

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

<input type="checkbox"/>	Right of Way Permit
<input checked="" type="checkbox"/>	Commercial Driveway Permit

Permit No: 2017-15103

Applicant: Jerdon Enterprise, L.P./LJA Engineering, Inc.

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

Bond No. [REDACTED] **Date of Bond:** 7/18/2017 **Amount:** \$59,862.25

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 M. Lyons, seconded by Commissioner M. Lyons, 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:

By: Charles O. Ay

 County Engineer

Date Recorded 8-4-2017 Comm. Court No. 9C

Clerk of Commissioners Court

By:

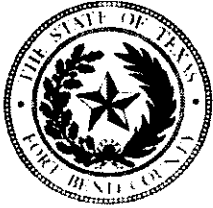
Andrea Walker
Deputy

Deputy

By:

N/A

Drainage District Engineer/Manager



**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: 2017-15103

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: [REDACTED] Amount: \$59,862.25
- ☐ 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.

Charly O. Ay

Permit Administrator

7/24/17
Date

**PERFORMANCE BOND COVERING ALL CABLE, CONDUIT AND/OR POLE LINE
ACTIVITY IN, UNDER, ACROSS OR ALONG FORT BEND COUNTY ROAD,
COMMERCIAL DRIVEWAY AND MEDIAN OPENINGS OR MODIFICATIONS
(AUTHORIZED)**

BOND

THE STATE OF TEXAS §
COUNTY OF FORT BEND §

KNOW ALL MEN BY THESE PRESENTS:

THAT WE, Jerdon Enterprise, L.P. whose (address, phone) is 13403 Redfish Drive, Stafford, Texas 77477, 281-261-5000, Texas, hereinafter called the Principal, and Hartford Casualty Insurance Company, a Corporation existing under and by virtue of the laws of the state of Indiana and authorized to do an indemnifying business in the state of Texas, and whose principal office is located at (name/address/phone) Hartford Casualty Insurance Company, 19450 State Hwy 249, #400, Houston, Texas 77070, whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought whining said state is Michael Heidrick and whose address is Hartford, 3000 Internet Blvd., #600, Frisco, Texas 75034, hereinafter called the Surety, and held and firmly bound unto, Robert E. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, in the full sum of Fifty Nine Thousand, Eight Hundred Sixty Two and 25/100--- Dollars (\$59,862.25) current, lawful money of the United States of America, to be paid to said Robert E. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, to which payment well and truly to be made and done, we, the undersigned, bind ourselves and each of us, our heirs, executors, administrators, successors, assigns, and legal representatives, jointly and severally, by these presents.

THE CONDITION OF THIS BOND IS SUCH THAT, WHEREAS, the above bounden principal contemplates laying, constructing, maintaining and/or repairing one or more cables, conduits, and/or pole lines in, under, across and/or along roads, streets and highways, commercial driveway and median openings or modifications in the County of Fort Bend, and the State of Texas, under the jurisdiction of the Commissioners' Court of Fort Bend County, Texas, pursuant to the Commissioners' Court order adopted on the 1st day of December, A.D. 1980, recorded in Volume 13, of the Commissioners' Court Minutes of Fort Bend County, Texas, regulating same, which Commissioners' Court order is hereby referred to and made a part hereof for all purposes as though fully set out herein;

AND WHEREAS, the principal desires to provide Fort Bend County with a performance bond covering all such cable, conduit and/or pole line activity, commercial driveway and median openings or modifications;

NOW, THEREFORE, if the above bounden principal shall faithfully perform all its cable, conduit and/or pole line activity (including, but not limited to the laying, construction, maintenance and/or repair of cables, conduits and/or pole lines) in, under, across and/or along roads, streets and highways, commercial driveway and median openings or modifications in the County of Fort Bend and State of Texas, under the jurisdiction of the Commissioners Court of Fort Bend County, Texas, pursuant to and in accordance with minimum requirements and conditions of the above mentioned Commissioners' Court order set forth and specified to be by said principal done and performed, at the time and in the manner therein specified, and shall pay over and make good and reimburse Fort Bend County, all loss and damages which Fort Bend County may sustain by reason of any failure or default on the part of said principal, then this obligation shall be null and void, otherwise to remain in full force and effect.

This bond is payable at the County Courthouse in the County of Fort Bend and State of Texas.

It is understood that at any time Fort Bend County deems itself insecure under this bond, it may require further and/or additional bonds of the principal.

EXECUTED this 18th day of July , 2017 .

Jerdon Enterprise, L.P.
PRINCIPAL

BY

Will Cravens
Will Cravens - President

Hartford Casualty Insurance Company
SURETY

BY

Sharon Cavanaugh
Sharon Cavanaugh, Attorney-in-Fact

CCM 8-1-2017 # 9c
Fort Bend County Clerk
Return Admin Serv Coord

RAC

POWER OF ATTORNEY

Direct Inquiries/Claims to:

THE HARTFORD

BOND, T-12

One Hartford Plaza

Hartford, Connecticut 06155

Bond.Claims@thehartford.com

call: 888-266-3488 or fax: 860-757-5835

Agency Name: MARSH & MCLENNAN AGENCY LLC

Agency Code: 61-610074

KNOW ALL PERSONS BY THESE PRESENTS THAT:

- ☒ Hartford Fire Insurance Company, a corporation duly organized under the laws of the State of Connecticut
- ☒ Hartford Casualty Insurance Company, a corporation duly organized under the laws of the State of Indiana
- ☒ Hartford Accident and Indemnity Company, a corporation duly organized under the laws of the State of Connecticut
- ☐ Hartford Underwriters Insurance Company, a corporation duly organized under the laws of the State of Connecticut
- ☐ Twin City Fire Insurance Company, a corporation duly organized under the laws of the State of Indiana
- ☐ Hartford Insurance Company of Illinois, a corporation duly organized under the laws of the State of Illinois
- ☐ Hartford Insurance Company of the Midwest, a corporation duly organized under the laws of the State of Indiana
- ☐ Hartford Insurance Company of the Southeast, a corporation duly organized under the laws of the State of Florida

having their home office in Hartford, Connecticut, (hereinafter collectively referred to as the "Companies") do hereby make, constitute and appoint, **up to the amount of Unlimited :**

Sharon Cavanaugh, C.W. Adams, Roxanne G. Brune, Sharen Groppell, David R. Groppell, Francine Hay, Beverly A. Ireland, Edward L. Moore, Kurt A. Risk, James W. Tomforde, Gloria Villa of HOUSTON, Texas

their true and lawful Attorney(s)-in-Fact, each in their separate capacity if more than one is named above, to sign its name as surety(ies) only as delineated above by ☒, and to execute, seal and acknowledge any and all bonds, undertakings, contracts and other written instruments in the nature thereof, on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

In Witness Whereof, and as authorized by a Resolution of the Board of Directors of the Companies on May 6, 2015 the Companies have caused these presents to be signed by its Senior Vice President and its corporate seals to be hereto affixed, duly attested by its Assistant Secretary. Further, pursuant to Resolution of the Board of Directors of the Companies, the Companies hereby unambiguously affirm that they are and will be bound by any mechanically applied signatures applied to this Power of Attorney.



John Gray

John Gray, Assistant Secretary

M. Ross Fisher

M. Ross Fisher, Senior Vice President

STATE OF CONNECTICUT

COUNTY OF HARTFORD

ss. Hartford

On this 11th day of January, 2016, before me personally came M. Ross Fisher, to me known, who being by me duly sworn, did depose and say: that he resides in the County of Hartford, State of Connecticut; that he is the Senior Vice President of the Companies, the corporations described in and which executed the above instrument; that he knows the seals of the said corporations; that the seals affixed to the said instrument are such corporate seals; that they were so affixed by authority of the Boards of Directors of said corporations and that he signed his name thereto by like authority.



CERTIFICATE

Nora M. Stranko

Nora M. Stranko
Notary Public

My Commission Expires March 31, 2018

I, the undersigned, Assistant Vice President of the Companies, DO HEREBY CERTIFY that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which is still in full force effective as of 18th day of July, 2017. Signed and sealed at the City of Hartford.



Kevin Heckman

Kevin Heckman, Assistant Vice President

IMPORTANT NOTICE

To obtain information or make a complaint:

You may contact your agent.

You may call Hartford Insurance Group at the toll free telephone number for information or to make a complaint at:

1-800-392-7805

You may also write to The Hartford:

**The Hartford
Hartford Financial Products
2 Park Avenue, 5th Floor
New York, New York 10016
1-212-277-0400**

You may contact the Texas Department of Insurance to obtain information on companies, coverages, rights or complaints at:

1-800-252-3439

You may write the Texas Department of Insurance

P.O. Box 149104
Austin, TX 78714-9104
Fax Number (512) 490-1007
Web: <http://www.tdi.state.tx.us>
E-mail: ConsumerProtection@tdi.state.tx.us

PREMIUM OR CLAIMS DISPUTES: Should you have a dispute concerning your premium or about a claim you should contact the agent first. If the dispute is not resolved, you may contact the Texas Department of Insurance.

ATTACH THIS NOTICE TO YOUR POLICY: This notice is for your information only and does not become a part or condition of the attached document.

AVISO IMPORTANTE

Para obtener informacion o para someter una queja.

Puede comunicarse con su agente.

Usted puede llamar al numero de telefono gratis de The Hartford Insurance Group para informacion o para someter una queja al

1-800-392-7805

Usted tambien puede escribir a The Hartford.

**The Hartford
Hartford Financial Products
2 Park Avenue, 5th Floor
New York, New York 10016
1-212-277-0400**

Puede comunicarse con el Departamento de Seguros de Texas para obtener informacion acerca de compañías, coberturas, derechos o quejas al:

1-800-252-3439

Puede escribir al Departamento de Seguros de Texas

P.O. Box 149104
Austin, TX 78714-9104
Fax Number (512) 490-1007
Web: <http://www.tdi.state.tx.us>
E-mail: ConsumerProtection@tdi.state.tx.us

DISPUTAS SOBRE PRIMAS O RECLAMOS: Si tiene una disputa concerniente a su prima o a un reclamo, debe comunicarse con su agente primero. Si no se resuelve la disputa, puede entonces comunicarse con el departamento (TDI).

UNA ESTE AVISO A SU POLIZA: Este aviso es solo para proposito de informacion y no se convierte en parte o condicion del documento adjunto.

Inquiries Regarding Claims

Hartford Fire Insurance Company
Hartford Casualty Insurance Company
Hartford Accident and Indemnity Company
Hartford Underwriters Insurance Company

Twin City Insurance Company
Hartford Insurance Company of Illinois
Hartford Insurance Company of the Midwest
Hartford Insurance Company of the Southeast

Please address inquiries regarding **Claims** for all surety and fidelity products issued by The Hartford's underwriting companies to the following:

Phone Number : 888-266-3488
Fax - Claims : 860-757-5835 or 860-547-8265
E-mail : claims@1stepsurety.com

Mailing Address : The Hartford
The Hartford Fidelity & Bonding (BOND)
Hartford Plaza
690 Asylum Avenue
Hartford, CT 06115

FILED AND RECORDED
OFFICIAL PUBLIC RECORDS

Laura Richard

Laura Richard, County Clerk
Fort Bend County, Texas

August 04, 2017 03:06:29 PM

FEE: \$0.00 SB
BOND

2017087753



RIGHT TURN LANE AND PAVING IMPROVEMENTS TO SERVE SIENNA PARKWAY AND STEEP BANK TRACE - JOB NO. 1415-1552

LIMITING SUBGRADE

LIMITING SUBGRADE

- [illegible]

- [illegible]

[illegible]

STORM SEWER NOTES


- [illegible]

minimum pressure of 20 psi under condition by 30 TAC §250.4(5).

- POSTED: where topography or other factors may create or locate in the areas. As well covering the entire project area, the contractor shall provide a detailed description of the proposed work, including a list of materials to be used, a list of equipment to be used, and a list of subcontractors to be used. The contractor shall also provide a detailed description of the proposed work, including a list of materials to be used, a list of equipment to be used, and a list of subcontractors to be used.

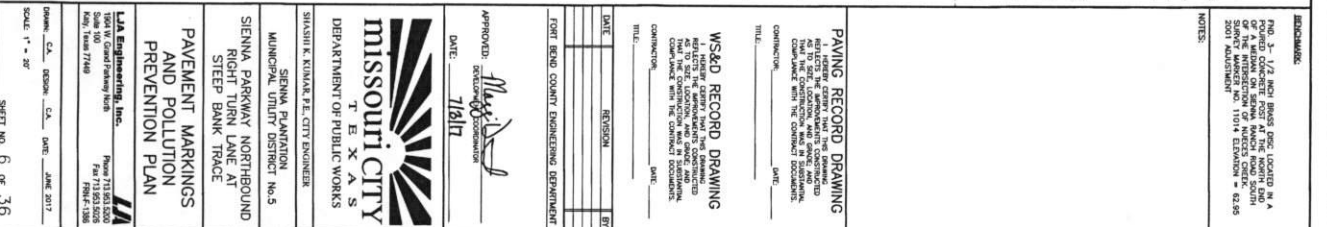
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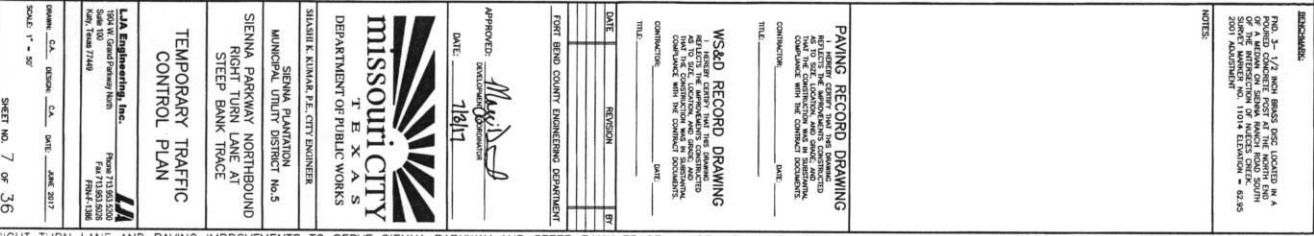
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APPROVED: <i>Missi D. Smith</i> EXISTING DESIGNER	
DATE: 7/14/17	
	
MISSOURI CITY TEXAS DEPARTMENT OF PUBLIC WORKS	
SHARON E. KAPLAN, P.E., CITY ENGINEER	
SIENNA PLANTATION MUNICIPAL FLUORIDATION DISTRICT No.5 SIENNA PARKWAY NORTHBOUND RIGHT TURN LANE AT STEEP BANK TRACE	
STORM SYSTEM A	
LJA Engineering, Inc. 1500 N. Grand Parkway West Suite 1000 King, Texas 77449 Phone 713.553.5500 Fax 713.553.5501 Web: www.lja.com Email: info@lja.com P&ID: F-1208	
DRAWN: C.A. KROUSE DATE: 1-1-17 1" = 30' HORIZ. 1" = 2' VERT.	C.A. DATE: JUNE 2017

[illegible]

- FOUND. 3- 1/2 INCH BRASS DISC LOCATED IN A
POURED CONCRETE POST AT THE NORTH END
OF A MEDIAN ON SERENA RANCH ROAD SOUTH
OF THE INTERSECTION OF NINEES CREEK.
SURVEY MARKER NO. 11014 ELEVATION = 62.95
2001 ADJUSTMENT





ITEM NO.	DESC. CODE	DESCRIPTION	UNIT	QUANTITY
416	6034	INSTALL SHAF (TRF SIG POLE) (48 IN)	LF	22
618	6046	CONUT (PVC) (SCH 80) (2")	LF	30
618	6047	CONUT (PVC) (SCH 80) (2") (BORE)	LF	215
618	6053	CONUT (PVC) (SCH 80) (3") (BORE)	LF	115
618	6054	CONUT (PVC) (SCH 80) (3") (BORE)	LF	110
620	6009	ELEC CONDR (NO. 6) BARE	LF	405
621	6005	TRAY CABLE (4 CONDR) (12 AWG)	LF	670
624	6010	GROUND BOX TY D (162922) W/ARRON	EA	1
680	6011	INSTALL HWY TRF SIG (UPGRADE)	EA	1
684	6007	TRF SIG CBL (TY A) (12 AWG) (2 CONDR)	LF	(335)
684	6009	TRF SIG CBL (TY A) (12 AWG) (4 CONDR)	LF	335
690	6012	TRF SIG CBL (TY A) (12 AWG) (7 CONDR)	LF	670
6902	6005	RELOCATE OF SIGNAL POLE ASSM	EA	1
6902	6005	VIVOS COMMUNICATION CABLE (COAXIAL) (PER MANUFACTURER SPECS TO MATCH EXISTING)	LF	335

SUBSIDIARY TO OTHER PAY ITEMS

REMARKS:

NOTES:

DATE	REVISION	BY

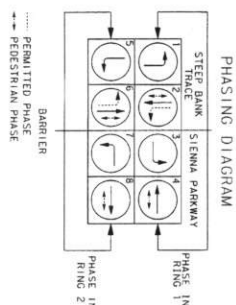
FORT BEND COUNTY ENGINEERING DEPARTMENT

APPROVED: *May 17/17*
 DATE: 7/18/17
 PROJECT NO. 1415-1552

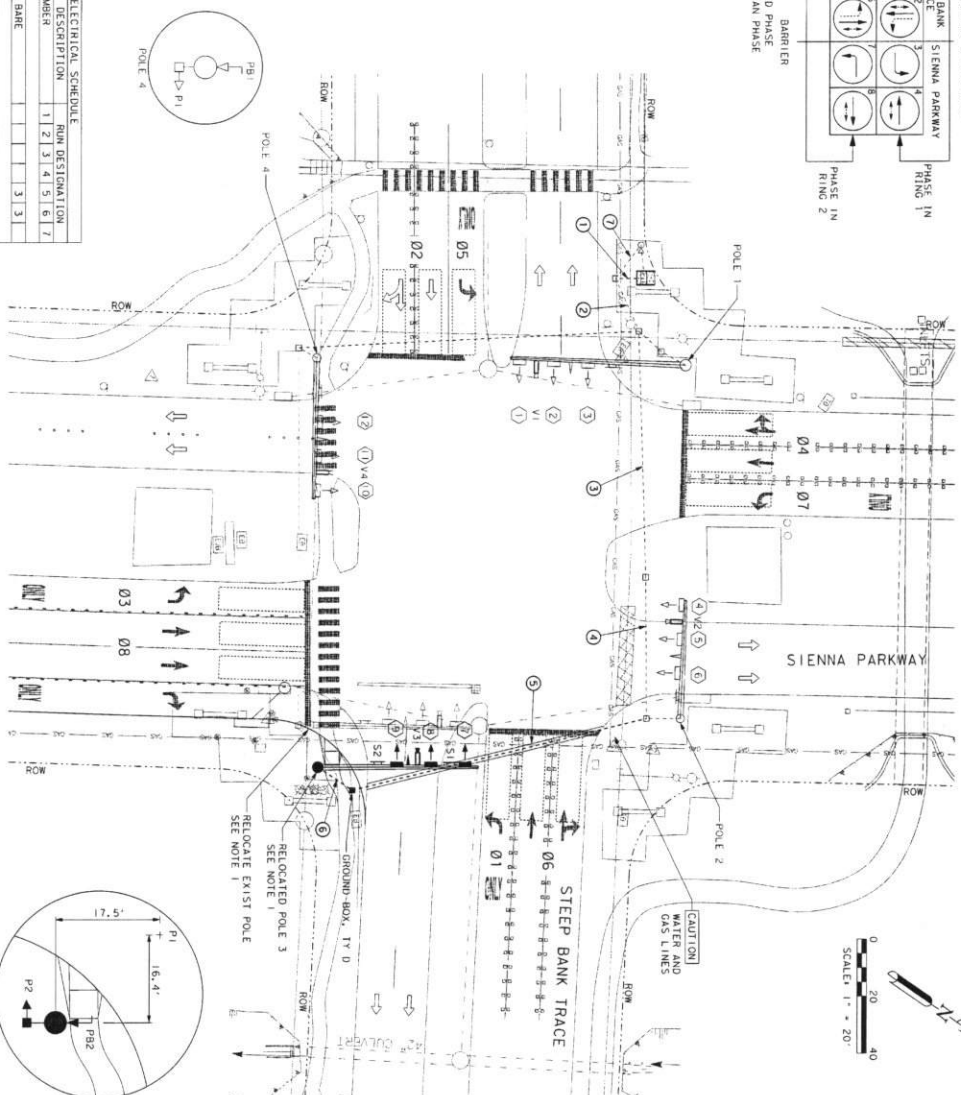
MISSOURI CITY
 TEXAS
 DEPARTMENT OF PUBLIC WORKS
 SIENNA PLANTATION
 MUNICIPAL UTILITY DISTRICT No. 5
 SIENNA PARKWAY NORTHBOUND
 RIGHT TURN LANE AT
 STEEP BANK TRACE

TRAFFIC SIGNAL
 QUANTITIES

LJA Engineering, Inc.
 2000 Bluffview Drive
 Suite 600
 Houston, Texas 77060
 Phone 713.651.5500
 Fax 713.651.5500
 Email info@lja.com
 LJA PROJECT NO. 1415-1552
 SHEET NO. 8 OF 36

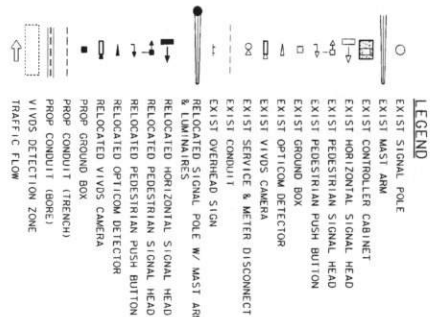
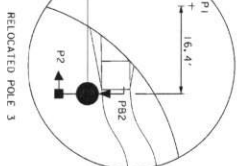


EXISTING AND PROPOSED STREET NAMES

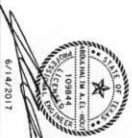
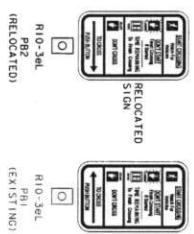
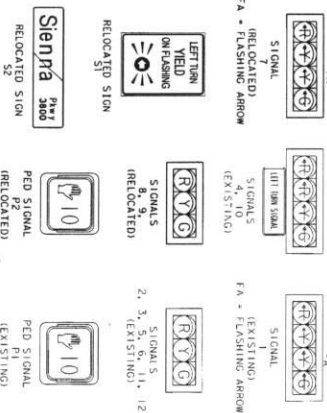


ITEM	ELECTRICAL SCHEDULE									
	DESCRIPTION	NON DESTINATION								
NON RESIDENTIAL		1	2	3	4	5	6	7		
GROUND	#6 BARE							3	3	
VEHICLE SIGNAL	7/8" #12	2	2	2	2					
	9/8" #12	1	1	1	1					
	2" #12	1	1	1	1					
VIBROS CAMERA	3/8" #16 POWER *	1	1	1	1	1	1	1	1	1
	#059 COAX	1	1	1	1	1	1	1	1	1
OPTICOM	3/8" #20 SHIELDED	1	1	1	1	1	1	1	1	1
LUMINAIRE	4" x 1/2 TMR CABLE	2	2	2	2	2	2	2	2	2
CONDUIT	3" PVC (EXISTING)								X	
	2" PVC (BORE)						2			
	2" PVC (EXISTING)	X	X	X	X					
	3" PVC							1		
	3" PVC (BORE)								1	

POLE AND CONTROLLER INFORMATION	
POLE NO.	DESCRIPTION
1	EXIST POLE: 60' MAST ARM
2	EXIST POLE: 40' MAST ARM
3	RELOCATED POLE: 55' MAST ARM, PB2, P2
4	EXIST POLE: 48' MAST ARM, PB1, P1
CONTROLLER INFORMATION	
METER	EXIST METER



SIGNAL HEAD & SIGN LEGEND



REFERENCES

NOTES:

1. RELOCATE EXISTING SIGNAL POLE TO NEW LOCATION AS SHOWN ON THE CENTER OF SHADDELL LANE.
2. EXISTING SIGNAL EQUIPMENTS ARE TO REMAIN UNLESS OTHERWISE NOTED.
3. ADJUST PHASES 2 & 5 VIBES DETECTIVE CAMERAS V3.
4. THE CONTRACTOR SHALL CONTACT MR. KEVIN CHAMBERS, CITY OF HOUSTON, AT 281-344-2222 TO DISCUSS TO PROPOSED THE SIGNAL CONTROLLER.

POLE 3- 1/2" NOD BROSS DODG. LOCATED IN A SHADDELL LANE. THE POLE IS LOCATED AT THE INTERSECTION OF NICESSE CROSS LANE. THE POLE IS 11' HIGH. THE POLE IS 200' AWAY FROM THE INTERSECTION.

200' AWAY FROM THE INTERSECTION. ELEVATION = 62.95

DATE	REVISION

FORT BEND COUNTY ENGINEERING DEPARTMENT

APPROVED: M. J. D.
DEVELOPMENT COORDINATOR

DATE: 7/3/17



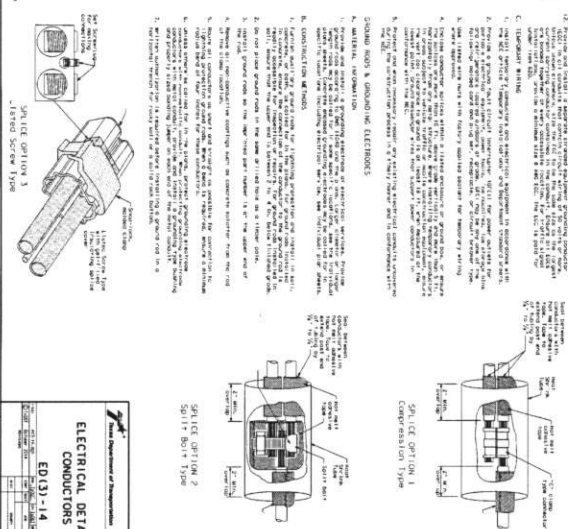
MISSOURI CITY
TEXAS
DEPARTMENT OF PUBLIC WORKS

SIENNA FLORIAN
MUNICIPAL UTILITY DISTRICT No.5
SIENNA PARKWAY NORTHBOUNDE
RIGHT TURN LANE AT

TRAFFIC SIGNAL
MODIFICATIONS LAYOUT

LIA Engineering, Inc.
 2009 Imperial Drive
 Suite 600
 Houston, Texas 77042
 Phone 713.831.5232
 Fax 713.831.5230
 FPN# F-11-1

- ELECTRICAL CONDUITS**
1. MATERIAL INFORMATION
 2. CONSTRUCTION METHODS
 3. CONSTRUCTION METHODS
 4. CONSTRUCTION METHODS
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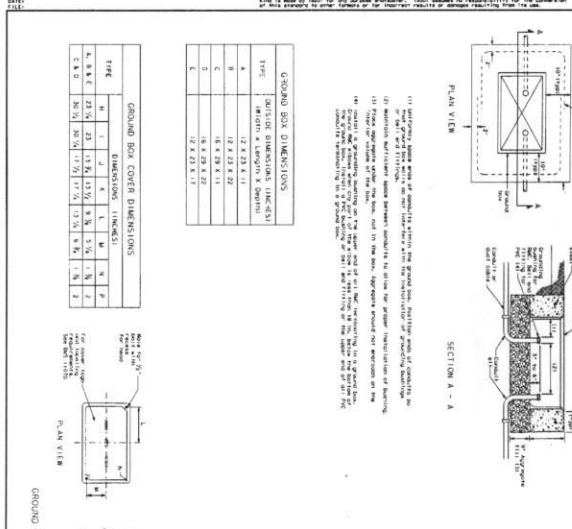


ELECTRICAL DETAILS
CONDUITS & NOTES
ED(13)-14

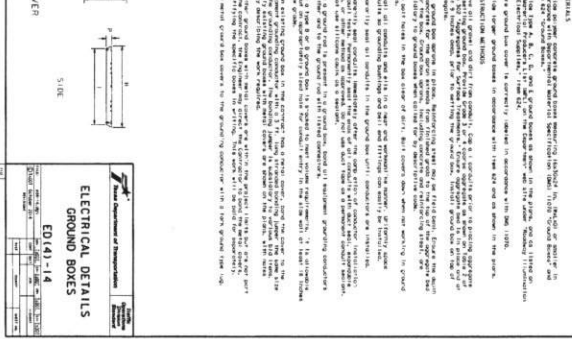
- ELECTRICAL CONDUITS**
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ELECTRICAL DETAILS
CONDUITS & NOTES
ED(13)-14



ELECTRICAL DETAILS
CONDUITS & NOTES
ED(13)-14



ELECTRICAL DETAILS
CONDUITS & NOTES
ED(13)-14

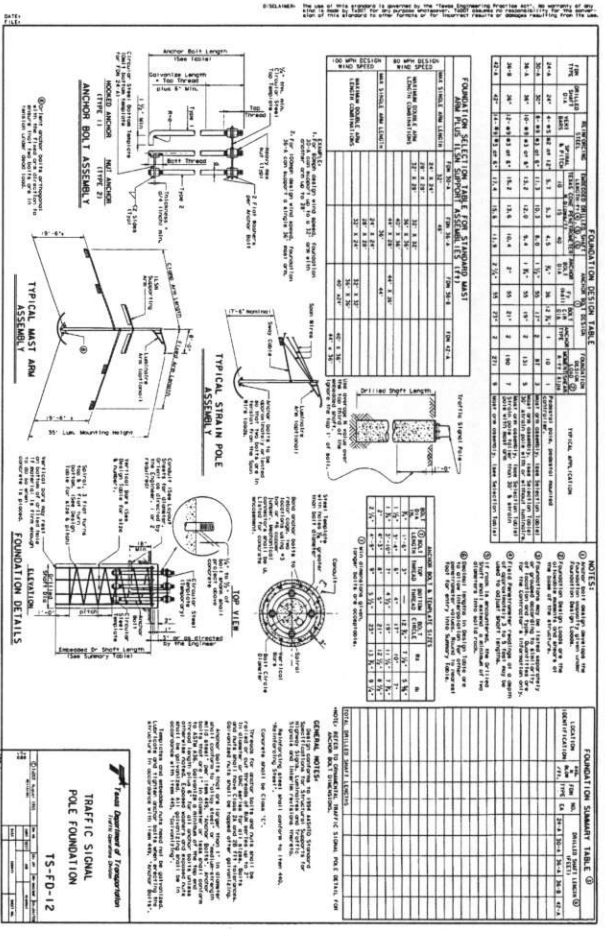
Missouri City TEXAS
 DEPARTMENT OF PUBLIC WORKS
 SIENNA PLANTATION
 MUNICIPAL UTILITY DISTRICT NO. 5
 SIENNA PARKWAY NORTHBOUND
 RIGHT TURN LANE AT
 STEEP BANK TRACE

ELECTRICAL DETAILS

2008 Project Data
 Project: 11415-1552
 Revision: 1002
 Date: 05/18/2011

Scale: 1/8" = 1'-0"

Sheet No. 10 of 36



DATE	RECEIVED	BY

LIGHT BEND COUNTY ENGINEERING DEPARTMENT

APPROVED: *[Signature]*
 ENGINEER OF RECORD

DATE: 7/31/17

missouri city
 TEXAS
 DEPARTMENT OF PUBLIC WORKS

SEAN R. K. KIMMEL, P.E., CITY ENGINEER

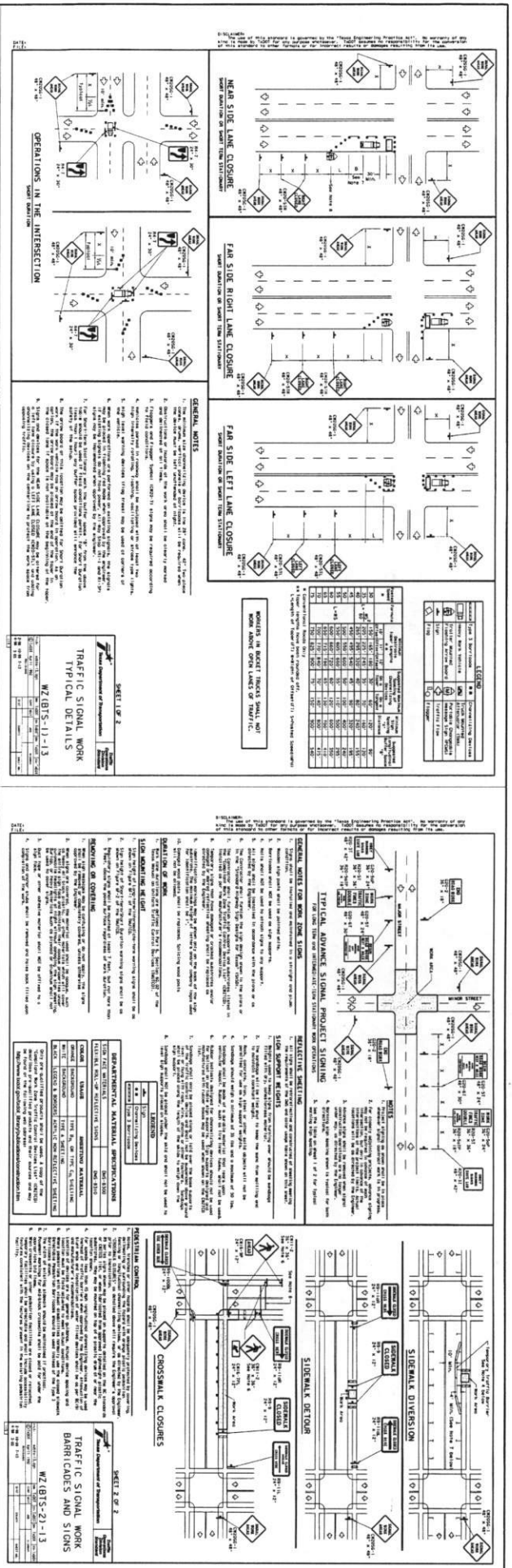
SIENNA PLANTATION
 MUNICIPAL UTILITY DISTRICT No. 5

SIENNA PARKWAY NORTHBOUND
 RIGHT TURN LANE AT
 STEEP BANK TRACE

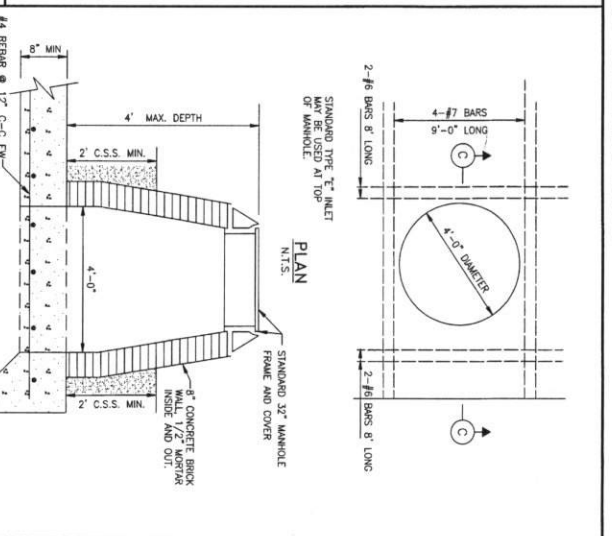
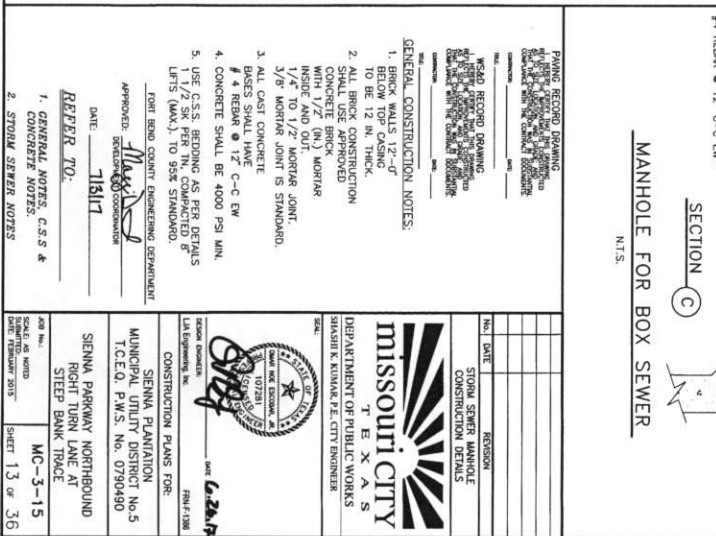
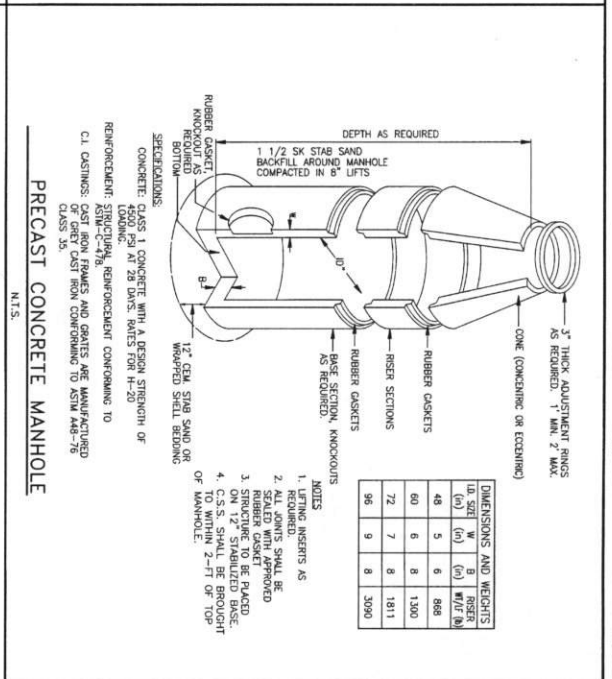
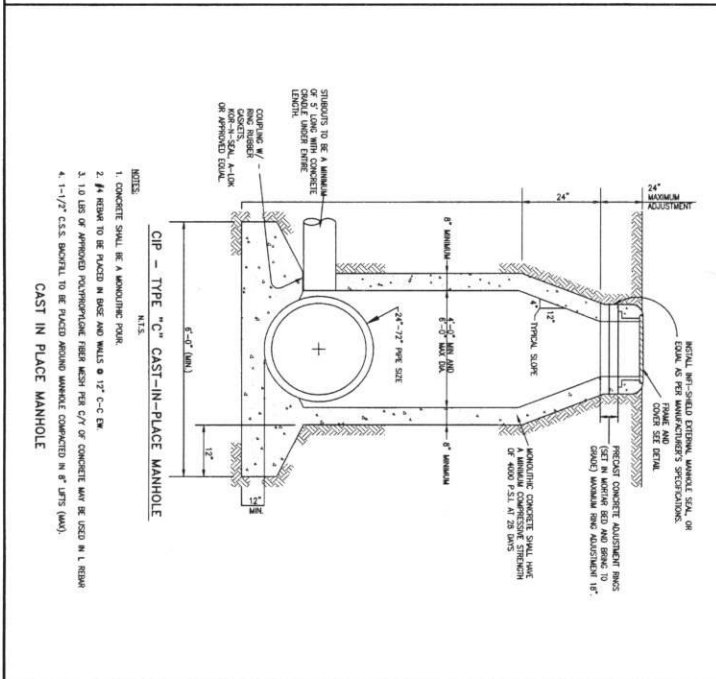
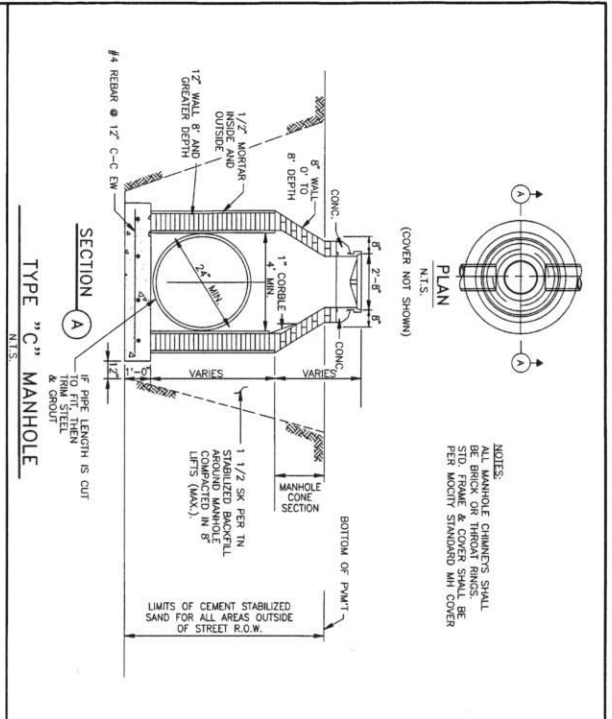
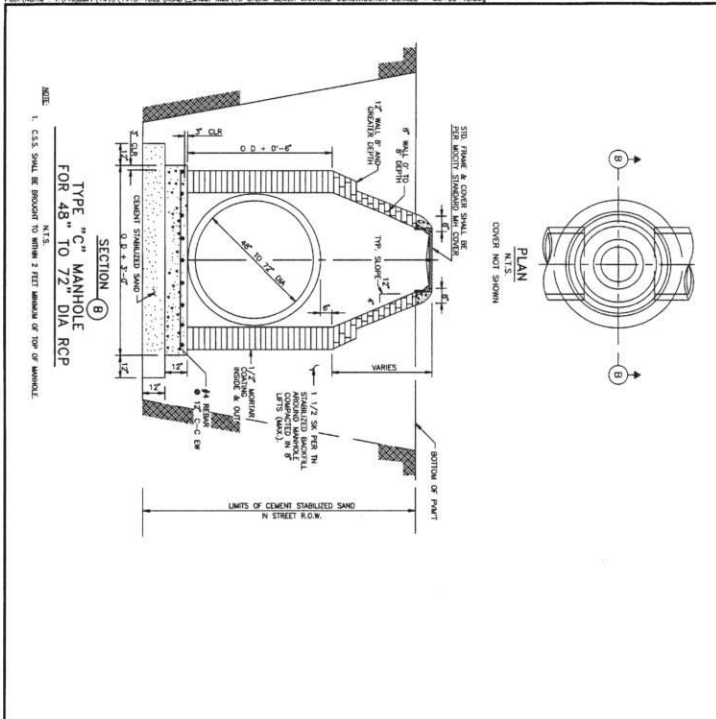
MAST ARM AND
 SIGNAL POLE DETAILS

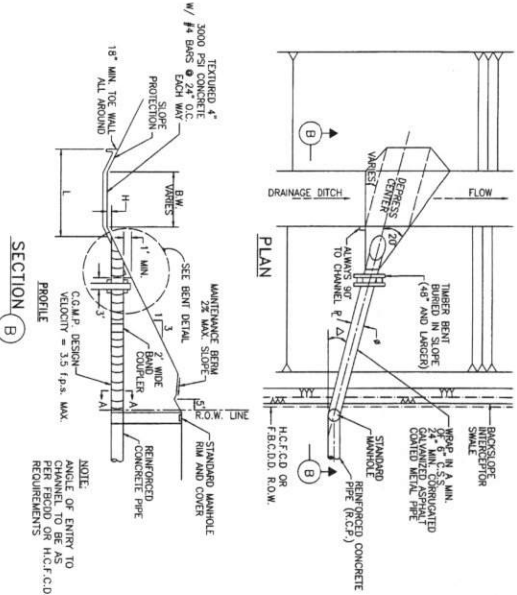
LA Engineering, Inc.
 6500 Westpark Drive
 Houston, Texas 77036
 Phone 771.831.5500
 Fax 771.831.5501
 E-mail info@la-engineering.com
 P.E. # 14153
 P.E. # 14152

LA PROJECT NO.: 1415-1552



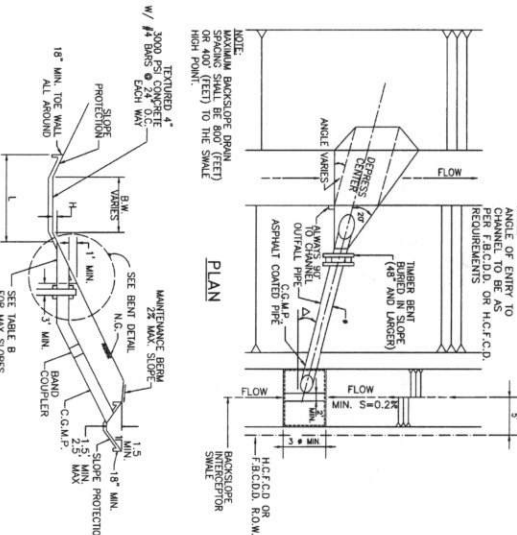
DATE	REVISION	BY
APPROVED: <i>[Signature]</i> DATE: 7/18/17 DIRECTOR OF TRANSPORTATION		
MISSOURI CITY TEXAS DEPARTMENT OF PUBLIC WORKS SHARON K. KIRKMAN, P.E. CITY ENGINEER		
SIENNA PLANTATION MUNICIPAL UTILITY DISTRICT NO. 5 SIENNA PARKWAY NORTHBOUND RIGHT TURN LANE AT STEEP BANK TRACE		
TRAFFIC SIGNAL WORK DETAILS		
L&A Engineering, Inc. 2020 Bourque Drive Houston, Texas 77058 Phone: 713.863.5200 Fax: 713.863.5201 Email: info@laa-engineering.com		
L&A PROJECT NO.: 1415-1552 SCALE: 1/8" = 1'-0" DATE: April 2017		





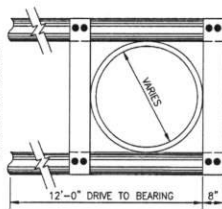
STORM SEWER OUTFALL

N.T.S.



BACKSLOPE INLET & OUTFALL

N.T.S



END VIEW

SIZE 2.125" x 1.75" COMPRESSION	PIPE GAUGE	BOULDER COMPRESSION	SIZE 1.5" x 1.5" COMPRESSION	PIPE GAUGE	BOULDER COMPRESSION
25"	16	16			
30"	16	16			
35"	16	16			
42"	14	16			
48"	14	16	48"	16	16
54"	12	14	54"	16	16
60"	12	14	60"	16	16
66"	10	12	66"	16	18
72"	10	12	72"	16	18
78"	8	10	78"	14	16
84"	8	10	84"	14	16

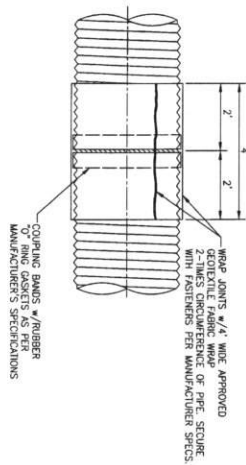
TABLE

PIPE DIA	SLOPE	VELOCITY
24"	0.6%	3.25 f.p.s
36"	0.3%	3.00 f.p.s
42"	0.2%	2.75 f.p.s
48"	0.2%	3.00 f.p.s
54"	0.2%	3.25 f.p.s

TABLE 6

LENGTH WILL EXTEND ONE-FOUR
PIPE Ø ABOVE & ON
OPPOSITE BANK (MIN. 36")
OR A MINIMUM OF 6-PIPE Ø
TOWARDS OPPOSITE BANK
OF CHANNEL, WHICH EVER IS
THE LESSER.

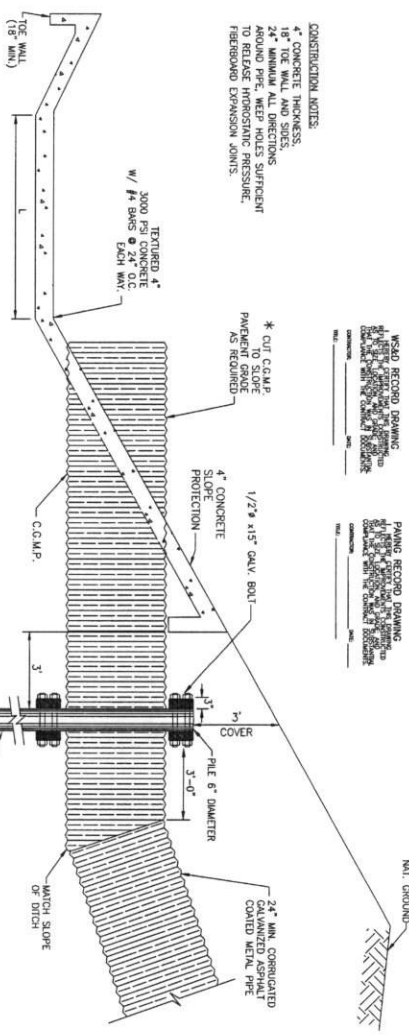
Δ : PROP. 24" TO 42" $\Delta = 15'$
 PROP. 48" AND LARGER $\Delta = 30'$
 H: FOR PIPE SIZES 24" TO 42"
 H=3" MAX. AND 1" MIN.
 FOR PIPE SIZES 48" AND LARGER
 H=1" MAX. AND MIN.



1. ANY PIPE DEFLECTED MORE THAN 2% SHALL BE REJECTED AND REPLACED AT CONTRACTOR'S EXPENSE.
2. INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS INCLUDING ITEMS AS DETAILED IN INSTALLATION MANUAL FOR CORRUGATED STEEL DRAINAGE STRUCTURES.

STORM SEWER JOINT WRAP DETAIL

N.T.S.



- NOTES:
1. DUTIFUL PIPE SHALL BE ASPHALT-COATED, CORRUGATED, GALVANIZED METAL PIPE, ALUMINUM PIPE OR ALUMINIZED COAT IS NOT ALLOWED.
 2. STONE RIP RAP IS NOT ALLOWED.
 3. SEE GENERAL, C.S. AND CONCRETE NOTES.
 4. SEE END VIEW DETAIL (THIS SHEET).

TIMBER BENT FOR CORRUGATED
METAL PIPE OUTFALL

N.T.S.

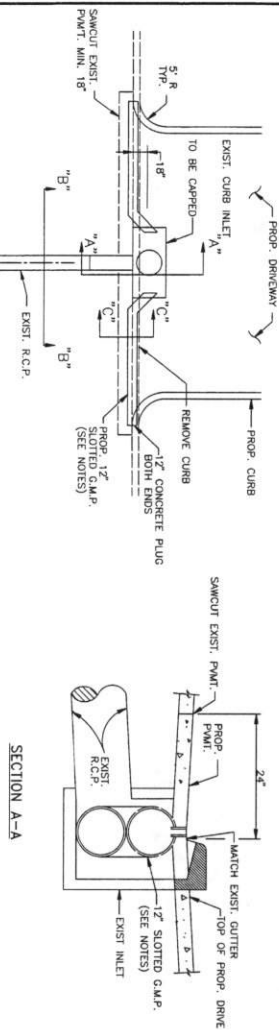
FOOT BEAD COUNTY ENGINEERING DEPARTMENT

APPROVED: *M. J. [Signature]*
DEVELOPMENT COORDINATOR

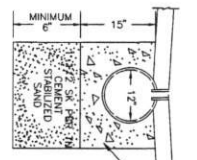
DATE: 7/31/17

SIENNA PARKWAY NORTHBOUND RIGHT TURN LANE AT STEEP BANK TRACE	MC-4-15 SCALE: AS NOTED DATE: JANUARY 2015 SHEET 14 OF 36
---	--

MC-4-15
SHEET 14 OF 36



**SLOTTED PIPE INSTALLATION
FOR DRIVEWAY CONSTRUCTION**



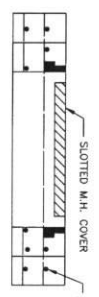
SECTION C-C

- NOTES**
- 1) 30 FEET OF SLOT IS TO BE MAINTAINED TO REPLACE A TYPE B-B INLET.
 - 2) CONCRETE MIN. 3000 P.S.I.
 - 3) PIPE TO BE GALVANIZED TYPE II
 - 4) CONDITIONS MAY VARY, CONTRACTOR TO ROLL FITTING AND ENTER BOX BELOW 9\"/>

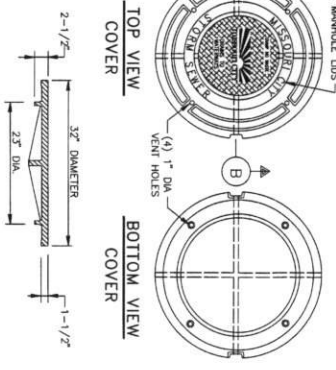
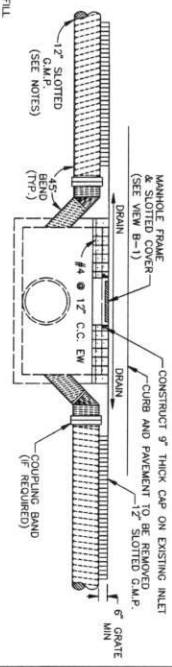
SLOTTED DRAIN DETAIL

N.T.S.

VIEW B-1

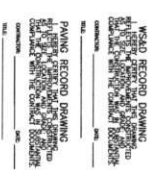
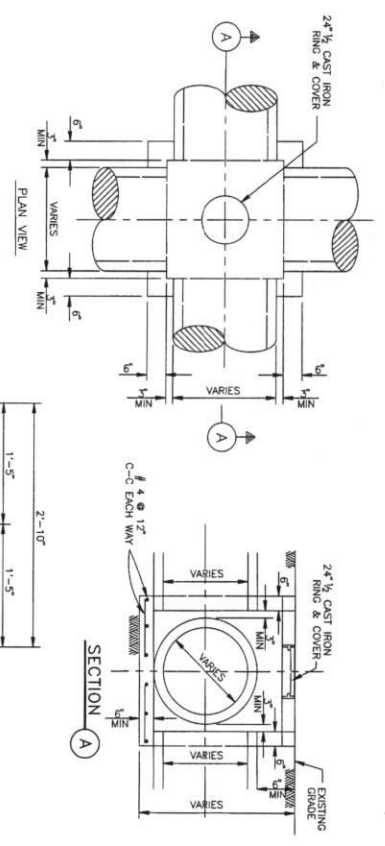


SECTION B-B



STORM SEWER MANHOLE LID

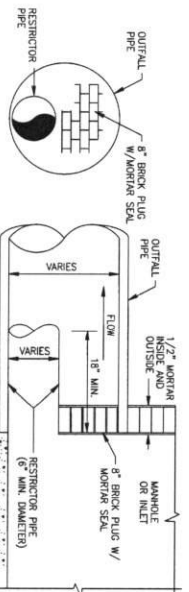
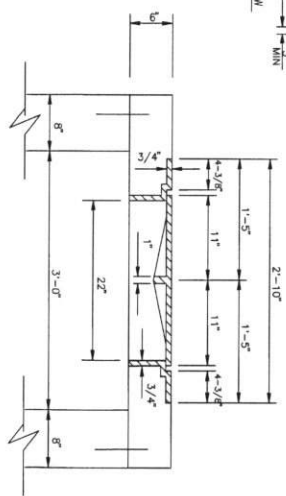
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JUNCTION BOX

N.T.S.

FRAME AND COVER SECTION



STORM SEWER CHOKO RESTRICTOR

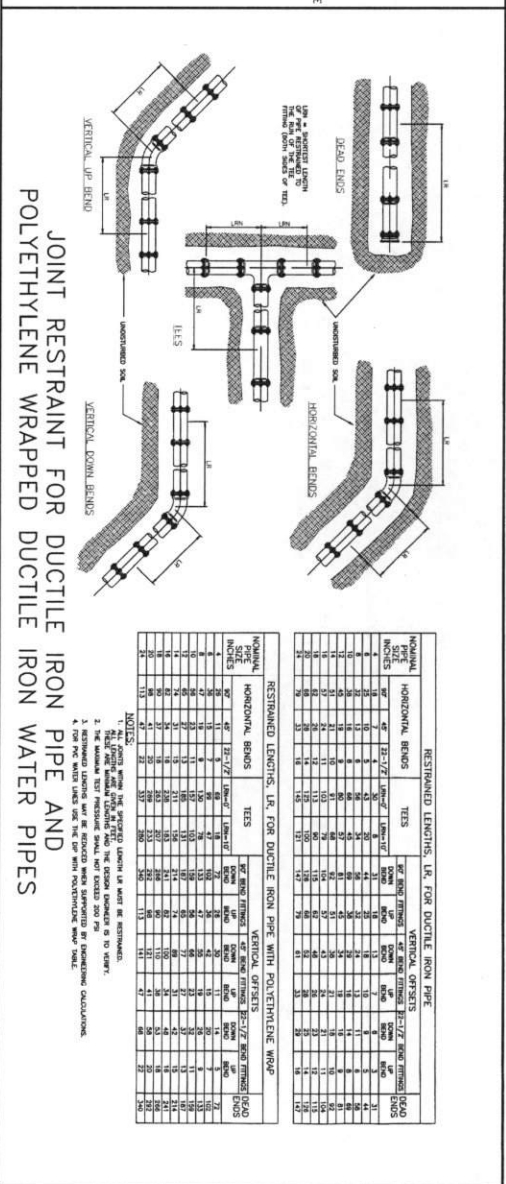
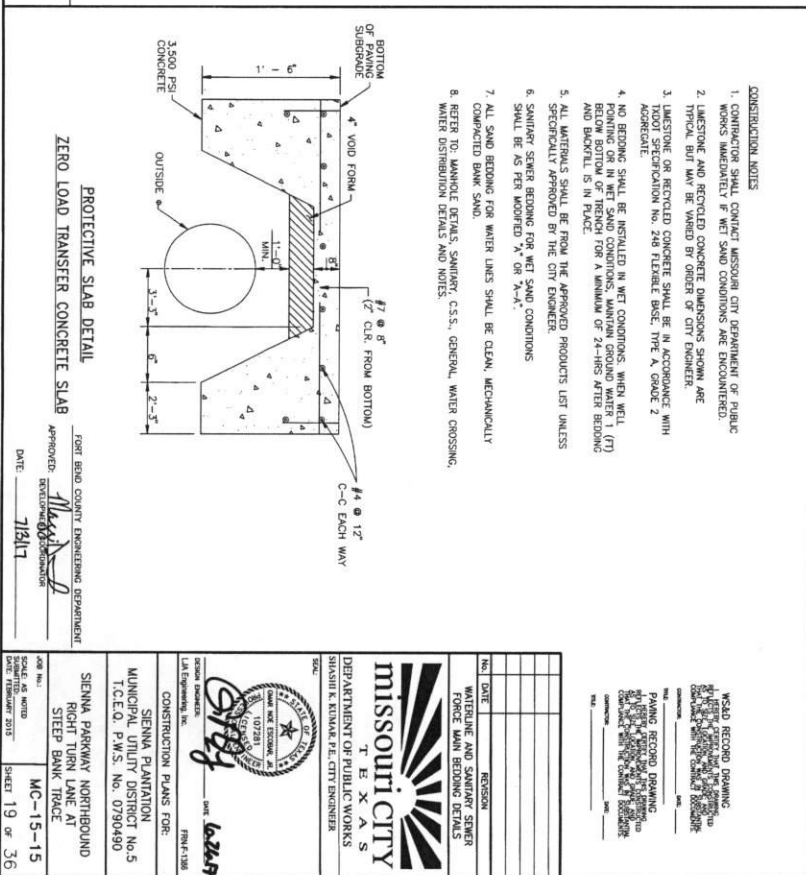
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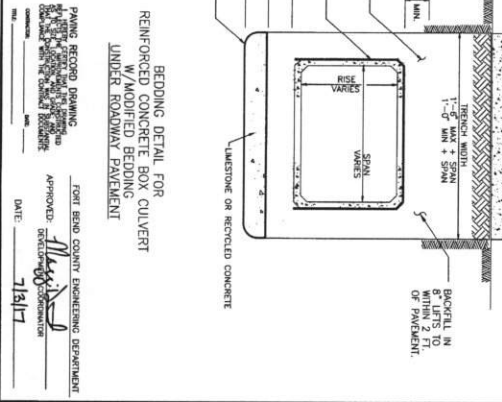
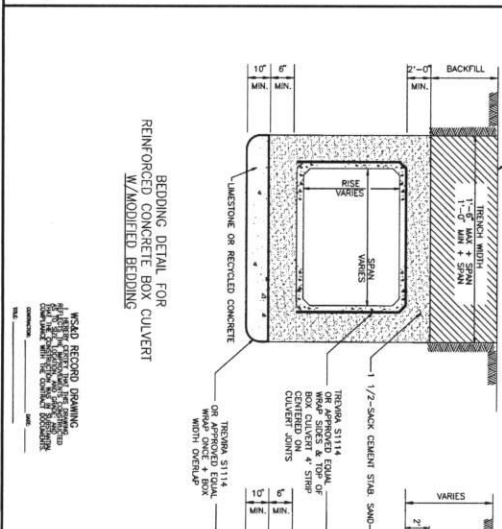
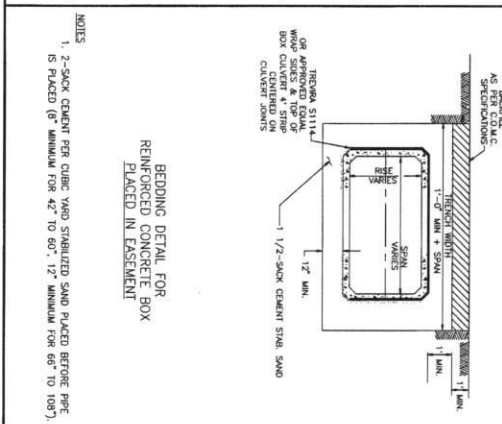
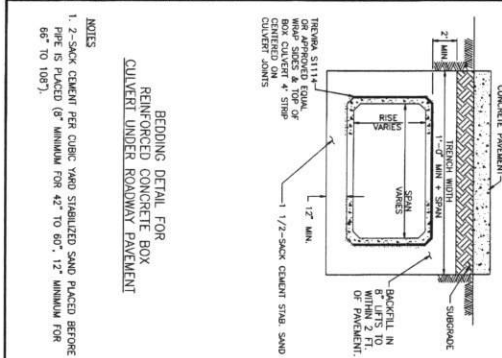
REFER TO:

1. GENERAL NOTES
2. STORM SEWER NOTES

FORT BEND COUNTY ENGINEERING DEPARTMENT
APPROVED: *[Signature]*
DATE: 7/6/17

<p>STORM SEWER CONSTRUCTION DETAILS</p>	<p>MC-8-15</p>
<p>CONSTRUCTION PLANS FOR: SIENNA PLANTATION MUNICIPAL UTILITY DISTRICT No.5 I.C.E.O. P.W.S. No. 0790490</p>	<p>SIENNA PARKWAY NORTHBOUND RIGHT TURN LANE AT STEEP BANK TRACE</p>
<p>DATE: 7/6/17</p>	<p>SHEET 18 OF 36</p>



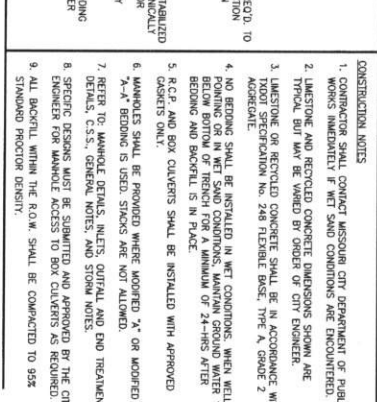
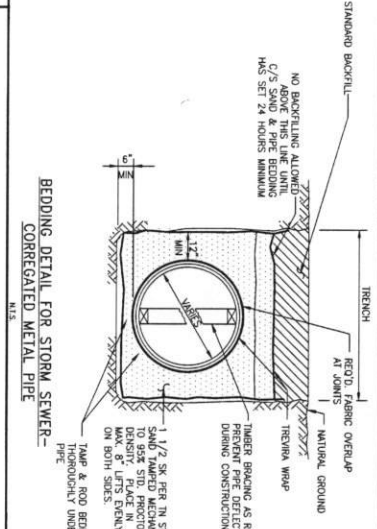
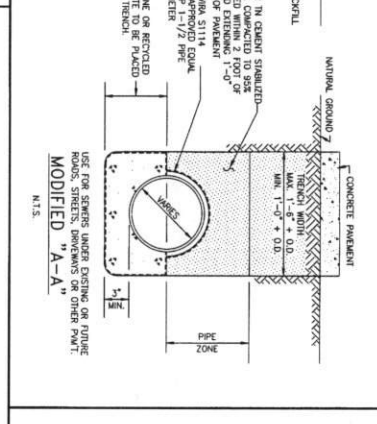
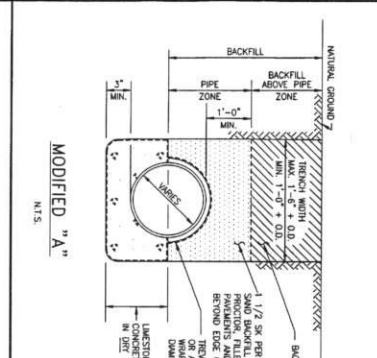


MISSOURI CITY
 DEPARTMENT OF PUBLIC WORKS
 STORM SEWER PIPE BEDDING AND BACKFILL DETAILS - MC-16-15

DESIGNED BY: [Signature]
 CHECKED BY: [Signature]
 DATE: 7/13/17

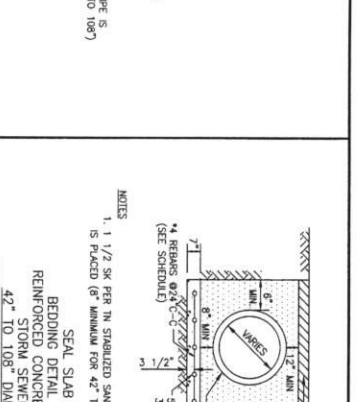
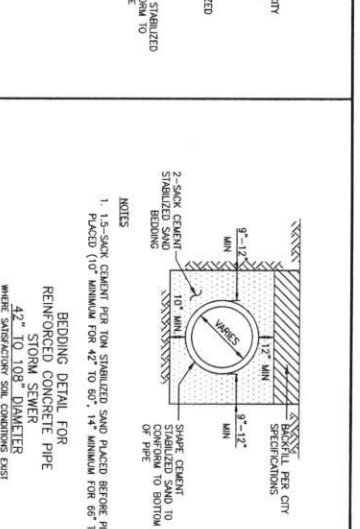
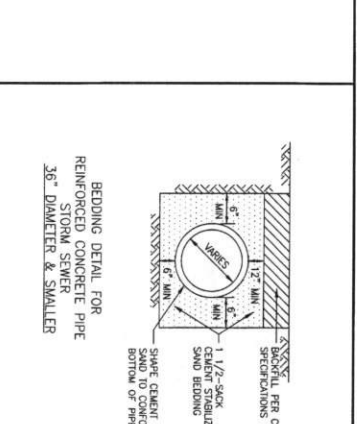
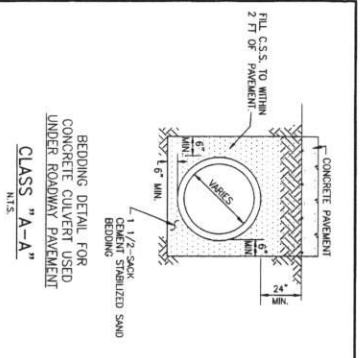
CONSTRUCTION PLANS FOR:
 SIENNA PARKWAY NORTHBOUND
 RIGHT TURN LANE AT
 STEEP BANK TRACE

PROJECT NO.: MC-16-15
 SHEET 20 OF 36



CONSTRUCTION NOTES

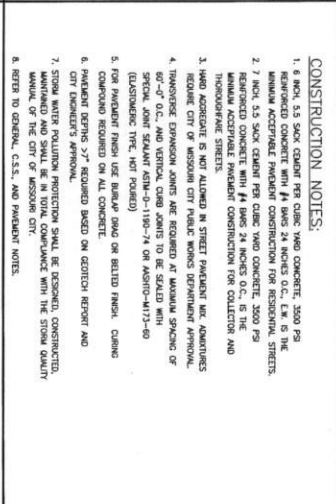
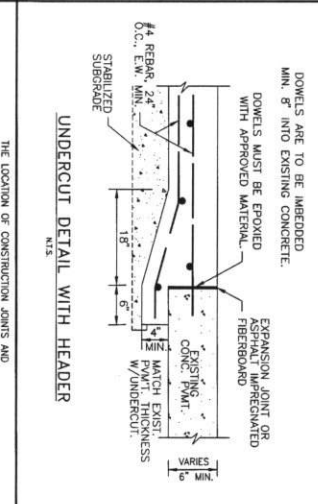
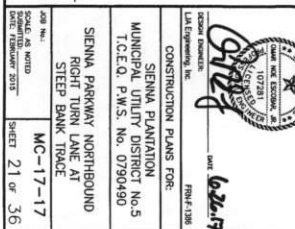
- CONTRACTOR SHALL CONTACT MISSOURI CITY DEPARTMENT OF PUBLIC WORKS IMMEDIATELY IF ANY SAND CONDITIONS ARE ENCOUNTERED.
- LASTSTONE AND RECYCLED CONCRETE DIMENSIONS SHOWN ARE TYPICAL BUT MAY BE VARIED BY ORDER OF CITY ENGINEER.
- LASTSTONE OR RECYCLED CONCRETE SHALL BE IN ACCORDANCE WITH MOST SPECIFICATION NO. 248 FLEXIBLE BASE, TYPE A, GRADE 2.
- NO BEDDING SHALL BE INSTALLED IN WET CONDITIONS, WHEN WELL BELOW BOTTOM OF TRENCH, MINIMUM GROUND WATER 1' (7") BELOW BOTTOM OF TRENCH.
5. C.P. AND BOX CULVERTS SHALL BE INSTALLED WITH APPROVED CASSETS ONLY.
- MANHOLES SHALL BE PROVIDED WHERE MODIFIED "X" OR MODIFIED "A-A" BEDDING IS USED. SHOULDS ARE NOT ALLOWED.
- REFER TO MANHOLE DETAILS, INLETS, OUTFALL AND END TREATMENT DETAILS, C.S.S., GENERAL NOTES, AND STORM NOTES.
- SPECIFIC DESIGNS MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER FOR MANHOLE ACCESS TO BOX CULVERTS AS REQUIRED.
- ALL BACKFILL WITHIN THE R.O.W. SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.

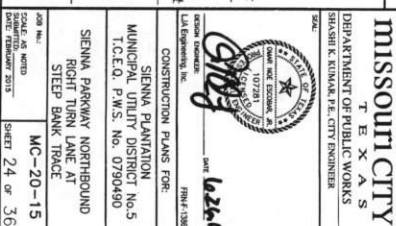


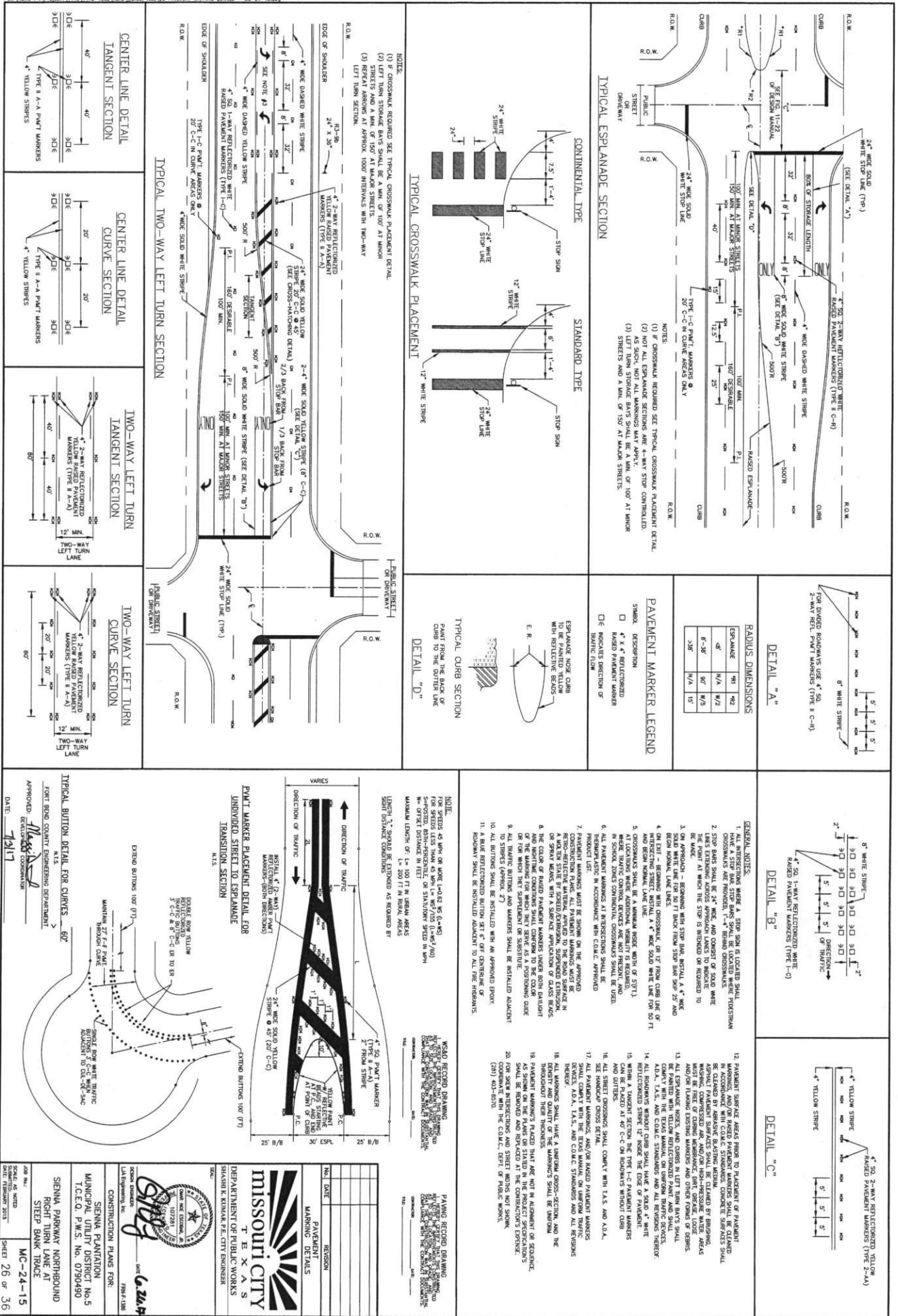
SEAL SLAB

1. 1/2 SACK PER IN. IN CEMENT STABILIZED SAND PLACED BEFORE PIPE IS PLACED (8" MINIMUM FOR 42" TO 60", 12" MINIMUM FOR 66" TO 108").

2. 1/2 SACK PER IN. IN CEMENT STABILIZED SAND PLACED BEFORE PIPE IS PLACED (8" MINIMUM FOR 42" TO 60", 12" MINIMUM FOR 66" TO 108").

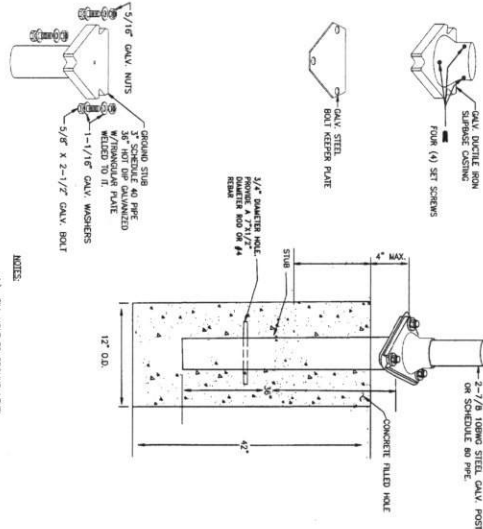
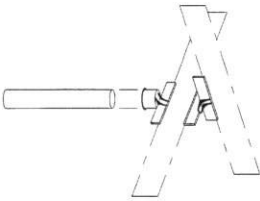






DETAIL OF STANDARD TRIANGULAR SLIPBASE INSTALLATION

SIGN MOUNTING DETAIL NTS



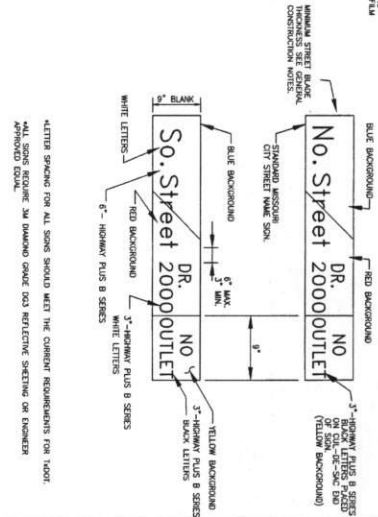
- NOTES:
1. FILL HOLE TO GROUND LEVEL.
 2. PRESS BASE INTO CENTER OF CONCRETE.
 3. LEVEL BASE 2" ABOVE GROUND.
 4. TIGHTEN THROUGH NUTS BETWEEN 60 TO 80 FT/LB MAX.

* 3M DIAMOND GRADE DOES REFLECTIVE SHEETING MATERIAL. BE REQUIRED BY MANUFACTURER WHEN USED IN ELECTRICITY FIRM SHEET 1170 SHEETING. SEE COLOR CHART BELOW.

COLOR	COLOR CODE
BLUE	1172C
RED	1172C
WHITE	4090A
YELLOW	4091A

- NOTES:
1. COMPARISON TO VARY SHEETING COLORS.
 2. COMPARISON IS REQUIRED TO FOLLOW ALL MANUFACTURER'S INSTRUCTIONS FOR SHEETING PRODUCTS (UNLESS DIRECTED OTHERWISE BY INCHMENT).
 3. COMPARISON IS REQUIRED TO MEET REQUIREMENTS CONTROL DEVICES (PAINTED).

DETAIL OF STANDARD STREET NAME SIGN



ALWAYS SPACING FOR ALL SIGNS SHOULD MEET THE CURRENT REQUIREMENTS FOR 1400T MATERIAL. SEE 3M DIAMOND GRADE DOES REFLECTIVE SHEETING OR EQUIPMENT MATERIALS.

SIGN I.D. TAG DETAIL

NOTICE TO BE AFFIXED TO THE BACK OF ALL MOUITY STREET SIGNS

CITY OF MISSOURI CITY

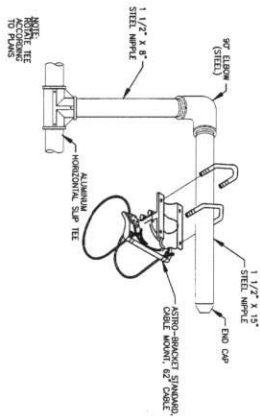
ANY PERSON WHO ATTEMPS TO, OR IN FACT ALTERS, DEFACES, INJURES, KNOCKS, DOWN OR REMOVES ANY OFFICIAL TRAFFIC CONTROL DEVICE WILL BE PROSECUTED IN ACCORDANCE TO THE TEXAS CRIMINAL LAWS PENAL CODE SECTION 29.03.

MONTH: 1 2 3 4 5 6 7 8 9 10 11 12

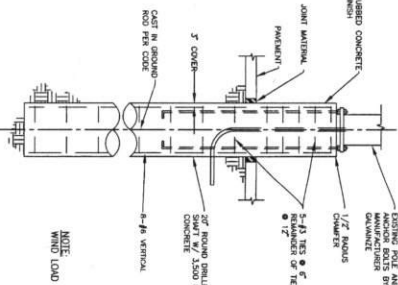
YEAR: 9 0 1 2 3 4 5 6 7 8 9

MISSOURI CITY

ASTRO BRACKET CABLE MOUNT DETAIL



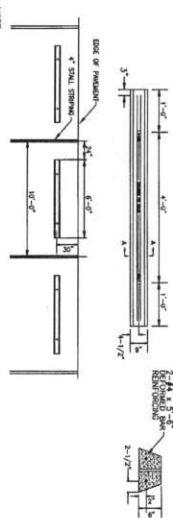
LIGHT POLE BASE DETAIL



NOTE: PER SECTION 1109 OF THE INTERNATIONAL BUILDING CODE 110 M.P.H. BASIC WIND SPEED.

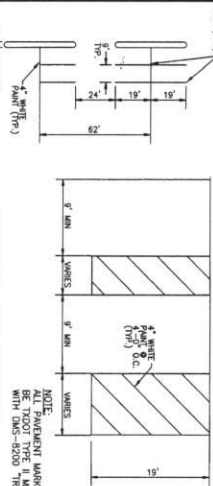
APPROVED: *Max*
 DATE: 7/19/17

CONCRETE WHEEL STOPS

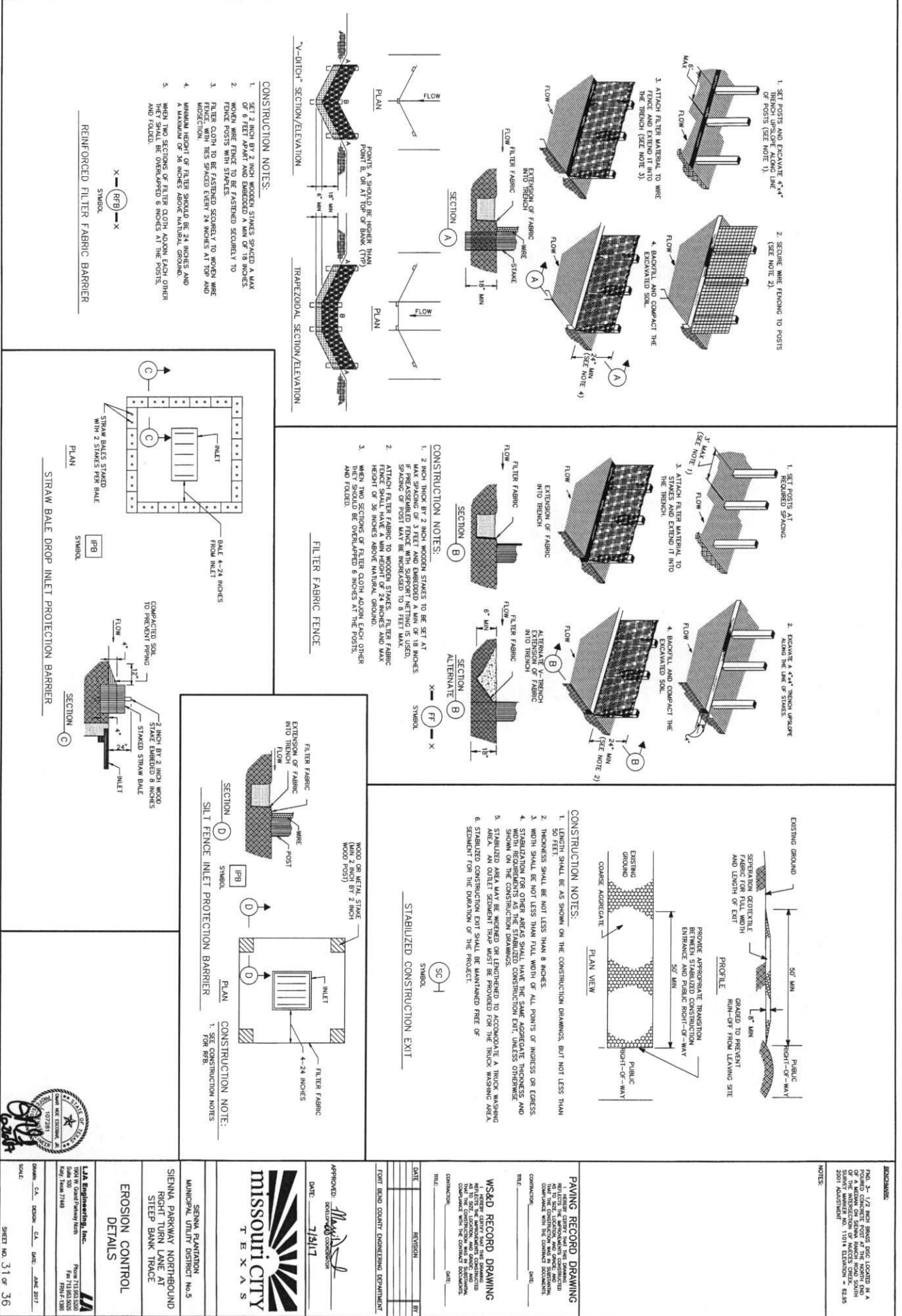


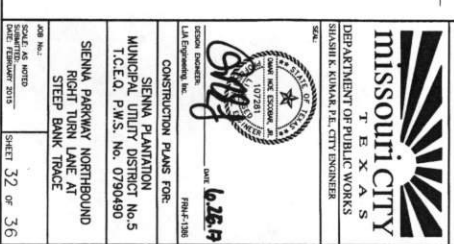
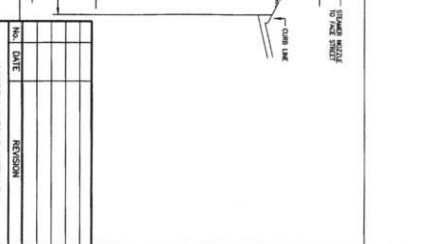
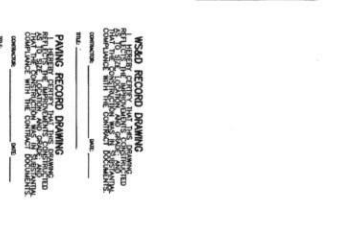
- GENERAL CONSTRUCTION NOTES:
1. SUPPORT WHEEL SHOULD NOT BE PROSECUTED FROM INDEPENDENT WORKMAN.
 2. INITIAL ONE STREET NAME SIGN APPROXIMATE 2' FROM POLE ABOVE ON-COMING TRAFFIC ON EACH TRAFFIC SIGNAL SPAN.
 3. THE FIRST LETTER OF EACH WORD SHALL BE UPPER CASE. SUBSEQUENT LETTERS SHALL BE LOWER CASE. ALL HORIZONTAL LETTERS FOR DOUBLE "T" SHALL BE UPPER CASE. STREET SURFACES & "NO OUTLET" SHALL BE UPPER CASE.
 4. ALL SHEETING SHALL BE "DIAMOND GRADE" OR APPROVED EQUIV.
 5. USE APPROVED BLANK ONE.
 6. BRUSH WITH 2" SIZES = 200"

PARKING LOT STRIPING



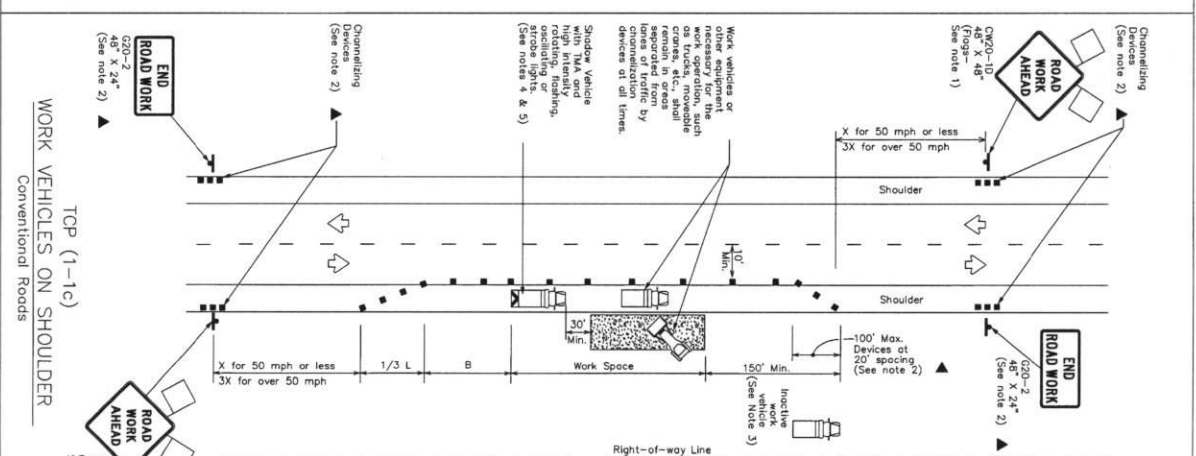
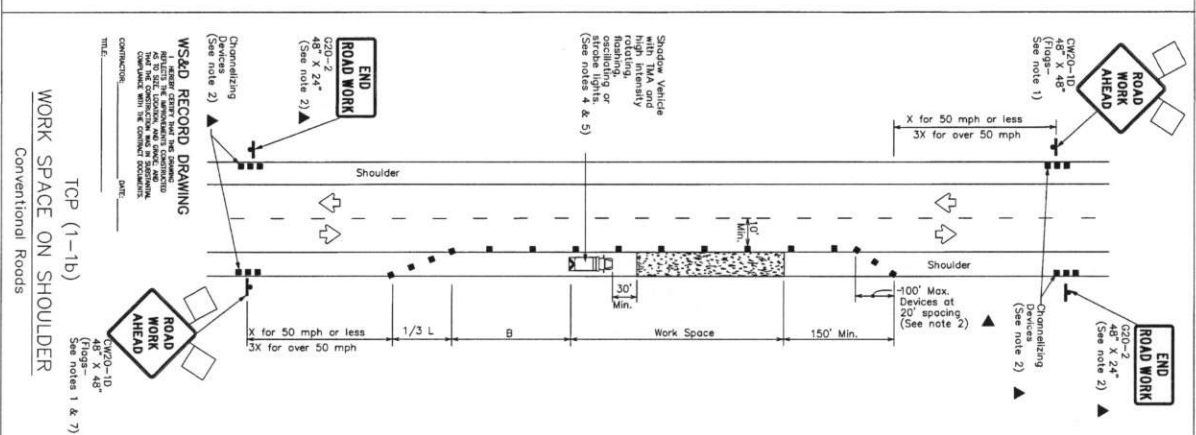
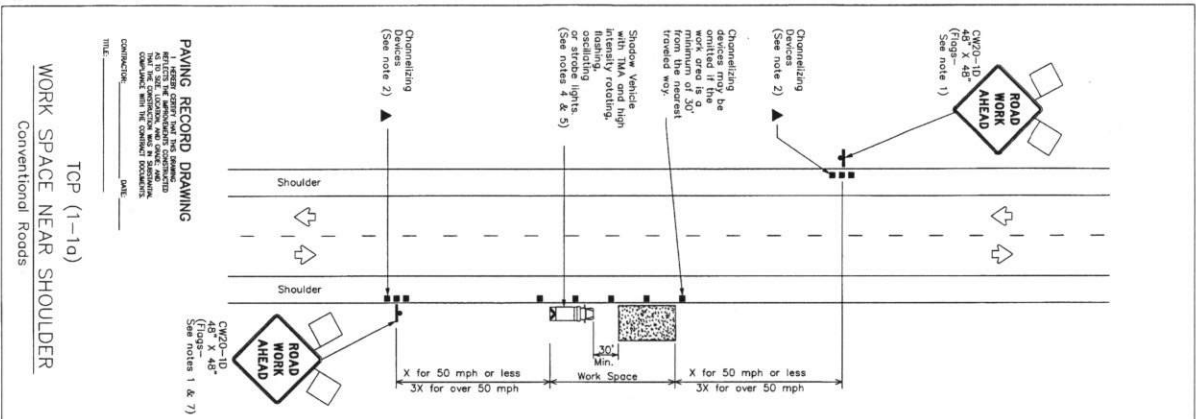
NOTE: ALL PARKING MARKINGS SHOULD BE PAINTED WITH DMS-5200 TRAFFIC PAINT.





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

DATE:
FILE:



LEGEND	
	Type 3 Barricade
	Heavy Work Vehicle
	Trailer Mounted Pushing Arrow Board
	Sign
	Flag
	Chemicalizing Devices
	Truck Mounted Attenuator (TMA)
	Portable Chemoscope Message Sign (PCMS)
	Traffic Flow
	Flagger

[illegible]

Toper lengths have been rounded off.
L=Length of Toper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

```
L=Length of Topo(t+1)
```

L=Length of Taper(Ft) W=Width of Offset(Ft) S=Posted Speed(MPH)

GENERAL NOTES

1. Flaps attached to signs where signs are REQUIRED, except those signs that are REQUIRED to be illuminated.
2. All traffic control devices illustrated on REQUIRED, except those devices that are REQUIRED to be illuminated.
3. Signs, or for routine maintenance work, when approved by the Engineer.
4. Inactive work vehicles or other equipment should be parked near the work area.
5. A Stop sign should be placed at the point where the sign can be positioned 30 to 100 feet in advance of the zone of crew exposure without obstructing the performance or quality of the work. If workers are no longer visible, the sign should be moved forward.
6. Signs placed near road or work conditions require the traffic control sign to be substituted for the Stop sign and TMA.
7. Additional Stop Vehicle with TMA may be positioned off the paved surface, next to those signs in order to protect slow work spaces.
8. The (C-20) shoulder work on divided highway, expressways and freeways.
9. The (C-21) "SHOULDER WORK" sign may be used in place of C-20-10 "ROAD WORK AHEAD" sign for shoulder work on conventional roadways.

For construction or maintenance contract work, specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for Item 502, Barricades, Signs and Traffic Handling.



Traffic Operations Division

TRAFFIC CONTROL PLAN
CONVENTIONAL ROAD
SHOULDER WORK

TCP(1-1)-12

② H001	December 1985							
	MEMORANDUM							
	7-94		2-12					
	8-55							
	1-97							
	4-98							
	ISS. TRUST	CAL. TRUST	ONE TRUST	CAL. TRUST				
	COART							
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	COUNTRY							
	SHEET NO.							
	SPAWN MISSOURI CITY, TX 33 OF 36							
151								

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[illegible]

Reduced speeds should only be posted in the vicinity of work activity and not throughout the entire project. Regulatory work zone speed signs (R2-1) shall be removed or covered during periods when they are not needed.

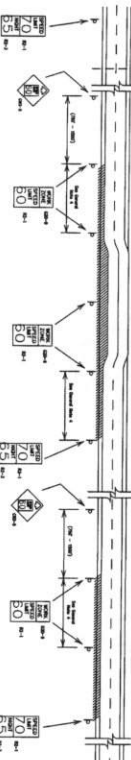
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Figure 1 consists of two diagrams, (a) and (b), illustrating the proposed system. Diagram (a) shows a schematic of a road intersection with a central intersection area and four approach lanes. It includes a 'Proposed System' with a 'Control Unit' and 'Sensors' at the intersection, and 'Approach Lanes' with 'Sensors' and 'Control Units'. Diagram (b) shows a similar schematic but with a different configuration of the 'Proposed System' and 'Approach Lanes'.

[illegible]

12
 PRECAST AND CONSTRUCTION
 PROJECT LIMIT
 STANDARD
 BC(2)-

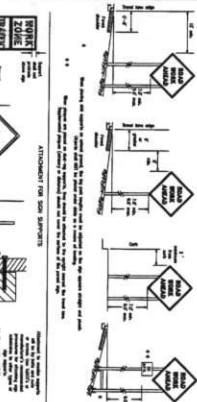
[illegible][illegible][illegible]

TABLE 1. The effect of the concentration of the monomer on the polymerization of 2-vinyl naphthalene in the presence of SnCl_4 in CH_2Cl_2 at -78°C for 24 h

Monomer concentration, mol/L	Polymer yield, %	η_{inh} , dl/g	M_n , g/mol	M_w/M_n
0.05	50	0.12	1000	1.05
0.10	80	0.18	1000	1.05
0.20	90	0.25	1000	1.05
0.30	95	0.30	1000	1.05
0.40	98	0.35	1000	1.05
0.50	99	0.40	1000	1.05

12
 PRECAST AND CONSTRUCTION
 PROJECT LIMIT
 STANDARD
 BC(2)-

DATE _____

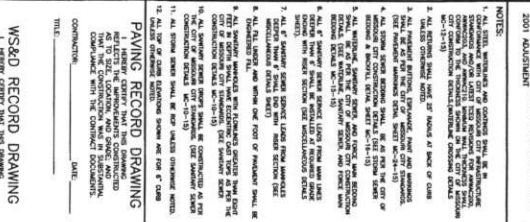
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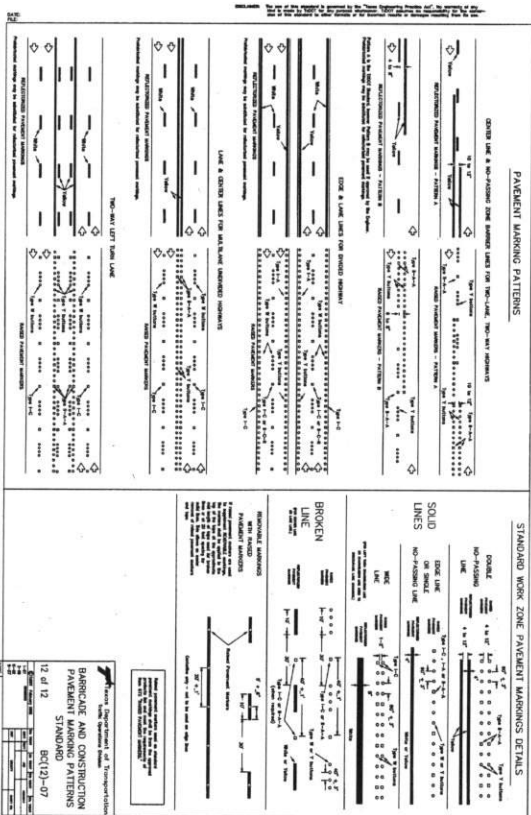
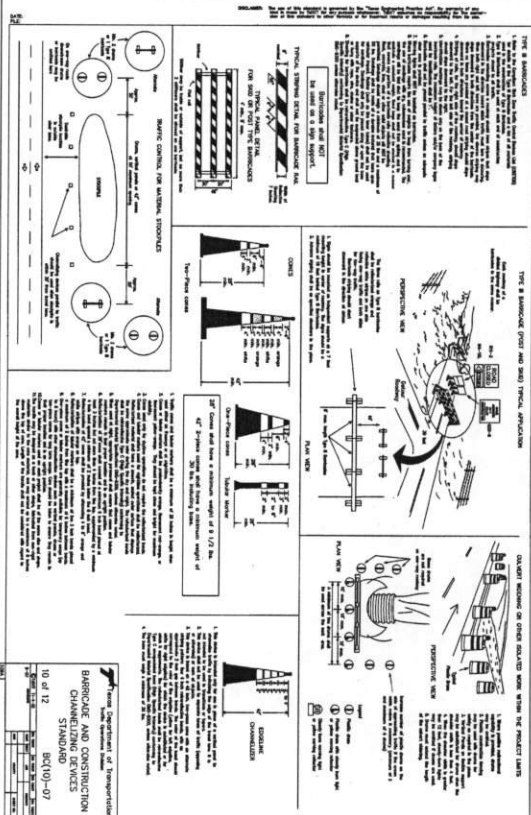
MISSOURI CITY

SHIL K. KUMAR, P.E., CITY ENGINEER
SIENNA PLANTATION
MUNICIPAL UTILITY DISTRICT No.5

BARRICADE AND
INSTRUCTION STANDARDS

FORM 1041-100





100%

SHEET NO. 36 of 31