

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: 2017-15143

Applicant: Precise Services, Inc./LJA Engineering, Inc.

Job Location Site: Sienna Parkway, Missouri City, TX 77459

Bond No. *****4780 **Date of Bond:** 7/21/2017 **Amount:** \$78,423.13

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 1st day of August, 2017, Upon Motion of Commissioner _____, seconded by Commissioner _____, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

Signature

Presented to Commissioners Court and approved.

By: *Charles O. Ay*

Date Recorded _____ Comm. Court No. _____

fa

County Engineer

Clerk of Commissioners Court

N/A

By: _____

By: _____

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@fortbendcountytx.gov

☐

Right of Way Permit

☒

Commercial Driveway Permit

Permit No: 2017-15143

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: _____

Amount: _____

☒

Performance bond submitted.

Bond No: *****4780

Amount: \$78,423.13

☐

Cashier's Check

Check No: _____

Amount: _____

(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):

Drainage District Approval

Date

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

Charles O. Ay

Permit Administrator

7/25/17

Date

CONSTRUCTION PLANS FOR SIENNA PARKWAY SOUTHBOUND LEFT TURN LANES AT SCANLAN TRACE EAST TO SERVE SIENNA PLANTATION MUNICIPAL UTILITY DISTRICT No.5 CITY OF MISSOURI CITY, FORT BEND COUNTY, TEXAS

JOB NO. 1415-1551

DATE: June 2017
TCEQ PWS ID # 0790490

SPMUD 5

NOTES

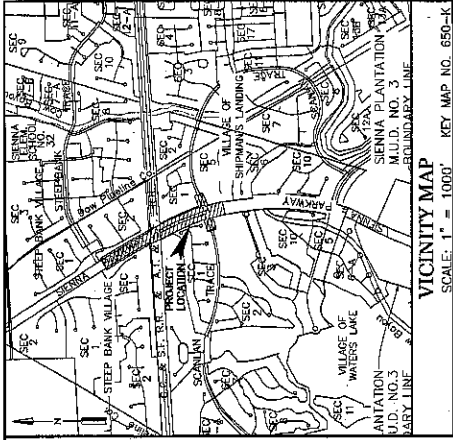
- THESE PLANS AND SPECIFICATIONS SHALL BE USED IN CONJUNCTION WITH THE CITY OF MISSOURI CITY STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION, LATEST EDITION, AND THE CITY OF MISSOURI CITY STANDARD SPECIFICATIONS FOR UTILITIES CONSTRUCTION, LATEST EDITION.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF MISSOURI CITY STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION, LATEST EDITION, AND THE CITY OF MISSOURI CITY STANDARD SPECIFICATIONS FOR UTILITIES CONSTRUCTION, LATEST EDITION.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION:

NOTES CONT.

- THESE PLANS AND SPECIFICATIONS SHALL BE USED IN CONJUNCTION WITH THE CITY OF MISSOURI CITY STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION, LATEST EDITION, AND THE CITY OF MISSOURI CITY STANDARD SPECIFICATIONS FOR UTILITIES CONSTRUCTION, LATEST EDITION.
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- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION:

- CONTRACTOR SHALL CONTACT THE FOLLOWING UTILITIES COMPANIES TO VERIFY THE LOCATION OF THEIR UTILITIES AND ADVISE PRIOR TO COMMENCEMENT OF CONSTRUCTION:
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VICINITY MAP
SCALE: 1" = 1000'
KEY MAP NO. 650-K

SHEET INDEX

- COVER SHEET
- GENERAL CONSTRUCTION NOTES - MC-1-1-15
- GENERAL CONSTRUCTION NOTES - MC-2-1-15
- FALSE GENERAL CONSTRUCTION NOTES & DETAILS
- PROPOSED PAVEMENT IMPROVEMENTS
- PAVEMENT MARKINGS AND POLLUTION PREVENTION PLAN
- TEMPORARY TRAFFIC CONTROL PLAN
- TRAFFIC SIGNAL MODIFICATION PLAN
- CONCRETE PAVEMENT CONSTRUCTION DETAILS - MC-17-15
- RESIDENTIAL CURB CONSTRUCTION DETAILS - MC-18-15
- ASPHALT PAVEMENT CONSTRUCTION AND INTERSECTION DETAILS - MC-19-15
- PAVEMENT MARKING DETAILS - MC-24-15
- SIGN CONSTRUCTION DETAILS - MC-25-15
- TRAFFIC PEDESTRIAN FACILITIES DETAILS (PED-12A)
- EROSION CONTROL DETAILS
- MISCELLANEOUS DETAILS

- TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK
- BARBERIDGE AND CONSTRUCTION STANDARD - MC(1), MC(2), MC(3), MC(4)
- BARBERIDGE AND CONSTRUCTION STANDARD - MC(5), MC(6), MC(7), MC(8), MC(9), MC(10), MC(11), MC(12)
- TYPICAL STANDARD PAVEMENT MARKINGS LANE DROP (EXT. ONLY)
- EXT. RAMP - FM(3)-12
- PAVEMENT MARKINGS (MODS, ARROWS & SYMBOLS)
- FM(3)-07

FOR FORT BEND COUNTY ENGINEERING DEPARTMENT

ENGINEER: ALD. STE. B. P.E.
DATE: 7/23/17

THESE SPECIFICATIONS ARE FOR USE IF CONSTRUCTION HAS BEEN COMPLETED IN (1) YEAR FROM DATE OF APPROVAL.

APPROVED: [Signature]
DATE: 7-24-17



APPROVED: [Signature] DATE: 7/21/2017

APPROVAL VOID IF NO PROGRESS HAS BEEN MADE - CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETION WITHIN TWO YEARS FROM DATE OF SIGNATURE.

ENGINEER:

LJA Engineering, Inc.

1904 W. Grand Parkway North
Suite 100
Katy, Texas 77449



APPROVED FOR CONSTRUCTION

BY: _____ DATE: _____

OWNER: Toll-GTIS Property Owner LLC



Phone 713.963.9200
Fax 713.963.9208
PWS-1551

SHEET 1 OF 22

[illegible][illegible]

NOT HOT ASPHALTIC BASE MAY BE INSTALLED UNTIL THE SUBGRADE HAS BEEN PROPERLY PREPARED AND THE SURFACE DRY. ALL MATERIALS SHALL BE COMPACTED TO THE REQUIRED DENSITY BEFORE ANY ADDITIONAL LAYERS ARE INSTALLED.

NOT HOT ASPHALTIC BASE, MATRITIAL, MASHING, AND REPLICATION SHALL COMPLY WITH THE SPECIFICATIONS OF THE MINISTY OF TRANSPORTATION, STREETS, AND DRINKS 907 (SECTION 02011) AND ITS LATEST REVISIONS.

NOT HOT ASPHALTIC MATERIALS SHALL BE AT TEMPERATURES BETWEEN 250°F AND 325°F.

NOT HOT ASPHALTIC MATERIALS MUST BE PLACED IN THE AMBIENT TEMPERATURE IS BELOW 50°F AND PAVING. MATERIALS MAY BE INSTALLED IF THE AMBIENT TEMPERATURE IS NOT IN THE SHADE AND IS 40°F AND FINEER.

[illegible][illegible]

CONTRACTOR SHALL VERIFY LINES AND GRADES AND THAT COMPACTED SOIL IS READY TO SUPPORT LOADS. CONTRACTOR SHALL BE LEFT AND THOROUGHLY CLEAN OF LOOSE MATERIAL PRIOR TO APPLICATION OF SURF. SURF SHALL BE DESTROYED DRYLY AND SMOOTHLY UNDER PRESSURE NECESSARY FOR PROPER DISTRIBUTION. MAINTAIN REQUIRED SURFACE CONDITIONS UNTIL ACCEPTED BY CITY OF MEDFORD CITY ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND REPAIR AND RECONSTRUCTION OF UTILITIES, STREETS, AND ROADS (1983) AND ITS LATER REVISIONS. TUCK COAT SHALL BE 50-1 AND SHALL COMPLY TO DODG, S.E.C.H.S. & M. (1983) AND ITS LATEST EDITIONS.

EPH-1 MEDIUM WATER DILUTION IS 3 PARTS WATER TO ONE PART EPH-1.
SS-1 TACK COAT SHALL BE APPLIED AT A RATE NOT TO EXCEED OAS GAL. PER SQUARE YARD OF
TACK AREA. CONTACT JOINTS, CURBS, ETC. SHALL BE PAINTED WITH AN EVEN THIN COAT APPLIED
BY BRUSH OR BROOM. COATING MATERIAL SHALL BE HEATED TO 125°F WHEN APPLIED. TACK
COAT MAY BE APPLIED WHEN AMBIENT TEMPERATURES ARE 40°F AND RISING. TACK COAT MAY NOT BE

(NOTICE: CUSTAK ASPHALTS MAY NOT BE USED DURING THE PERIOD OF APRIL 16 THROUGH SEPT. 19
AS PER UTBAC B-244).

[illegible]

BRILLIUM SHALL BE COMPACTED $2\frac{1}{2}$ " THICK SIDE
BY SIDE TESTS SHALL BE CONDUCTED EVERY 10' ON ALTERNATING LAYERS OF TRAFFIC ON
EVERY 20' ON SINGLE LANES OR REQUIRED. AT LEAST ONE TEST SHALL BE
CONDUCTED ON EACH LANEWAY OR CUL-DE-SAC.
C. WHEN THE SURFACE FALLS TO MEET DENSITY REQUIREMENTS OR SHOULD IT LOSE THE
TOOFT SHAPABLE QUALITY, REWORKING A SECTION, WHICH MAY REQUIRE AN ADDITIONAL
LAYER OF THE SPECIFIED LIME AMOUNT.

5. NO SURVEYING SHALL BE CONDUCTED ON ANY MATERIALS UNLESS APPROVED BY THE CITY ENGINEER. SURVEYING OF THE CITY OF MISSISSAUGA SHALL BE CONDUCTED BY THE CITY ENGINEER. SURVEYING OF THE CITY OF MISSISSAUGA CITY AND LANE DEPTH TESTS HAVE BEEN COMPLETED. LANE DEPTH TESTS SHALL BE CONDUCTED AT EVERY 150 LF OF ROADWAY ON ALTERNATING LANES OF EVERY 300 LF OF SINGLE LANE. AT LEAST ONE TEST SHALL BE CONDUCTED ON EACH ROADWAY AND/OR CUL-DE-SAC.

CONTRACT NO. _____ DATE _____

[illegible]

STATE OF TEXAS
COUNTY OF DALLAS
CITY OF DALLAS

OWNER: HARRIS, INC.	CONSTRUCTION PLANS FOR:	SIENNA PLANTATION MUNICIPAL UTILITY DISTRICT I E.O. P.W.S. No. 07904/4	SIENNA PARKWAY SOUTHBOROUGH LEFT TURN LANES AT SCANLAN TRACE EAST	MC-1--
NOTED				

SIDEWALKS & DRIVEWAYS ON CURB TYPE STREETS RESIDENTIAL AREA

DESIGNED BY: L. BROWN
DATE: 11-11-10
APPROVED BY: L. BROWN
DATE: 11-11-10

FBC-0108

FORT BEND COUNTY ENGINEERING DEPARTMENT

GENERAL NOTES:

- USE WHEN SIDEWALKS TO BE BUILT OTHER THAN DRIVEWAYS.
- USE WHEN SIDEWALKS TO BE BUILT OTHER THAN DRIVEWAYS.
- USE WHEN SIDEWALKS TO BE BUILT OTHER THAN DRIVEWAYS.
- USE WHEN SIDEWALKS TO BE BUILT OTHER THAN DRIVEWAYS.

SECTION 1: SIDEWALK

SECTION 2: DRIVEWAY

TYPICAL CONSTRUCTION JOINT

DESIGNED BY: L. BROWN
DATE: 11-11-10
APPROVED BY: L. BROWN
DATE: 11-11-10

FBC-005

FORT BEND COUNTY ENGINEERING DEPARTMENT

GENERAL NOTES:

- USE FOR ALL PAVED DRIVEWAYS AND SIDEWALKS.
- USE FOR ALL PAVED DRIVEWAYS AND SIDEWALKS.
- USE FOR ALL PAVED DRIVEWAYS AND SIDEWALKS.
- USE FOR ALL PAVED DRIVEWAYS AND SIDEWALKS.

SECTION 1: DRIVEWAY

SECTION 2: SIDEWALK

CONSTRUCTION JOINT

DESIGNED BY: L. BROWN
DATE: 11-11-10
APPROVED BY: L. BROWN
DATE: 11-11-10

FBC-006

FORT BEND COUNTY ENGINEERING DEPARTMENT

GENERAL NOTES:

- USE FOR ALL PAVED DRIVEWAYS AND SIDEWALKS.
- USE FOR ALL PAVED DRIVEWAYS AND SIDEWALKS.
- USE FOR ALL PAVED DRIVEWAYS AND SIDEWALKS.
- USE FOR ALL PAVED DRIVEWAYS AND SIDEWALKS.

SECTION 1: DRIVEWAY

SECTION 2: SIDEWALK

CLEANING & SEALING PAVEMENT JOINTS EXISTING CONCRETE

DESIGNED BY: L. BROWN
DATE: 11-11-10
APPROVED BY: L. BROWN
DATE: 11-11-10

FBC-005A

FORT BEND COUNTY ENGINEERING DEPARTMENT

GENERAL NOTES:

- USE FOR ALL PAVED DRIVEWAYS AND SIDEWALKS.
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- USE FOR ALL PAVED DRIVEWAYS AND SIDEWALKS.

SECTION 1: DRIVEWAY

SECTION 2: SIDEWALK

CONSTRUCTION JOINT SEAL

DESIGNED BY: L. BROWN
DATE: 11-11-10
APPROVED BY: L. BROWN
DATE: 11-11-10

FBC-005

FORT BEND COUNTY ENGINEERING DEPARTMENT

GENERAL NOTES:

- USE FOR ALL PAVED DRIVEWAYS AND SIDEWALKS.
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- USE FOR ALL PAVED DRIVEWAYS AND SIDEWALKS.

SECTION 1: DRIVEWAY

SECTION 2: SIDEWALK

EXPANSION JOINT

DESIGNED BY: L. BROWN
DATE: 11-11-10
APPROVED BY: L. BROWN
DATE: 11-11-10

FBC-006

FORT BEND COUNTY ENGINEERING DEPARTMENT

GENERAL NOTES:

- USE FOR ALL PAVED DRIVEWAYS AND SIDEWALKS.
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- USE FOR ALL PAVED DRIVEWAYS AND SIDEWALKS.

SECTION 1: DRIVEWAY

SECTION 2: SIDEWALK

PAVING RECORD DRAWING

DESIGNED BY: L. BROWN
DATE: 11-11-10
APPROVED BY: L. BROWN
DATE: 11-11-10

FBC-006

FORT BEND COUNTY ENGINEERING DEPARTMENT

GENERAL NOTES:

- USE FOR ALL PAVED DRIVEWAYS AND SIDEWALKS.
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- USE FOR ALL PAVED DRIVEWAYS AND SIDEWALKS.

SECTION 1: DRIVEWAY

SECTION 2: SIDEWALK

MISSOURI CITY

DEPARTMENT OF PUBLIC WORKS

SHARON E. KUMAR, P.E., CITY ENGINEER

CONSTRUCTION PLANS FOR

SENA PLANTATION

MUNICIPAL UTILITY DISTRICT NO. 5

T.C.E.O. P.W.S. NO. 0790490

LEFT TURN LANES AT

SENA PARKWAY SOUTHBOUND

SCANLAN TRACE EAST

DATE: 11-11-10

SHEET 4 OF 22

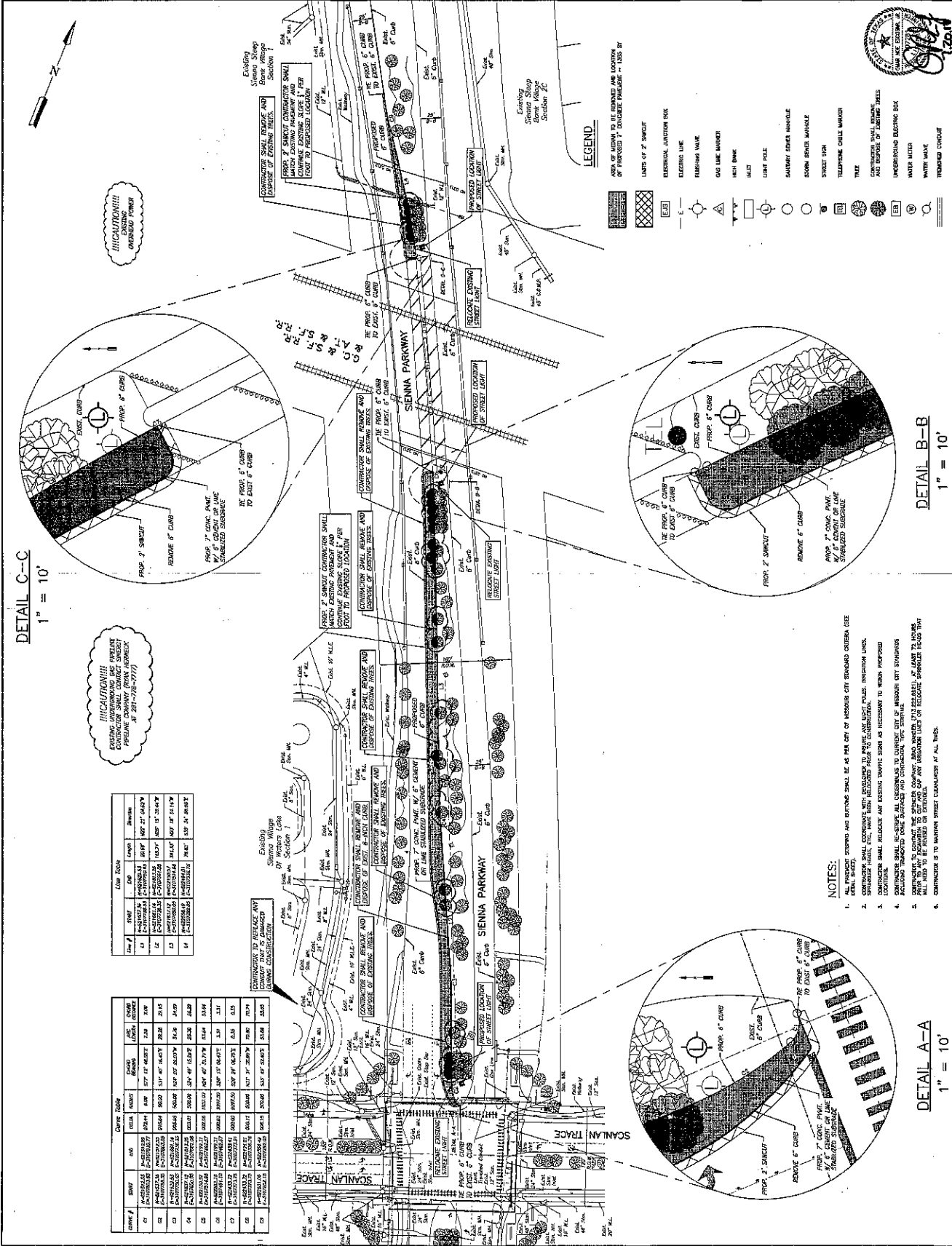
NOTES:
1. 1/2" SLOPE SHALL BE MAINTAINED IN ALL PAVED AREAS.
2. ALL PAVING SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE MISSOURI DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS.
3. ALL MATERIALS SHALL BE OF THE BEST QUALITY AVAILABLE.
4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE MISSOURI DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS.
5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE MISSOURI DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS.

PAVING RECORD DRAWING
1. THE DRAWING IS A PAVING RECORD DRAWING FOR THE PROJECT DESCRIBED ABOVE.
2. THE DRAWING IS A PAVING RECORD DRAWING FOR THE PROJECT DESCRIBED ABOVE.
3. THE DRAWING IS A PAVING RECORD DRAWING FOR THE PROJECT DESCRIBED ABOVE.
4. THE DRAWING IS A PAVING RECORD DRAWING FOR THE PROJECT DESCRIBED ABOVE.
5. THE DRAWING IS A PAVING RECORD DRAWING FOR THE PROJECT DESCRIBED ABOVE.

DATE: 12/14/17
BY: [Signature]
FOR: MISSOURI COUNTY ENGINEERING DEPARTMENT

MISSOURI CITY
DEPARTMENT OF PUBLIC WORKS
SIENNA PARKWAY SOUTHQUO
LEFT TURN LANES AT
SCANLAN TRACE EAST
PROPOSED PAVEMENT
IMPROVEMENTS

L.A. Engineering, Inc.
1001 W. Grand Parkway, Suite 100
Houston, Texas 77057
L.A. PROJECT NO. 1415-1551
SHEET NO. 5 OF 22



NOTES:

1. CONSTRUCTION SHALL MAINTAIN EXISTING AND PROPOSED TRAVEL LANE WIDTHS OF 12' FOR ALL TRAVEL LANE WIDTHS.

2. EXISTING SIENNA PARKWAY SHALL BE MAINTAINED AS A 35 MPH ROAD WITH A 35 MPH SPEED LIMIT. EXISTING SIENNA PARKWAY SHALL BE MAINTAINED AS A 30 MPH ROAD WITH A 30 MPH SPEED LIMIT.

3. EXISTING SCANLAN TRACE SHALL BE MAINTAINED AS A 30 MPH ROAD WITH A 30 MPH SPEED LIMIT.

4. ALL THE VARIOUS ROADWAY IMPROVEMENTS SHALL BE MAINTAINED IN ACCORDANCE WITH THE CITY OF ATLANTA'S STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION.

5. ALL THE VARIOUS ROADWAY IMPROVEMENTS SHALL BE MAINTAINED IN ACCORDANCE WITH THE CITY OF ATLANTA'S STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION.

PAVING RECORD DRAWING

ALL PAVING RECORD DRAWINGS SHALL BE SUBMITTED TO THE CITY OF ATLANTA FOR REVIEW AND APPROVAL. ALL PAVING RECORD DRAWINGS SHALL BE SUBMITTED TO THE CITY OF ATLANTA FOR REVIEW AND APPROVAL.

DATE: _____

REVISION: _____

BY: _____

MISSOURI CITY

DEPARTMENT OF PUBLIC WORKS

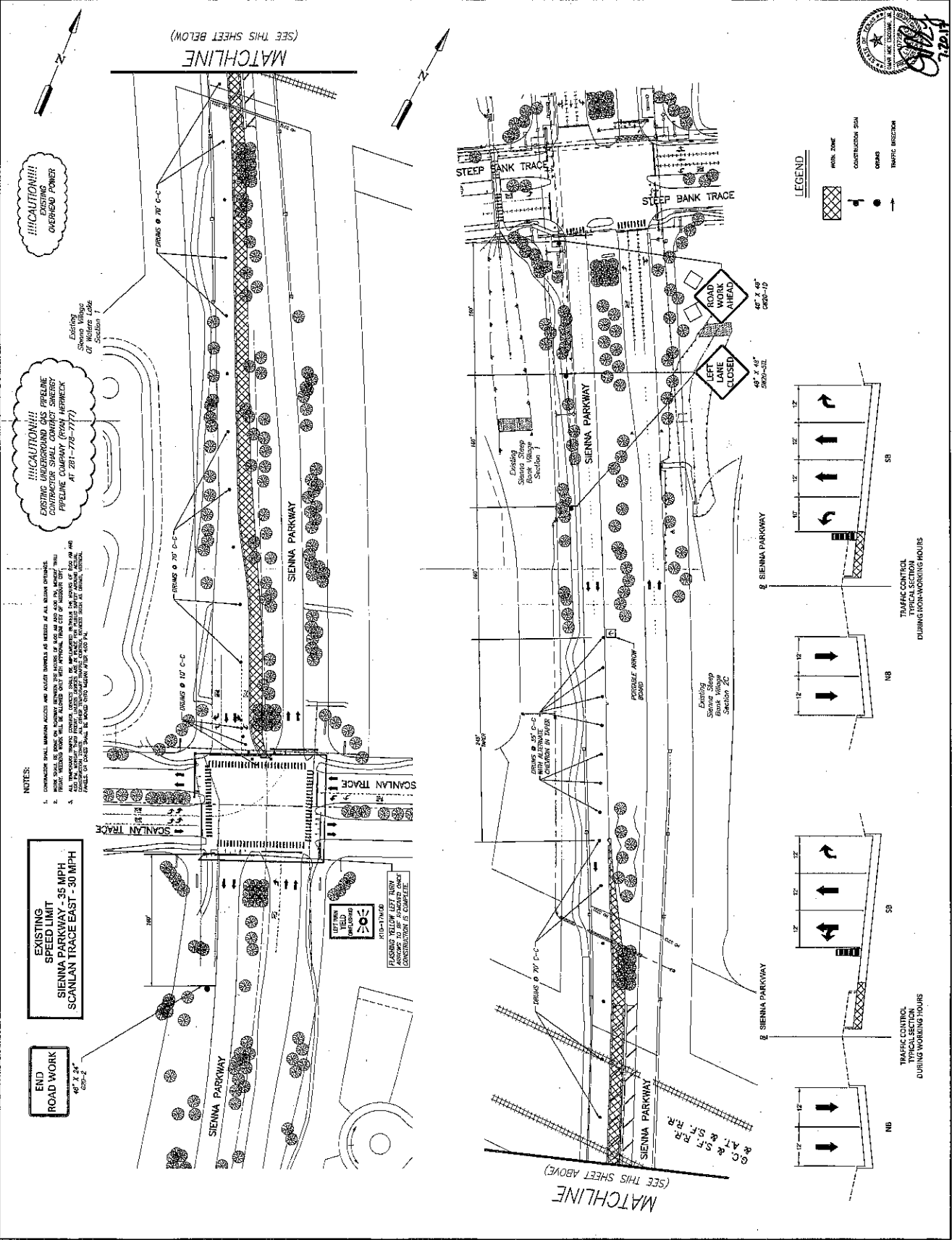
SIENNA PARKWAY

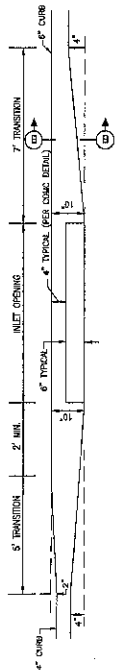
SIENNA PARKWAY SOUTHBOUND

LEFT TURN LANES AT

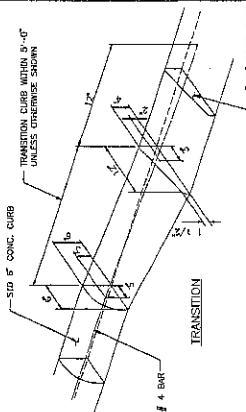
SCANLAN TRACE EAST

TEMPORARY TRAFFIC CONTROL PLAN

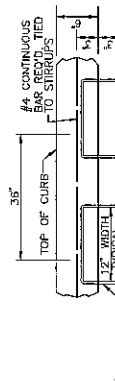




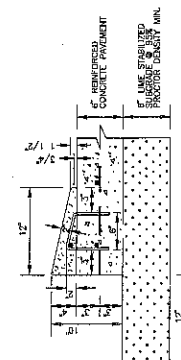
TYPICAL CURB TRANSITION FOR INLET INSTALLATION



TYPICAL CURB TRANSITION



TYPICAL CONCRETE CURB REINFORCING



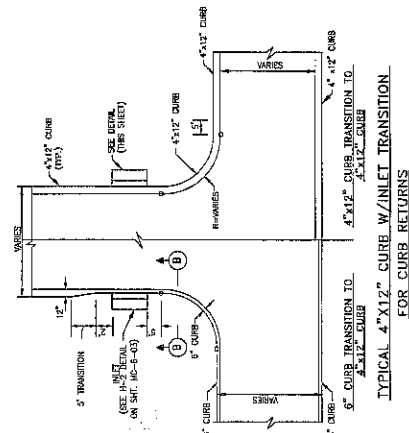
4-INCH x 12-INCH TRANSITION CURB

5"x12" MOUNTABLE CONCRETE CURB AND TRANSITION CURB NOTES:

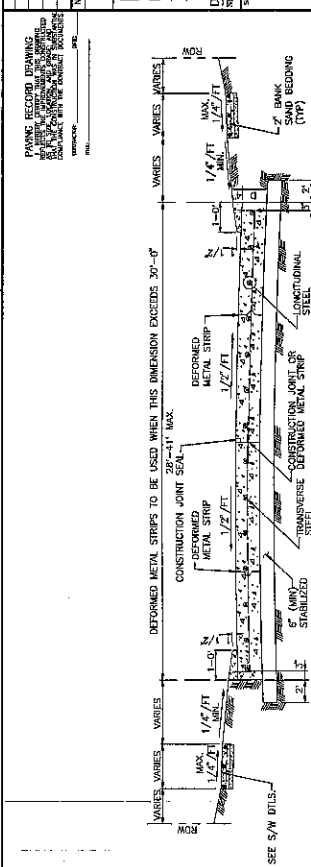
1. 6-INCH CONCRETE CURB TO BE CONSTRUCTED ON ALL EXISTING, UNPAVED AREAS. ALL 6-INCH CONCRETE CURB SHALL BE CONSTRUCTED WITH EITHER 6-INCH CONCRETE CURB OR 4-INCH x 12-INCH CONCRETE CURB. THE 6-INCH CONCRETE CURB SHALL BE CONSTRUCTED WITH EITHER 6-INCH CONCRETE CURB OR 4-INCH x 12-INCH CONCRETE CURB. THE 6-INCH CONCRETE CURB SHALL BE CONSTRUCTED WITH EITHER 6-INCH CONCRETE CURB OR 4-INCH x 12-INCH CONCRETE CURB.
2. ALL 4-INCH x 12-INCH CONCRETE CURB SHALL BE CONSTRUCTED WITH EITHER 4-INCH x 12-INCH CONCRETE CURB OR 4-INCH x 12-INCH CONCRETE CURB. THE 4-INCH x 12-INCH CONCRETE CURB SHALL BE CONSTRUCTED WITH EITHER 4-INCH x 12-INCH CONCRETE CURB OR 4-INCH x 12-INCH CONCRETE CURB.
3. TRANSITION FROM 6-INCH CONCRETE CURB TO 4-INCH x 12-INCH CONCRETE CURB TO BE CONSTRUCTED WITH 5' MIN. TRANSITION. TRANSITION CURB SHALL BE CONSTRUCTED WITH 5' MIN. TRANSITION. TRANSITION CURB SHALL BE CONSTRUCTED WITH 5' MIN. TRANSITION.
4. 1.0 LB OF APPROVED FIBER MESH PER C/Y IN ALL NEW CURB.

CONSTRUCTION NOTES:

1. 6 INCH 5.5 SACK CEMENT PER CUBIC YARD CONCRETE, 3500 PSI REINFORCED CONCRETE WITH #4 BARS 24 INCHES C-C. E.W. IS THE MINIMUM ACCEPTABLE PAVEMENT CONSTRUCTION FOR RESIDENTIAL STREETS.
2. 7 INCH 5.5 SACK CEMENT PER CUBIC YARD CONCRETE, 3500 PSI REINFORCED CONCRETE WITH #4 BARS 24 INCHES C-C. E.W. IS THE MINIMUM ACCEPTABLE PAVEMENT CONSTRUCTION FOR COLLECTOR AND THROUGHFARE STREETS.
3. TRANSVERSE EXPANSION JOINTS ARE REQUIRED AT MAXIMUM SPACING OF 60'-0" C-C. AND VERTICAL CURB JOINTS TO BE SEALED WITH SPECIAL JOINT SEALANT ASTMA-D-1190-74 OR ASTMA-D-1192-70 (Elastomeric Type, Not Poured).
4. FOR PAVEMENT FINISH USE BUREAU DRAG OR BELTED FINISH - CURING COMPOUND REQUIRED ON ALL CONCRETE.
5. SETBACK FROM CURB TO SIDEWALK OR DRIVE SHALL BE 7' MINIMUM.
6. STORM WATER POLLUTION PROTECTION SHALL BE DESIGNED, CONSTRUCTED, MAINTAINED AND SHALL BE IN TOTAL COMPLIANCE WITH THE STORM WATER QUALITY MANUAL OF THE CITY OF MISSOURI CITY.
7. UNSTABLE SUBGRADE SHALL BE EXCAVATED AND REPLACED WITH CEMENT STABILIZED SAND.
8. USE 1"x2" REINFORCED SINKS FOR HEADERS.
9. EDGE ALL SIDES WITH EDGING TOOL.
10. DOWEL SHALL BE 3/4" DIAMETER WITH MINIMUM 6" PENETRATION (BOTH SIDES).
11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY OF MISSOURI CITY OF ANY OBSTACLE PROBLEMS PRIOR TO CONSTRUCTION OF CURB.
12. REFER TO GENERAL, C.S.S., AND PAVEMENT NOTES.
13. 1.0 LB OF APPROVED POLYPROPYLENE FIBER MESH PER C/Y IN 4"x12" CURB REQUIRED.



TYPICAL 4'x12" CURB W/INLET TRANSITION FOR CURB RETURNS

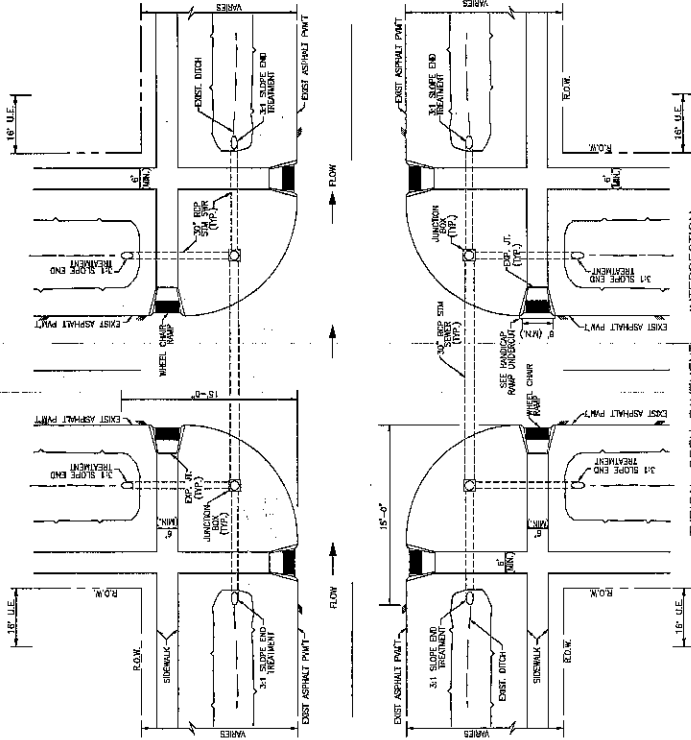


TYPICAL SINGLE ROADWAY SECTION FOR CONCRETE PAVEMENT WITH 4'x12" CURB

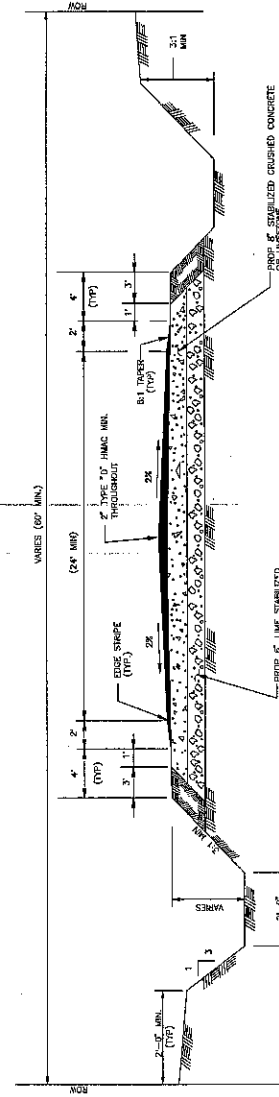
* SEE 4' x 12' MOUNTABLE CURB DETAIL (THIS SHEET)

MISSOURI CITY T. E. X. A. S. DEPARTMENT OF PUBLIC WORKS STEPHEN K. KIMBLE, P.E., CITY ENGINEER		DATE: 7.20.17 PROJECT NO.: MC-18-15 SHEET NO.: 10 OF 22	
RESIDENTIAL CURB CONSTRUCTION DETAILS		CONSTRUCTION PLANS FOR: SIENNA PLANTATION MUNICIPAL UTILITY DISTRICT No. 5 T.C.E.D. P.W.S. No. 0790450 SIENNA PARKWAY SOUTHBOUND LEFT TURN LANES AT SCANLAN TRACE EAST	
NO. DATE REVISION 1. 7/20/17		APPROVED: DATE: 7/24/17	

PAVING RECORD DRAWING
 THIS DRAWING IS TO BE USED FOR PAVING RECORDS ONLY.
 IT IS NOT TO BE USED FOR ANY OTHER PURPOSE.
 DATE: 11/21/11



TYPICAL OPEN PAVEMENT - INTERSECTION



REFER TO:

1. GENERAL NOTES
2. ASPHALT NOTES
3. BASE NOTES
4. TACK & EMULSION NOTES

ASPHALT PAVEMENT - DITCH SECTION
 CROSS SECTION

FORT BEND COUNTY ENGINEERING DEPARTMENT
 APPROVED: *[Signature]*
 DATE: 11/21/11



MISSOURI CITY TEXAS
 DEPARTMENT OF PUBLIC WORKS
 SIENNA & SCANLAN P.A. CITY ENGINEER

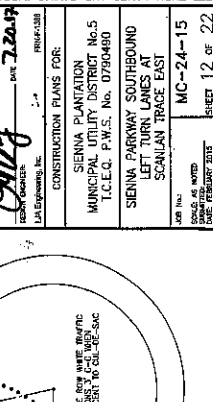
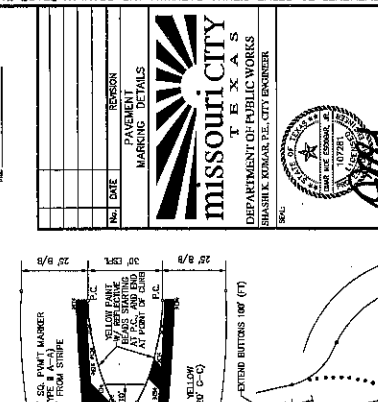
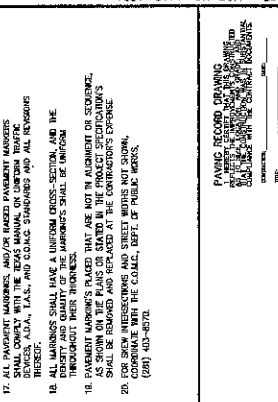
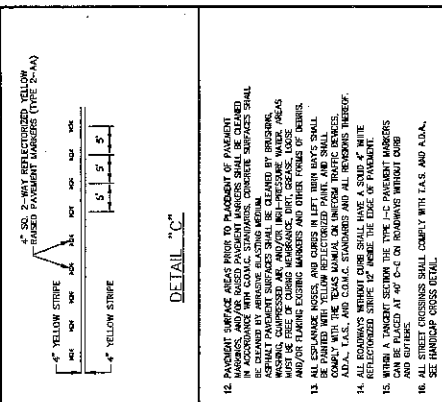
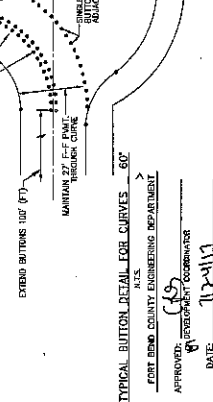
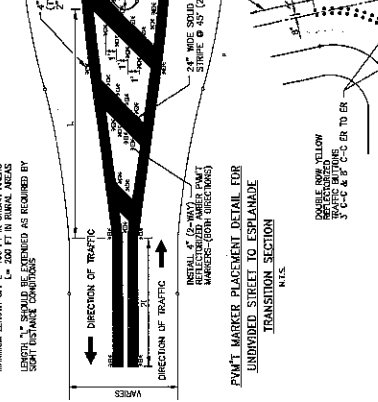
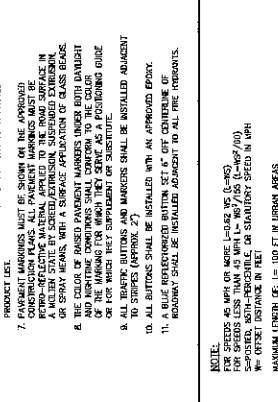
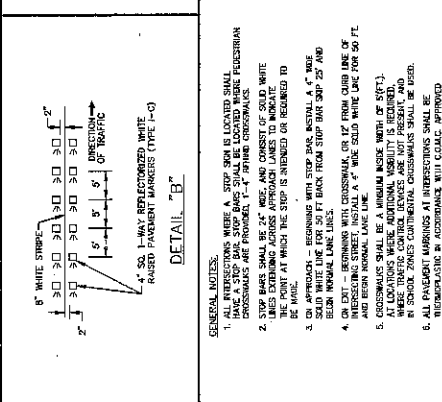
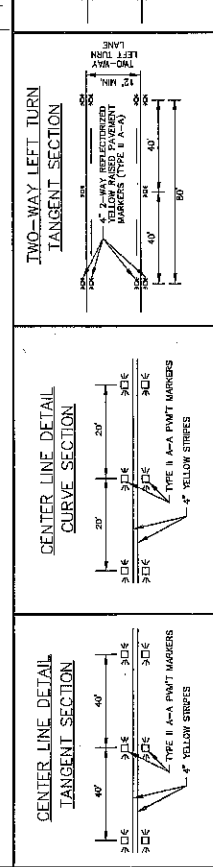
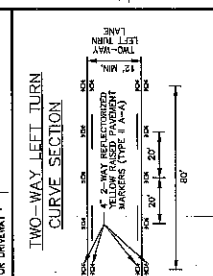
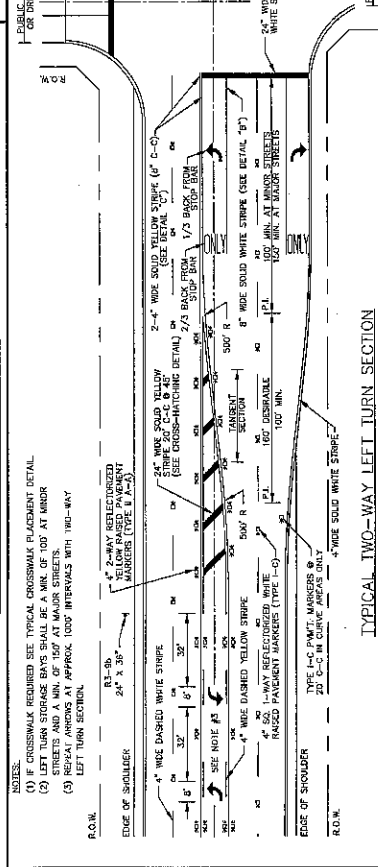
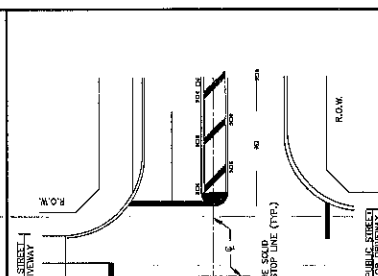
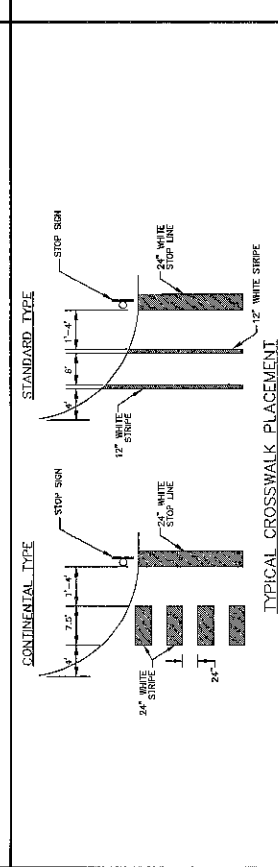
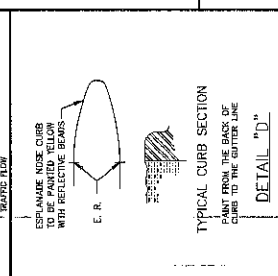
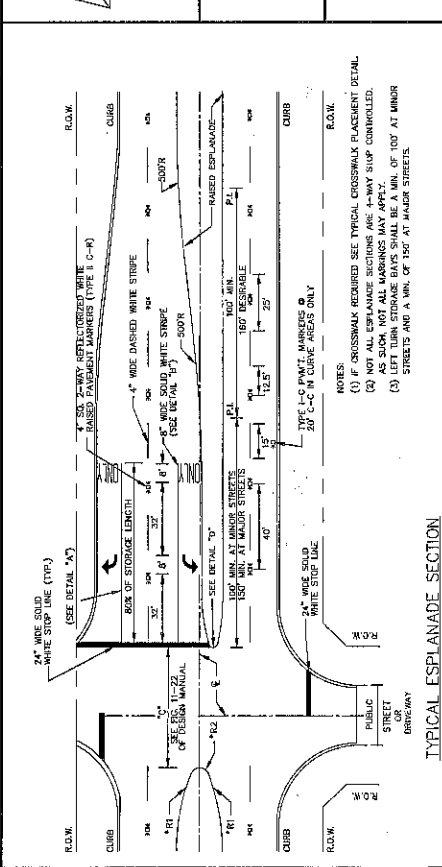
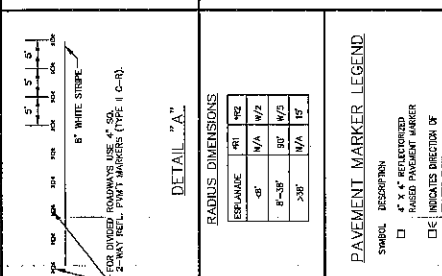
DATE: 11/21/11

CONSTRUCTION PLANS FOR:

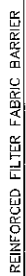
SIENNA PLANTATION
 MUNICIPAL UTILITY DISTRICT NO. 5
 T.C.E.C. P.W.S. NO. 0750490
 SIENNA PARKWAY SOUTHBOUND
 LEFT TURN LANES AT
 SCANLAN TRACE EAST

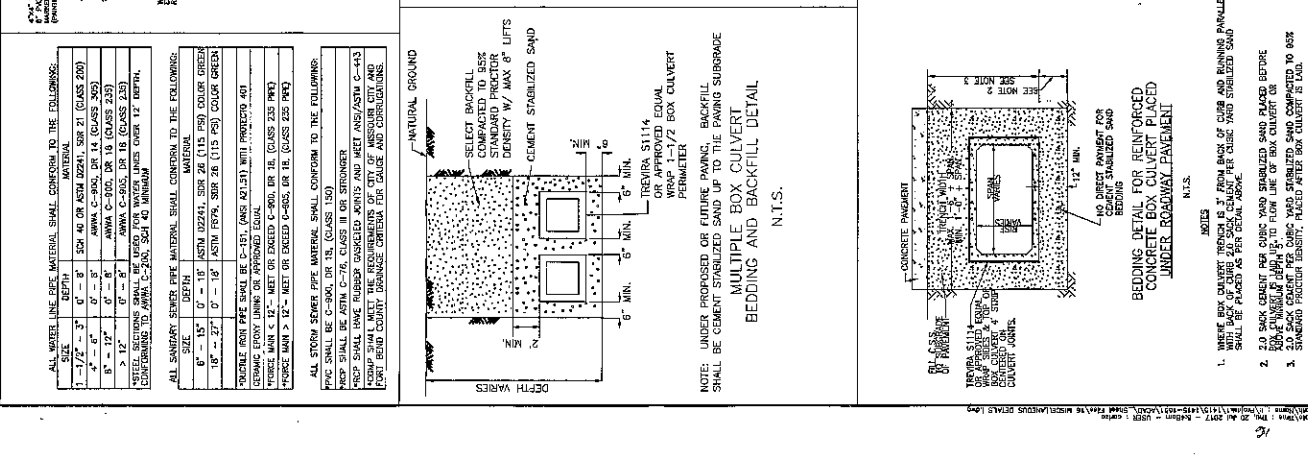
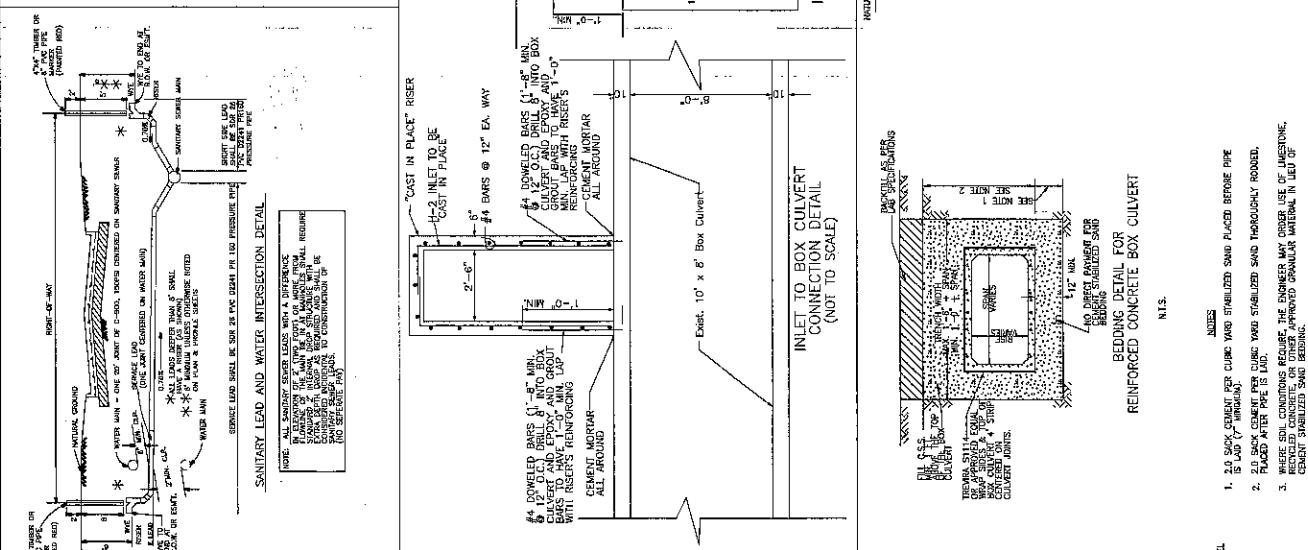
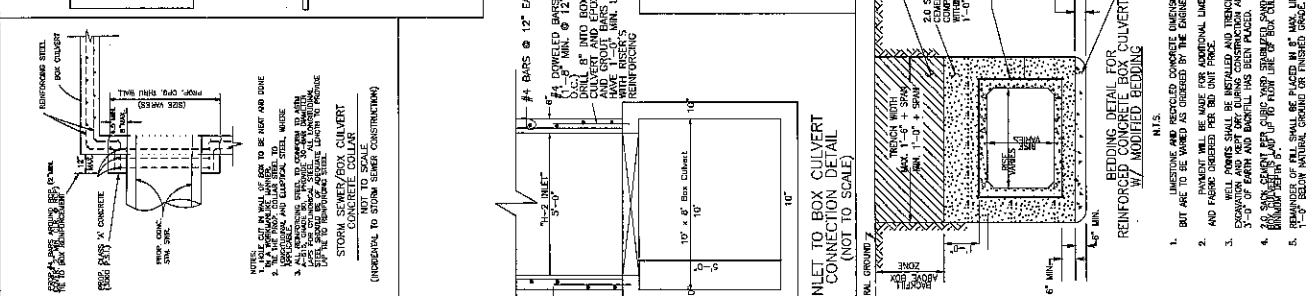
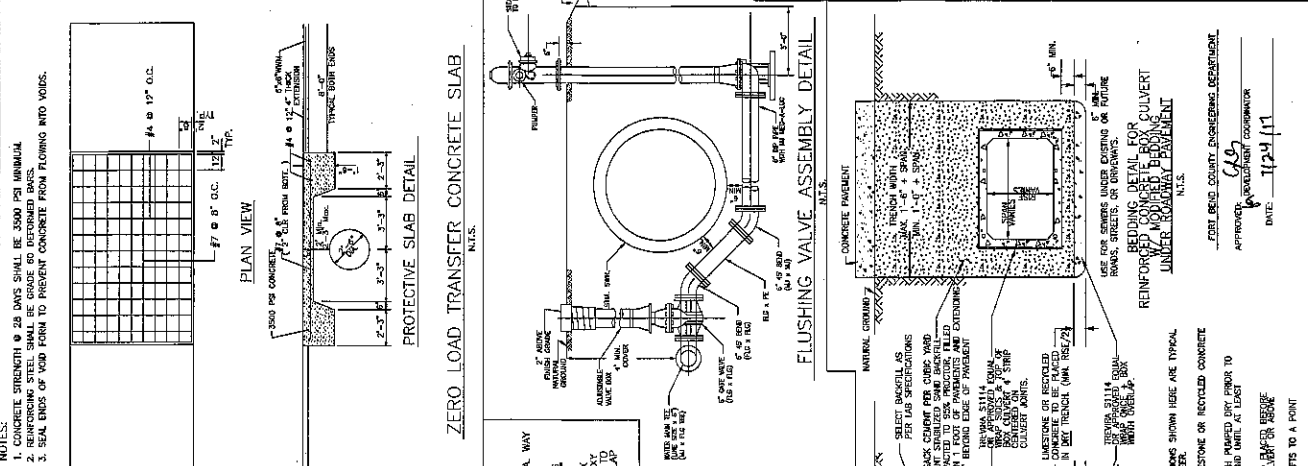
JOB NO.: MC-19-15
 SCALE: AS NOTED
 DATE: 11/21/11

SHEET 11 OF 22



SHEET NO. 15 of 22





REMARKS

FIG. 2- 1/2 INCH BRASS PILE LOCATED IN A
CONCRETE PAVEMENT JOINT AND WAS REMOVED
AND REPLACED WITH A 1/2 INCH BRASS PILE
OF THE SAME SIZE AND WEIGHT. THIS WAS
DOONE AUGUST 1, 2001.

NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, 2001 EDITION, LATEST REVISIONS, AND ANY ADDENDUMS THEREOF.
2. ALL MATERIALS SHALL BE OF THE BEST QUALITY AVAILABLE AND SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ENGINEER.
3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, 2001 EDITION, LATEST REVISIONS, AND ANY ADDENDUMS THEREOF.
4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, 2001 EDITION, LATEST REVISIONS, AND ANY ADDENDUMS THEREOF.
5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, 2001 EDITION, LATEST REVISIONS, AND ANY ADDENDUMS THEREOF.
6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, 2001 EDITION, LATEST REVISIONS, AND ANY ADDENDUMS THEREOF.
7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, 2001 EDITION, LATEST REVISIONS, AND ANY ADDENDUMS THEREOF.
8. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, 2001 EDITION, LATEST REVISIONS, AND ANY ADDENDUMS THEREOF.
9. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, 2001 EDITION, LATEST REVISIONS, AND ANY ADDENDUMS THEREOF.
10. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, 2001 EDITION, LATEST REVISIONS, AND ANY ADDENDUMS THEREOF.
11. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, 2001 EDITION, LATEST REVISIONS, AND ANY ADDENDUMS THEREOF.
12. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, 2001 EDITION, LATEST REVISIONS, AND ANY ADDENDUMS THEREOF.

PAVING RECORD DRAWING

1. THESE RECORD DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AND SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ENGINEER.

CONTRACTOR: _____

DATE: _____

SCALE: _____

BY: _____

CHECKED BY: _____

APPROVED BY: _____

DATE: _____

SCALE: _____

BY: _____

CHECKED BY: _____

APPROVED BY: _____

DATE: _____

SCALE: _____

BY: _____

CHECKED BY: _____

APPROVED BY: _____

DATE: _____

SCALE: _____

BY: _____

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SCALE: _____

BY: _____

CHECKED BY: _____

APPROVED BY: _____

DATE: _____

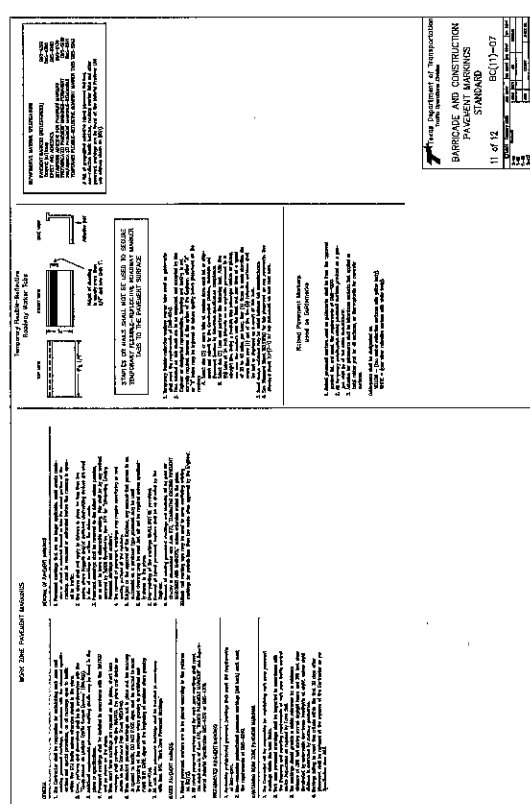
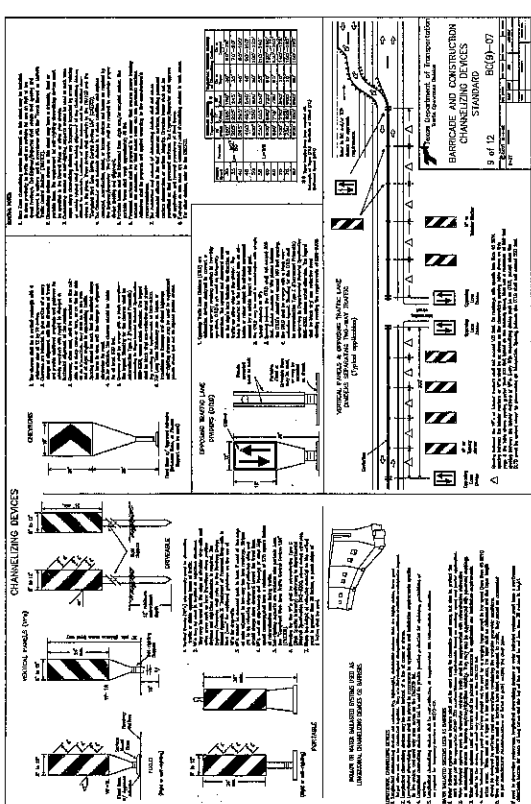
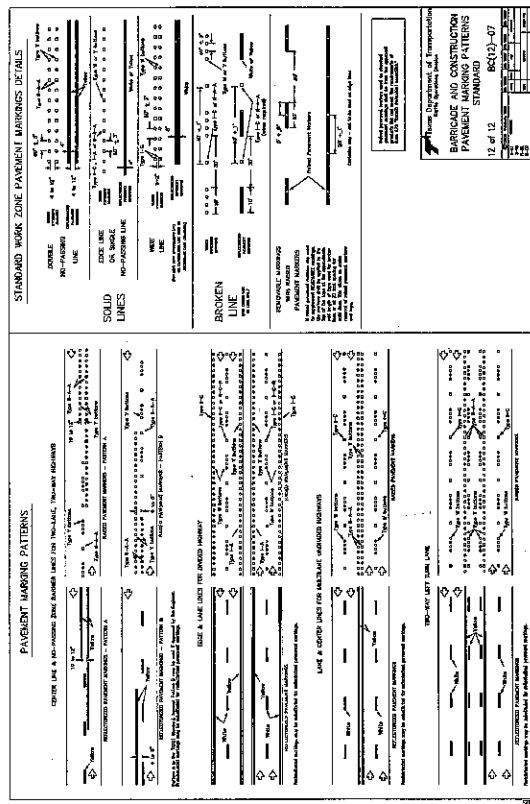
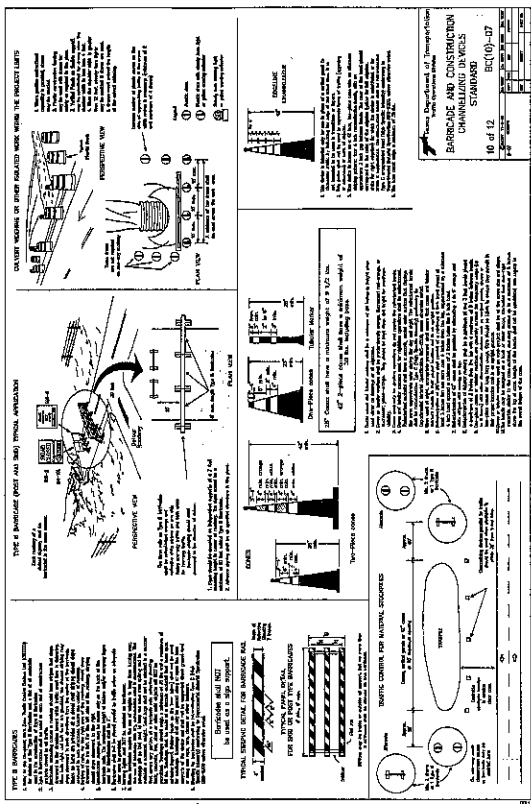
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BY: _____

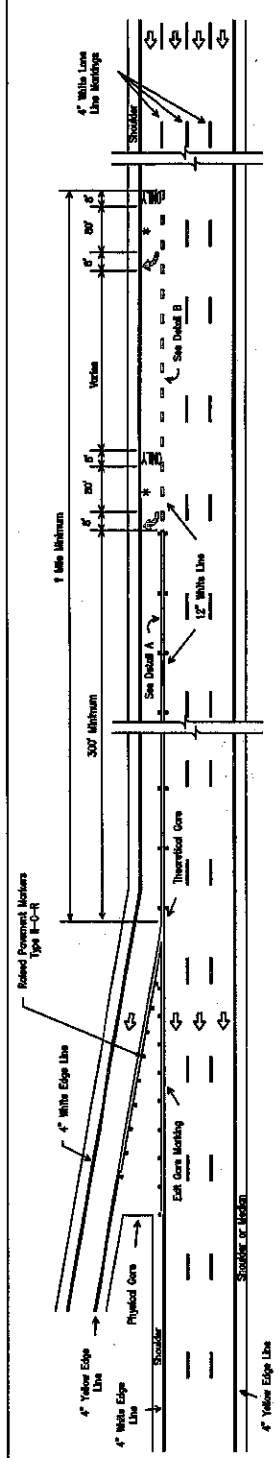
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APPROVED BY: _____

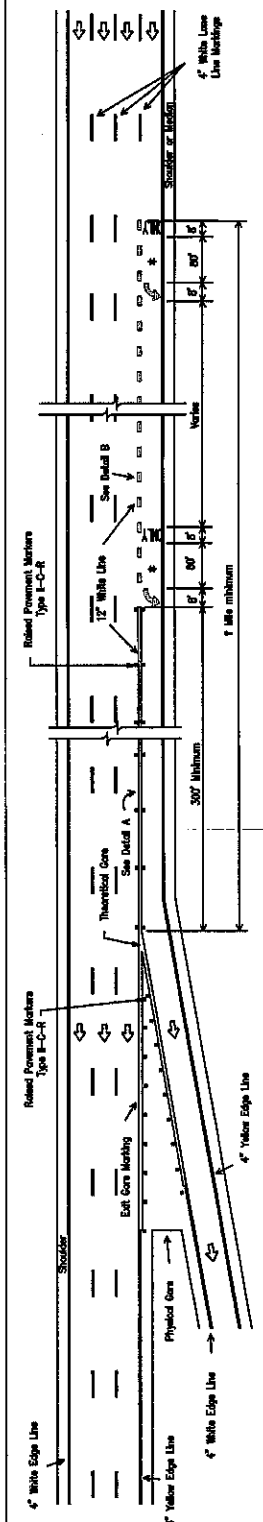
DATE: _____



MISSOURI CITY
T E X A S
DEPARTMENT OF PUBLIC WORKS
SHANE K. KUMAR, P.E., CITY ENGINEER
SIENNA PARKWAY SOUTHBOUND
LEFT TURN LANES AT
SCANLAN TRACE EAST
BARRICADE AND
CONSTRUCTION STANDARD
LJA Engineering, Inc.
11111 Highway 190
Suite 100
Houston, Texas 77044
Phone: 281-415-1551
Fax: 281-415-1552
LJA PROJECT NO. 1415-1551
DRAWN: EA, DESIGNED: DMR, DATE: JUL 2017
SCALE



SINGLE LANE EXIT -- LANE DROP OR EXIT ONLY

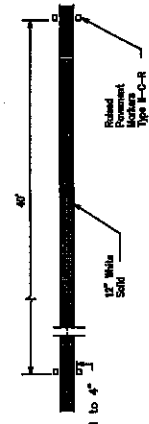


SINGLE LANE EXIT -- LANE DROP OR EXIT ONLY (LEFTHAND)

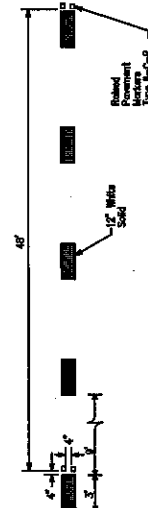
LEGEND	
↔	Indicate direction of traffic.
↔	Pavement marking arrow (white).
*	Arrow markings are optional, however, "ONLY" is required if arrow is used.

GENERAL NOTES

- Pavement markings shall be white except as otherwise noted.
- Length of 12" white line may vary depending on location.
- Wide (12") Dotted Lane Line (See Detail B) is used to separate a through lane from a lane drop at normal exit ramp and from an auxiliary lane between an entrance and exit ramp.



DETAIL A



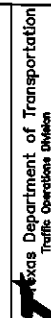
DETAIL B

Wide (12") Dotted Lane Line (See Note 3)

PAVING RECORD DRAWING
 KEEP THIS DRAWING FOR THE RECORD.
 AS TO THE LOCATION AND NUMBER OF
 CHANGES, SEE THE CONTRACT EXHIBIT.

MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4000
EPOXY AND ADHESIVES	DMS-6100
STAINPROOF ADHESIVE FOR PAVEMENT MARKERS	DMS-6120
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREPARED PAVEMENT MARKINGS	DMS-8240

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.



Texas Department of Transportation
 Traffic Operations Division
 TYPICAL STANDARD
 FREEWAY PAVEMENT MARKINGS
 LANE DROP (EXIT ONLY) EXIT RAMPS

FPM(3)-12

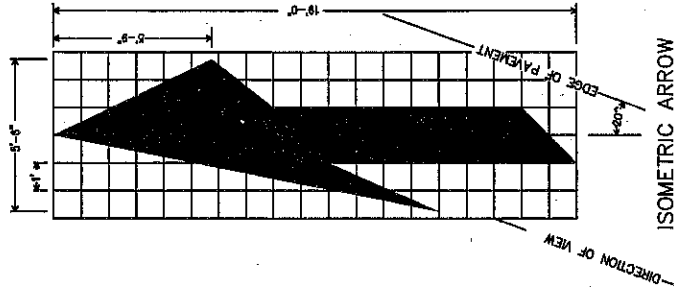
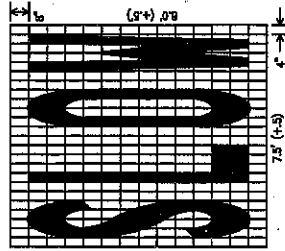
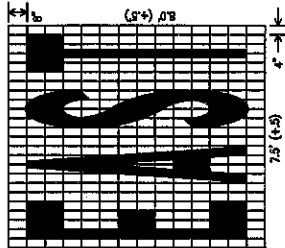
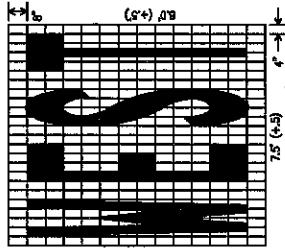
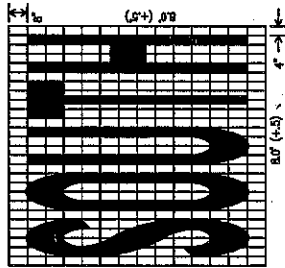
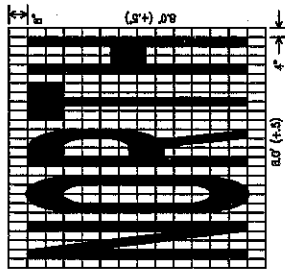
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10/20/00	JAL	10/20/00	JAL	10/20/00	JAL	10/20/00	JAL
10/20/00	JAL	10/20/00	JAL	10/20/00	JAL	10/20/00	JAL
10/20/00	JAL	10/20/00	JAL	10/20/00	JAL	10/20/00	JAL

21 OF 22

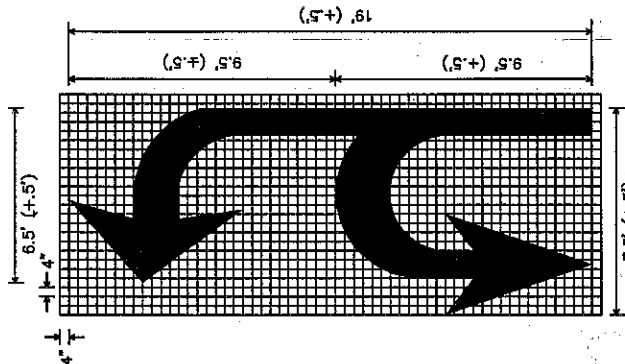
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FILE:

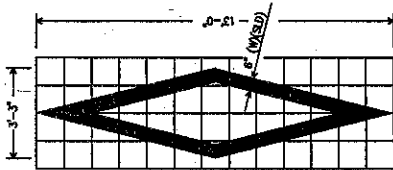
DISCLAIMER: The use of this standard is governed by the Texas Engineering Practice Act. No warranty or responsibility is made by the TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the use of this standard in any other manner or for any results or damages resulting from its use.



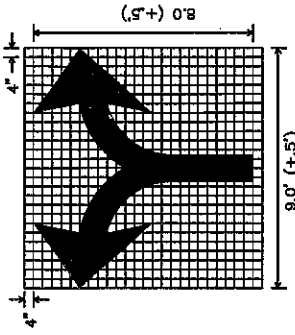
ISOMETRIC ARROW
12 INCH GRID
AREA = 42 SQ. FT.
RIGHT LANE DROP ARROW
(FOR LEFT LANE, USE MIRROR IMAGE)



U-L ARROW



DIAMOND SYMBOL



SCALE 1" = 1'

Texas Department of Transportation
Houston District

PAVEMENT MARKINGS
(WORDS, ARROWS & SYMBOLS)

PROJECT NO.	DATE	BY	CHECKED	DATE	BY
PM(WAS)-07	1-15-1971	ROD	6	1-15-1971	ROD
CONTRACT NO.	DATE	BY	CHECKED	DATE	BY
22 OF 23	22 OF 23	22 OF 23	22 OF 23	22 OF 23	22 OF 23