

**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: 2017-11849

Applicant: Gonzalez Construction Enterprises Inc.

Job Location Site: 903 Benton Road, Rosenberg, TX 77471

Bond No. ██████████ **Date of Bond:** 7/27/2015 **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 7th day of March, 2017, Upon Motion of Commissioner Meyer, seconded by Commissioner Patterson, 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

Date Recorded 3-13-17 Comm. Court No. 12F

for County Engineer

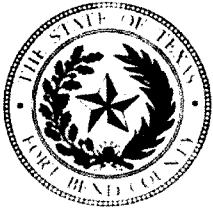
Clerk of Commissioners Court

By: N/A

By: Archie Walters

Drainage District Engineer/Manager

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: 2017-11849

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

2/27/17

Date

CONSTRUCTION PLANS FOR

WATER, SANITARY SEWER, DRAINAGE
& PAVING FACILITIES
TO SERVE

BONBROOK PLANTATION
SOUTH SECTION 6

FORT BEND COUNTY M.U.D. NO. 155
CITY OF ROSENBERG E.T.J.,
FORT BEND COUNTY, TEXAS

JOB. NO. 1406-4113 (PAVING)
1406-4113D (WS&D)

DATE: NOVEMBER 2016

NOTES

1. THESE PLANS ARE SUBJECT TO THE CITY OF ROSENBERG
AND FORT BEND COUNTY SUBMITTAL AND REVIEW RULES
AS APPLICABLE AS CURRENTLY APPLICABLE.

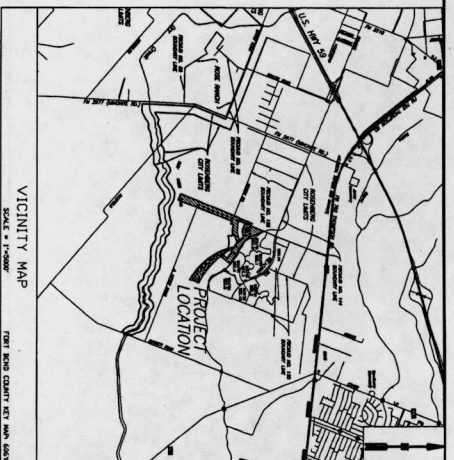
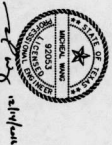
RECORD DRAWING
I HEREBY CERTIFY THAT THE DRAWING REFLECTS THE
APPROVED AND CONSTRUCTED AS TO SIZE,
LOCATION AND GRADE AND THAT THE
CONSTRUCTION WILL BE IN FULL COMPLIANCE WITH
THE CITY OF ROSENBERG DOCUMENTS
BY _____ DATE _____

RECORD DRAWING
I HEREBY CERTIFY THAT THIS DRAWING REFLECTS THE
APPROVED AND CONSTRUCTED AS TO SIZE,
LOCATION AND GRADE AND THAT THE
CONSTRUCTION WILL BE IN FULL COMPLIANCE WITH
THE CITY OF ROSENBERG DOCUMENTS
BY _____ DATE _____

OWNER:
BEAZER HOMES TEXAS
HOLDINGS, INC.
10235 WEST LITTLE YORK, SUITE 200
HOUSTON, TX 77084

FORT BEND COUNTY ENGINEER
ENGINEER: *Richard V. Stiles, P.E.*
DATE: 11/11/17
THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT
COMMENCED IN 10 YEAR FROM DATE OF APPROVAL
APPROVED: *[Signature]*
DEVELOPMENT/CONSTRUCTION
DATE: 11/11/17

APPROVED FOR CONSTRUCTION
BY _____ DATE _____



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| 106 | STORM WATER POLLUTION PREVENTION PLAN (SHEET 99 OF 99) |
| 107 | STORM WATER POLLUTION PREVENTION PLAN (SHEET 100 OF 100) |



CITY OF ROSENBERG
APPROVED: *[Signature]* DATE: 11/11/17
INTERIM CITY MANAGER
APPROVED: *[Signature]* DATE: 11/11/17
CITY ENGINEER
APPROVAL VOID IF NO PROGRESS HAS BEEN MADE
TOWARDS THE COMPLETION OF THE PROJECT WITHIN
TWO YEARS FROM DATE OF SIGNATURE.

ENGINEER:
LJA Engineering, Inc.
2001 Bonanza Drive
Houston, Texas 77058
Phone: 713.551.5200
Fax: 713.551.5200
Email: info@lja.com

STORM SEWER NOTES

1. STORM SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ROSHARON SPECIFICATIONS AND THE LATEST EDITIONS OF THE FOLLOWING:
2. ALL STORM SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING:
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11. STORM SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING:

GENERAL NOTES

1. SURFACE ELEVATIONS AT THE END OF ALL CONSTRUCTION PROJECTS, THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING:
2. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING:
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WATER DISTRIBUTION NOTES

1. WATER DISTRIBUTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ROSHARON SPECIFICATIONS AND THE LATEST EDITIONS OF THE FOLLOWING:
2. WATER MAINS 12" AND SMALLER SHALL BE P.V.C. PIPE, C-900, DR15, CLASS 250 PSI.
3. ALL FIRE HYDRANTS ARE TO BE LOCATED AS SHOWN ON PLANS AND SET 3' FROM CURB.
4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING:
5. ALL WATER MAINS TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING:
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7. ALL WATER MAINS TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING:
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CITY OF ROSHARON GENERAL NOTES

1. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING:
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PAVING NOTES

1. ALL OTHER NOTES OF SPECIFICATIONS REGARDING PAVING ARE SUPERSEDED.
2. 1" - 3/4" S&W, 3000 PSI REINFORCED CONCRETE WITH 4" BARS, 3" C-C.
3. 1" - 3/4" S&W, 3000 PSI REINFORCED CONCRETE WITH 4" BARS, 3" C-C.
4. 1" - 3/4" S&W, 3000 PSI REINFORCED CONCRETE WITH 4" BARS, 3" C-C.
5. 1" - 3/4" S&W, 3000 PSI REINFORCED CONCRETE WITH 4" BARS, 3" C-C.
6. 1" - 3/4" S&W, 3000 PSI REINFORCED CONCRETE WITH 4" BARS, 3" C-C.
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21. 1" - 3/4" S&W, 3000 PSI REINFORCED CONCRETE WITH 4" BARS, 3" C-C.
22. 1" - 3/4" S&W, 3000 PSI REINFORCED CONCRETE WITH 4" BARS, 3" C-C.

RECORD DRAWING

CARRY THIS DRAWING REFLECTS THE LOCATION AND GRADE AND THAT THE CONSTRUCTION WAS IN FULL COMPLIANCE WITH THE CITY OF ROSHARON SPECIFICATIONS AND THE LATEST EDITIONS OF THE FOLLOWING:

APPROVED: *[Signature]*
 BEAZER HOMES TEXAS, L.P.
 DATE: 1/1/17



BEAZER HOMES TEXAS, L.P.
 BONBROOK PLANTATION SOUTH
 SECTION 6

GENERAL CONSTRUCTION
 NOTES
 (SHEET 1 OF 2)



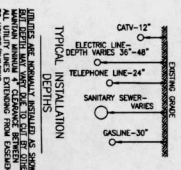
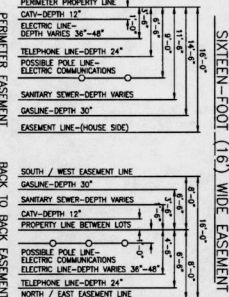
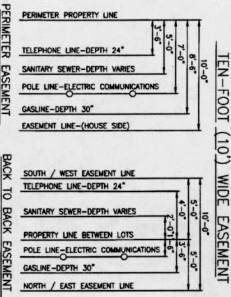
SCALE: NONE
 SHEET NO. 2 OF 29

SANITARY SEWER NOTES

1. ALL SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS SANITARY SEWER DESIGN HANDBOOK, 2005 EDITION, AND THE LATEST EDITION OF THE TEXAS SANITARY SEWER DESIGN HANDBOOK, 2005 EDITION, AND THE LATEST EDITION OF THE TEXAS SANITARY SEWER DESIGN HANDBOOK, 2005 EDITION.
2. ALL SEWER SHALL BE CONSTRUCTED OF 12" DIA. PVC AND SHALL BE LAPPED JOINTS. ALL JOINTS SHALL BE MADE WITH A JOINT COMPOUND.
3. SEWERS AND MANHOLE SHALL BE CONSTRUCTED AS SHOWN ON THE PLAN. SEWERS AND MANHOLE SHALL BE CONSTRUCTED AS SHOWN ON THE PLAN. SEWERS AND MANHOLE SHALL BE CONSTRUCTED AS SHOWN ON THE PLAN.
4. ALL SEWER SHALL BE CONSTRUCTED OF 12" DIA. PVC AND SHALL BE LAPPED JOINTS. ALL JOINTS SHALL BE MADE WITH A JOINT COMPOUND.
5. ALL SEWER SHALL BE CONSTRUCTED OF 12" DIA. PVC AND SHALL BE LAPPED JOINTS. ALL JOINTS SHALL BE MADE WITH A JOINT COMPOUND.
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21. SEWERS SHALL BE LAPPED JOINTS. ALL JOINTS SHALL BE MADE WITH A JOINT COMPOUND.
22. SEWERS SHALL BE LAPPED JOINTS. ALL JOINTS SHALL BE MADE WITH A JOINT COMPOUND.

ICEO WATER DISTRIBUTION SYSTEM GENERAL CONSTRUCTION NOTES

1. THE WATER DISTRIBUTION SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS WATER DISTRIBUTION DESIGN HANDBOOK, 2005 EDITION, AND THE LATEST EDITION OF THE TEXAS WATER DISTRIBUTION DESIGN HANDBOOK, 2005 EDITION, AND THE LATEST EDITION OF THE TEXAS WATER DISTRIBUTION DESIGN HANDBOOK, 2005 EDITION.
2. ALL WATER SHALL BE CONSTRUCTED OF 12" DIA. PVC AND SHALL BE LAPPED JOINTS. ALL JOINTS SHALL BE MADE WITH A JOINT COMPOUND.
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21. ALL WATER SHALL BE CONSTRUCTED OF 12" DIA. PVC AND SHALL BE LAPPED JOINTS. ALL JOINTS SHALL BE MADE WITH A JOINT COMPOUND.
22. ALL WATER SHALL BE CONSTRUCTED OF 12" DIA. PVC AND SHALL BE LAPPED JOINTS. ALL JOINTS SHALL BE MADE WITH A JOINT COMPOUND.



FORT BEND COUNTY GENERAL NOTES

1. FORT BEND COUNTY MUST BE INVITED TO THE PRE-CONSTRUCTION MEETING.
2. CONTRACTOR SHALL NOTIFY FORT BEND COUNTY ENGINEERING DEPARTMENT 48 HOURS PRIOR TO THE PRE-CONSTRUCTION MEETING.
3. CONTRACTOR SHALL NOTIFY FORT BEND COUNTY ENGINEERING DEPARTMENT 48 HOURS PRIOR TO THE PRE-CONSTRUCTION MEETING.
4. ALL FUTURE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FORT BEND COUNTY ENGINEERING DEPARTMENT 48 HOURS PRIOR TO THE PRE-CONSTRUCTION MEETING.
5. ALL FUTURE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FORT BEND COUNTY ENGINEERING DEPARTMENT 48 HOURS PRIOR TO THE PRE-CONSTRUCTION MEETING.
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22. ALL FUTURE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FORT BEND COUNTY ENGINEERING DEPARTMENT 48 HOURS PRIOR TO THE PRE-CONSTRUCTION MEETING.

Fort Bend County Engineering Department General Notes

| ITEM | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE | TOTAL PRICE |
|------|----------------|-------------|----------|------------|-------------|
| 1 | Sanitary Sewer | Linear Foot | 100 | 1.00 | 100.00 |
| 2 | Water Main | Linear Foot | 100 | 2.00 | 200.00 |
| 3 | Storm Sewer | Linear Foot | 100 | 1.50 | 150.00 |
| 4 | Manhole | Each | 10 | 10.00 | 100.00 |
| 5 | Valve | Each | 10 | 15.00 | 150.00 |
| 6 | Hydrant | Each | 10 | 20.00 | 200.00 |
| 7 | Fire Alarm | Each | 10 | 25.00 | 250.00 |
| 8 | Gas Main | Linear Foot | 100 | 3.00 | 300.00 |
| 9 | Electric Line | Linear Foot | 100 | 4.00 | 400.00 |
| 10 | Telephone Line | Linear Foot | 100 | 5.00 | 500.00 |
| 11 | Fire Alarm | Each | 10 | 30.00 | 300.00 |
| 12 | Gas Main | Linear Foot | 100 | 3.50 | 350.00 |
| 13 | Electric Line | Linear Foot | 100 | 4.50 | 450.00 |
| 14 | Telephone Line | Linear Foot | 100 | 5.50 | 550.00 |
| 15 | Fire Alarm | Each | 10 | 35.00 | 350.00 |
| 16 | Gas Main | Linear Foot | 100 | 4.00 | 400.00 |
| 17 | Electric Line | Linear Foot | 100 | 5.00 | 500.00 |
| 18 | Telephone Line | Linear Foot | 100 | 6.00 | 600.00 |
| 19 | Fire Alarm | Each | 10 | 40.00 | 400.00 |
| 20 | Gas Main | Linear Foot | 100 | 4.50 | 450.00 |
| 21 | Electric Line | Linear Foot | 100 | 5.50 | 550.00 |
| 22 | Telephone Line | Linear Foot | 100 | 6.50 | 650.00 |
| 23 | Fire Alarm | Each | 10 | 45.00 | 450.00 |
| 24 | Gas Main | Linear Foot | 100 | 5.00 | 500.00 |
| 25 | Electric Line | Linear Foot | 100 | 6.00 | 600.00 |
| 26 | Telephone Line | Linear Foot | 100 | 7.00 | 700.00 |
| 27 | Fire Alarm | Each | 10 | 50.00 | 500.00 |
| 28 | Gas Main | Linear Foot | 100 | 5.50 | 550.00 |
| 29 | Electric Line | Linear Foot | 100 | 6.50 | 650.00 |
| 30 | Telephone Line | Linear Foot | 100 | 7.50 | 750.00 |
| 31 | Fire Alarm | Each | 10 | 55.00 | 550.00 |
| 32 | Gas Main | Linear Foot | 100 | 6.00 | 600.00 |
| 33 | Electric Line | Linear Foot | 100 | 7.00 | 700.00 |
| 34 | Telephone Line | Linear Foot | 100 | 8.00 | 800.00 |
| 35 | Fire Alarm | Each | 10 | 60.00 | 600.00 |
| 36 | Gas Main | Linear Foot | 100 | 6.50 | 650.00 |
| 37 | Electric Line | Linear Foot | 100 | 7.50 | 750.00 |
| 38 | Telephone Line | Linear Foot | 100 | 8.50 | 850.00 |
| 39 | Fire Alarm | Each | 10 | 65.00 | 650.00 |
| 40 | Gas Main | Linear Foot | 100 | 7.00 | 700.00 |
| 41 | Electric Line | Linear Foot | 100 | 8.00 | 800.00 |
| 42 | Telephone Line | Linear Foot | 100 | 9.00 | 900.00 |
| 43 | Fire Alarm | Each | 10 | 70.00 | 700.00 |
| 44 | Gas Main | Linear Foot | 100 | 7.50 | 750.00 |
| 45 | Electric Line | Linear Foot | 100 | 8.50 | 850.00 |
| 46 | Telephone Line | Linear Foot | 100 | 9.50 | 950.00 |
| 47 | Fire Alarm | Each | 10 | 75.00 | 750.00 |
| 48 | Gas Main | Linear Foot | 100 | 8.00 | 800.00 |
| 49 | Electric Line | Linear Foot | 100 | 9.00 | 900.00 |
| 50 | Telephone Line | Linear Foot | 100 | 10.00 | 1000.00 |



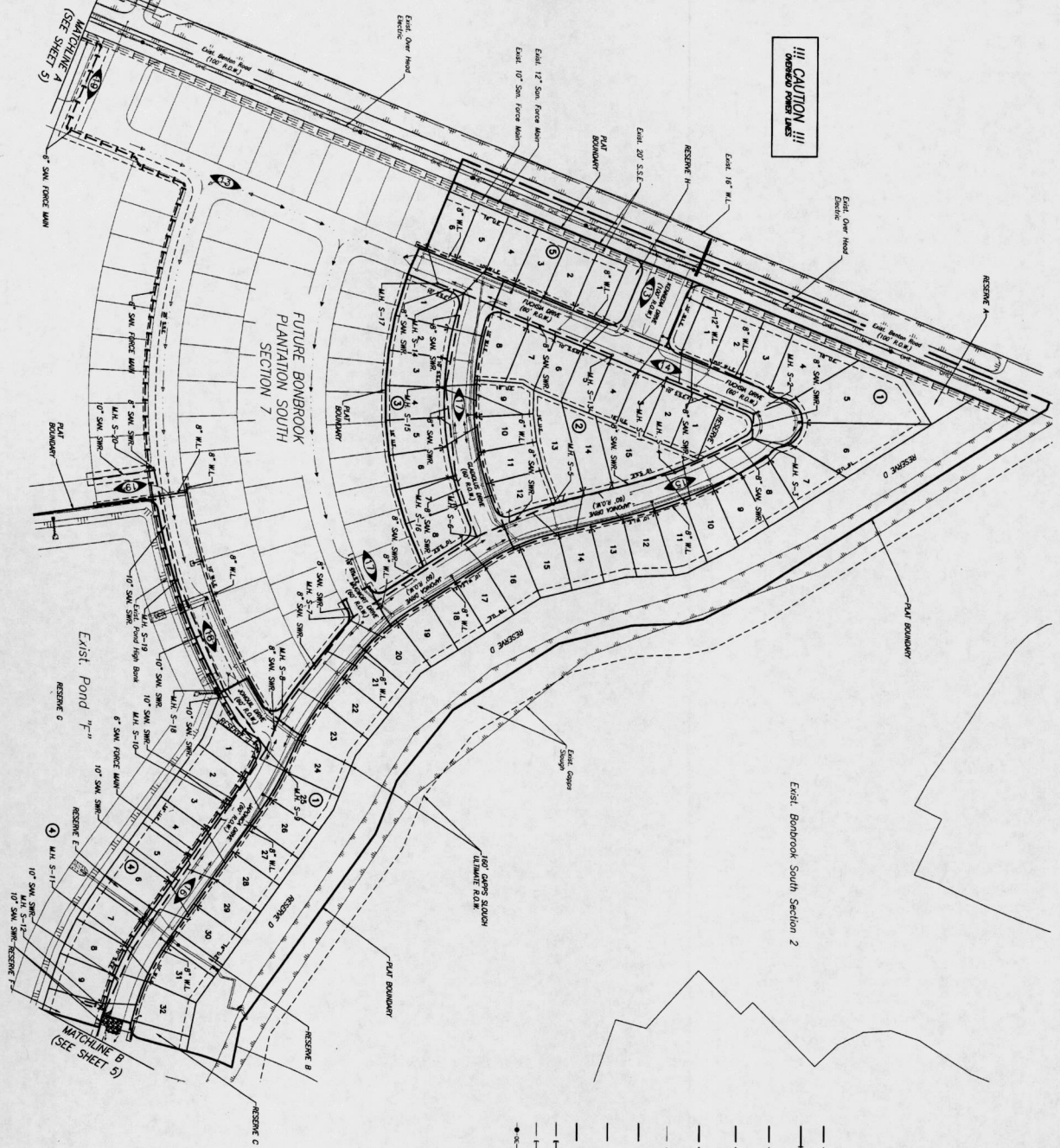
GENERAL NOTES
(SHEET 2 OF 2)

BEAZER HOMES TEXAS, L.P.
BONBROOK PLANTATION SOUTH SECTION 6

LA Engineering, Inc.
2001 West Loop South, Suite 100
Houston, Texas 77058
Phone: 713.555.5555
Fax: 713.555.5556
Email: info@la-engineering.com
Web: www.la-engineering.com

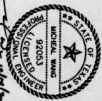
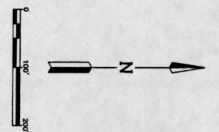
SCALE: NONE

SHEET NO. 3 OF 29

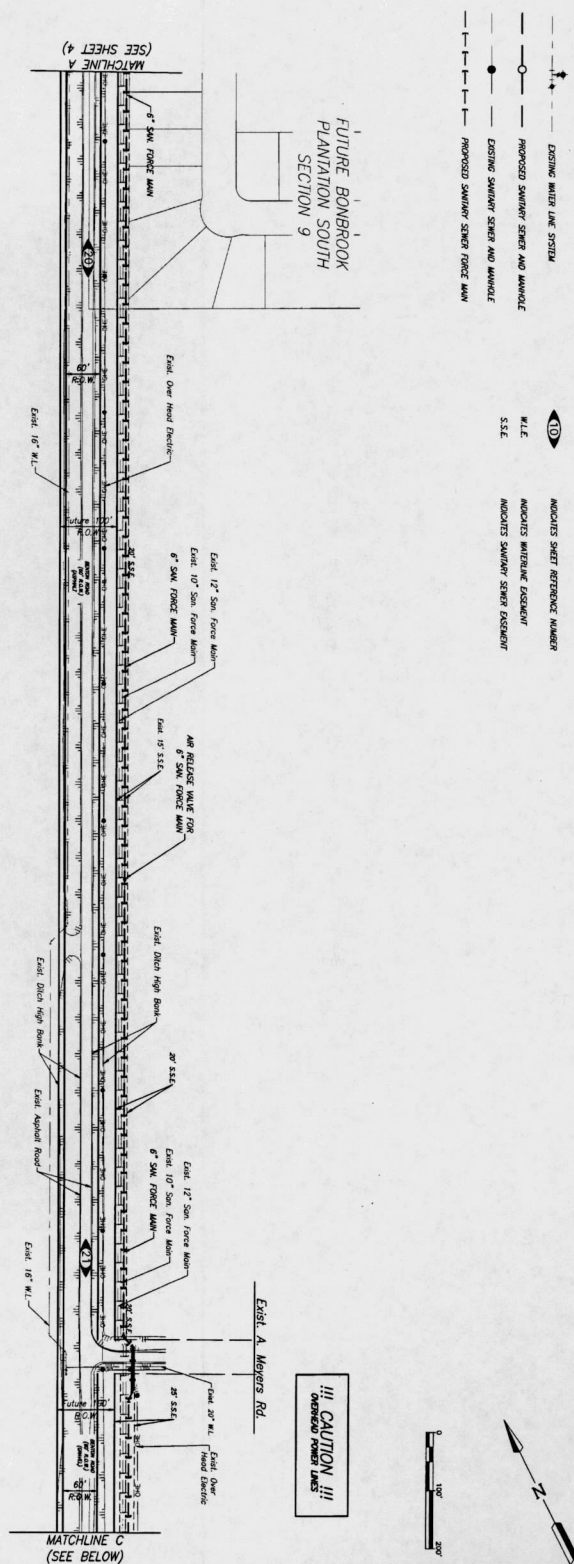
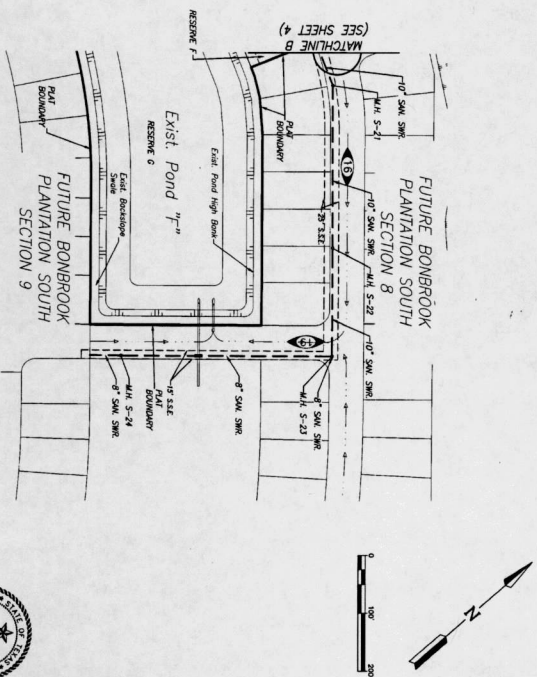


LEGEND

- PROPOSED WATER LINE AND DATE
- PROPOSED WATER LINE W/RECORDS
- PROPOSED WATER LINE W/TEE
- PROPOSED WATER LINE W/TEE HORIZONTAL LIFT
- A. LINE SIZE 2 1/2\"/>
- B. DATE, MAKE AND BOX
- C. TEE THROUGH
- 2\"/>
- EXISTING WATER LINE SYSTEM
- PROPOSED DOUBLE SANITARY SEWER LEAD
- PROPOSED SINGLE SANITARY SEWER LEAD
- PROPOSED SANITARY SEWER AND MANHOLE
- PROPOSED SANITARY SEWER FORCE MAIN
- EXISTING SANITARY SEWER FORCE MAIN
- EXISTING OVERHEAD POWER LINES & POWER POLES
- INDICATES SHEET REFERENCE NUMBER
- ① INDICATES BLOCK NUMBER
- 1 INDICATES LOT NUMBER
- W.L.C. INDICATES WATERLINE EXISTENT
- U.E. INDICATES UTILITY EXISTENT
- S.S.C. INDICATES SANITARY SEWER EXISTENT



| | | | |
|---|--|---|--|
| <p>RECORD DRAWING</p> <p>1. CERTIFY THAT THIS DRAWING REFLECTS THE APPROVED CONSTRUCTION AS TO SIZE, LOCATION AND DATE, AND THAT THE DESIGNER HAS REVIEWED THE DRAWING FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS.</p> <p>DATE: _____</p> | | <p>RECORD DRAWING</p> <p>1. CERTIFY THAT THIS DRAWING REFLECTS THE APPROVED CONSTRUCTION AS TO SIZE, LOCATION AND DATE, AND THAT THE DESIGNER HAS REVIEWED THE DRAWING FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS.</p> <p>DATE: _____</p> | |
| <p>APPROVED:</p> <p><i>[Signature]</i></p> <p>DATE: 11/17</p> | | <p>APPROVED:</p> <p><i>[Signature]</i></p> <p>DATE: 11/17</p> | |
| <p>BEAZER HOMES TEXAS, L.P.</p> <p>BONBROOK PLANTATION SOUTH SECTION 6</p> | | <p>BEAZER HOMES TEXAS, L.P.</p> <p>BONBROOK PLANTATION SOUTH SECTION 7</p> | |
| <p>WATER AND SANITARY SEWER LAYOUT</p> <p>(SHEET 1 OF 2)</p> | | <p>WATER AND SANITARY SEWER LAYOUT</p> <p>(SHEET 2 OF 2)</p> | |
| <p>LA Engineering, Inc.</p> <p>2020 Bonaparte Drive Houston, Texas 77042 Phone: 713.851.0200 Fax: 713.851.0201 Email: info@la-engineering.com</p> | | <p>LA Engineering, Inc.</p> <p>2020 Bonaparte Drive Houston, Texas 77042 Phone: 713.851.0200 Fax: 713.851.0201 Email: info@la-engineering.com</p> | |



| INDICATES SHEET REFERENCE NUMBER | INDICATES WATERLINE EASEMENT | INDICATES SANITARY SEWER EASEMENT |
|----------------------------------|------------------------------|-----------------------------------|
| 10 | W.E. | S.S.E. |

BENCHMARK

HEADWALL, LOCATED IN FORT BEND COUNTY, 0.15 MILE SOUTH OF THE INTERSECTION OF STATE HIGHWAY 36 AND MEYER ROAD, SET IN THE TOP OF A CONCRETE HEADWALL AND 1.7 FEET SOUTH OF THE NORTH END OF THE EAST CONCRETE HEADWALL.

OF A CULVERT, 24 FEET EAST OF THE CENTRINE OF STATE HIGHWAY 36 AND LEVEL WITH THE HIGHWAY'S SURFACE.

FILE NO.: 4815702023 L
DATE: APRIL 2, 2014

NOTES:
1) ALL UTILITIES ARE PROPOSED UNLESS OTHERWISE NOTED

2) THIS CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

THERE ARE EXISTING UTILITIES WITHIN THE PROJECT AREA. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL EXISTING UTILITIES

AFFECTING PROPOSED UTILITIES PRIOR TO CONSTRUCTION. IN THE EVENT OF CONFLICT BETWEEN EXISTING UTILITIES AND PROPOSED UTILITIES, THE CONTRACTOR SHALL SUSPEND

CONSTRUCTION IN THE VICINITY OF THE
CONFLICT, AND SHALL COMMENCE ONLY UPON
AUTHORIZATION BY OWNER.

4) ALL SANITARY SEWER, WATER LINE, AND STORM SEWER CROSSING FUTURE ROADS MUST BE BACKFILLED WITH CEMENT

SITUATED SAND TO TWO (2) FEET BELOW
NATURAL GROUND AND IS INCIDENTAL TO
CONSTRUCTION COSTS.

RECORD DRAWING
I CERTIFY THAT THIS DRAWING REFLECTS THE
IMPROVEMENTS CONSTRUCTED AS TO SIZE.

LOCATION AND GRADE AND THAT THE CONSTRUCTION WAS IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS

BY _____ DATE _____
TITLE _____

RECORD DRAWING
 CERTIFY THAT THIS DRAWING REFLECTS THE

IMPROVEMENTS CONSTRUCTED AS TO SIZE, LOCATION AND GRADE AND THAT THE CONSTRUCTION WAS IN FULL COMPLIANCE WITH

BY _____ DATE _____

| | |
|-------------|----------|
| TITLE _____ | |
| DATE _____ | BY _____ |

[illegible][illegible]

PORTLAND COUNTY ENGINEERING DEPARTMENT

370

APPROVED: James D. [Signature]
DEVELOPMENT COORDINATOR

DATE: 1/11/17



FOUNDED 1883

| | |
|--|--|
| | |
|--|--|

BEAZER HOMES TEXAS, L.P.

**BONBROOK PLANTATION SOUTH
SECTION 6**

| | |
|--|--|
| | |
|--|--|

WATER AND SANITARY SEWER
LAYOUT

(SHEET 2 OF 2)

LJA Engineering, Inc.
2929 Belknap Drive
Suite 600
Phone 713.953.5200
Fax 713.953.5026

| | |
|---|--------------|
| Houston, Texas 77042 | FRN - F-1396 |
| LJA PROJECT NO.: 1406-4113 & 1406-4113D | |

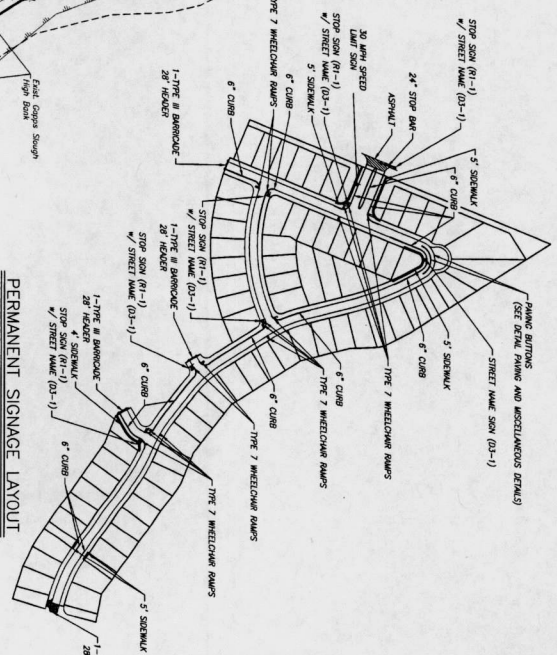
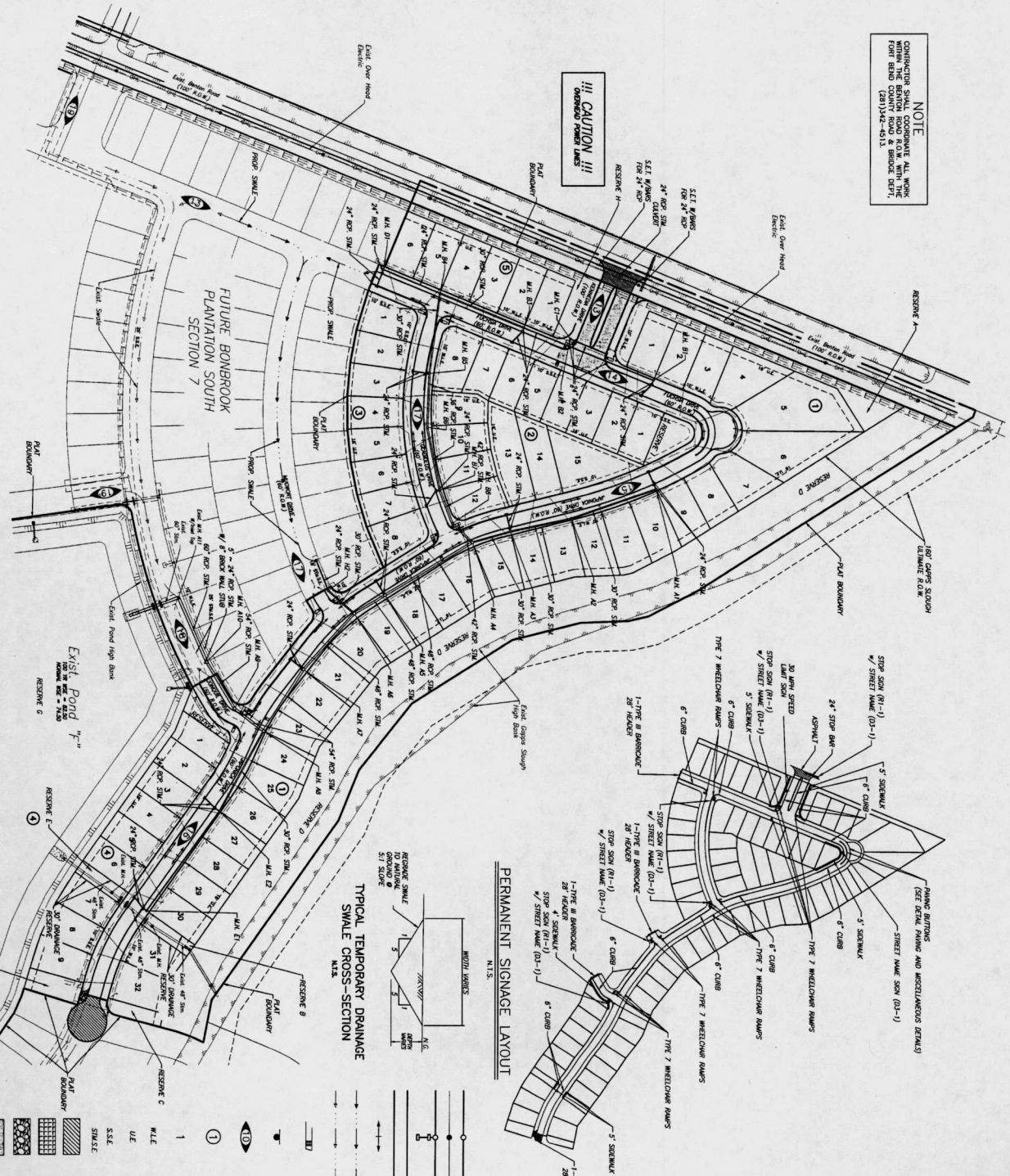
DRAWN: AB/E.R. DESIGN: AB/E.R. DATE: NOVEMBER 2016

SCALE: 1" = 100'

SHEET NO. 5 of 29

BONBROOK PLANTATION SOUTH SECTION 6 - 1406-4113 & 1406-4113D

NOTE
CONTRACTOR SHALL COORDINATE ALL WORK WITH THE GEOTECHNICAL ENGINEER WITH THE CITY OF FORT BEND COUNTY, TEXAS. (281)342-4511

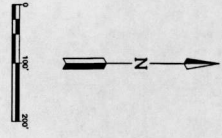


TYPICAL TEMPORARY DRAINAGE SWALE CROSS-SECTION
N.T.S.

PERMANENT SIGNAGE LAYOUT
N.T.S.

LEGEND

- PROPOSED STORM SEWER & MANHOLE
- EXISTING STORM SEWER AND MANHOLE
- PROPOSED STORM SEWER, MANHOLE, AND 14\"/>
- PROPOSED PAVEMENT
- INDICATES STORM SEWER
- INDICATES EXISTING TEMPORARY DRAINAGE SWALE
- INDICATES WHEELCHAIR RAMP
- INDICATES STREET SONG
- INDICATES STREET NUMBER
- INDICATES BLOCK NUMBER
- INDICATES LOT NUMBER
- INDICATES WATERLINE EXISTENT
- INDICATES UTILITY EXISTENT
- INDICATES SWANNEY SEWER EXISTENT
- INDICATES STORM SEWER EXISTENT
- INDICATES 1 & 1/2\"/>
- INDICATES 8\"/>
- INDICATES 6\"/>
- INDICATES 7\"/>



RECORD DRAWING
I CERTIFY THAT THIS DRAWING REFLECTS THE INFORMATION SUBMITTED TO ME BY THE CONTRACTOR AND THAT THE CONTRACT DOCUMENTS IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS.
DATE: _____
BY: _____
TITLE: _____

RECORD DRAWING
I CERTIFY THAT THIS DRAWING REFLECTS THE INFORMATION SUBMITTED TO ME BY THE CONTRACTOR AND THAT THE CONTRACT DOCUMENTS IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS.
DATE: _____
BY: _____
TITLE: _____

BEAZER HOMES TEXAS, L.P.
BONBROOK PLANTATION SOUTH SECTION 6
PAVING, DRAINAGE AND PERMANENT SIGNAGE LAYOUT

LA Engineering, Inc.
2002 Bonbrook Drive
Houston, Texas 77058
Phone 713.831.0300
Fax 713.831.0301
E-Mail info@la-engineering.com
Web www.la-engineering.com

APPROVED: _____
DATE: 10/1/17

FOR BEND COUNTY ENGINEERING DEPARTMENT

SCALE: 1" = 100'
SHEET NO. 6 OF 29

| 3-YR ADJUSTED STORM CALCULATIONS | | | | | | | | | |
|----------------------------------|------|-----|------|-----|------|------|------|------|------|
| LINE | FROM | TO | AREA | NO. | Q | Q | Q | Q | Q |
| LINE | FROM | TO | AREA | NO. | Q | Q | Q | Q | Q |
| 1 | 100 | 101 | 1.00 | 1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 2 | 101 | 102 | 1.00 | 2 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 3 | 102 | 103 | 1.00 | 3 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 4 | 103 | 104 | 1.00 | 4 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 5 | 104 | 105 | 1.00 | 5 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 6 | 105 | 106 | 1.00 | 6 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 7 | 106 | 107 | 1.00 | 7 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 8 | 107 | 108 | 1.00 | 8 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 9 | 108 | 109 | 1.00 | 9 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 10 | 109 | 110 | 1.00 | 10 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 11 | 110 | 111 | 1.00 | 11 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 12 | 111 | 112 | 1.00 | 12 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 13 | 112 | 113 | 1.00 | 13 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 14 | 113 | 114 | 1.00 | 14 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 15 | 114 | 115 | 1.00 | 15 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 16 | 115 | 116 | 1.00 | 16 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 17 | 116 | 117 | 1.00 | 17 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 18 | 117 | 118 | 1.00 | 18 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 19 | 118 | 119 | 1.00 | 19 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 20 | 119 | 120 | 1.00 | 20 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 21 | 120 | 121 | 1.00 | 21 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 22 | 121 | 122 | 1.00 | 22 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 23 | 122 | 123 | 1.00 | 23 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 24 | 123 | 124 | 1.00 | 24 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 25 | 124 | 125 | 1.00 | 25 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 26 | 125 | 126 | 1.00 | 26 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 27 | 126 | 127 | 1.00 | 27 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 28 | 127 | 128 | 1.00 | 28 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 29 | 128 | 129 | 1.00 | 29 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 30 | 129 | 130 | 1.00 | 30 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 31 | 130 | 131 | 1.00 | 31 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 32 | 131 | 132 | 1.00 | 32 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 33 | 132 | 133 | 1.00 | 33 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 34 | 133 | 134 | 1.00 | 34 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 35 | 134 | 135 | 1.00 | 35 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 36 | 135 | 136 | 1.00 | 36 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 37 | 136 | 137 | 1.00 | 37 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 38 | 137 | 138 | 1.00 | 38 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 39 | 138 | 139 | 1.00 | 39 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 40 | 139 | 140 | 1.00 | 40 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 41 | 140 | 141 | 1.00 | 41 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 42 | 141 | 142 | 1.00 | 42 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 43 | 142 | 143 | 1.00 | 43 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 44 | 143 | 144 | 1.00 | 44 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 45 | 144 | 145 | 1.00 | 45 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 46 | 145 | 146 | 1.00 | 46 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 47 | 146 | 147 | 1.00 | 47 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 48 | 147 | 148 | 1.00 | 48 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 49 | 148 | 149 | 1.00 | 49 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 50 | 149 | 150 | 1.00 | 50 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 51 | 150 | 151 | 1.00 | 51 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 52 | 151 | 152 | 1.00 | 52 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 53 | 152 | 153 | 1.00 | 53 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 54 | 153 | 154 | 1.00 | 54 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 55 | 154 | 155 | 1.00 | 55 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 56 | 155 | 156 | 1.00 | 56 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 57 | 156 | 157 | 1.00 | 57 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 58 | 157 | 158 | 1.00 | 58 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 59 | 158 | 159 | 1.00 | 59 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 60 | 159 | 160 | 1.00 | 60 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 61 | 160 | 161 | 1.00 | 61 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 62 | 161 | 162 | 1.00 | 62 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 63 | 162 | 163 | 1.00 | 63 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 64 | 163 | 164 | 1.00 | 64 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 65 | 164 | 165 | 1.00 | 65 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 66 | 165 | 166 | 1.00 | 66 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 67 | 166 | 167 | 1.00 | 67 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 68 | 167 | 168 | 1.00 | 68 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 69 | 168 | 169 | 1.00 | 69 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 70 | 169 | 170 | 1.00 | 70 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 71 | 170 | 171 | 1.00 | 71 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 72 | 171 | 172 | 1.00 | 72 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 73 | 172 | 173 | 1.00 | 73 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 74 | 173 | 174 | 1.00 | 74 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 75 | 174 | 175 | 1.00 | 75 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 76 | 175 | 176 | 1.00 | 76 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 77 | 176 | 177 | 1.00 | 77 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 78 | 177 | 178 | 1.00 | 78 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 79 | 178 | 179 | 1.00 | 79 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 80 | 179 | 180 | 1.00 | 80 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 81 | 180 | 181 | 1.00 | 81 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 82 | 181 | 182 | 1.00 | 82 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 83 | 182 | 183 | 1.00 | 83 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 84 | 183 | 184 | 1.00 | 84 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 85 | 184 | 185 | 1.00 | 85 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 86 | 185 | 186 | 1.00 | 86 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 87 | 186 | 187 | 1.00 | 87 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 88 | 187 | 188 | 1.00 | 88 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 89 | 188 | 189 | 1.00 | 89 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 90 | 189 | 190 | 1.00 | 90 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 91 | 190 | 191 | 1.00 | 91 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 92 | 191 | 192 | 1.00 | 92 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 93 | 192 | 193 | 1.00 | 93 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 94 | 193 | 194 | 1.00 | 94 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 95 | 194 | 195 | 1.00 | 95 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 96 | 195 | 196 | 1.00 | 96 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 97 | 196 | 197 | 1.00 | 97 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 98 | 197 | 198 | 1.00 | 98 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 99 | 198 | 199 | 1.00 | 99 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 100 | 199 | 200 | 1.00 | 100 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |

3-YEAR ADJUSTED STORM CALCULATIONS
 SHOW THE MAXIMUM AMOUNT OF CFS THAT
 CAN BE HYDRAULICALLY FORCED THROUGH
 THE PIPES BEFORE THE WATER SHEET
 FLOWS OVER THE DOWNSLOPE HIGH POINT.
 THE ADJUSTMENT FACTOR IS CHANGED
 UNTIL THE HGL IN RELATION TO TOC (LAST
 COLUMN) IS EQUAL TO THE DIFFERENCE IN
 HEAD OF THE LOW POINT AND THE
 DOWNSLOPE HIGH POINT.
 HERE THAT IS AT INLETS A101 AND A102.
 THE TOC EQUALS 82.90 AT THE INLETS.
 AND THE DOWNSLOPE HIGH POINT IS AT
 83.50. THE ADJUSTMENT FACTOR IS
 CHANGED UNTIL THE LAST COLUMN VALUE
 AT INLETS A101 AND A102 IS EQUAL TO
 0.60 (83.50 - 82.90).



BEAZER HOWES TEXAS, L.P.
 BONBROOK PLANTATION SOUTH
 SECTION 6
 DRAINAGE CALCULATIONS
 (3-TR & 3-TR ADJ.)
 LIA Engineering, Inc.
 2529 Highway 36
 Houston, Texas 77042
 Phone 713.553.5500
 Fax 713.553.5501
 Email info@liaeng.com
 LIA PROJECT NO.: 1406-4113 & 1406-4113-2
 DRAWN: A.B./E. DESIGNED: A.B./E. DATE: 12/06/17
 SCALE: NONE SHEET NO. 8 OF 29



APPROVED:
 DATE: 12/17/17
 FOR BEAZER HOWES TEXAS, L.P.
 CITY OF HOUSTON
 BEAZER HOWES TEXAS, L.P.
 BONBROOK PLANTATION SOUTH
 SECTION 6
 DRAINAGE CALCULATIONS
 (3-TR & 3-TR ADJ.)

RECORD DRAWING
 1. CERTIFY THAT THE DRAWING REFLECTS THE
 IMPROVEMENTS CONSTRUCTED AS TO SIZE,
 LOCATION AND GRADE AND THAT THE
 CONSTRUCTION WAS IN FULL COMPLIANCE WITH
 THE CONTRACT DOCUMENTS.
 DATE: 12/17/17

RECORD DRAWING
 1. CERTIFY THAT THE DRAWING REFLECTS THE
 IMPROVEMENTS CONSTRUCTED AS TO SIZE,
 LOCATION AND GRADE AND THAT THE
 CONSTRUCTION WAS IN FULL COMPLIANCE WITH
 THE CONTRACT DOCUMENTS.
 DATE: 12/17/17

RECORD DRAWING
 1. CERTIFY THAT THE DRAWING REFLECTS THE
 IMPROVEMENTS CONSTRUCTED AS TO SIZE,
 LOCATION AND GRADE AND THAT THE
 CONSTRUCTION WAS IN FULL COMPLIANCE WITH
 THE CONTRACT DOCUMENTS.
 DATE: 12/17/17

RECORD DRAWING
 1. CERTIFY THAT THE DRAWING REFLECTS THE
 IMPROVEMENTS CONSTRUCTED AS TO SIZE,
 LOCATION AND GRADE AND THAT THE
 CONSTRUCTION WAS IN FULL COMPLIANCE WITH
 THE CONTRACT DOCUMENTS.
 DATE: 12/17/17

Bonbrook Plantation South Section 6
 100-YR Storm Calcs

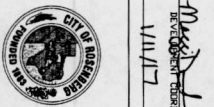
| Area | From | To | High TC | Low TC | Max Elev | Height | H + 0.35 | Area | Intensity | C Value | 1.2CFA | 3Yr | Accum | CFS | Pass | in CFS | Tc |
|------|-----------|-----------|---------|--------|----------|--------|----------|---------|-----------|---------|--------|----------|--------|--------|-------|--------|-------|
| | MH No. | MH No. | | Elev | Ponding | Feet | Feet | (Acres) | | | | Upstream | CFS | | | | (Min) |
| A | 101 | 102 | 83.50 | 82.60 | 83.90 | 0.40 | 0.75 | 0.52 | 9.06 | 0.55 | 3.22 | 0.00 | 3.22 | 2.28 | 0.64 | | 10.00 |
| A | 102 | 1 | 83.50 | 82.60 | 83.90 | 0.40 | 0.75 | 0.52 | 9.06 | 0.55 | 3.22 | 0.00 | 3.22 | 2.28 | 0.64 | | 10.00 |
| A | 2 | 3 | 83.50 | 82.60 | 83.90 | 0.40 | 0.75 | 0.52 | 9.06 | 0.55 | 3.22 | 0.00 | 3.22 | 2.28 | 0.64 | | 10.00 |
| A | 3 | 4 | 83.50 | 82.60 | 83.90 | 0.40 | 0.75 | 0.52 | 9.06 | 0.55 | 3.22 | 0.00 | 3.22 | 2.28 | 0.64 | | 10.00 |
| A | 4 | 5 | 83.50 | 82.60 | 83.90 | 0.40 | 0.75 | 0.52 | 9.06 | 0.55 | 3.22 | 0.00 | 3.22 | 2.28 | 0.64 | | 10.00 |
| A | 5 | 6 | 83.50 | 82.60 | 83.90 | 0.40 | 0.75 | 0.52 | 9.06 | 0.55 | 3.22 | 0.00 | 3.22 | 2.28 | 0.64 | | 10.00 |
| A | 6 | 7 | 83.50 | 82.60 | 83.90 | 0.40 | 0.75 | 0.52 | 9.06 | 0.55 | 3.22 | 0.00 | 3.22 | 2.28 | 0.64 | | 10.00 |
| A | 7 | 8 | 83.50 | 82.60 | 83.90 | 0.40 | 0.75 | 0.52 | 9.06 | 0.55 | 3.22 | 0.00 | 3.22 | 2.28 | 0.64 | | 10.00 |
| A | 8 | 9 | 83.50 | 82.60 | 83.90 | 0.40 | 0.75 | 0.52 | 9.06 | 0.55 | 3.22 | 0.00 | 3.22 | 2.28 | 0.64 | | 10.00 |
| A | 9 | 10 | 83.50 | 82.60 | 83.90 | 0.40 | 0.75 | 0.52 | 9.06 | 0.55 | 3.22 | 0.00 | 3.22 | 2.28 | 0.64 | | 10.00 |
| A | 10 | 11 | 83.50 | 82.60 | 83.90 | 0.40 | 0.75 | 0.52 | 9.06 | 0.55 | 3.22 | 0.00 | 3.22 | 2.28 | 0.64 | | 10.00 |
| A | 11 | OUTFALL | 83.30 | 83.00 | 84.00 | 0.70 | 1.05 | 9.98 | 7.76 | 0.55 | 53.27 | 0.00 | 198.32 | 141.31 | 55.01 | | 16.82 |
| A | 301 | 302 | 83.40 | 82.80 | 83.80 | 0.40 | 0.75 | 0.78 | 9.06 | 0.55 | 4.75 | 0.00 | 4.75 | 3.36 | 1.39 | | 10.00 |
| A | 302 | 3 | 83.40 | 82.80 | 83.80 | 0.40 | 0.75 | 0.87 | 9.05 | 0.55 | 5.41 | 0.00 | 10.16 | 7.19 | 2.97 | | 10.00 |
| A | 501 | 502 | 83.30 | 82.70 | 83.70 | 0.40 | 0.75 | 0.15 | 9.06 | 0.55 | 0.98 | 0.00 | 0.98 | 0.67 | 0.28 | | 10.00 |
| A | 502 | 5 | 83.30 | 82.70 | 83.70 | 0.40 | 0.75 | 0.85 | 9.05 | 0.55 | 5.88 | 0.00 | 6.84 | 4.84 | 2.80 | | 10.00 |
| H | 2 | 46 | 83.28 | 82.60 | 83.60 | 0.32 | 0.67 | 2.84 | 6.84 | 0.55 | 17.45 | 0.00 | 17.45 | 12.42 | 5.03 | | 10.49 |
| A | 701 | 702 | 83.10 | 82.60 | 83.60 | 0.50 | 0.85 | 0.16 | 9.06 | 0.55 | 0.98 | 0.00 | 0.98 | 0.70 | 0.29 | | 10.00 |
| A | 702 | 7 | 83.10 | 82.60 | 83.60 | 0.50 | 0.85 | 0.91 | 9.05 | 0.55 | 5.65 | 0.00 | 6.64 | 4.70 | 1.84 | | 10.08 |
| A | INLET 108 | INLET 109 | 83.05 | 82.30 | 83.30 | 0.25 | 0.60 | 0.28 | 9.06 | 0.55 | 1.75 | 0.00 | 1.75 | 1.24 | 0.51 | | 10.08 |
| A | INLET 109 | 10 | 83.05 | 82.30 | 83.30 | 0.25 | 0.60 | 1.06 | 9.05 | 0.55 | 6.61 | 0.00 | 8.36 | 5.92 | 2.44 | | 10.08 |
| B | 101 | 102 | 83.75 | 83.00 | 84.00 | 0.25 | 0.60 | 0.89 | 9.06 | 0.55 | 5.56 | 0.00 | 5.56 | 3.83 | 1.63 | | 10.00 |
| B | 102 | 1 | 83.75 | 83.00 | 84.00 | 0.25 | 0.60 | 1.72 | 9.04 | 0.55 | 10.67 | 0.00 | 16.23 | 11.48 | 4.74 | | 10.09 |
| B | 1 | 2 | 83.75 | 83.00 | 84.00 | 0.25 | 0.60 | 0.00 | 9.04 | 0.55 | 0.00 | 0.00 | 18.14 | 13.38 | 5.76 | | 10.11 |
| B | 2 | 3 | 83.65 | 83.05 | 84.05 | 0.40 | 0.75 | 0.48 | 8.77 | 0.55 | 2.92 | 0.00 | 31.88 | 22.48 | 9.40 | | 11.75 |
| B | 3 | 4 | 83.65 | 83.10 | 84.10 | 0.45 | 0.80 | 2.14 | 8.65 | 0.55 | 12.74 | 0.00 | 39.08 | 27.42 | 11.66 | | 12.82 |
| B | 4 | 5 | 83.50 | 82.90 | 83.90 | 0.25 | 0.60 | 1.24 | 8.43 | 0.55 | 7.20 | 0.00 | 47.79 | 33.54 | 14.25 | | 13.77 |
| B | 5 | 6 | 83.50 | 82.90 | 83.90 | 0.25 | 0.60 | 0.75 | 8.39 | 0.55 | 6.71 | 0.00 | 47.79 | 33.54 | 14.25 | | 13.77 |
| B | 6 | 7 | 83.50 | 82.90 | 83.90 | 0.25 | 0.60 | 0.86 | 8.13 | 0.55 | 8.04 | 0.00 | 55.83 | 39.04 | 16.79 | | 15.18 |
| B | 7 | 8 | 83.28 | 82.70 | 83.70 | 0.42 | 0.77 | 0.00 | 7.59 | 0.55 | 0.00 | 0.00 | 55.83 | 39.04 | 16.79 | | 15.18 |
| C | 101 | 102 | 83.85 | 83.85 | 84.65 | 1.00 | 1.35 | 0.24 | 9.06 | 0.55 | 1.51 | 0.00 | 1.51 | 1.07 | 0.44 | | 10.00 |
| C | 102 | CT | 83.85 | 83.85 | 84.65 | 1.00 | 1.35 | 0.24 | 8.99 | 0.55 | 1.46 | 0.00 | 3.00 | 2.12 | 0.86 | | 10.54 |
| C | CT | B2 | 83.85 | 83.85 | 84.65 | 1.00 | 1.35 | 0.00 | 8.85 | 0.55 | 0.00 | 0.00 | 3.00 | 2.12 | 0.86 | | 10.54 |
| B | 301 | 302 | 83.65 | 83.05 | 84.05 | 0.40 | 0.75 | 1.06 | 9.04 | 0.55 | 6.58 | 0.00 | 6.58 | 4.68 | 1.93 | | 10.09 |
| D | 101 | 102 | 83.65 | 82.95 | 83.95 | 0.32 | 0.67 | 0.15 | 9.06 | 0.55 | 0.96 | 0.00 | 0.96 | 0.68 | 0.28 | | 10.00 |
| D | 102 | DI | 83.65 | 82.95 | 83.95 | 0.30 | 0.65 | 0.00 | 9.05 | 0.55 | 0.00 | 0.00 | 7.73 | 5.47 | 2.26 | | 10.10 |
| D | DI | B4 | 83.65 | 82.95 | 83.95 | 0.30 | 0.65 | 0.00 | 9.04 | 0.55 | 0.00 | 0.00 | 7.73 | 5.47 | 2.26 | | 10.10 |
| B | 501 | 502 | 83.50 | 82.80 | 83.90 | 0.40 | 0.75 | 1.07 | 9.06 | 0.55 | 6.67 | 0.00 | 6.67 | 4.72 | 1.95 | | 10.08 |
| B | 502 | B5 | 83.50 | 82.80 | 83.90 | 0.40 | 0.75 | 0.47 | 9.05 | 0.55 | 2.90 | 0.00 | 9.57 | 6.77 | 2.80 | | 10.08 |
| B | 701 | 702 | 83.28 | 82.75 | 83.75 | 0.47 | 0.82 | 0.82 | 9.06 | 0.55 | 5.12 | 0.00 | 5.12 | 3.82 | 1.50 | | 10.00 |
| B | 702 | B7 | 83.28 | 82.75 | 83.75 | 0.51 | 0.86 | 0.64 | 9.03 | 0.55 | 3.98 | 0.00 | 9.10 | 6.44 | 2.67 | | 10.12 |
| E | 101 | 102 | 83.10 | 82.51 | 83.51 | 0.41 | 0.76 | 1.47 | 9.06 | 0.55 | 9.19 | 0.00 | 9.19 | 6.50 | 2.69 | | 10.00 |
| E | 102 | 1 | 83.10 | 82.51 | 83.51 | 0.41 | 0.76 | 1.20 | 9.04 | 0.55 | 7.44 | 0.00 | 16.62 | 11.76 | 4.87 | | 10.08 |
| E | 1 | 2 | 83.10 | 82.51 | 83.51 | 0.41 | 0.76 | 0.00 | 9.04 | 0.55 | 0.00 | 0.00 | 16.62 | 11.76 | 4.87 | | 10.10 |
| E | 2 | A8 | 83.14 | 82.41 | 83.41 | 0.27 | 0.62 | 2.14 | 8.70 | 0.55 | 12.77 | 0.00 | 29.39 | 20.70 | 8.69 | | 11.53 |
| E | 201 | 202 | 83.14 | 82.41 | 83.41 | 0.27 | 0.62 | 0.88 | 9.06 | 0.55 | 6.12 | 0.00 | 6.12 | 4.33 | 1.79 | | 10.08 |
| E | 202 | 2 | 83.14 | 82.41 | 83.41 | 0.27 | 0.62 | 1.16 | 9.05 | 0.55 | 7.17 | 0.00 | 13.26 | 9.40 | 3.89 | | 10.08 |

100 Yr. = Difference

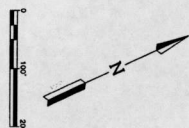
THE CFS PASS PIPE COLUMN IS THE MAXIMUM AMOUNT OF CFS THAT CAN BE HYDRAULICALLY FORCED THROUGH PIPES. THIS NUMBER COMES FROM THE 3-YR. ADJUSTED CFS. THIS IS THEN USED TO SHOW THE AMOUNT OF CFS REMAINING CAN BE CARRIED BY THE STREET USING THE WEIR EQUATION.

RECORD DRAINAGE
 1) ALL UTILITIES ARE PROPOSED UNLESS NOTED OTHERWISE.
 2) THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS PRIOR TO CONSTRUCTION.
 3) THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 4) ALL EXISTING UTILITIES SHALL BE PROTECTED AND MAINTAINED THROUGHOUT CONSTRUCTION.
 5) ALL EXISTING UTILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
 6) ALL EXISTING UTILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
 7) ALL EXISTING UTILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
 8) ALL EXISTING UTILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
 9) ALL EXISTING UTILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
 10) ALL EXISTING UTILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

RECORD DRAINAGE
 1) ALL UTILITIES ARE PROPOSED UNLESS NOTED OTHERWISE.
 2) THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS PRIOR TO CONSTRUCTION.
 3) THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 4) ALL EXISTING UTILITIES SHALL BE PROTECTED AND MAINTAINED THROUGHOUT CONSTRUCTION.
 5) ALL EXISTING UTILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
 6) ALL EXISTING UTILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
 7) ALL EXISTING UTILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
 8) ALL EXISTING UTILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
 9) ALL EXISTING UTILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
 10) ALL EXISTING UTILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.



BEAZER HOMES TEXAS, L.P.
 BONBROOK PLANTATION SOUTH SECTION 6
 DRAINAGE CALCULATIONS (100-YR)
 LIA Engineering, Inc.
 1406-4113 & 1406-4113D
 SHEET NO. 9 of 29



- ALL UTILITIES ARE PROPOSED UNLESS NOTED OTHERWISE.

- 3) THERE ARE EXISTING UTILITIES WITHIN THE PROJECT AREA. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL EXISTING UTILITIES AT EVERY LOCATION OF ALL EXISTING UTILITIES BETWEEN EXISTING UTILITIES AND PROPOSED CONSTRUCTION. IN THE EVENT OF CONFLICT, THE CONTRACTOR SHALL SUSPEND CONSTRUCTION OF THE PROJECT UNTIL THE CONFLICT, AND SHALL COMMENCE ONLY UPON AUTHORIZATION BY OWNER.
- 4) ALL UTILITIES SHALL BE MAINTAINED AND STORM SEWER CROSSING PAVEMENT ROADS MUST BE OVERLAPPED WITH CURB GUTTER STRIPPED SAND TO TWO (2) FEET BELOW EXISTING FINISH GRADE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION COSTS.

RECORD DRAWING

TITLE _____

I CERTIFY THAT THIS DRAWING REFLECTS THE IMPROVEMENTS CONSTRUCTED AS TO SIZE, LOCATION AND GRADE AND THAT THE CONSTRUCTION WAS IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS.

BY _____ DATE _____

CERTIFY AT THIS DRAWING REFLECTS THE

[illegible]

APPROVED: _____
DEVELOPMENT COORDINATOR

DATE: _____ 1/11/17 _____




BEAZER HOMES TEXAS, L.P.
BONBROOK PLANTATION SOUTH
SECTION 6

GRADING PLAN

LJA Engineering, Inc.
8029 Richmond Drive
Phone 713 963 4300

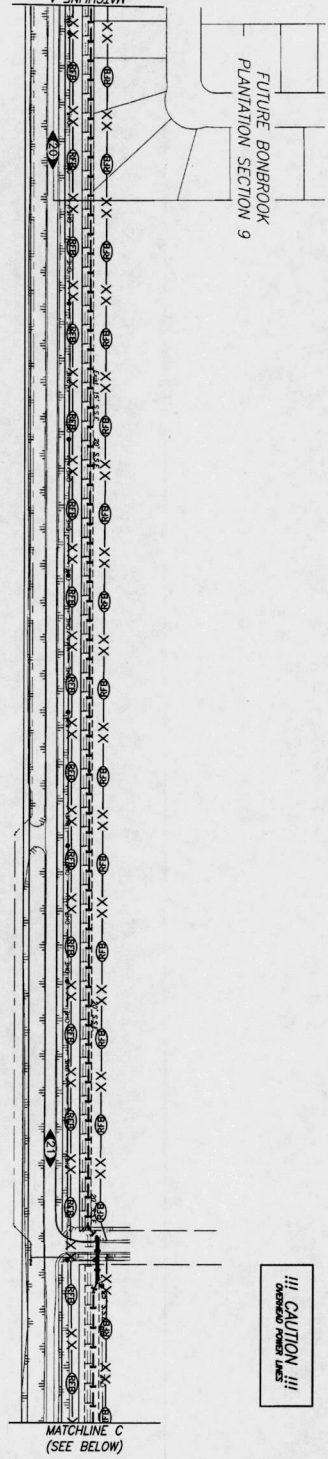
Suite 600
 Houston, Texas 77042
 FAX 713 853 507
 FRN - F-133

SCALE: 1" = 100' 10' 20'

- LEGEND**
- 
 - STABILIZED CONSTRUCTION EXIT
 - 
 - INLET PROTECTION BARRIER
 - 
 - REINFORCED FABRIC FENCE

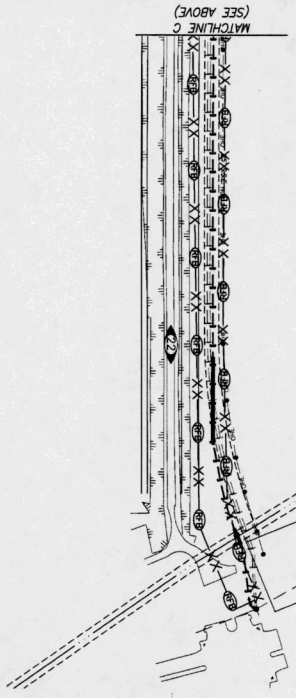
FUTURE BONBROOK
PLANTATION SECTION 9

MATCHLINE A
(SEE SHEET 11)

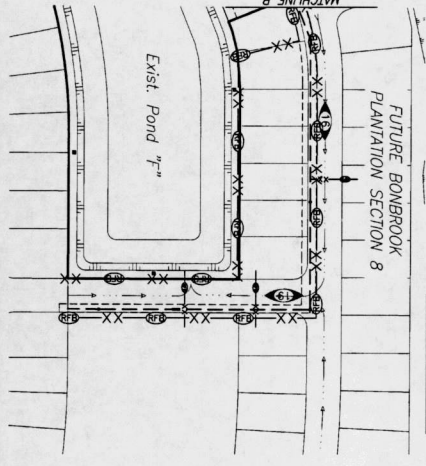


MATCHLINE C
(SEE BELOW)

iii CAUTION iii
OVERHEAD POWER LINES

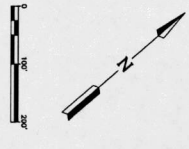
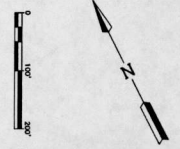


MATCHLINE B
(SEE SHEET 11)



iii CAUTION iii
OVERHEAD POWER LINES

iii CAUTION iii
OVERHEAD POWER LINES



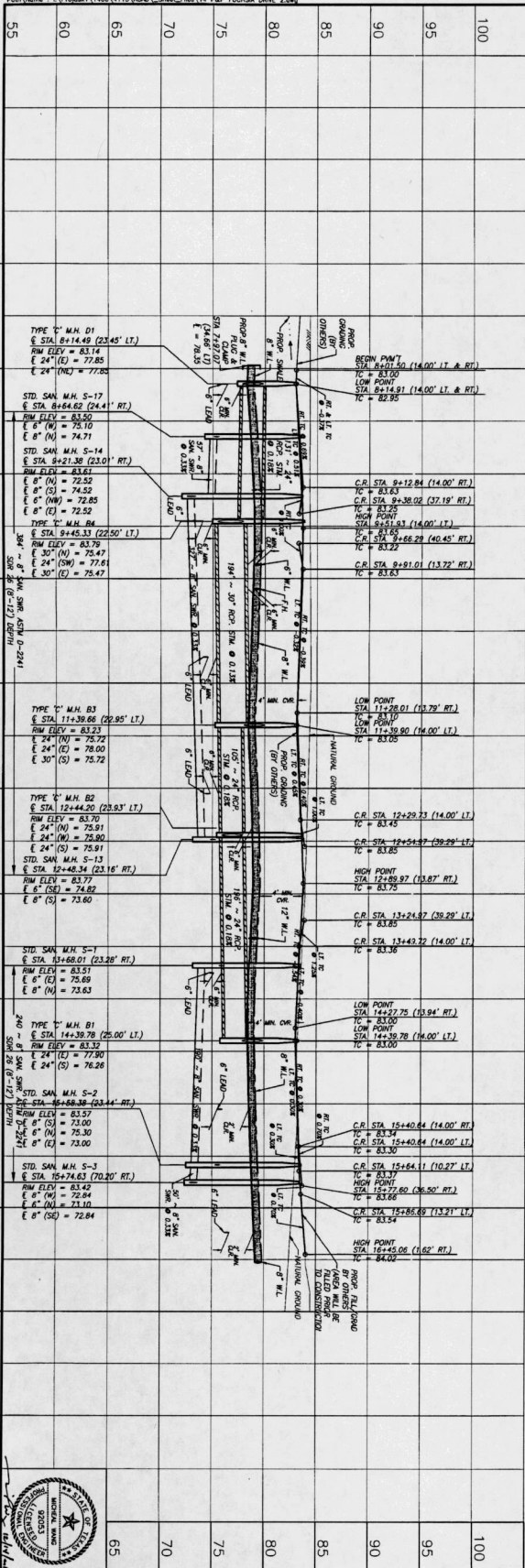
1) ALL UTILITIES ARE PROPOSED UNLESS
 OTHERWISE NOTED.
 2) THIS CONTRACTOR SHALL FIELD VERIFY ALL
 EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR
 THE PROTECTION OF ALL EXISTING UTILITIES
 LOCATED WITHIN THE PROJECT AREA.
 4) ALL SANITARY SEWER, WATER LINE, AND
 GAS LINES SHALL BE INSTALLED TO A MINIMUM
 OF 36" COVER.
 5) ALL UTILITIES SHALL BE INSTALLED TO A
 MINIMUM OF 36" COVER.
 6) ALL UTILITIES SHALL BE INSTALLED TO A
 MINIMUM OF 36" COVER.
 7) ALL UTILITIES SHALL BE INSTALLED TO A
 MINIMUM OF 36" COVER.
 8) ALL UTILITIES SHALL BE INSTALLED TO A
 MINIMUM OF 36" COVER.
 9) ALL UTILITIES SHALL BE INSTALLED TO A
 MINIMUM OF 36" COVER.
 10) ALL UTILITIES SHALL BE INSTALLED TO A
 MINIMUM OF 36" COVER.

RECORD DRAWING
 I CERTIFY THAT THIS DRAWING REFLECTS THE
 LOCATION AND GRADE AND THAT THE
 CONSTRUCTION WAS IN FULL COMPLIANCE WITH
 THE CONTRACT DOCUMENTS.
 DATE: _____
 BY: _____
 TITLE: _____
 REVISION DATE: _____

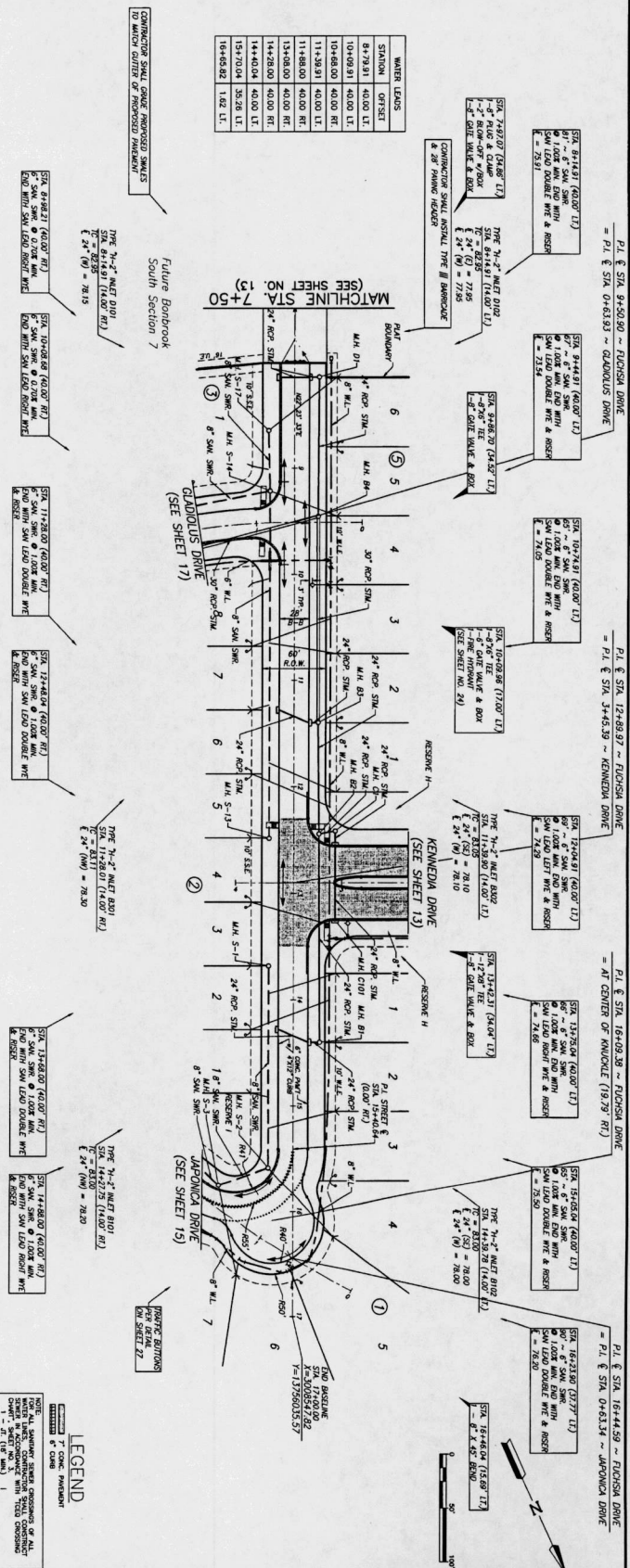
APPROVED: _____
 DATE: 11/17
 TITLE: _____
 BY: _____
 REVISION DATE: _____

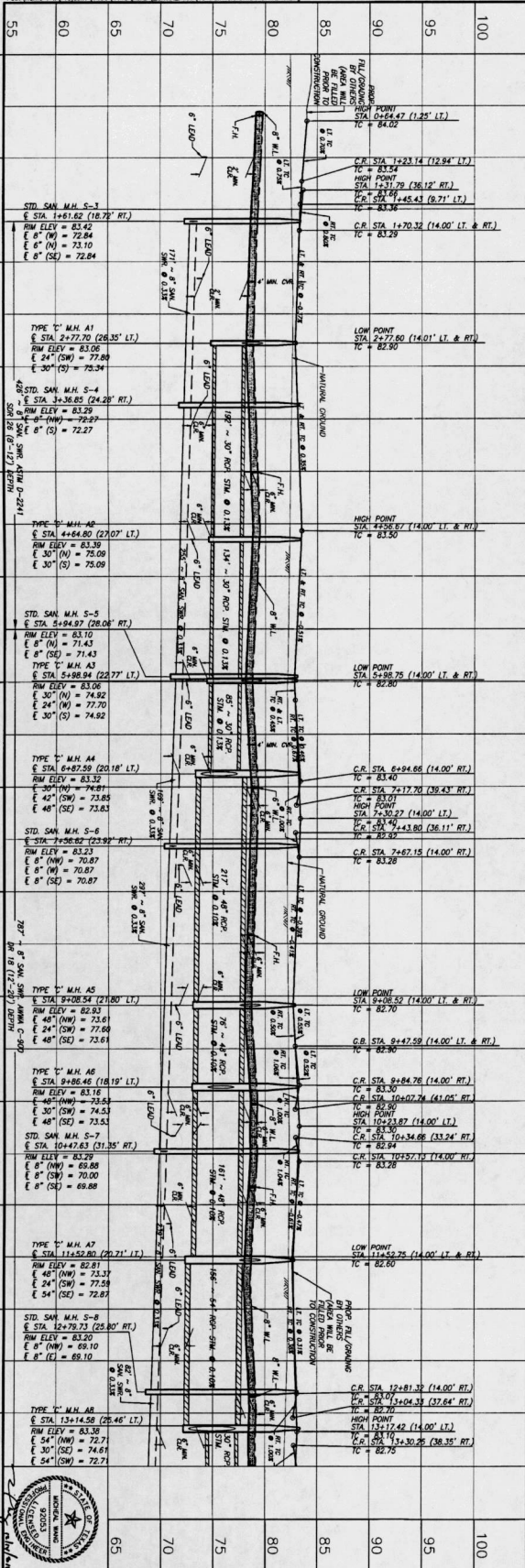


BEAZER HOMES TEXAS, L.P.
 BONBROOK PLANTATION SOUTH
 SECTION 6
 STORM WATER POLLUTION
 PREVENTION PLAN
 (SHEET 2 OF 2)
 LIA Engineering, Inc.
 2500 Bonbrook Drive
 Houston, Texas 77042
 Phone: 713-333-3300
 Fax: 713-333-3301
 E-mail: info@liaeng.com
 WWW.LIA-ENG.COM
 LIA PROJECT NO.: 1406-4113 & 1406-4113D
 DRAWN: A.E./E. DESIGNED: A.E./E. DATE: NOVEMBER 2016
 SCALE: 1" = 100' SHEET NO. 12 OF 29



FUCHSIA DRIVE (60' R.O.W.)

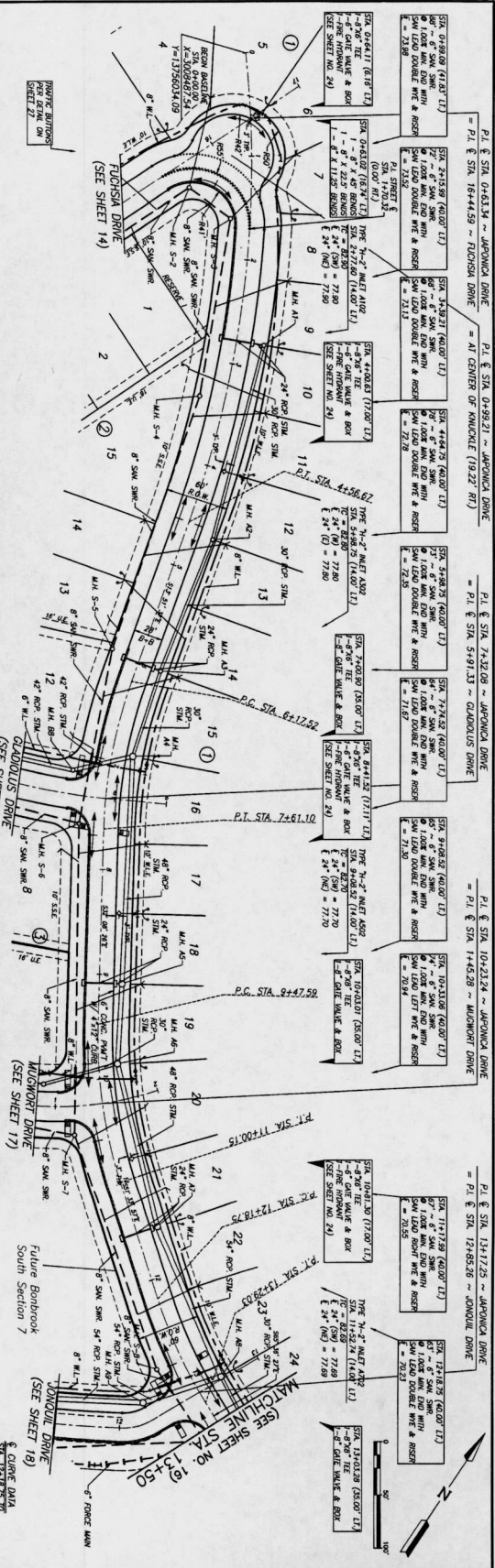
[illegible]



| WATER LEAKS | | WATER LEAKS | | WATER LEAKS | |
|-------------|-----------|-------------|-----------|-------------|-----------|
| STATION | OFFSET | STATION | OFFSET | STATION | OFFSET |
| 1+34.37 | 38.68 LT. | 5+29.23 | 40.00 RT. | 9+85.34 | 40.00 LT. |
| 2+77.29 | 40.00 LT. | 5+31.75 | 40.00 LT. | 11+52.75 | 40.00 LT. |
| 3+13.31 | 40.00 RT. | 6+87.78 | 40.00 RT. | 13+14.56 | 40.00 LT. |
| 4+00.82 | 40.00 LT. | | | | |

| WATER LEAKS | | WATER LEAKS | | WATER LEAKS | |
|-------------|-----------|-------------|-----------|-------------|-----------|
| STATION | OFFSET | STATION | OFFSET | STATION | OFFSET |
| 1+34.37 | 38.68 LT. | 5+29.23 | 40.00 RT. | 9+85.34 | 40.00 LT. |
| 2+77.29 | 40.00 LT. | 5+31.75 | 40.00 LT. | 11+52.75 | 40.00 LT. |
| 3+13.31 | 40.00 RT. | 6+87.78 | 40.00 RT. | 13+14.56 | 40.00 LT. |
| 4+00.82 | 40.00 LT. | | | | |

| WATER LEAKS | | WATER LEAKS | | WATER LEAKS | |
|-------------|-----------|-------------|-----------|-------------|-----------|
| STATION | OFFSET | STATION | OFFSET | STATION | OFFSET |
| 1+34.37 | 38.68 LT. | 5+29.23 | 40.00 RT. | 9+85.34 | 40.00 LT. |
| 2+77.29 | 40.00 LT. | 5+31.75 | 40.00 LT. | 11+52.75 | 40.00 LT. |
| 3+13.31 | 40.00 RT. | 6+87.78 | 40.00 RT. | 13+14.56 | 40.00 LT. |
| 4+00.82 | 40.00 LT. | | | | |

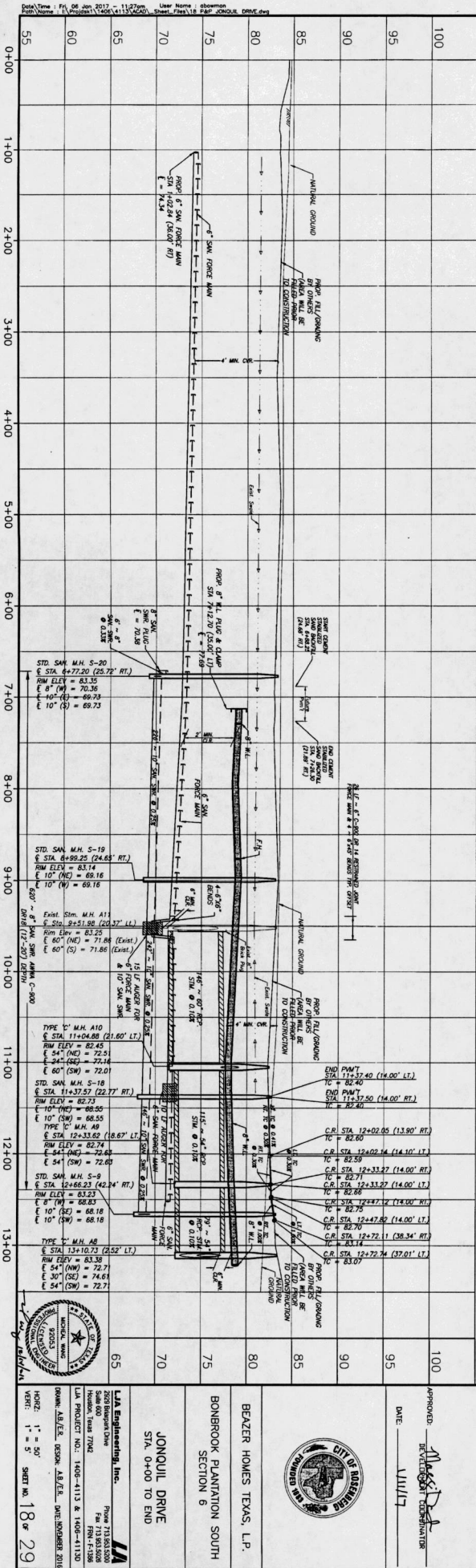
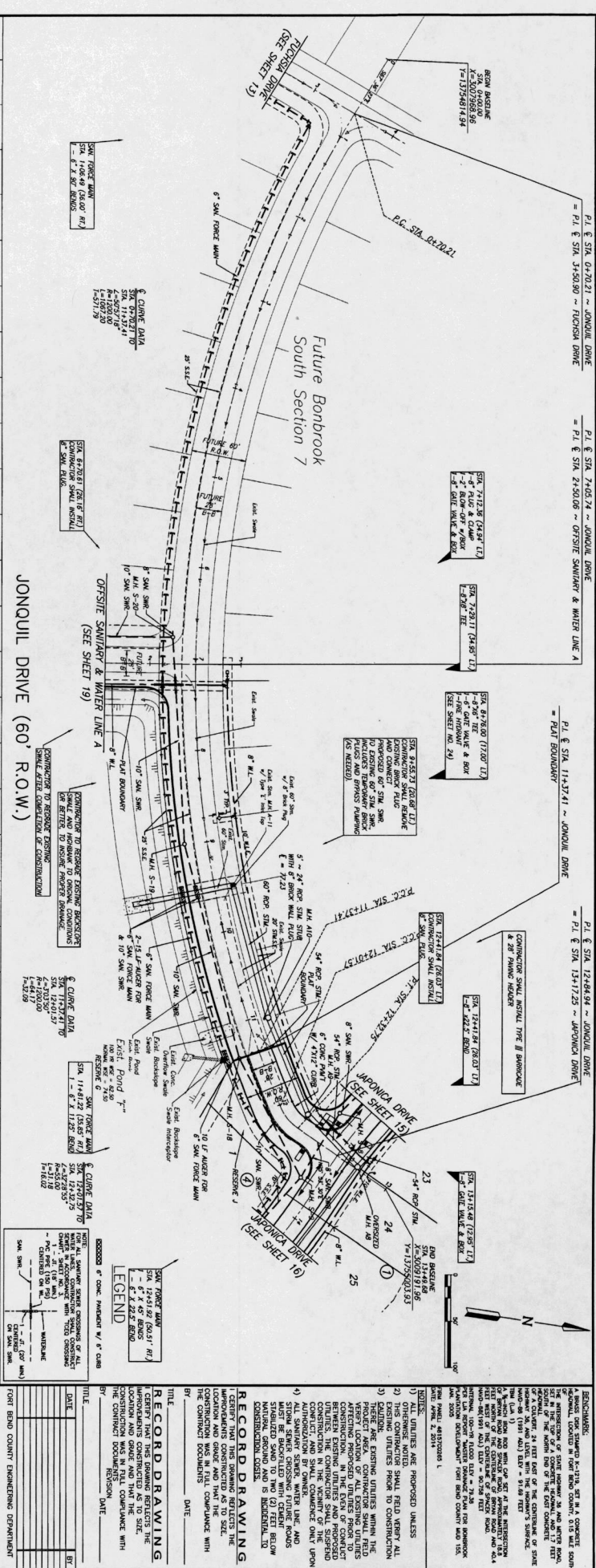


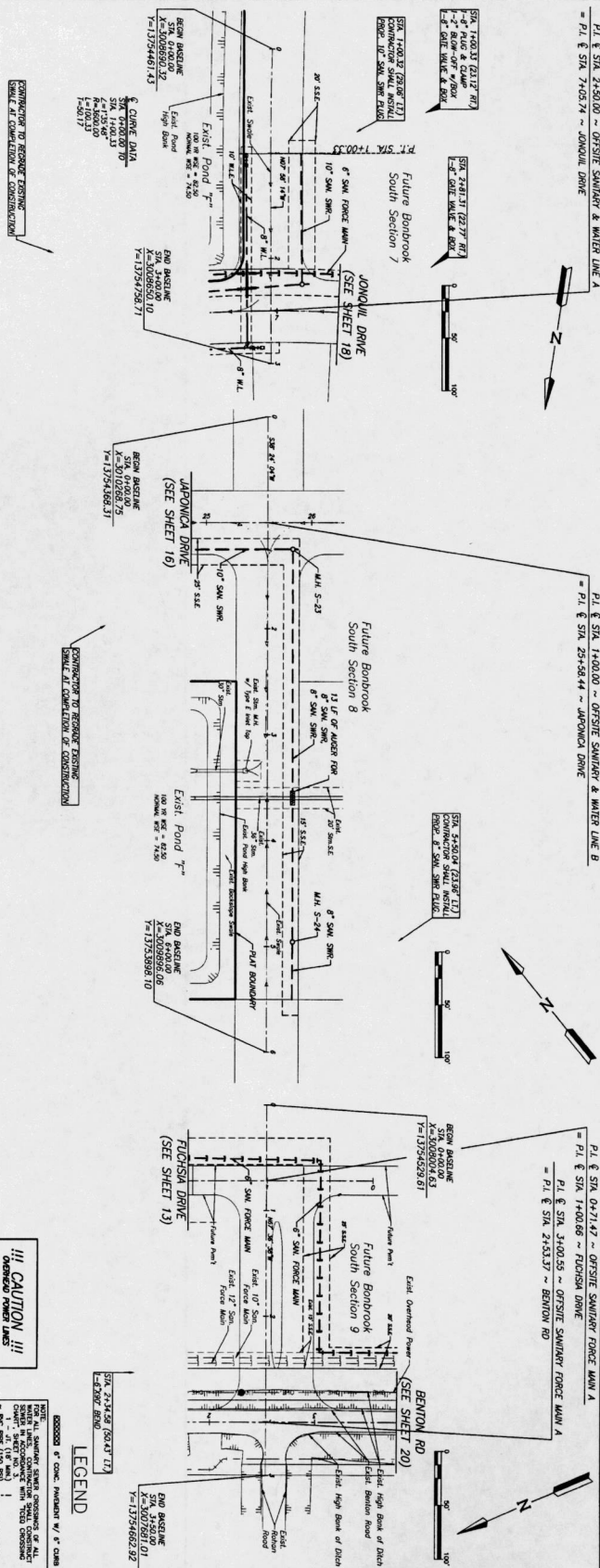
BEAZER HOMES TEXAS, L.P.
BONBROOK PLANTATION SOUTH SECTION 6
JAPONICA DRIVE
STA 0+00 TO 13+50

Engineering, Inc.
1406-4113 & 1406-4113
1406-4113 & 1406-4113
1406-4113 & 1406-4113

APPROVED: *[Signature]*
DATE: 11/1/17
REVISION: 1

RECORD DRAWING
DATE: 11/1/17
REVISION: 1





OFFSITE SANITARY & WATER LINE A

OFFSITE SANITARY SEWER B

OFFSITE SANITARY FORCE MAIN A

!!! CAUTION !!!
OVERHEAD POWER LINES

LEGEND

50.45' LT.)

$$\begin{array}{l} X=30 \\ Y=13 \end{array}$$

END B
STA

7

Exist. High 6

Exist. high t
Exist. Benton

ON RD
SHEET 20)

—

2-

10

The diagram illustrates a bridge cross-section with various structural elements and ground levels. Key features include:

- PROPOSED FULL CLOSING** and **EXISTING FULL CLOSING** sections.
- NATURAL GROUND** line indicating the original terrain.
- EXISTING PIERCE MAIN** and **EXISTING FULL CLOSING** sections.
- STD. SAN. M.H. 5-20** (Station 2+24.63 (29.47' LT.))
- STD. SAN. M.H. 5-23** (Station 4+25.00 (23.70' LT.))
- STD. SAN. M.H. 5-24** (Station 4+35.59 (24.45' LT.))
- STD. SAN. M.H. 5-25** (Station 4+45.00 (23.70' LT.))

The table below provides the data for these sections:

| Section | Point | Elevation | Dimension |
|---------------------|------------|-----------|-----------|
| STD. SAN. M.H. 5-20 | FIN. ELEV. | 63.55 | |
| | 6" (NW) | 70.36 | |
| | 6" (SE) | 66.11 | |
| | 6" (SW) | 66.26 | |
| STD. SAN. M.H. 5-23 | FIN. ELEV. | 63.58 | |
| | 6" (NW) | 66.11 | |
| | 6" (SE) | 66.11 | |
| | 6" (SW) | 66.26 | |
| STD. SAN. M.H. 5-24 | FIN. ELEV. | 63.46 | |
| | 6" (NW) | 69.48 | |
| | 6" (SE) | 69.48 | |
| | 6" (SW) | 69.48 | |
| STD. SAN. M.H. 5-25 | FIN. ELEV. | 63.46 | |
| | 6" (NW) | 69.48 | |
| | 6" (SE) | 69.48 | |
| | 6" (SW) | 69.48 | |

APPROVED: *Madison C. Williams*
 EXECUTIVE DIRECTOR/HAIR
 DATE: 1/11/17

BEAZER HOMES TEXAS, LP
 BONERBROOK PLANTATION SOUTH
 SECTION 6

OFFSITE SANITARY & WATER LINE A
 STA. 0+0.0 TO 5+00
 OFFSITE SANITARY SEWER B
 STA. 0+0.0 TO 5+00
 OFFSITE
 STA. 0+0.0 TO 5+00

LA 2002 Engineering, Inc.
 2002 Ringwood Drive
 Dallas, Texas 75242
 Phone 713.851.5200
 Fax 713.851.5059
 Email info@la2002.com
 Web www.la2002.com

LA PROJECT NO.: 1402-4113 & 1402-41120
 Revision: Issue 7/242

DATE: 1/11/17

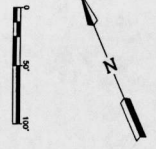
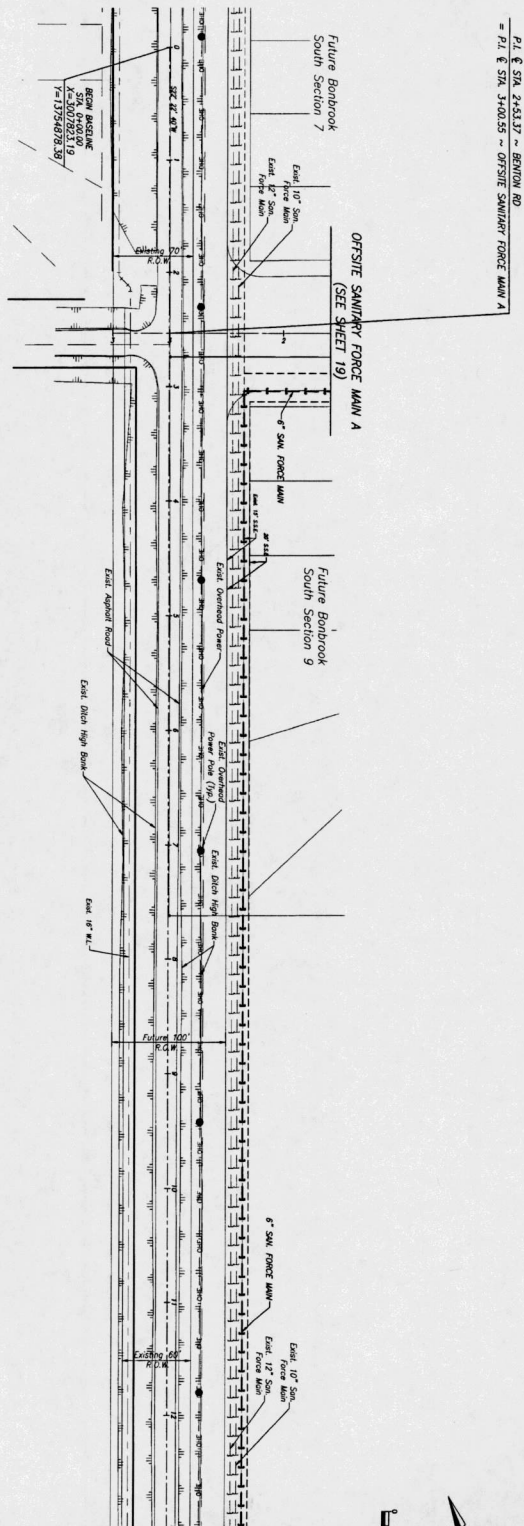
WEEK: 1st = 50
 WENT: 1st = 5

SHEET NO. 19 OF 29

DRWEN: M/A/E/L, G/S/M, M/A/E/L DATE: NOVEMBER, 2017

BONBROOK PLANTATION SOUTH SECTION 6 - 1406-4113 & 1406-4113

P1 & STA 2+53.37 ~ BENTON RD
= P1 & STA 3+00.05 ~ OFFSITE SANITARY FORCE MAIN A

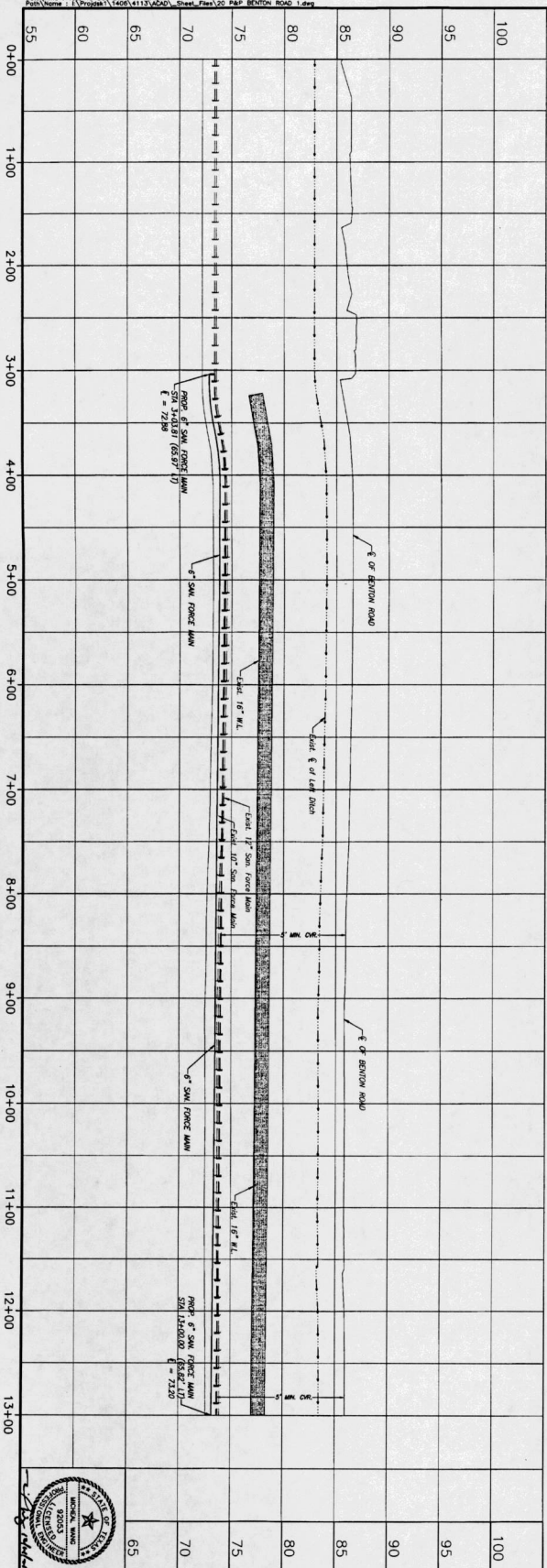
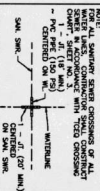


MATCHLINE STA. 13+00
(SEE SHEET NO. 21)

BENTON ROAD (100' R.O.W.)

CONTRACTOR SHALL COORDINATE ALL WORK WITH THE
BENTON ROAD RIGHT-OF-WAY WITH THE FRONT BEND COUNTY
ROAD & BRIDGE DEPT. (14034-4013)

!!! CAUTION !!!
OVERHEAD POWER LINES



APPROVED: *Michael A. Jones*
DATE: 1/11/17

REVIEWED: *Michael A. Jones*
DATE: 1/11/17

FOR BENTON COUNTY ENGINEERING DEPARTMENT

BEZIER HOWES TEXAS, L.P.
BONBROOK PLANTATION SOUTH
SECTION 6

BENTON ROAD
STA. 0+00 TO 13+00

LA Engineering, Inc.
11111 Highway 100
Houston, Texas 77042
Phone: 713.712.1111
Fax: 713.712.1112
Email: info@la-engineering.com

PROJECT NO.: 1406-4113 & 1406-4113D
DRAWN: AB/ELE, JCSH, AB/TE, DATE: NOVEMBER 2016
CHECKED: 1" = 50'
SHEET NO. 20 OF 29

(SEE SHEET NO. 21)
MATCHLINE STA. 26+50

SIA 26+74.90 TO
 STA 26+81.63
 $L=155.47'$
 $R=200.00'$
 $L=6.74'$
 $T=3.37'$

Q CURVE DATA
SIA 27+31.91 TO
SIA 27+35.52
 $L=1'02'07''$
 $R=200.00$
 $L=3.61$
 $T=1.81$

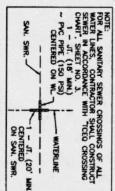
CURVE DATA
 STA 37+08.84 TO
 STA 37+32.13
 $\Delta = 107^{\circ}58'35''$
 $R = 121.59$
 $L = 23.29$
 $T = 11.68$

CURVE DATA
STA 37+49.66 TO
STA 38+42.45
L=2634.39'
R=200.00
L=92.77
T=47.24

!!! CAUTION !!!
OVERHEAD POWER LINES

BENTON ROAD (100' R.O.W.)

CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THE BENTON ROAD RIGHT-OF-WAY WITH THE FORT BEND COUNTY ROAD & BRIDGE DEPT., (281)342-4513.



EXISTING GROUND ROADS DISTURBED BY
CONSTRUCTION OF PROPOSED FORCE MAIN.
NO SEPARATE PAY.

BY _____ DATE _____
REVISION _____

RECORD DRAWING

CONSTRUCTION WAS IN FULL COMPLIANCE WITH
THE CONTRACT DOCUMENTS
BY _____ DATE _____

RECORD DRAWING
I CERTIFY THAT THIS DRAWING REFLECTS THE
IMPROVEMENTS CONSTRUCTED AS TO SIZE,
LOCATION AND GRADE AND THAT THE

SHIRM SEWER CROSSING FUTURE ROADS MUST BE BACKFILLED WITH CEMENT STABILIZED SAND TO TWO (2) FEET BELOW NATURAL GROUND AND IS INCIDENTAL TO CONSTRUCTION COSTS.

4) ALL SANITARY SEWER, WATER LINE, AND UTILITIES, THE CONTRACTOR SHALL SUSPEND CONSTRUCTION IN THE VICINITY OF THE CONFLICT, AND SHALL COMMENCE ONLY UPON AUTHORIZATION BY OWNER.

PROJECT AREA. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL EXISTING UTILITIES AFFECTING PROPOSED UTILITIES PRIOR TO CONSTRUCTION. IN THE EVENT OF CONFLICT BETWEEN EXISTING UTILITIES AND PROPOSED

- 2) THIS CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION
- 3) CAUTION: THERE ARE EXISTING UTILITIES WITHIN THE

FORM PANEL: 46157C0265 L
DATE: APRIL 2, 2014

NOTES:

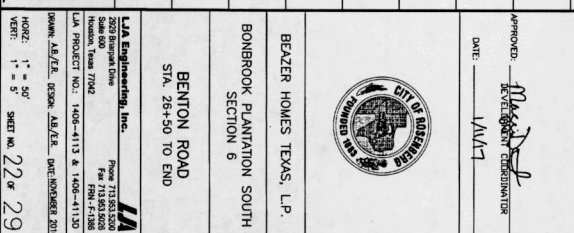
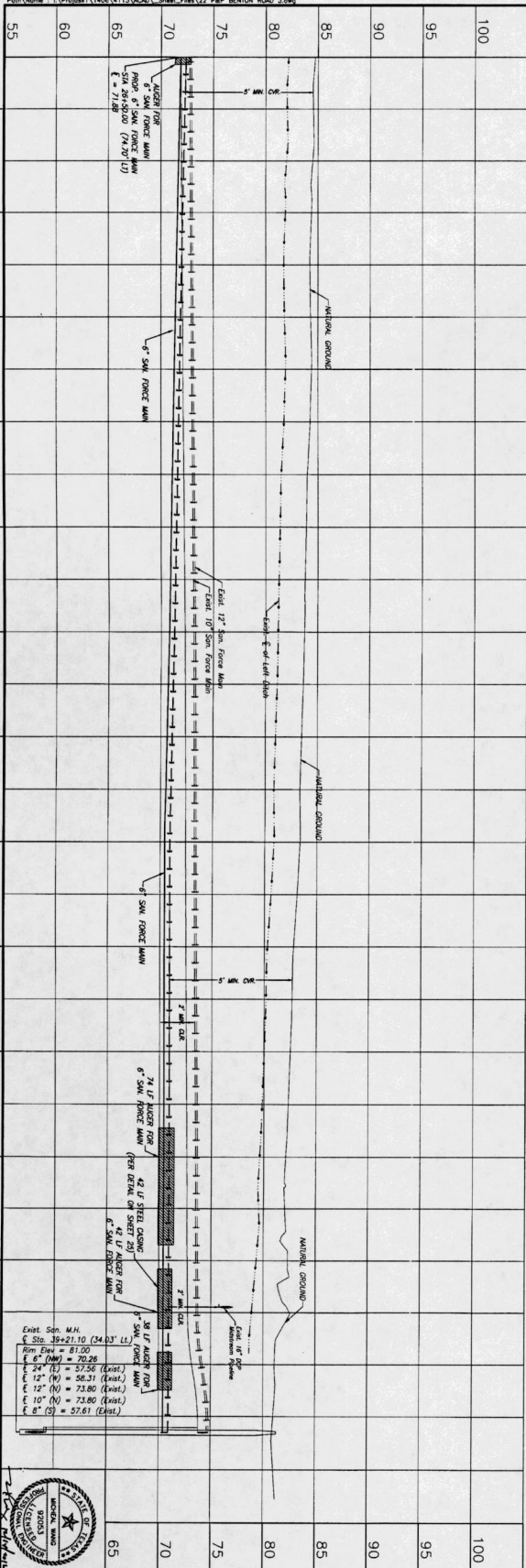
1) ALL UTILITIES ARE PROPOSED UNLESS

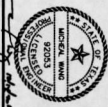
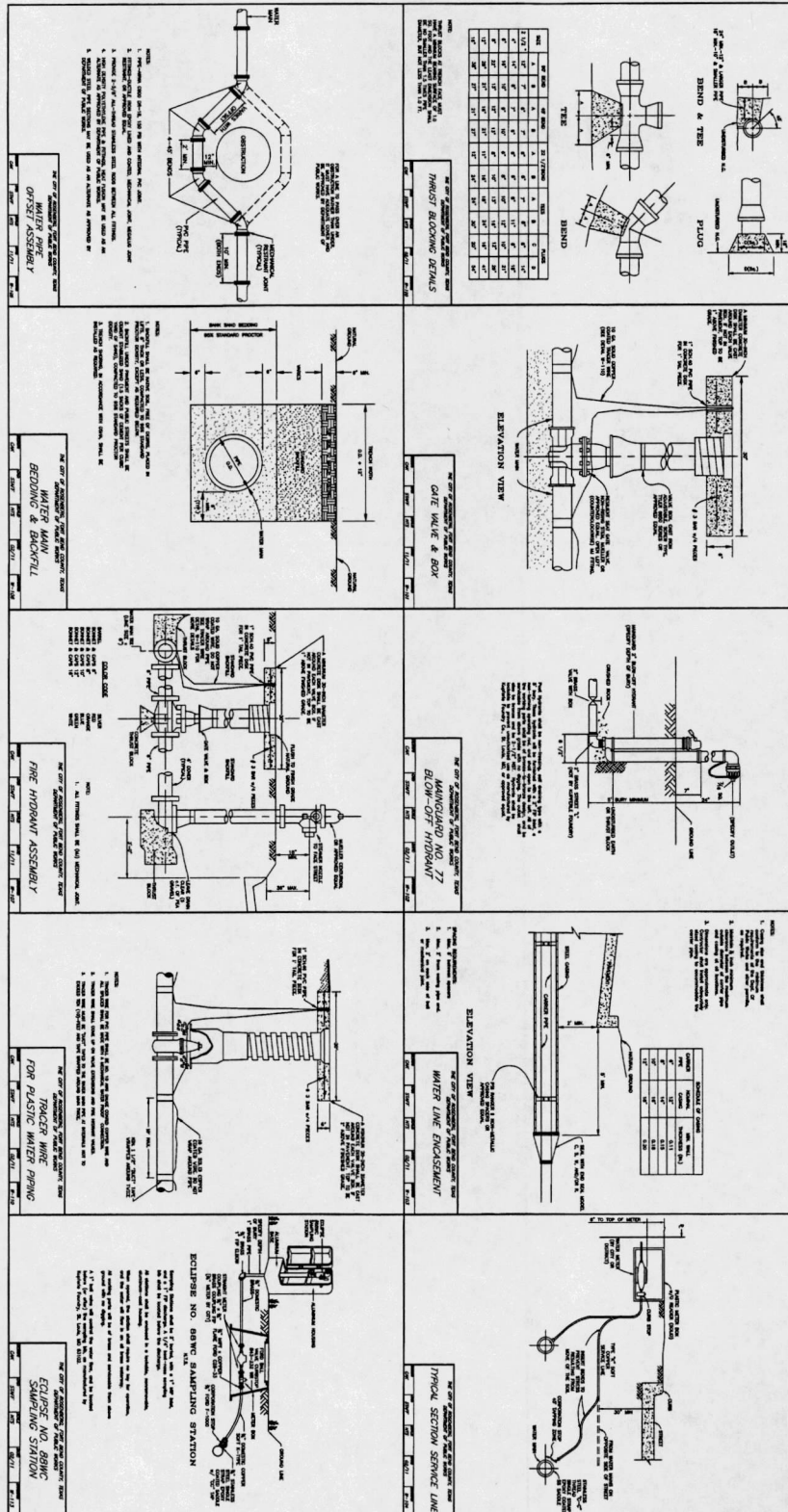
HAND-88(1991 AD.) ELEV = 90.756 FEET
 INTERVAL 100-YR FLOOD ELEV = 79.35
 PER LIA REPORT "MASTER DRAINAGE PLAN FOR BONEBROOK
 PLANTATION DEVELOPMENT" FORT BEND COUNTY MUD 155,
 JAN. 2005

MAAD-06 (1991 AD.) ELEV = 91.09 FEET
TBM (L.A. 1)
A 3'-6" BOREHOLE FROM ROAD WITH CAP SET AT THE INTERSECTION
OF BRIAN ROAD AND SPACKER ROAD, APPROXIMATELY 18.5
FEET NORTH OF THE CENTERLINE OF BRIAN ROAD AND 40.4
FEET WEST OF THE CENTERLINE OF SPACKER ROAD.

THE INTERSECTION OF STATE HIGHWAY 36 AND MEYER ROAD SET IN THE TOP OF A CONCRETE HEADWALL AND 1.7 FEET SOUTH OF THE NORTH END OF THE EAST CONCRETE HEADWALL.

BENCHMARK:
A BRASS DISK STAMPED K-1219, SET IN A CONCRETE
MEMORIAL, LOCATED IN FORT BRIDG COUNTY, 0.15 MILE SOUTHWEST OF THE BRIDGE.





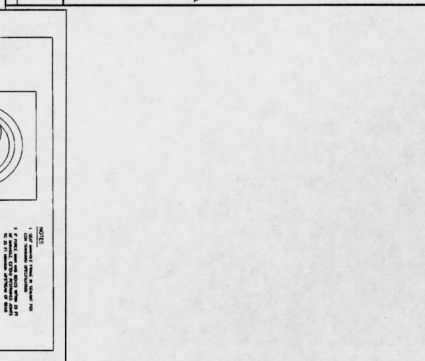
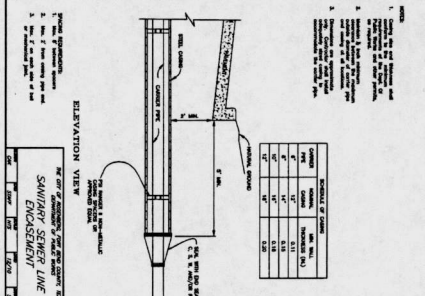
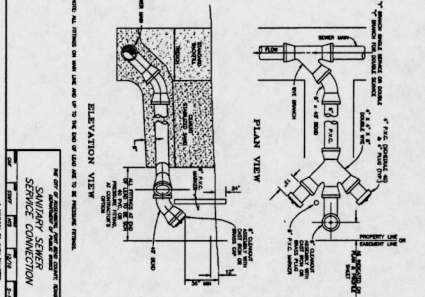
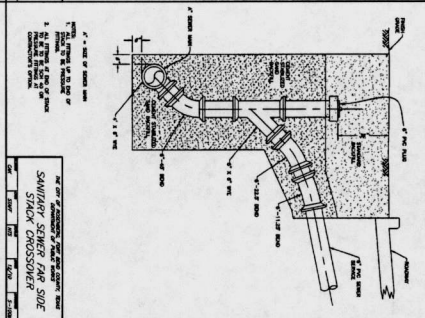
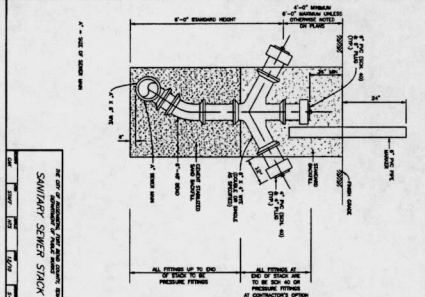
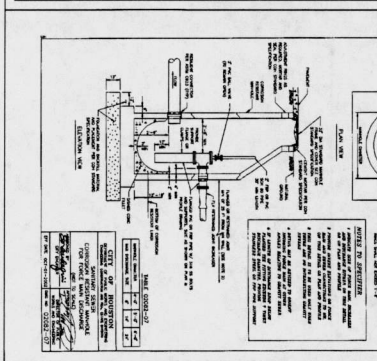
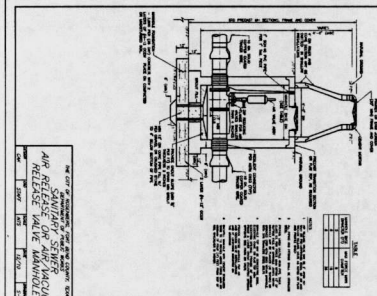
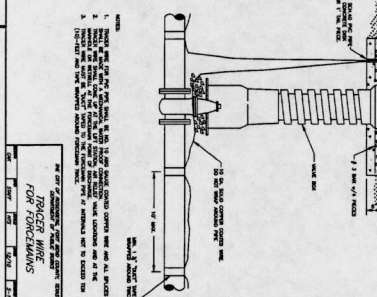
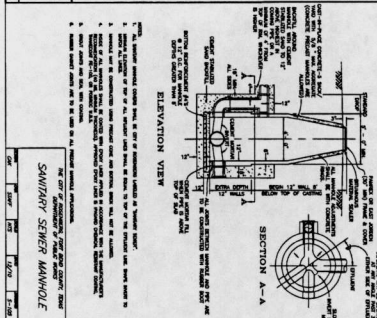
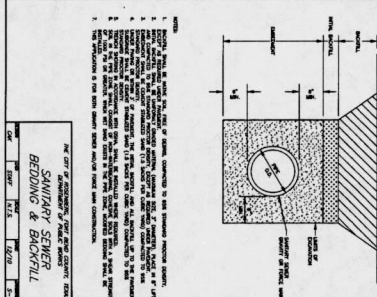
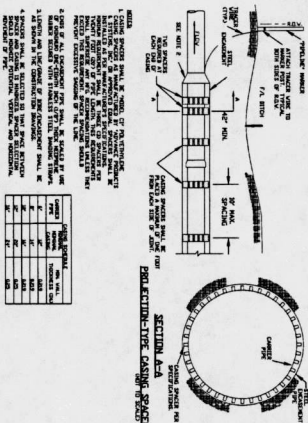
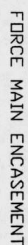
BEAZER HOMES TEXAS, L.P.
 BONBROOK PLANTATION SOUTH
 SECTION 6
 WATER DISTRIBUTION
 CONSTRUCTION DETAILS

L.A. Engineering, Inc.
 2505 Southwest 12th Ave.
 Suite 600
 Fort Lauderdale, FL 33311
 Phone: 754.831.1234
 Fax: 754.831.1235
 Email: info@la-engineering.com
 Website: www.la-engineering.com

DATE: 1/1/17
BY: [Signature]
FOR: BEAZER HOMES TEXAS, L.P.

RECORD DRAWING
 1. THIS DRAWING IS A RECORD DRAWING AND IS NOT TO BE USED FOR CONSTRUCTION.
 2. THE RECORD DRAWING SHALL BE USED TO VERIFY THE LOCATION AND DEPTH OF THE EXISTING UTILITIES.
 3. THE RECORD DRAWING SHALL BE USED TO VERIFY THE LOCATION AND DEPTH OF THE EXISTING UTILITIES.
 4. THE RECORD DRAWING SHALL BE USED TO VERIFY THE LOCATION AND DEPTH OF THE EXISTING UTILITIES.

RECORD DRAWING
 1. THIS DRAWING IS A RECORD DRAWING AND IS NOT TO BE USED FOR CONSTRUCTION.
 2. THE RECORD DRAWING SHALL BE USED TO VERIFY THE LOCATION AND DEPTH OF THE EXISTING UTILITIES.
 3. THE RECORD DRAWING SHALL BE USED TO VERIFY THE LOCATION AND DEPTH OF THE EXISTING UTILITIES.
 4. THE RECORD DRAWING SHALL BE USED TO VERIFY THE LOCATION AND DEPTH OF THE EXISTING UTILITIES.

[illegible]

- 1) ALL UTILITIES ARE PROPOSED UNLESS OTHERWISE NOTED. SHALL FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- 2) **PAVEMENT:** EXISTING UTILITIES WITHIN THE PROJECT AREA, OR EXISTING UTILITIES WITHIN ANY ADJACENT AREAS, SHALL BE PROTECTED. THE EXISTING LOCATION OF ALL EXISTING UTILITIES SHALL BE DETERMINED PRIOR TO CONSTRUCTION. IN THE EVENT OF CONFLICT BETWEEN EXISTING UTILITIES AND PROPOSED CONSTRUCTION, THE UTILITIES SHALL BE RELOCATED TO THE VICINITY OF THE CONSTRUCTION. THE RELOCATION SHALL BE AUTHORIZED BY THE OWNER.
- 3) ALL SANITARY SEWER, WATER LINE, AND GAS LINES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. ALL UTILITIES SHALL BE STABILIZED SAND TO TWO (2) FEET BELOW THE PROPOSED FINISH GRADE. ALL UTILITIES CONSTRUCTION COSTS SHALL BE REIMBURSED.

BY _____ DATE _____

TITLE _____

RECORD DRAWING

CERTIFY THAT THIS DRAWING REFLECTS THE
IMPROVEMENTS CONSTRUCTED AS TO SIZE

[illegible]

APPROVED: M. J. [Signature]
DEVELOPMENT COORDINATOR

DATE: 11/17



BEAZER HOMES TEXAS, L.P.
BONBROOK PLANTATION SOUTH
SECTION 6

SANITARY SEWER CONSTRUCTION DETAILS

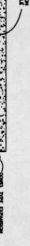
LJA Engineering, Inc.
 2029 Burgepark Drive
 Suite 600
 Houston, Texas 77042
 Phone 713.953.5200
 Fax 713.953.5205
 FRI: 7-1386



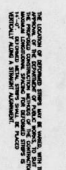
| | | | |
|-------|-------|------|------|
| DATE | TIME | NAME | ROOM |
| 04/10 | 11:00 | STAN | 101 |



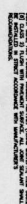
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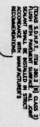
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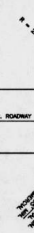
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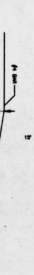
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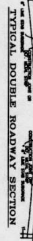
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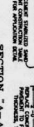
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| START | END | BY | APPROVED |
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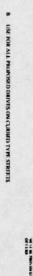
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| 04/ | 5:47 | 175 | | |



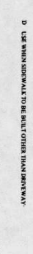
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| CMR | STAT | NIS | 03/12 |
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CONSTRUCTION TABLE

| | | | | | |
|------|-------|-----|-------|------|-------|
| DATE | START | END | 12/10 | PAGE | P-112 |
|------|-------|-----|-------|------|-------|



FORT BEND COUNTY ENGINEERING DEPARTMENT



FORT BEND COUNTY ENGINEERING DEPARTMENT

BENCHMARK

THE ROAD AND WITH CURB AT THE INTERSECTION
OF STATE HIGHWAY 28 AND BRAN ROAD. THE
ELEVATION OF THE TOP OF THE CONCRETE
CURB ON THE NORTH SIDE OF THE ROAD IS
90.76 FEET. THE ELEVATION OF THE TOP OF THE
CONCRETE CURB ON THE SOUTH SIDE OF THE
ROAD IS 90.76 FEET. THE ELEVATION OF THE
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CONCRETE CURB ON THE EAST SIDE OF THE
ROAD IS 90.76 FEET. THE ELEVATION OF
THE TOP OF THE CONCRETE CURB ON THE
WEST SIDE OF THE ROAD IS 90.76 FEET.

DATE: APRIL 2, 2014

NOTES:

DRAWN BY: 4415T00303 L

- 1) ALL UTILITIES ARE PROPOSED UNLESS
- 2) THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION
- 3) THERE ARE EXISTING UTILITIES WITHIN THE FIELD OF THE PROPOSED CONSTRUCTION, THE FIELD LOCATION OF ALL EXISTING UTILITIES SHALL BE IDENTIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION.
- 4) ALL SANITARY SEWER, WATER LINE, AND GAS LINES SHALL BE IDENTIFIED AND PROTECTED PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES.

RECORD DRAWING

I HEREBY CERTIFY THAT THE DRAWING REPRESENTS THE FIELD LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. I AM IN FULL COMPLIANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS AND BRIDGES, 2003 EDITION, SECTION 100.01, SUBSECTION 100.01.1.

DATE _____

[illegible]

APPROVED: M. J. [Signature]
DEVELOPMENT COORDINATOR

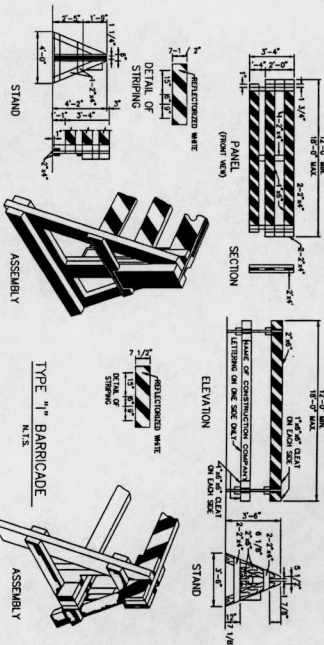
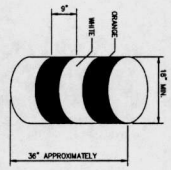
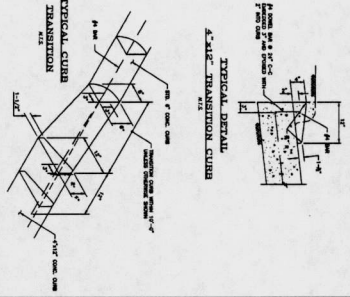
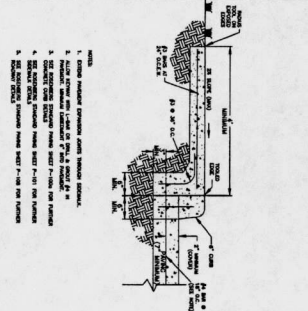
DATE: 1/11/77

BEAZER HOMES, TEXAS, L.P.
BONBROOK PLANTATION SOUTH
SECTION 6

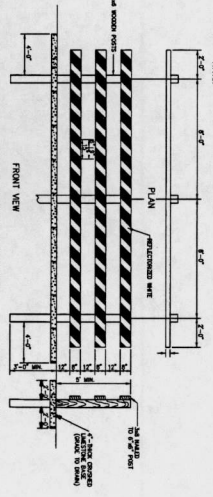
**PAVING CONSTRUCTION
DETAILS**

LDA Engineering, Inc.
2020 Briarpark Drive
Suite 600
Phon 713.951.5200
Fax 713.951.5028

Houston, Texas 77042 FRN - F-1385
LJA PROJECT NO.: 1406-4113 & 1406-4113 SD
Reprint: A/E / E. DESIGN A/B / E. DATE: NOVEMBER 20
SCALE: NONE SHEET NO. 26 of 29

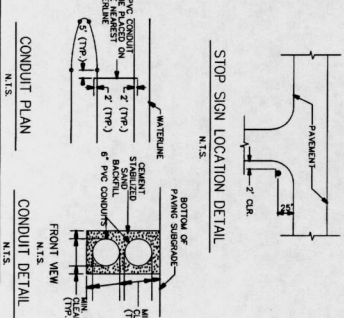


TYPE "III" DEMOUNTABLE BARRICADE
MIS



TYPE "III" BARRICADE

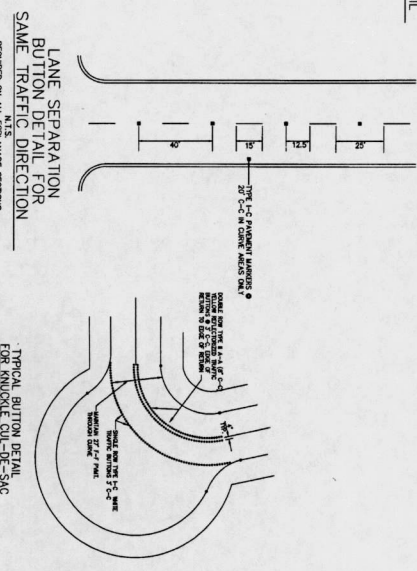
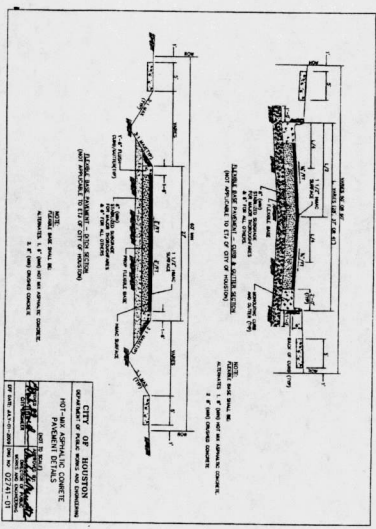
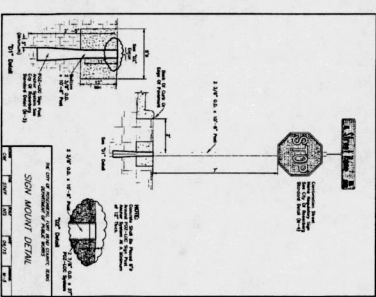
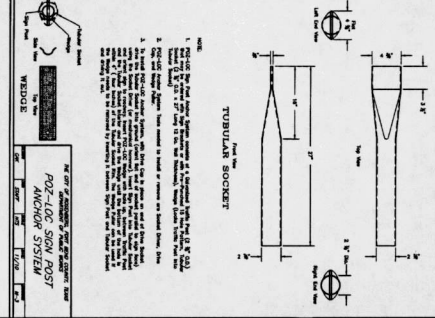
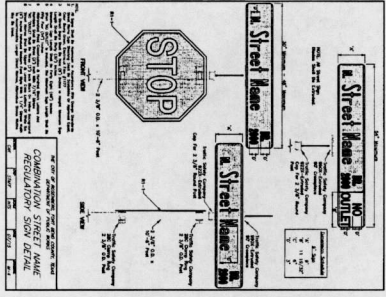
GENERAL NOTES FOR BARRICADES

[illegible]

CONDUIT PLAN
N.T.S.

CONDUIT DETAIL

N.T.S.



LANE SEPARATION
BUTTON DETAIL FOR
SAME TRAFFIC DIRECTION

TYPICAL BUTTON DETAIL
FOR KNUCKLE CUL-DE-SAC



BEAZER HOMES TEXAS, L.P.
BONBROOK PLANTATION SOUTH
SECTION 6

PAVING AND MISCELLANEOUS DETAILS

LL
JJA Engineering, Inc.
229 Bluffport Drive
Box 600
Bluffport, Texas 77602
Phone 713 953 5252
Fax 713 953 5557
FRI - F 1300
A PROJECT NO.: 1408-4113 & 1408-4113.3
DATE: NOVEMBER 21, 1994
DESIGN: A/B/E/R
DRAWING: A/B/E/R
SCALE: NONE
SHEET NO. 27 of 28

[illegible]

- 1) ALL UTILITIES ARE PROPOSED UNLESS OTHERWISE NOTED.
- 2) THIS CONSTRUCTION SHALL FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION
- 3) EXISTING UTILITIES PRIOR TO CONSTRUCTION
- 4) EXISTING UTILITIES WITHIN THE PROJECT AREA. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE DATES OF CONTACT BETWEEN EXISTING UTILITIES AND PROPOSED UTILITIES, THE CONTRACTOR SHALL SURVEY COMPLETLY, AND SHALL COMMENCE ONLY UPON AUTHORIZATION BY OWNER.
- 5) ALL EXISTING SEWER MAINS, WATER LINES AND GAS LINES SHALL BE FIELD VERIFIED AND DOCUMENTED. ANY EXISTING UTILITY SHALL BE SHUT DOWN TO TWO (2) FEET BELOW GRADE AND SHALL BE INDICATED IN THE CONSTRUCTION DETAILS.

TITLE _____
 BY _____ DATE _____
 I CERTIFY THAT THIS DRAWING REFLECTS THE
 IMPROVEMENTS CONSTRUCTED AS TO SIZE,
 LOCATION AND GRADE AND THAT THE
 CONSTRUCTION WAS IN FULL COMPLIANCE WITH
 THE CONTRACT DOCUMENTS

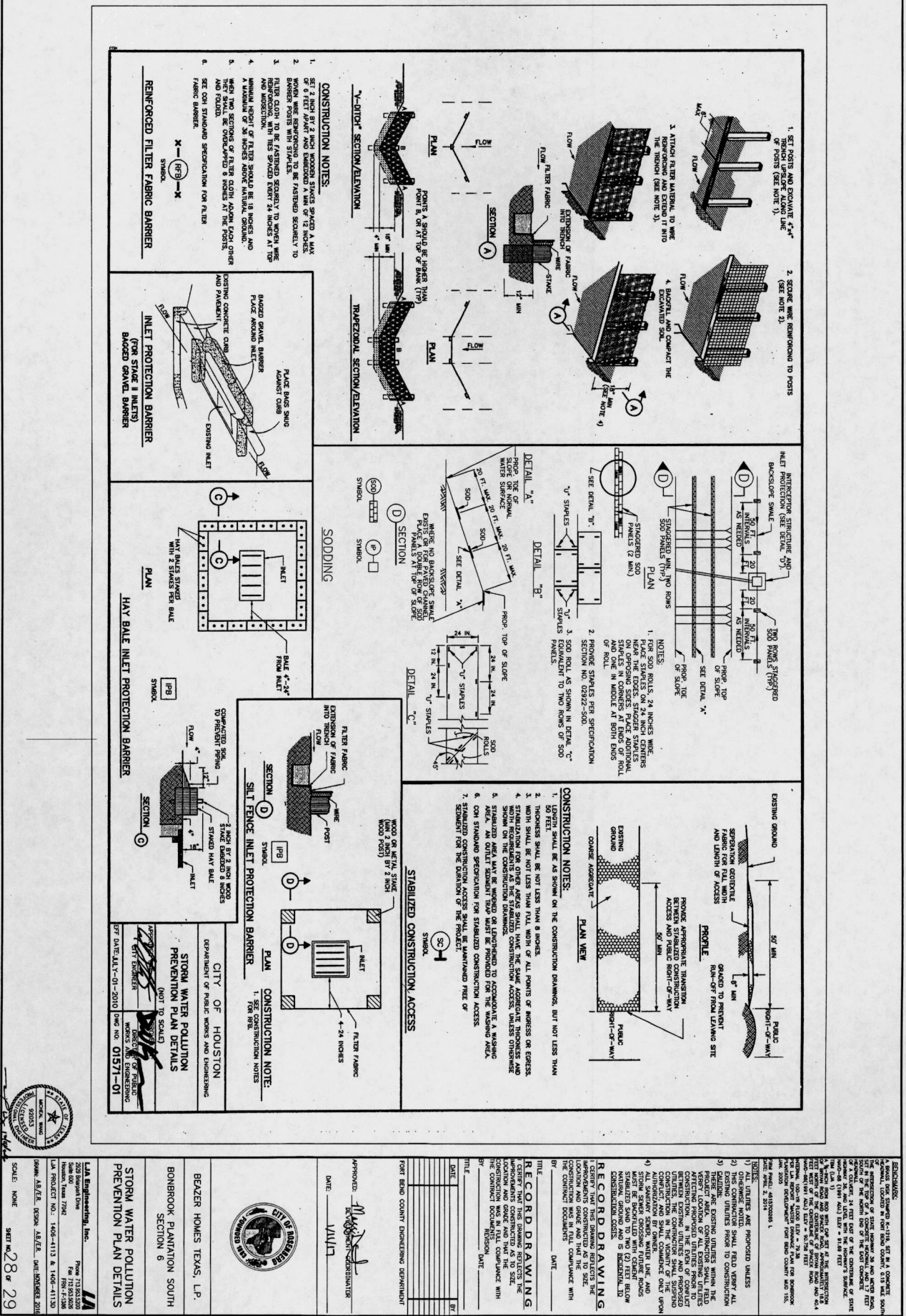
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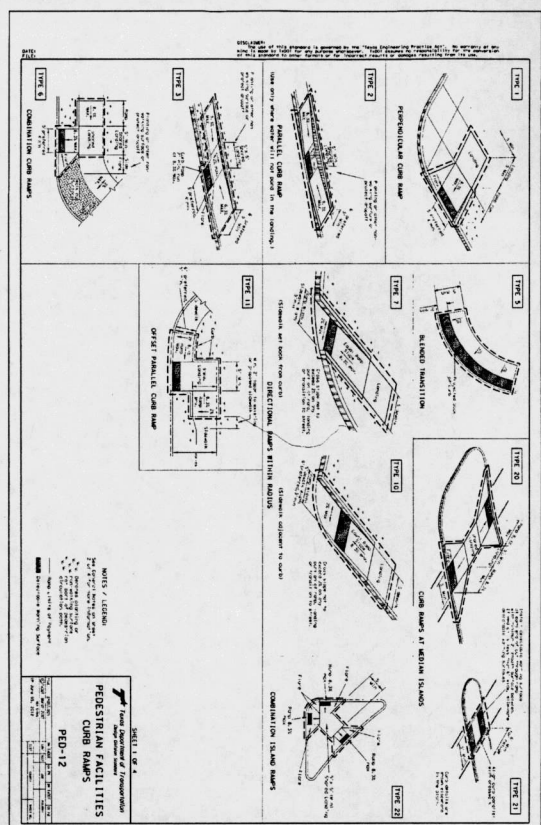
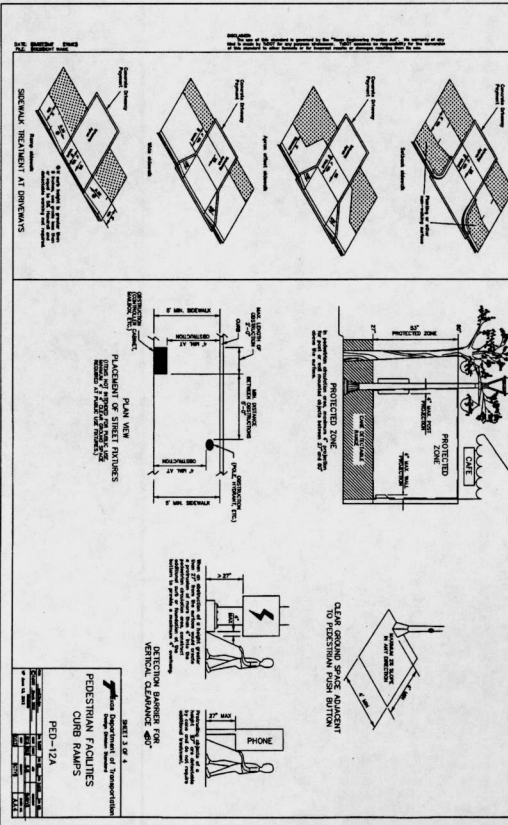
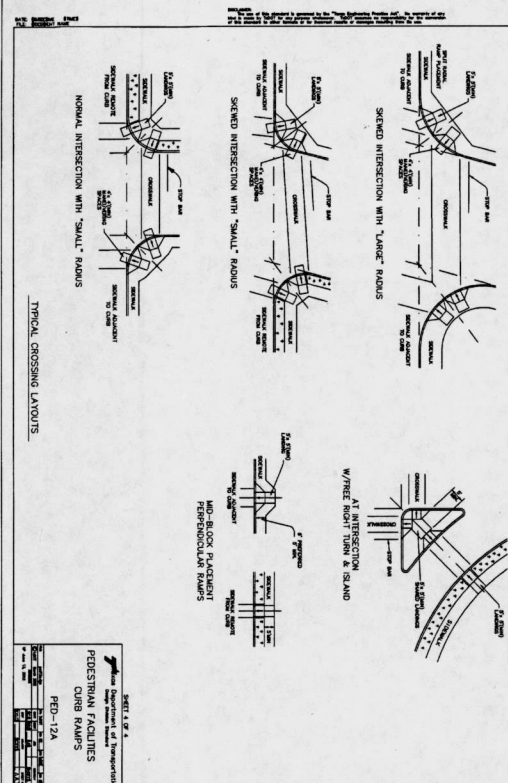
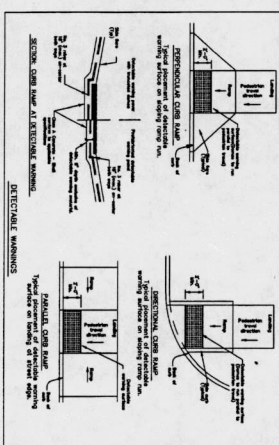
APPROVED: M. J. [Signature]
DEVELOPMENT COORDINATOR

DATE: 1/11/17



SCALE: NONE
DATE: NOVEMBER 2016
SHEET NO. 27 of 29



[illegible]

1. The first step in the process is to identify the problem. This involves gathering information about the situation and the people involved.

2. The second step is to analyze the problem. This involves breaking the problem down into its components and identifying the underlying causes.

3. The third step is to develop a plan. This involves determining the steps that need to be taken to solve the problem.

4. The fourth step is to implement the plan. This involves putting the plan into action and monitoring progress.

5. The fifth step is to evaluate the results. This involves assessing the effectiveness of the solution and making adjustments as needed.

[illegible]

BEAZER HOMES TEXAS, L.P.
HONBROOK PLANTATION SOUTH
SECTION 6
TXDOT PEDESTRIAN
FACILITIES PED-12A

LA Engineering, Inc.
2629 Briarpark Drive
Suite 600
Houston, Texas 77042
Phone 713.953.5200
Fax 713.953.5026
FRI- F-1386

LA PROJECT NO.: 1406-4113 & 1406-4113D

DRAWN: AB/ER DESIGNED: AB/ER DATE: NOVEMBER 2016