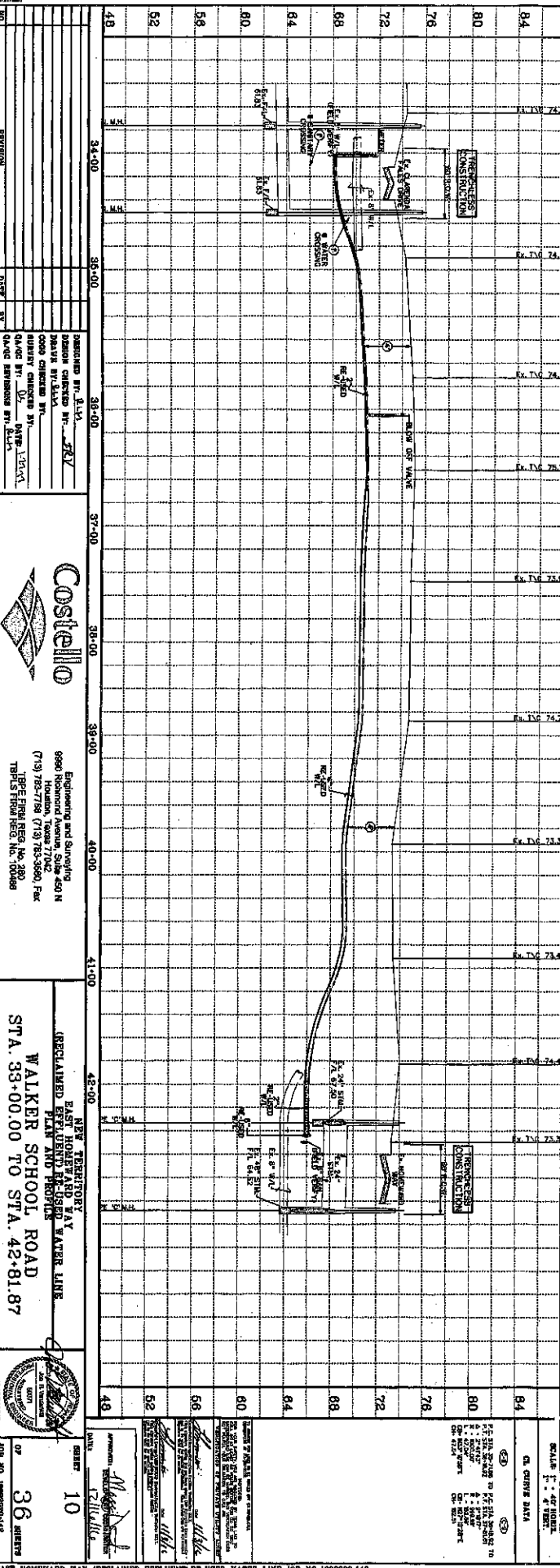
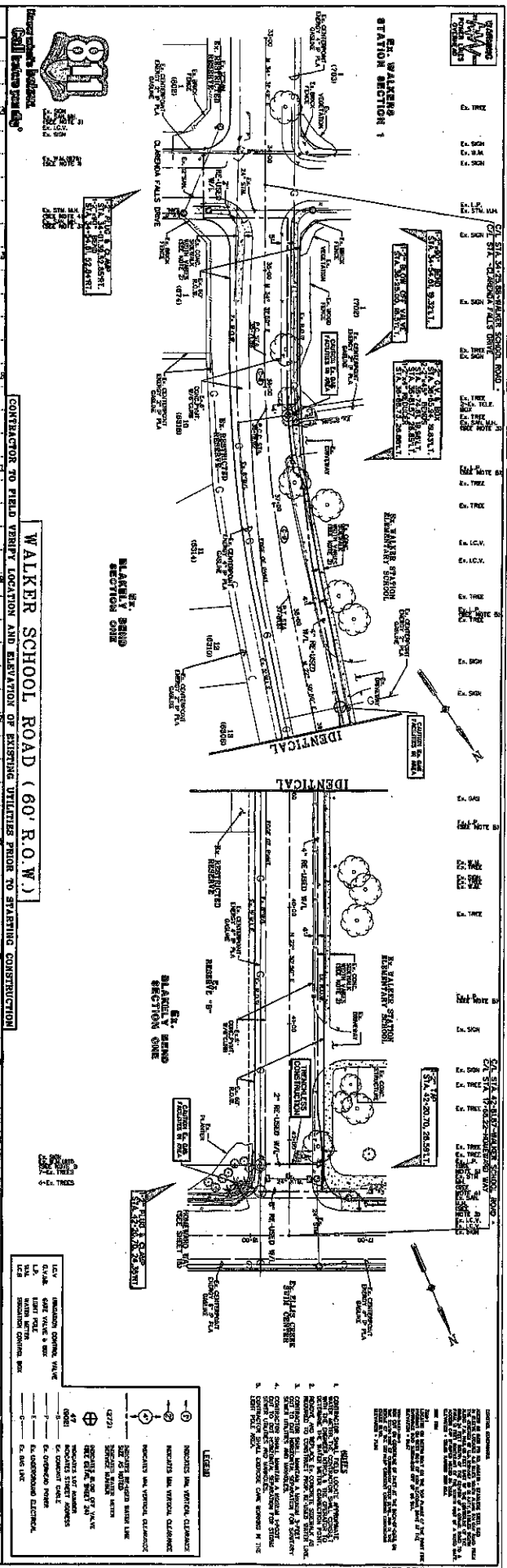
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Costello

Engineering and Surveying
6880 Richardson Avenue, Suite 450 N
Houston, Texas 77042
(713) 785-7798 (713) 785-8860, Fax
1845 Foothill Road, No. 200
Houston, Texas 77056

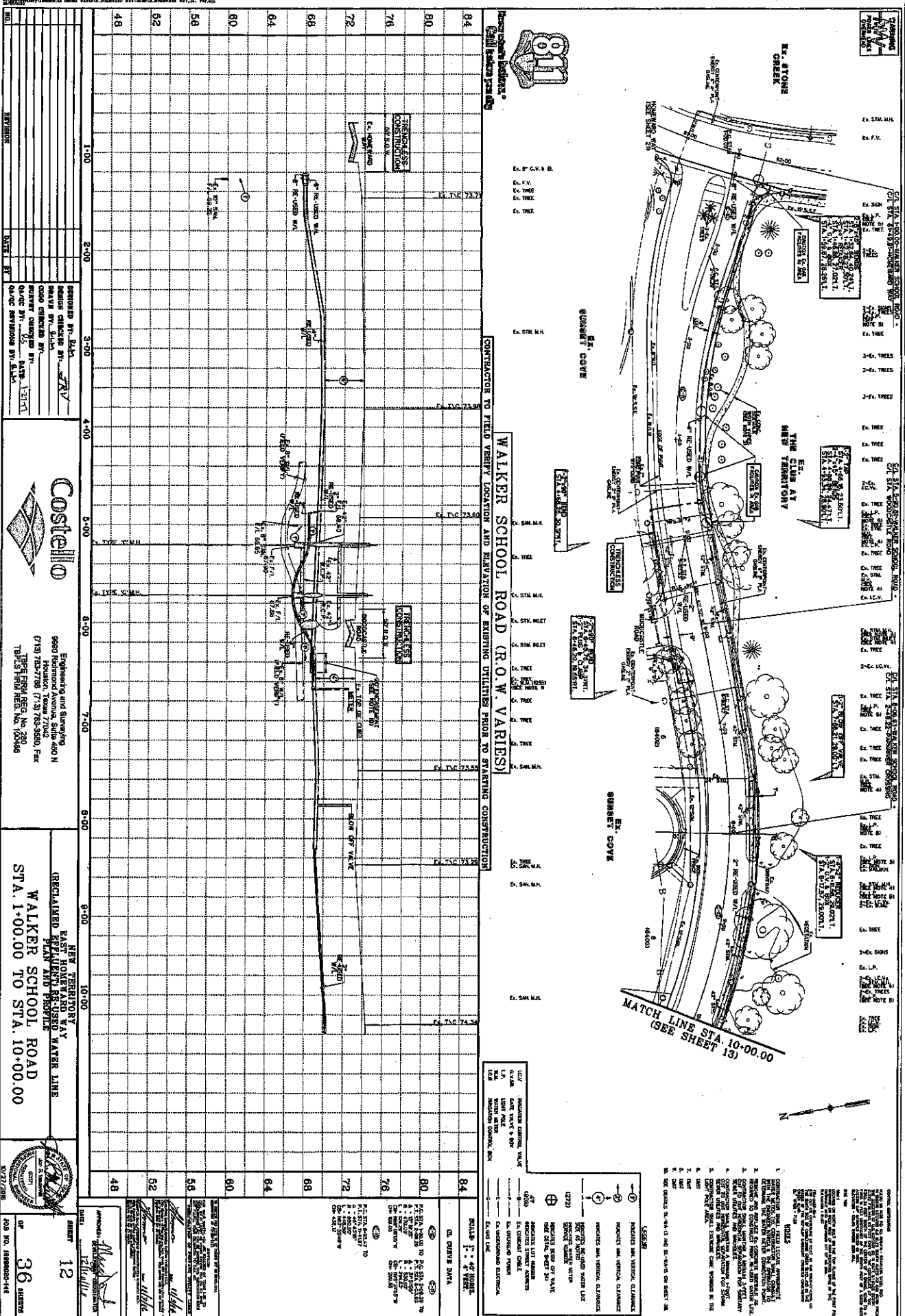
NEW TERRITORY
RECLAIMED EAST HOUSTON WAY
WALKER SCHOOL ROAD
STA. 33+00.00 TO STA. 42+81.87

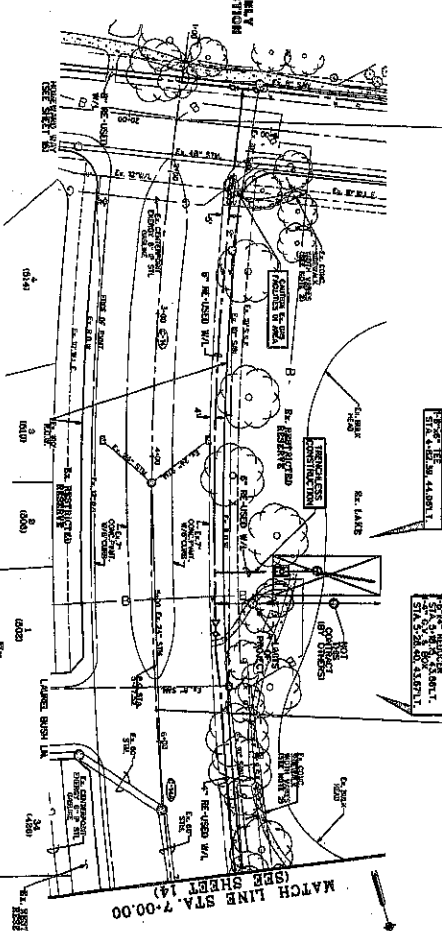
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DATE: 12/11/11

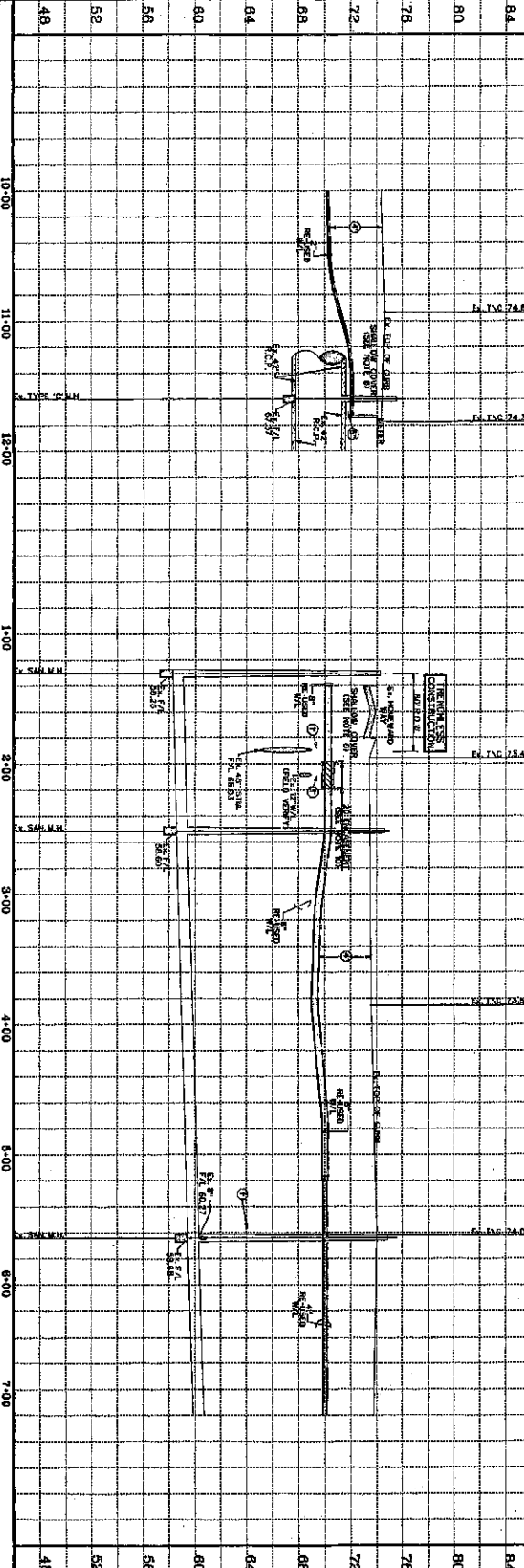
BY: [Signature]

FOR: [Signature]





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

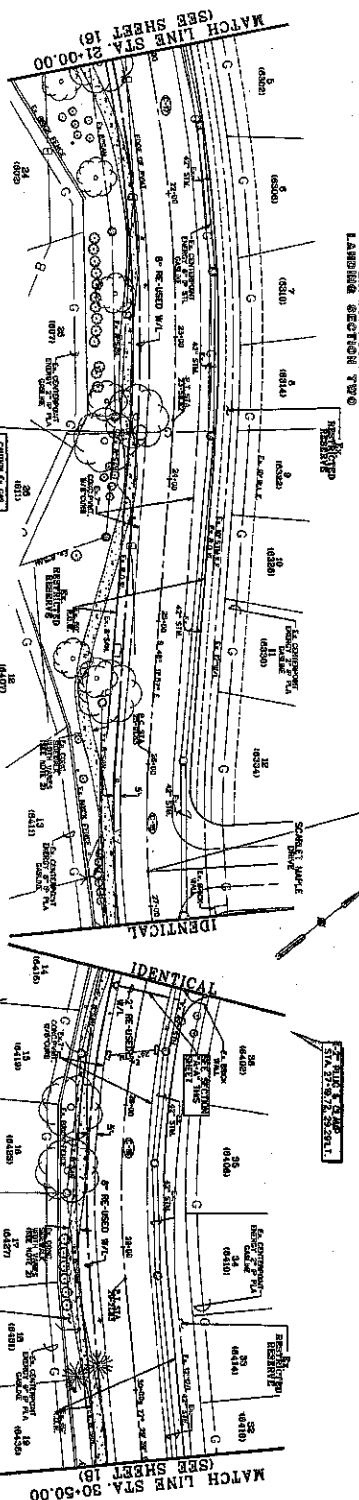
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TBPE FIRM REG. No. 280
TBPLS FIRM REG. No. 100486

WALKER SCHOOL ROAD
STA. 10+00.00 TO STA. 12+00.00
AND ELLIS CREEK BLVD.



36



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

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

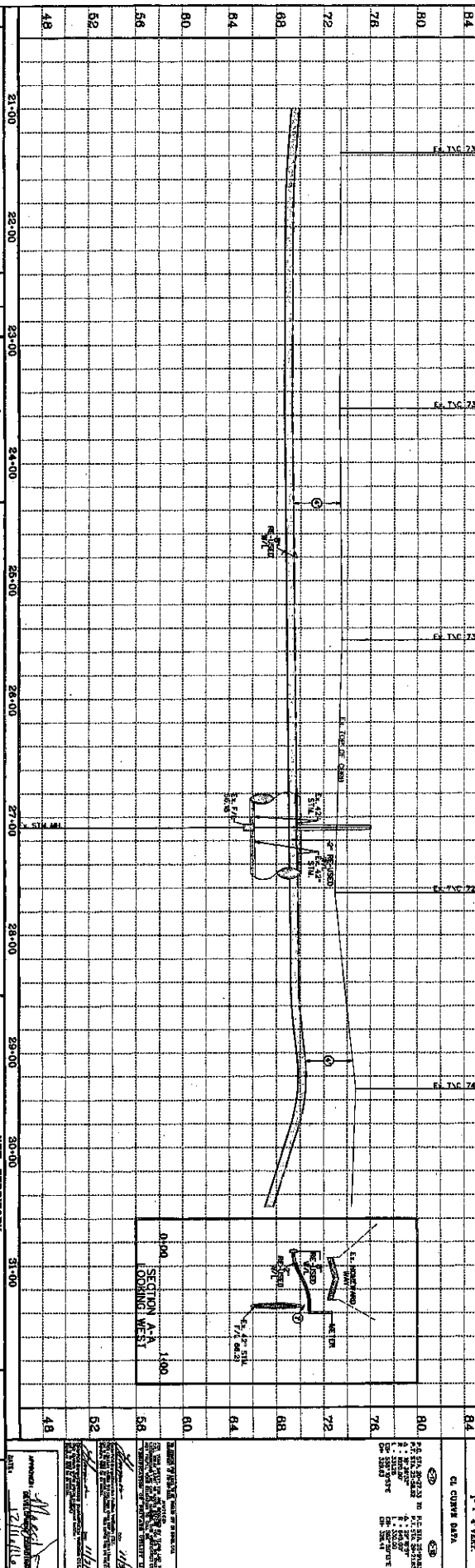
CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION

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



NO.	REVISION	DATE	BY	DATE	BY
1	ISSUED BY: E.A.H.				
2	DESIGNED BY: E.A.H.				
3	CHECKED BY: J.W.				
4	APPROVED BY: J.W.				
5	DATE: 12/1/11				
6	DATE: 12/1/11				
7	DATE: 12/1/11				
8	DATE: 12/1/11				
9	DATE: 12/1/11				
10	DATE: 12/1/11				

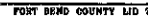


Engineering and Surveying
5900 Richmond Avenue, Suite 400 N
Houston, Texas 77042
(713) 783-7788 (713) 783-5860, Fax
TBE15-FRM-1150, No. 200
TBE15-FRM-1150, No. 100466

RECLAIMED REFILL/RE-USED WATER LINE
EAST HOMERAY WAY
PLAN AND PROFILE
STA. 21+00.00 TO STA. 30+50.00



36 SHEETS





EX. STONE
CHUNK

EX. STONE
CHUNK

EX. STONE
CHUNK

EX. STONE
CHUNK

EX. STONE
CHUNK

MATCH LINE STA. 61+00.00
(SEE SHEET 19)

MATCH LINE STA. 60+80.00
(SEE SHEET 21)

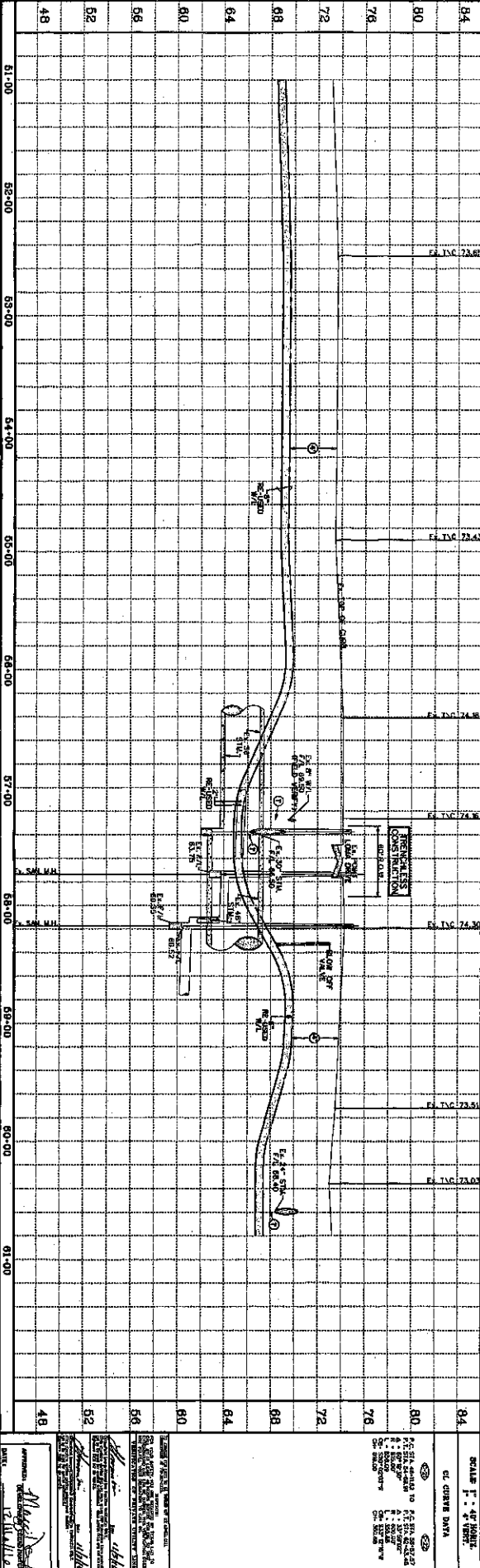


CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION

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

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

- 1. EXISTING UTILITIES
- 2. EXISTING STRUCTURES
- 3. EXISTING ELEVATIONS
- 4. EXISTING DRAINAGE
- 5. EXISTING ROADWAY
- 6. EXISTING LANDSCAPE
- 7. EXISTING FENCE
- 8. EXISTING SIGNAGE
- 9. EXISTING LIGHTING
- 10. EXISTING UTILITIES
- 11. EXISTING STRUCTURES
- 12. EXISTING ELEVATIONS
- 13. EXISTING DRAINAGE
- 14. EXISTING ROADWAY
- 15. EXISTING LANDSCAPE
- 16. EXISTING FENCE
- 17. EXISTING SIGNAGE
- 18. EXISTING LIGHTING
- 19. EXISTING UTILITIES
- 20. EXISTING STRUCTURES
- 21. EXISTING ELEVATIONS
- 22. EXISTING DRAINAGE
- 23. EXISTING ROADWAY
- 24. EXISTING LANDSCAPE
- 25. EXISTING FENCE
- 26. EXISTING SIGNAGE
- 27. EXISTING LIGHTING
- 28. EXISTING UTILITIES
- 29. EXISTING STRUCTURES
- 30. EXISTING ELEVATIONS
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- 37. EXISTING UTILITIES
- 38. EXISTING STRUCTURES
- 39. EXISTING ELEVATIONS
- 40. EXISTING DRAINAGE
- 41. EXISTING ROADWAY
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- 46. EXISTING UTILITIES
- 47. EXISTING STRUCTURES
- 48. EXISTING ELEVATIONS
- 49. EXISTING DRAINAGE
- 50. EXISTING ROADWAY
- 51. EXISTING LANDSCAPE
- 52. EXISTING FENCE
- 53. EXISTING SIGNAGE
- 54. EXISTING LIGHTING
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- 57. EXISTING ELEVATIONS
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- 66. EXISTING ELEVATIONS
- 67. EXISTING DRAINAGE
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- 69. EXISTING LANDSCAPE
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- 72. EXISTING LIGHTING
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- 91. EXISTING UTILITIES
- 92. EXISTING STRUCTURES
- 93. EXISTING ELEVATIONS
- 94. EXISTING DRAINAGE
- 95. EXISTING ROADWAY
- 96. EXISTING LANDSCAPE
- 97. EXISTING FENCE
- 98. EXISTING SIGNAGE
- 99. EXISTING LIGHTING
- 100. EXISTING UTILITIES



APPROVED BY:	DATE:
DESIGNED BY:	DATE:
CHECKED BY:	DATE:
IN CHARGE BY:	DATE:
PROJECT NO.:	DATE:

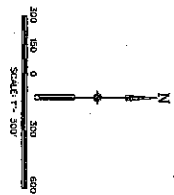


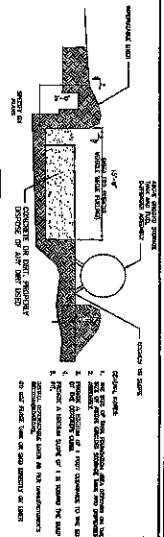
Engineering and Surveying
9800 Richmond Avenue, Suite 450 N
Houston, Texas 77046
(713) 785-7788 (713) 785-5580, Fax
TYPE PRINTED NO. 200
TYPE PRINTED NO. 100006

NEW TERRITORY
EAST HOMEWARD WAY
RECLAIMED EXISTING RE-USED WATER LINE
HOMEWARD WAY
STA. 61+00.00 TO STA. 60+80.00

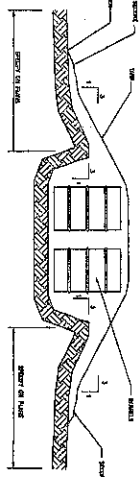


36
REVISED

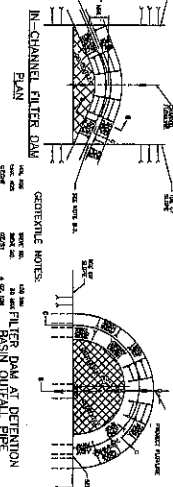




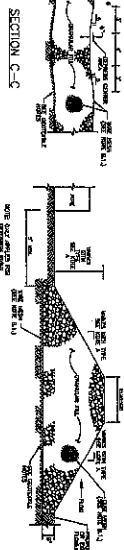
ABOVE GROUND TANK, VEHICLE & EQUIPMENT FUELING AREA WITH TANK



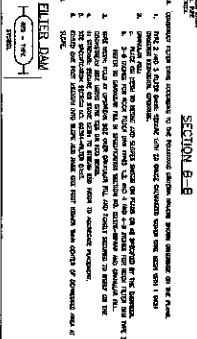
BARGE STORAGE AREA



IN-CHANNEL FILTER DAM AT DEFENSE BURN OUTLET PIPE



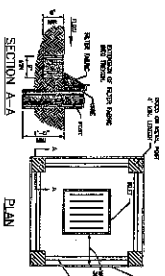
SECTION C-C



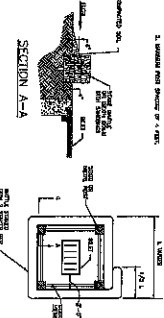
SECTION B-B



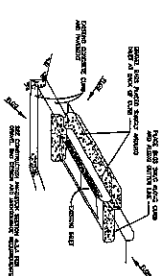
FILTER DAM



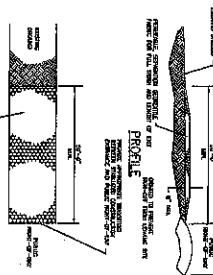
SECTION A-A



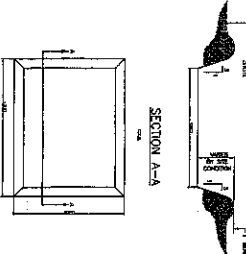
INLET PROTECTION BARRIERS FOR STAGE 1 INLETS



INLET PROTECTION BARRIERS FOR STAGE 2 INLETS



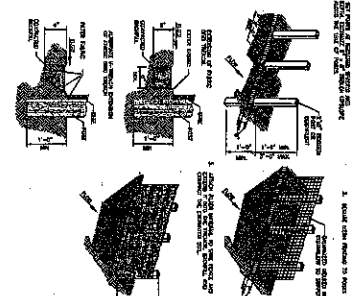
STABILIZED CONSTRUCTION ACCESS



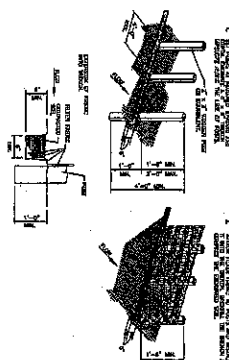
SECTION A-A



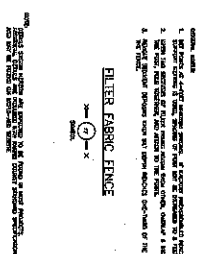
CONCRETE TRUCK WASHDOWN AREA



FILTER FABRIC FENCE



SECTION A-A

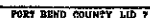


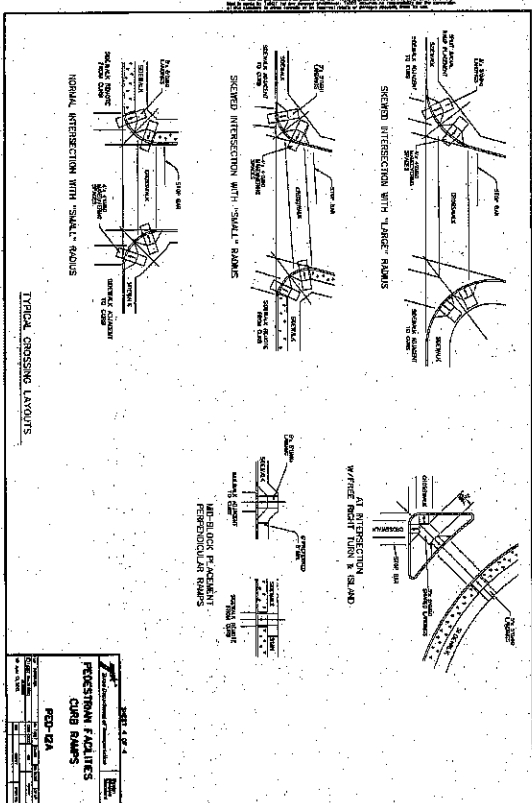
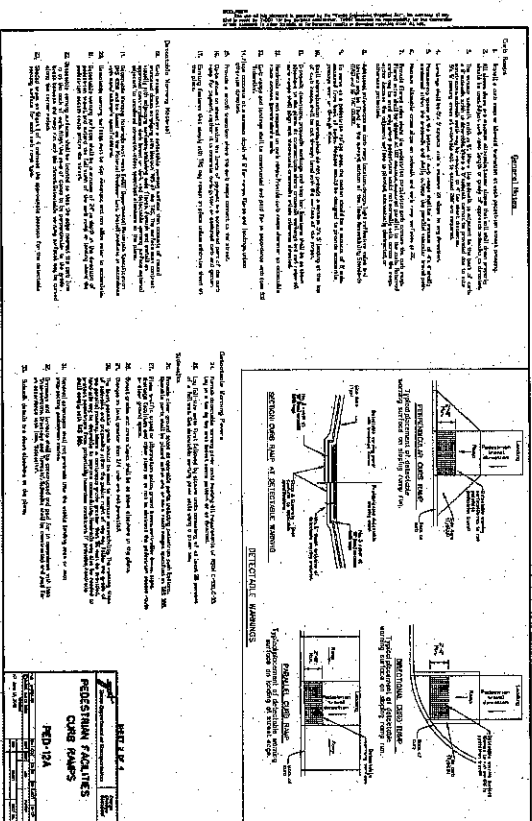
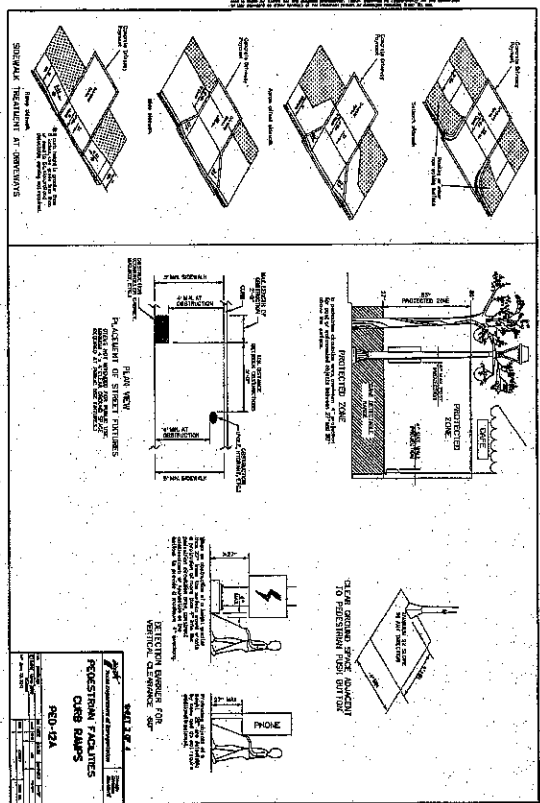
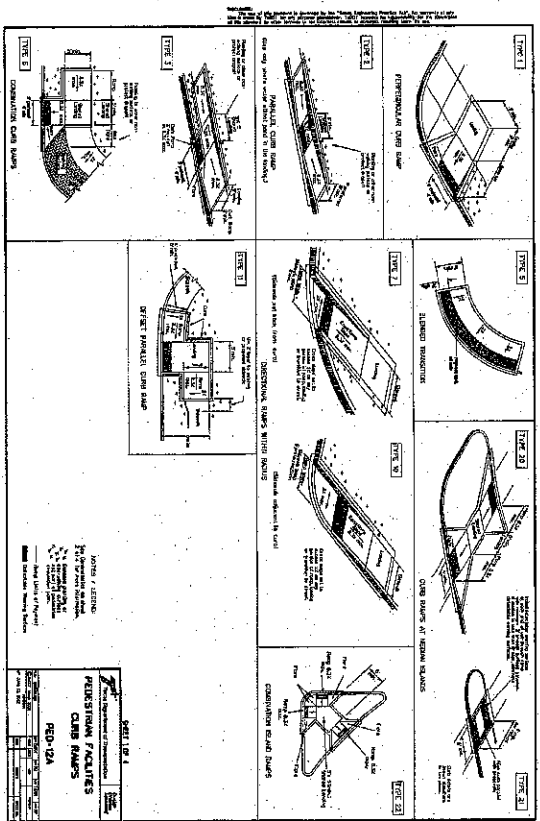
FILTER FABRIC FENCE

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DESIGNED BY: JLB
 DRAWN BY: JLB
 CHECKED BY: JLB
 APPROVED BY: JLB
 DATE: 12/11/16

Costello
 Engineering and Surveying
 8800 Richmond Avenue, Suite 450 N
 Houston, Texas 77042
 (713) 783-7788 (713) 783-8800, Fax
 TPE@COSTELLO.COM, No. 100488





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Engineering and Surveying
 9800 Fwy. 190, Suite 100
 Houston, Texas 77054
 (713) 783-7788 (713) 783-5680, Fax
 TPLS: FIRM REG. NO. 100488

RECLAIMED EFFLUENT RE-USED WATER LINE
 PEDESTRIAN FACILITIES
 CURB RAMPS - PED 12A



APPROVED: *[Signature]*
 DATE: 11/10/10
 SHEET NO. 36
 OF 36 SHEETS

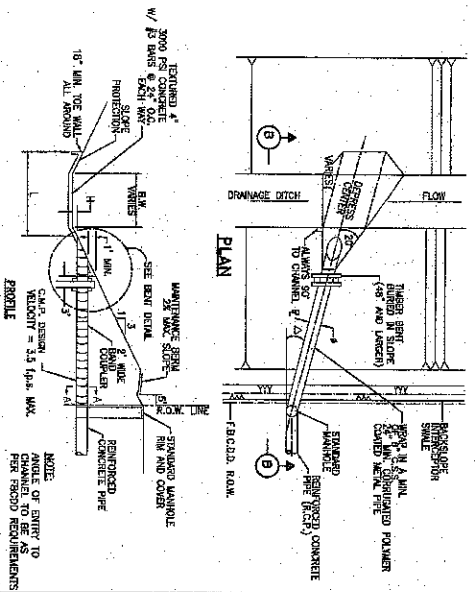
[illegible][illegible][illegible][illegible]

STABILIZED CRUSHED CONCRETE:

- SANITARY SEWER NOTES:

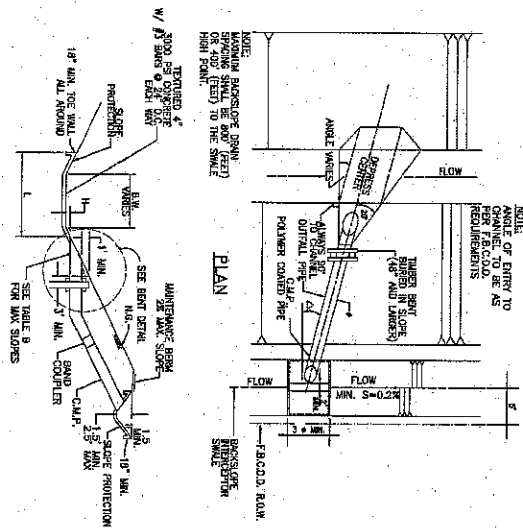
- WATER DISTRIBUTION NOTES:

- [illegible]



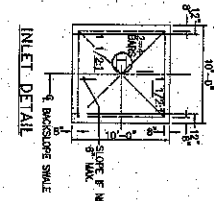
STORM SEWER OUTFALL
N.T.S.

SL-DR-15



BACKSLOPE INLET & OUTFALL
N.T.S.

SL-DR-16



INLET DETAIL

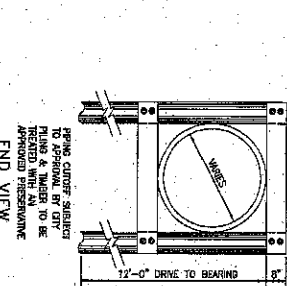
TABLE A

SIZE 24\"/>

TABLE B

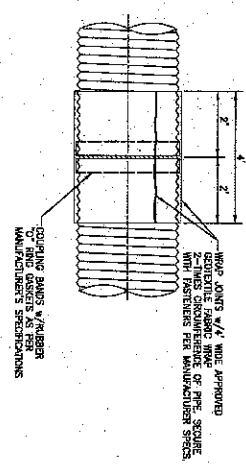
PIPE DIA. 36\"/>

SL-DR-19



END VIEW

CONSTRUCTION NOTES:
1. PREPARE LENGTH WITH DRAIN ONE HALF
INCHES LONGER THAN THE
PIPE. THE PIPE SHALL BE
LAPPED WITH THE LAPPED
ENDS OF THE PIPE SHALL BE
THE CENTER.
2. THE PIPE SHALL BE
LAPPED WITH THE LAPPED
ENDS OF THE PIPE SHALL BE
THE CENTER.
3. THE PIPE SHALL BE
LAPPED WITH THE LAPPED
ENDS OF THE PIPE SHALL BE
THE CENTER.



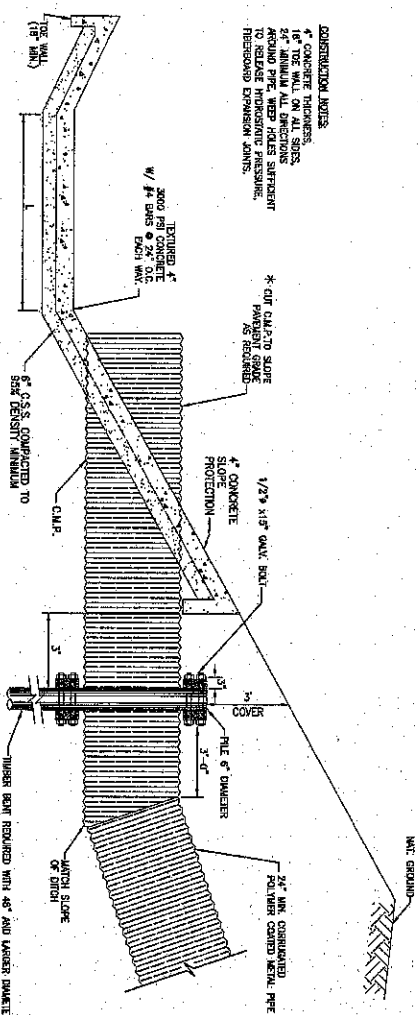
- NOTES:
1. ANY PIPE DEFLECTED MORE THAN 2% SHALL BE REJECTED AND REPLACED AT CONTRACTOR'S
EXPENSE.
 2. INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS INCLUDING REPAIRS
AS DERIVED IN INSTALLATION MANUAL FOR CORRUGATED STEEL PIPE STRUCTURES.

STORM SEWER JOINT WRAP DETAIL
N.T.S.

SL-DR-17



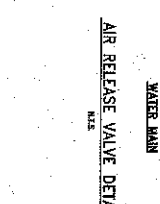
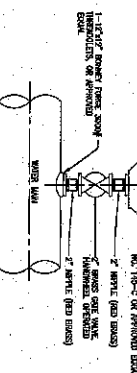
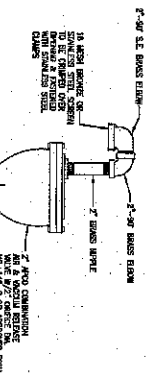
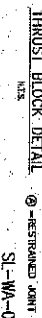
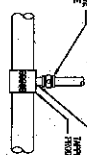
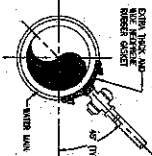
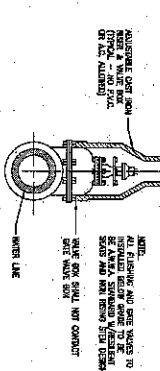
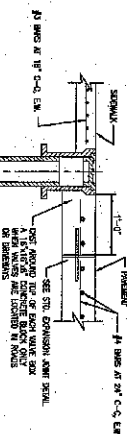
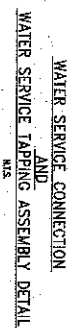
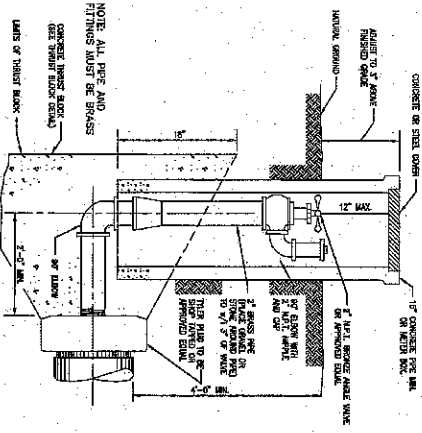
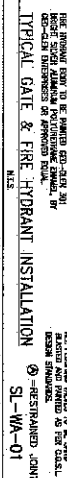
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TIMBER BENT FOR CORRUGATED
METAL PIPE OUTFALL
N.T.S.

SL-DR-18

CITY OF SUGAR LAND, TEXAS	CONSTRUCTION PLANS FOR STORM SEWER OUTFALL CONSTRUCTION DETAILS	SL-06
ENGINEER'S SIGNATURE	DATE: 2/24/16	
CHECKED BY	DATE: 2/24/16	

[illegible][illegible]

**BENDS, TEES & PLUGS.
FOR PIPE OF VARIOUS SIZES.**

SL-WA-08



Costello

CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT

RE-USED WATER LINE
WATER LINE
CONSTRUCTION DETAILS

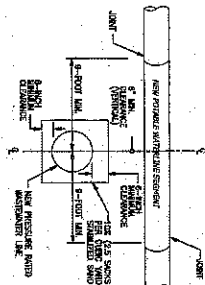
SL-11

SL-WA-08

Mass Def 121616

I

NEW POTABLE WATERLINE CROSSING NEW PRESSURE RATED WASTEWATER LINE WITH SEGMENT LENGTHS OF EIGHTEEN (18) FEET OR GREATER, HAVING 6 INCHES OF VERTICAL CLEARANCE AND 4 FEET OF HORIZONTAL CLEARANCE

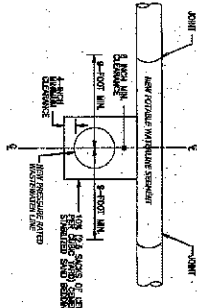


- WHENEVER POSSIBLE, THE CROSSING SHALL BE CENTERED BETWEEN JOINTS OF THE WASTEWATER LINE.
- MINIMUM WASTEWATER PIPE STRENGTH OF 115 PSI AT 5% DEFORMATION.
- ENBED WASTEWATER LINE IN CONCRETE STRATIFIED SAND TO AT LEAST 12" INCHES BEYOND EACH JOINT OF CROSSED SECTION OF PIPE.

SL-WA-09

III

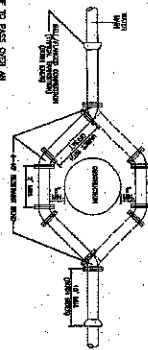
NEW POTABLE WATERLINE CROSSING NEW PRESSURE
RATED WASTEWATER LINE



- WHENEVER POSSIBLE, THE CROSSING SHALL BE CENTERED BETWEEN JOINTS OF THE WASTEWATER LINE.
 - JARHAM WASTEWATER PIPE STIFFNESS OF 115 PSI AT 30% DEFLECTION.
 - EMBED WASTEWATER LINE IN CEMENT STABILIZED SAND TO AT LEAST 12" INCHES BEYOND EACH JOINT OF CROSSED SECTION OF PIPE.
- CI-WA-10

SL-WA-10

III



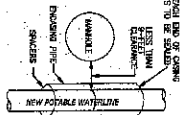
MIN. PIPE WALL THICKNESS	
4"	0.250"
6"	0.280"
8"	0.322"
12"	0.375"
PIPE DIAMETER	

- [illegible]

PVC WATER PIPE
OFFSET ASSEMBLY

SL-WA-11

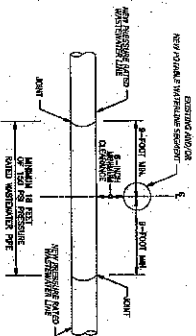
MANHOLE CLEARANCE



- SPACE AROUND CARRIER PIPE SHALL BE SUPPORTED AT THE (b) FOOT (OR LESS INTERVALS WITH SPACERS)
- CENTERED ON CROSSING
- BOTH ENDS SEALED WITH GEMENT BROUT OR A MAINTAINED UNDER THEIR SEAL

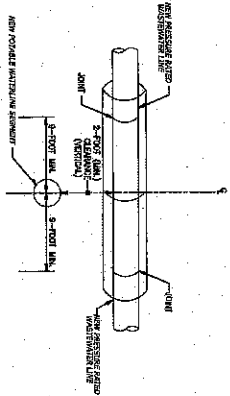
SL-WA-12

ALTERNATIVE A:
PRESSURE RATED WASTEWATER PIPE



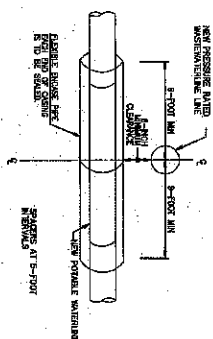
SL-WA-14

ALTERNATIVE B:
STABLE WATERLINE CROSSING. EXISTING
UNRAIRED WASTEWATER LINE



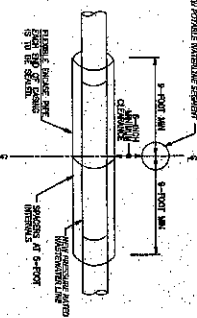
SL-WA-15

ALTERNATIVE C:
 POTABLE WATERLINE UNDER A
 RATED WASTEWATER LINE



SL-WA-16

ENCASED WASTEWATER LINE



SL-WA-17

- [illegible]


Costello

SL-WA-18



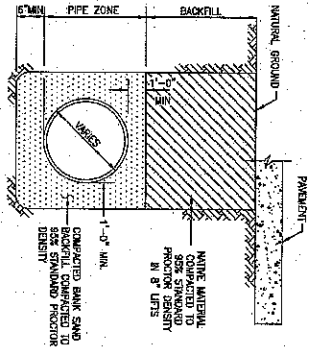
ENGINEERING DEPARTMENT

CROSSING DETAILS

32

320

Matth. 24:14

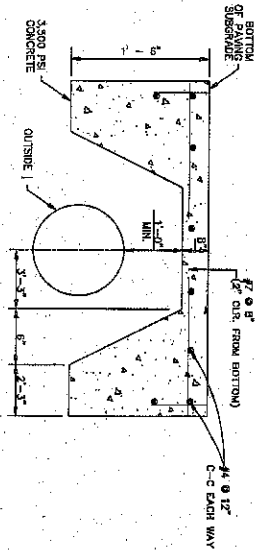


P.Y.C. PIPE BEDDING & BACKFILL

SEE CONSTRUCTION NOTES

SANITARY FORCE MAIN & WATER LINE BEDDING AND BACKFILL

SL-BB-01

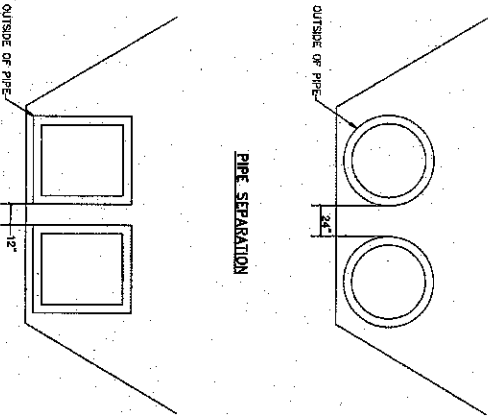


PROTECTIVE SLAB DETAIL
ZERO LOAD TRANSFER CONCRETE SLAB

SL-BB-04

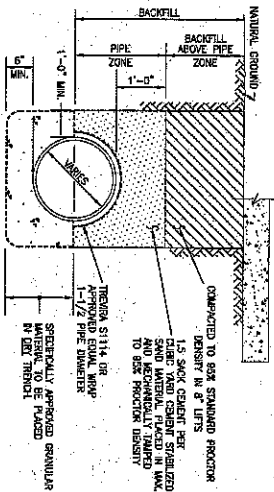
- CONSTRUCTION NOTES**
1. CONCRECTOR SHALL CONVEY STAIR LAND ENGINEERING DEPARTMENT APPROVED 1" WET SAND CONDITIONS ARE DISCONTINUED.
 2. LUNGEON AND RECOVERED CONCRETE DRAINAGE SHALL BE TYPICAL BUT MAY BE VARYED BY ORDER OF CITY ENGINEER.
 3. LUNGEON OR RECOVERED CONCRETE SHALL BE IN ACCORDANCE WITH APPROVED LUNGEON NO. 448 (SEE PLAN) AND TYPE A COVER 2.
 4. NO BEDDING SHALL BE INSTALLED IN WET CONDITIONS. WHEN WELL FORMING OR IN WET SAND CONDITIONS, MAINTAIN GRADE WITHIN 1" (7") 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 NOTED "A".
 7. ALL SAND BEDDING FOR WATER LINES SHALL BE CLEAN, MECHANICALLY COMPACTED BANK SAND.
 8. REFER TO: LUNGEON DETAIL, SANITARY, C.S.S., GENERAL, WATER CROSSING.
 9. WATER DISTRIBUTION DETAIL, SANITARY, C.S.S., GENERAL, WATER CROSSING.
 10. ALL BEDDING SHALL BE COMPACTED TO 85% STANDARD PROCTOR DENSITY. TO A CERTIFICATION, REPORT MAY BE REQUIRED TO AVOID THE DRAINAGE CAPACITY OF EXISTING SLOES AND MAKE A DETERMINATION IF ADDITIONAL BEDDING AND BACKFILL IS APPROPRIATE.

SL-BB-05



PIPE SEPARATION

RCB SEPARATION



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

PIPE ENGINEER, No. 2006
IN TEXAS PER TEX. REG. NO. 10086

Costello



CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT

CONSTRUCTION PLANS, ETC.
DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: 10/27/18

WATER MAIN BEDDING DETAILS

SL-19

DATE: 10/27/18
BY: [Signature]
CHECKED BY: [Signature]
DATE: 10/27/18

11/18/18 - 12/16/18

MULCH, STONE, OR OTHER MATERIALS TO BE FILTERED OUT BY IMMERSED BAG OF IMMERSED BAG (IMMERSED BAGS)

SEDIMENT FILTER BAG

SEWING IN REINFORCEMENT

PLASTER WATER

THAT EXCHANGE HAVE BEEN TO GO OUT

SEDIMENT FILTER BAG PLAN VIEW

N.T.S.

Diagram illustrating the components of a sediment diver profile:

- DISCHARGE WATER
- SEDIMENT FILTER BAG
- PUMP
- SEDIMENT INLET
- SEDIMENT FLOW

SEDIMENT DIVER PROFILE

N.T.S.

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

DEWATERING CONTROLS

SWELLING DEPENDS ON ALKALI STRENGTH

ORGANIC FIBER TREATING (e.g. caustic soda)

ORGANIC FIBER TREATING (e.g. caustic soda)

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

ORGANIC FILTER TUBE PERIMETER CONTROL PROFILE
NTS

[illegible]

CONCRETE WASHOUT NOTES

1. SUEDBASS MAYBE REPLACED BY A SOL. BEAM TO ANCHOR THE PLASTIC BAG

CONCRETE WASHOUT AREA

Costello

TRENTA ANNI DI CACCIA ALLE SPORTELLATE
TAVOLE E PIANI IN LEGNO, METALLO, VETRO

ORGANIC FILTER TUBES NOTES

1. TYPE OF SETTING, FILLER MATERIAL, DIAMETER OF TILE, AND SPACING OF TILES SHALL BE SPECIFIED BY THE DESIGNER BASED ON THE FOLLOWING:
 - SIZE PARAMETERS
 - SIZE OF CONTRIBUTING DRAINAGE AREA
 - STRENGTH OF SLOPE
 - GROUND CONDITIONS (SOIL OR PAVEMENT)
2. DESIGNER SHALL SHOW ON THE DRAWINGS THE LOCATIONS WHERE TILES ARE TO BE TURNED UPSLOPE. UPSLOPE LENGTHS SHALL BE MINIMUM OF 10 FEET.

FILTER TUBE
N.T.S.

[illegible]

DATE: 10-27-16
DESK: UNCLAS

CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT

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

EROSION CONTROL DETAILS

SL-3

3600 36

Maxwellville