

Permit Administrator

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

Date

	Right of Way Permit
X	Commercial Driveway Permi

Permit No: 2017-15329

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 Bond No: Amount: posted. Performance bond submitted. Bond No: Amount: \$10,000.00 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. D.



REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

Fort Bend County Engineering Department 301 Jackson Suite 401

301 Jackson Suite 401 Richmond, Texas 77469 281.633.7500 Permits@fortbendcountytx.gov

	Right of Way Permit
Х	Commercial Driveway Permit
Dorr	nit No: 2017-15320

Permit No: 2017-15329						
Applicant: A&M Contractors, Inc./CTC Contractors Job Location Site: 11020 Harlem Road , Richmond, TX 77406 Bond No. Date of Bond: 7/13/2017 Amount: \$10,000.00						
	cant came to make use of ce				-	
Roads, Streets, Commissioners Texas, of the M	Highways, and Drainage Ditcl Court of Fort Bend County, T inutes of the Commissioners h Chapter 181, Vernon's Texa	hes in Fort Bend Co exas," as passed by Court of Fort Bend	unty, Texas, L the Commiss County, Texas	Inder the Jurisdiction of the ioners Court of Fort Bend Co	unty,	
grounds 2. Written I	of review by the Commission for job shutdown. notices are required: a. 48 hours in advance of complete the construction is complete the construction of the construction is construction in the construction of the construction o	construction start up mpleted and ready overnmentOnline.c	o, and for final inspe org portal.	ection, submit notification to		
Commissioner _ notice of said al	y of <u>September</u> , <u>2017</u> , Upon I pove purpose is hereby acknobe be placed on record accordin	, duly put and carrion wheel and carrion with the Co	ed, it is ORDEI mmissioners	RED, ADJUDGED AND DECRE Court of Fort Bend County, T	ED that said	
Signature		Prese	ented to Com	missioners Court and approv	ed.	
By: Chin County Er	4 O. Af ngineer	Date	Recorded	Comm. Court No		
N/A		Clerk	of Commission	oners Court		
By:		Ву:				

Deputy

Drainage District Engineer/Manager

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 N	
KNOW ALL	MEN BY THESE PRESENTS:
NIVOW ALL I	ALNOT THESE PRESENTS.
virtue of the laws of the and whose principal office of Texas, authorized to ac and whose eld and firmly bound unto, ull sum of Five Thousand States of America, to be pao which payment well and to	whose (713)468-1480 alled the Principal, and Merchants Bonding Company (Mutual), a state of Iowa and authorized to do an indemnifying is located at 6700 Westown Parkway, West Des Moines, IA 50266, cept service in all suits and actions brought within said state is address is 9500 Arboretum Boulevard, Suite 100, Austin, TX 78,759 Robert E. Hebert, County Judge of Fort Bend County, Texas, Dollars (\$5,000.00) d to said Robert E. Hebert, County Judge of Fort Bend County, ruly to be made and done, we, the undersigned, bind ourselves rs, assigns, and legal representatives, jointly and severally, by
epairing one or more cable mercial driveway and medi- risdiction of the Commiss led on the <u>1st</u> of <u>Decembe</u> of, Texas, regulating same,	VHEREAS, the above bounden principal contemplates laying, s, conduits, and/or pole lines in, under, across and/or along an openings or modifications in the County of Fort Bend, and oners' Court of Fort Bend County, Texas, pursuant to the r, A.D. 1980, recorded in Volume 13, of the Commissioners' which Commissioners' Court order is hereby referred to and ein;
pal desires to provide Fort mmercial driveway and me	Bend County with a performance bond covering all such cable, dian openings or modifications;
the laying, construction, m ls, streets and highways, c of Texas, under the jurisdic n minimum requirements a ly said principal done and p reimburse Fort Bend Coun	shall faithfully perform all its cable, conduit and/or pole line aintenance and/or repair of cables, conduits and/or pole lines) commercial driveway and median openings or modifications in tion of the Commissioners Court of Fort Bend County, Texas, and conditions of the above mentioned Commissioners' Court performed, at the time and in the manner therein specified, and many, all loss and damages which Fort Bend County may sustain then this obligation shall be null and void, otherwise to remain
County Courthouse in the	County of Fort Bend and State of Texas.
time Fort Bend County dee	ns itself insecure under this bond, it may require further and/or
day ofJune	, 20 <u>17</u> .
	A & M Contractors, Inc. PRINCIPAL BY Merchants Bonding Company (Mutual) SURETY
	know ALL Mars, Inc.



Know All Persons By These Presents, that MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., both being corporations of the State of Iowa (herein collectively called the "Companies") do hereby make, constitute and appoint, individually,

Misty Witt

their true and lawful Attorney(s)-in-Fact, to sign its name as surety(ies) 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.

This Power-of-Attorney is granted and is signed and sealed by facsimile under and by authority of the following By-Laws adopted by the Board of Directors of Merchants Bonding Company (Mutual) on April 23, 2011 and amended August 14, 2015 and adopted by the Board of Directors of Merchants National Bonding, Inc., on October 16, 2015.

"The President, Secretary, Treasurer, or any Assistant Treasurer or any Assistant Secretary or any Vice President shall have power and authority to appoint Attorneys-in-Fact, and to authorize them to execute on behalf of the Company, and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof."

"The signature of any authorized officer and the seal of the Company may be affixed by facsimile or electronic transmission to any Power of Attorney or Certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the Company, and such signature and seal when so used shall have the same force and effect as though manually fixed."

In connection with obligations in favor of the Florida Department of Transportation only, it is agreed that the power and aut hority hereby given to the Attorney-in-Fact includes any and all consents for the release of retained percentages and/or final estimates on engineering and construction contracts required by the State of Florida Department of Transportation. It is fully understood that consenting to the State of Florida Department of Transportation making payment of the final estimate to the Contractor and/or its assignee, shall not relieve this surety company of any of its obligations under its bond.

In connection with obligations in favor of the Kentucky Department of Highways only, it is agreed that the power and authority hereby given to the Attorney-in-Fact cannot be modified or revoked unless prior written personal notice of such intent has been given to the Commissioner-Department of Highways of the Commonwealth of Kentucky at least thirty (30) days prior to the modification or revocation.

In Witness Whereof, the Companies have caused this instrument to be signed and sealed this 13th day of

June

. 2017 .

TIONAL STORY OF THE STANDING COMPONED TO THE S

MERCHANTS BONDING COMPANY (MUTUAL)
MERCHANTS NATIONAL BONDING, INC.

President

STATE OF IOWA COUNTY OF DALLAS ss.

On this this 13th day of June , 2017 , before me appeared Larry Taylor, to me personally known, who being by me duly swom did say that he is President of MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC.; and that the seals affixed to the foregoing instrument are the Corporate Seals of the Companies; and that the said instrument was signed and sealed in behalf of the Companies by authority of their respective Boards of Directors.



ALICIA K. GRAM

Commission Number 767430 My Commission Expires April 1, 2020

Notary Public

(Expiration of notary's commission does not invalidate this instrument)

I, William Warner, Jr., Secretary of MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., 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 and effect and has not been amended or revoked.

In Witness Whereof, I have hereunto set my hand and affixed the seal of the Companies on this 13th day of

June

, 2017 .

STORPORA BOUNG COMPORATIONAL STANK OF THE DING COMPORATIONAL S

Segretary

William Harrer Js.

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 NO

			Saled An
THE STATE OF TEXAS	§	I/N/O/M/ ALL	MEN DV THESE DESCRIPTION
COUNTY OF FORT BEND	§	KNOW ALL	MEN BY THESE PRESENTS:
Whose officer residing in the S Keenan Lehmar	nd by virtue of cas, and whos state of Texas and held and fi	f the laws of the e principal office , authorized to a and whos irmly bound unto	whose (713)468-1480 called the Principal, and Merchants Bonding Company (Mutual), a and authorized to do an indemnifying is located at 6700 Westown Parkway, West Des Moines, IA 50266, ccept service in all suits and actions brought within said state is e address is 9500 Arboretum Boulevard, Suite 100, Austin, TX 78,759, Robert E. Hebert, County Judge of Fort Bend County, Texas, Dollars (\$5,000.00)
current, lawful money of the Ui Texas, or his successors in off	nited States of fice, to which p	America, to be payment well and	aid to said Robert E. Hebert, County Judge of Fort Bend County, truly to be made and done, we, the undersigned, bind ourselves ors, assigns, and legal representatives, jointly and severally, by
roads, streets and highways, the State of Texas, under the Commissioners' Court order a	commercial dr commercial dr ne jurisdiction adopted on the ounty, Texas,	ine or more cab riveway and med of the Commiss a <u>1st</u> of <u>Decemb</u> regulating same	WHEREAS, the above bounden principal contemplates laying, les, conduits, and/or pole lines in, under, across and/or along ian openings or modifications in the County of Fort Bend, and sioners' Court of Fort Bend County, Texas, pursuant to the er, A.D. 1980, recorded in Volume 13, of the Commissioners', which Commissioners' Court order is hereby referred to and trein;
AND WHEREAS, the conduit and/or pole line activity	principal desire y, commercial	es to provide For driveway and me	Bend County with a performance bond covering all such cable, edian openings or modifications;
in, under, across and/or along the County of Fort Bend and S pursuant to and in accordance order set forth and specified to shall pay over and make good	ed to the laying roads, streets state of Texas, with minimur be by said pring and reimburse	g, construction, re and highways, under the jurisdi m requirements ncipal done and e Fort Bend Coul	al shall faithfully perform all its cable, conduit and/or pole line maintenance and/or repair of cables, conduits and/or pole lines) commercial driveway and median openings or modifications in ction of the Commissioners Court of Fort Bend County, Texas, and conditions of the above mentioned Commissioners' Court performed, at the time and in the manner therein specified, and inty, all loss and damages which Fort Bend County may sustain then this obligation shall be null and void, otherwise to remain
This bond is payable a	at the County (Courthouse in the	e County of Fort Bend and State of Texas.
It is understood that at additional bonds of the principa	any time Fort I al.	Bend County dea	ems itself insecure under this bond, it may require further and/or
EXECUTED this 13th	1 day of	June	_ , 20_17
			A & M Contractors, Inc. PRINCIPAL BY
			Merchants Bonding Company (Mutual) SURETY
			BY Misty Witt-Attorney-in-Fact



Know All Persons By These Presents, that MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., both being corporations of the State of Iowa (herein collectively called the "Companies") do hereby make, constitute and appoint, individually,

Misty Witt

their true and lawful Attorney(s)-in-Fact, to sign its name as surety(ies) 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.

This Power-of-Attorney is granted and is signed and sealed by facsimile under and by authority of the following By-Laws adopted by the Board of Directors of Merchants Bonding Company (Mutual) on April 23, 2011 and amended August 14, 2015 and adopted by the Board of Directors of Merchants National Bonding, Inc., on October 16, 2015.

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"The signature of any authorized officer and the seal of the Company may be affixed by facsimile or electronic transmission to any Power of Attorney or Certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the Company, and such signature and seal when so used shall have the same force and effect as though manually fixed."

In connection with obligations in favor of the Florida Department of Transportation only, it is agreed that the power and aut hority hereby given to the Attorney-in-Fact includes any and all consents for the release of retained percentages and/or final estimates on engineering and construction contracts required by the State of Florida Department of Transportation. It is fully understood that consenting to the State of Florida Department of Transportation making payment of the final estimate to the Contractor and/or its assignee, shall not relieve this surety company of any of its obligations under its bond.

In connection with obligations in favor of the Kentucky Department of Highways only, it is agreed that the power and authority hereby given to the Attorney-in-Fact cannot be modified or revoked unless prior written personal notice of such intent has been given to the Commissioner-Department of Highways of the Commonwealth of Kentucky at least thirty (30) days prior to the modification or revocation.

In Witness Whereof, the Companies have caused this instrument to be signed and sealed this 13th day of

June , 2017 .

MERCHANTS BONDING COMPANY (MUTUAL) MERCHANTS NATIONAL BONDING, INC.

STATE OF IOWA COUNTY OF DALLAS ss.

On this this 13th day of June , 2017 , before me appeared Larry Taylor, to me personally known, who being by me duly sw did say that he is President of MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC.; and that the 2017 , before me appeared Larry Taylor, to me personally known, who being by me duly sworn seals affixed to the foregoing instrument are the Corporate Seals of the Companies; and that the said instrument was signed and sealed in behalf of the Companies by authority of their respective Boards of Directors.



ALICIA K. GRAM

Commission Number 767430 My Commission Expires April 1, 2020

Notary Public

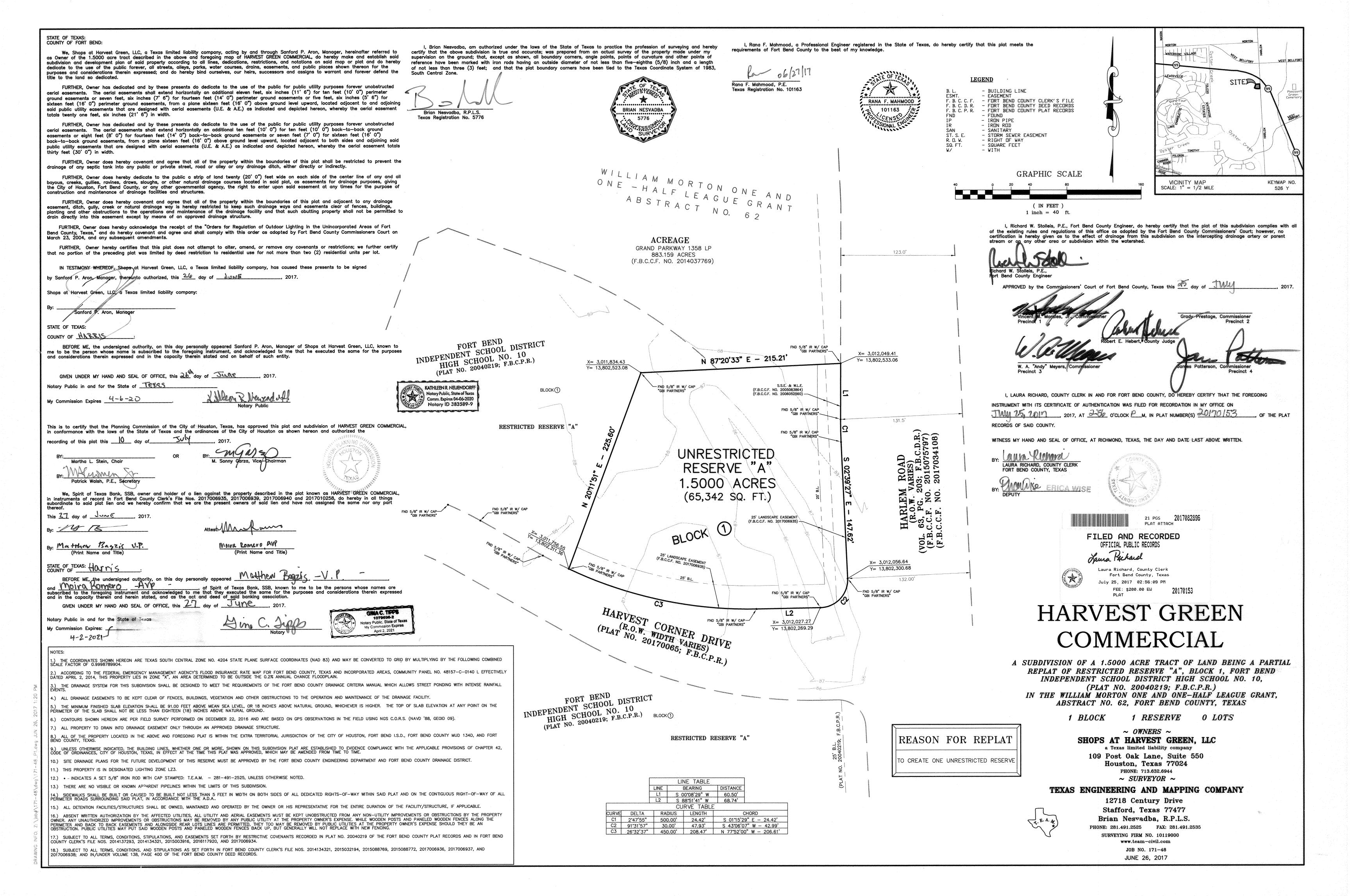
(Expiration of notary's commission does not invalidate this instrument)

I, William Warner, Jr., Secretary of MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., 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 and effect and has not been amended or revoked.

In Witness Whereof, I have hereunto set my hand and affixed the seal of the Companies on this 13th day of

, 2017 .

William Harner Is

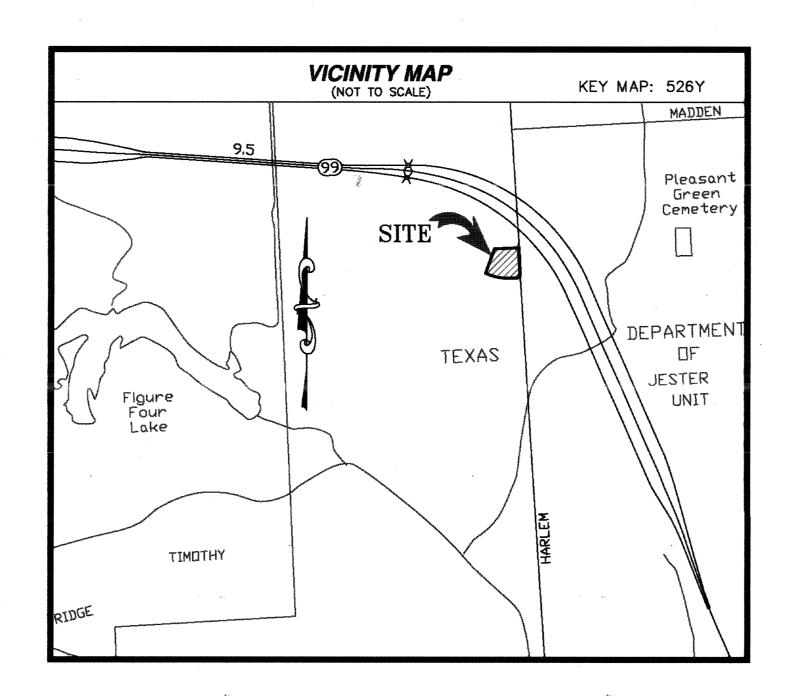


PROPOSED WATER, SANITARY, DRAINAGE & PAVING CONSTRUCTION PLANS

TO SERVE

SHOPS AT HARVEST GREEN

11020 HARLEM ROAD RICHMOND, TX 77406 **JUNE 2017**



	INDEX OF DRAWINGS	SHEET NO.
	COVER SHEET	- C1
	SITE DEMOLISION	C2
	SITE DIMENSION PLAN	C3
	SITE DRAINAGE & GRADING PLAN	C4
	SITE PAVING PLAN	C5
	STORMWATER POLLUTION PREVENTION PLAN	C6
	SITE UTILITIES PLAN	C7
	CONSTRUCTION NOTES & DETAILS	C8
	CONSTRUCTION NOTES & DETAILS	CŠA ~
	TRAFFIC CONTROL PLAN	
	PLAT - HARVEST GREEN COMMERCIAL	
1		

FORT BEND COUNTY ENGINEER
Ril g stryle PE, PTOE RICHARD W. STOLLEIS, P.E.
RICHARD W. STOLLEIS, P.E.
7/17/15
7/17/17
DATE
THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT COMMENCED IN (1) YEAR
FROM DATE OF APPROVAL.
APPROVAL IS IMPLIED FOR IMPROVEMENTS WITHIN FORT BEND COUNTY
RIGHTS-OF-WAY ONLY. UTILITY LINES APPROVED AS TO LOCATION ONLY.
AUTHORIZATION IS VALID FOR 1 YEAR.
APPROVED:
DEVELOPMENT COORDINATOR
3/17/17
DATE

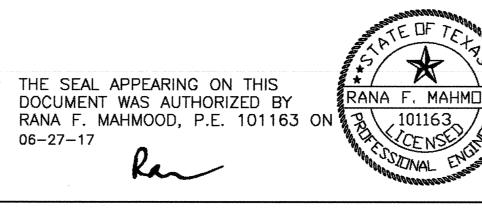
L			
NO.	REVISIONS	DATE	Π
Λ	ADDENDUM - REVISED PER FORT BEND ENGINEERING AND ARC COMMENTS	06-27-17	
			I
			I

HEIGHTS ENGINEERING LLC TEXAS FIRM F-12333 **CONSULTING ENGINEERS** 12603 SOUTHWEST FWY, STE 285, STAFFORD, TX 77477 PHONE: (832) 999-4764 FAX: (281) 274-9153

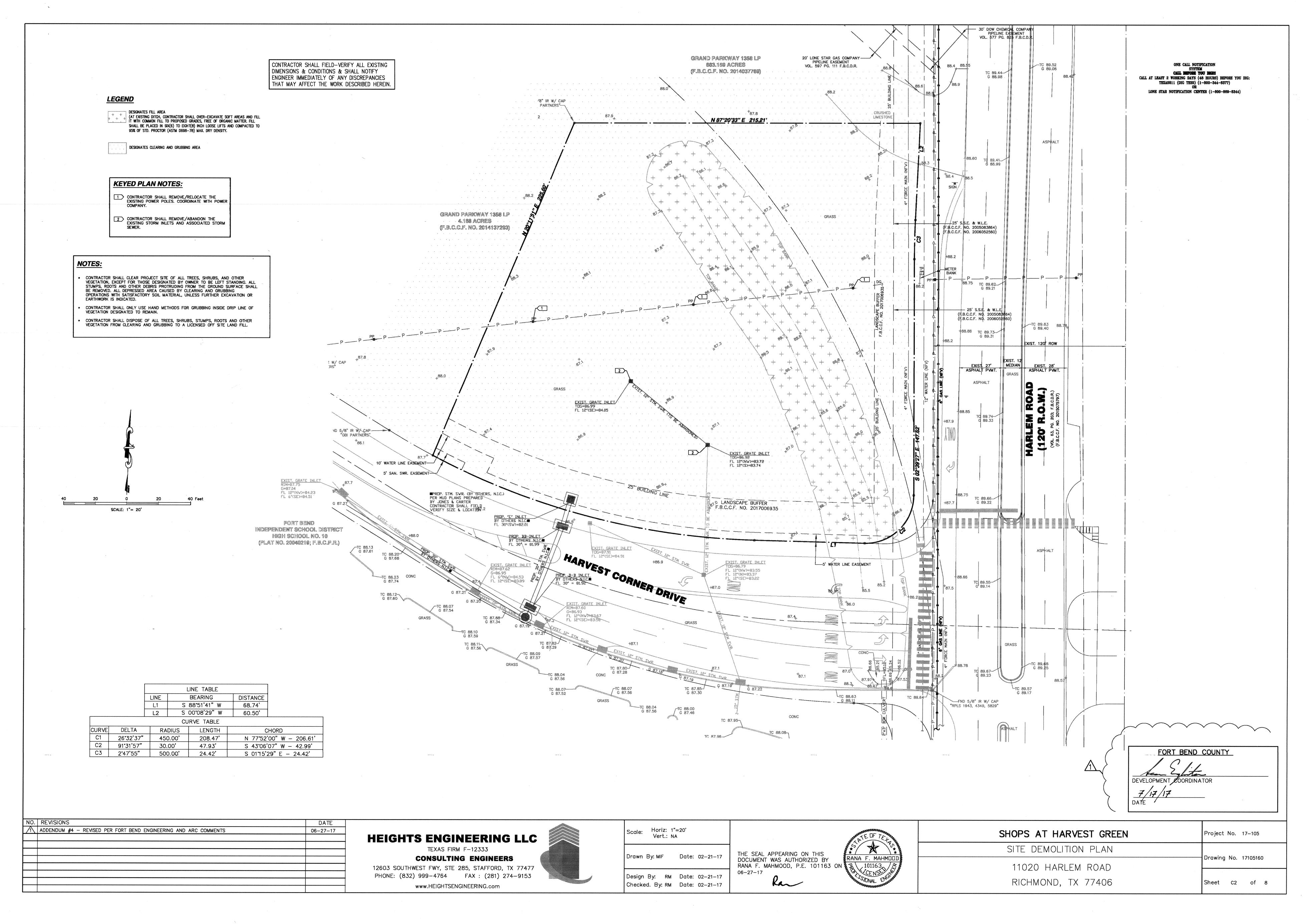
www.HEIGHTSENGINEERING.com

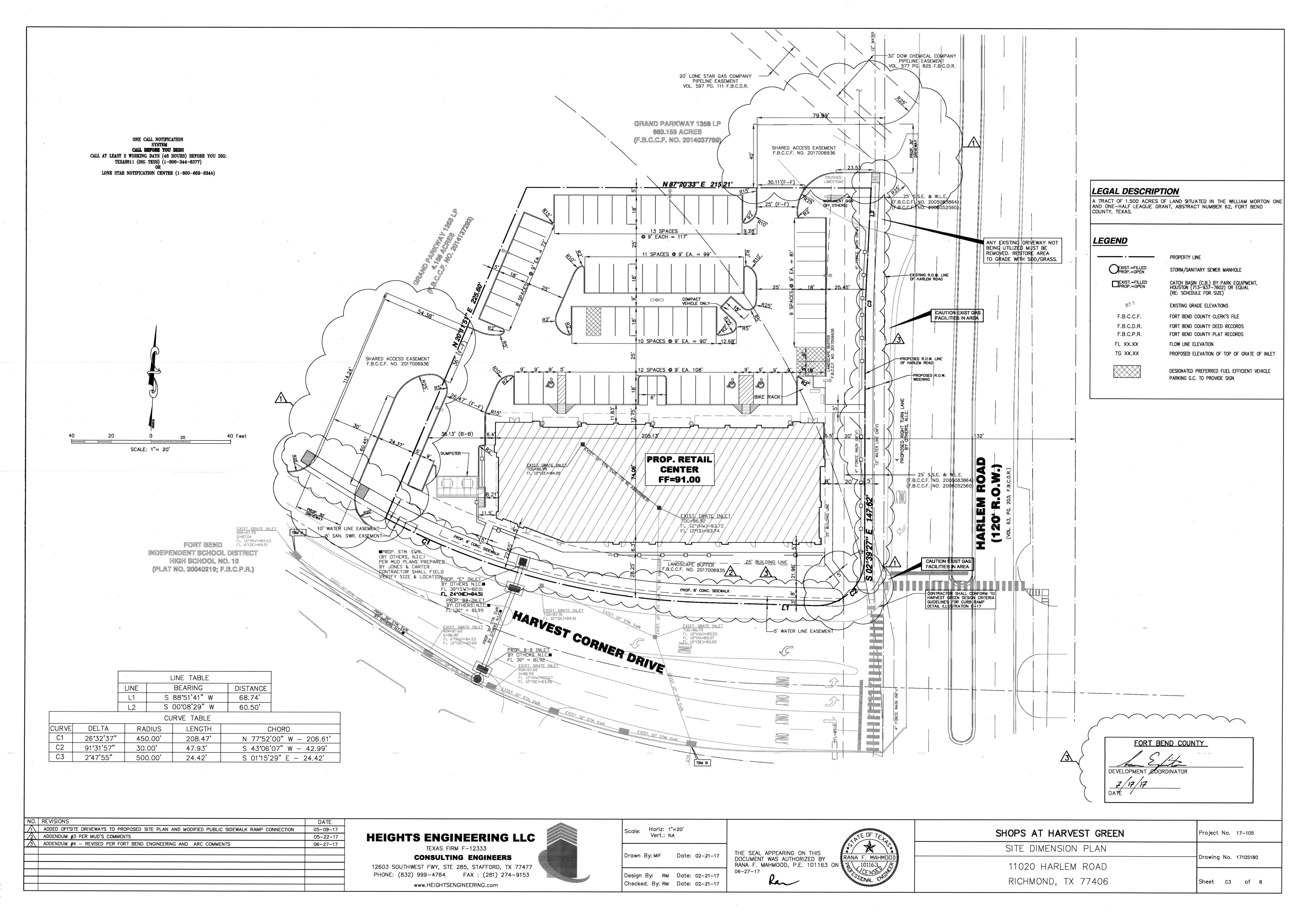
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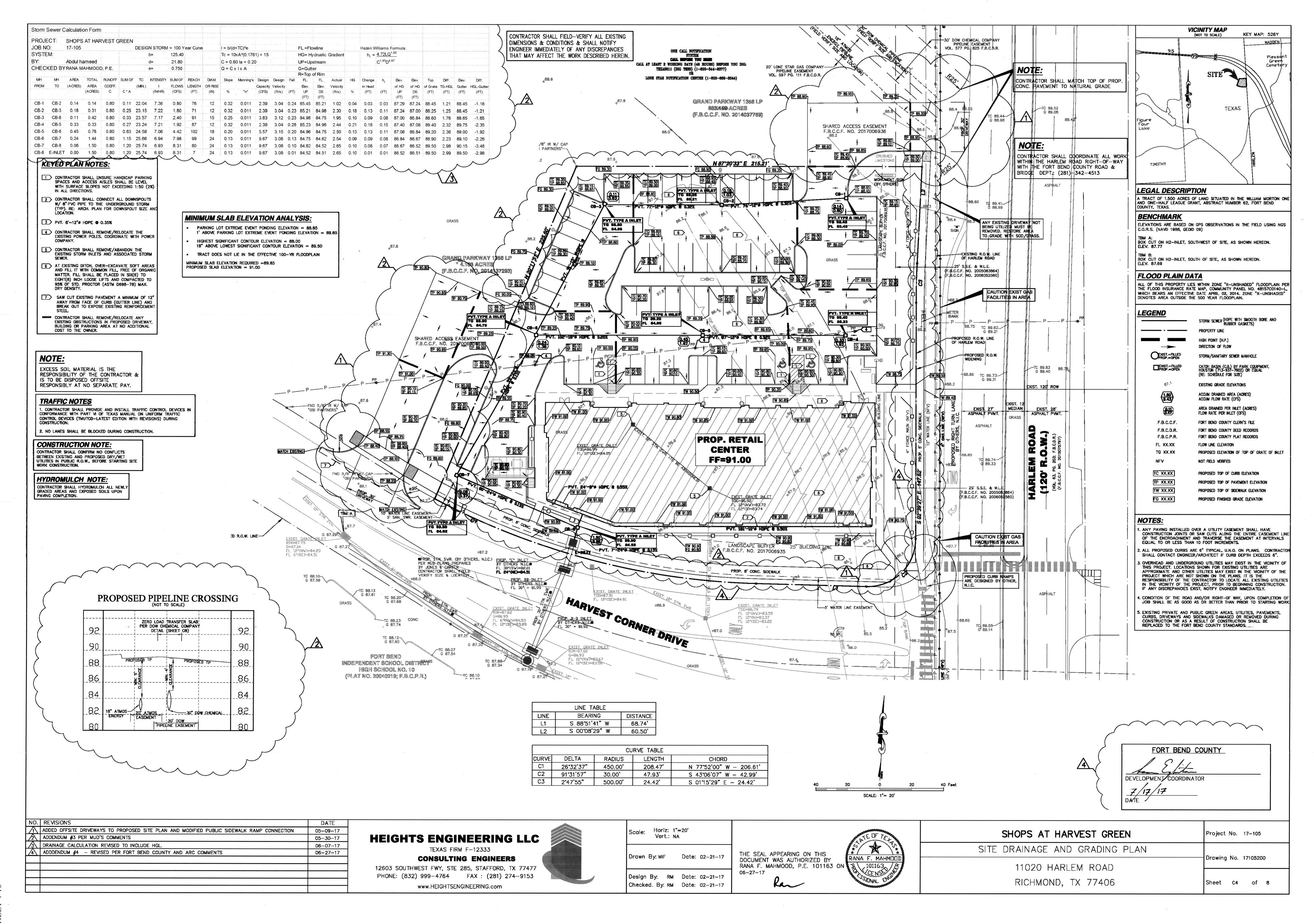
VOI C. IVA		
Drawn By: MIF	Date: 02-21-17	
Design By: RM Checked. By: RM	Date: 02-21-17 Date: 02-21-17	

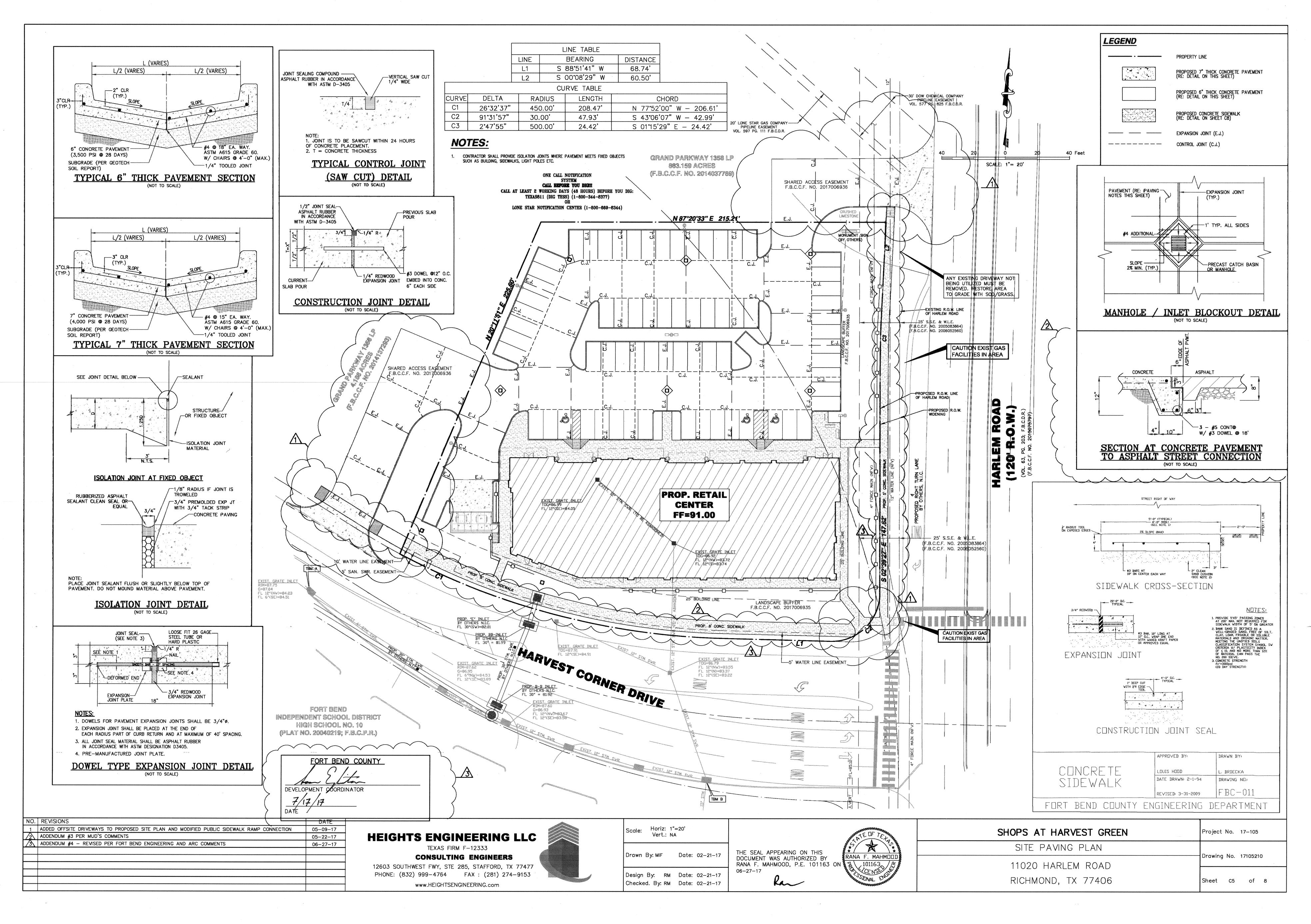


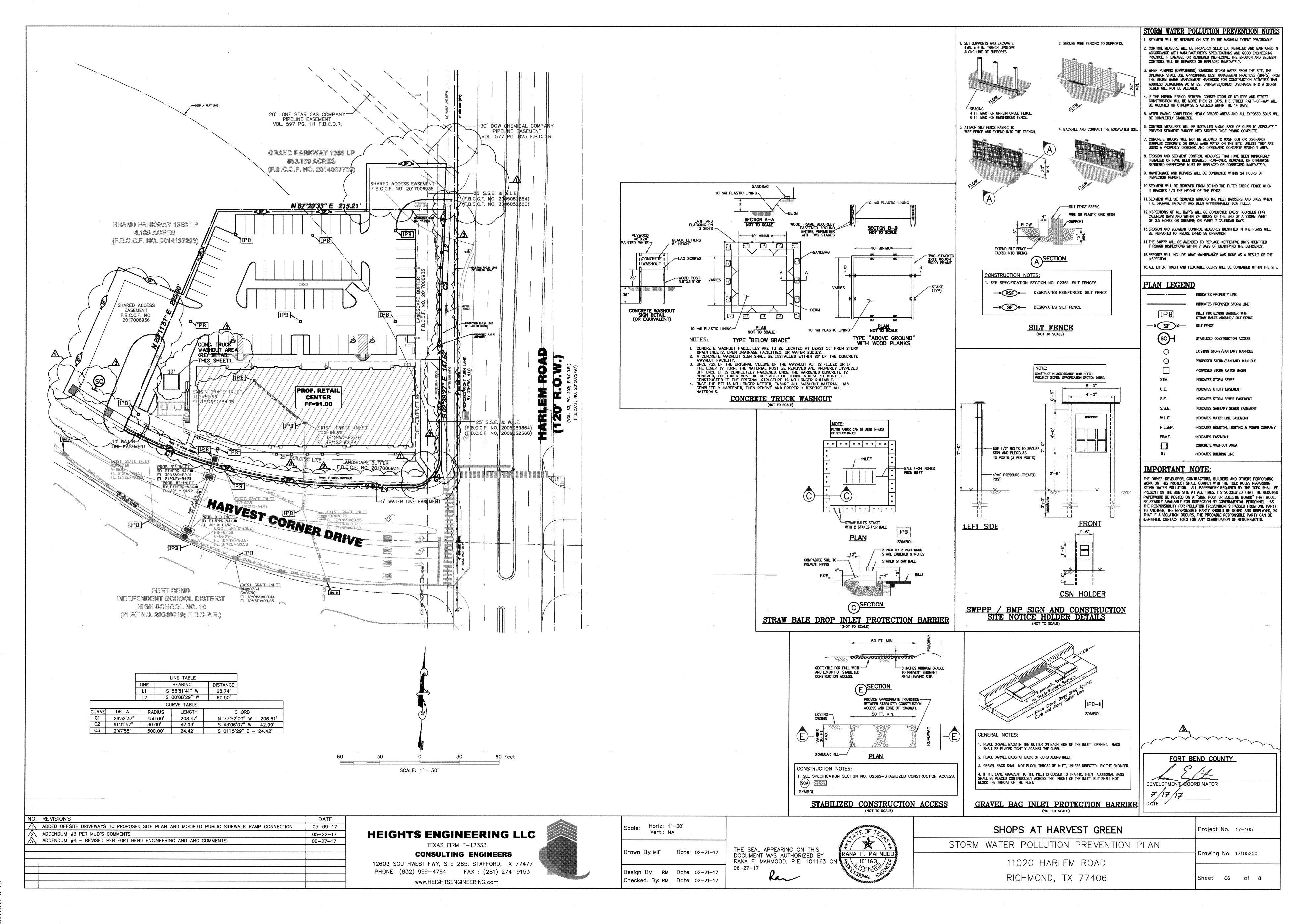
SHOPS AT HARVEST GREEN	Project No. 17-105		
COVER SHEET			
11020 HARLEM ROAD	Drawing No. 17105100		
RICHMOND, TX 77406	Sheet C1 of 8		

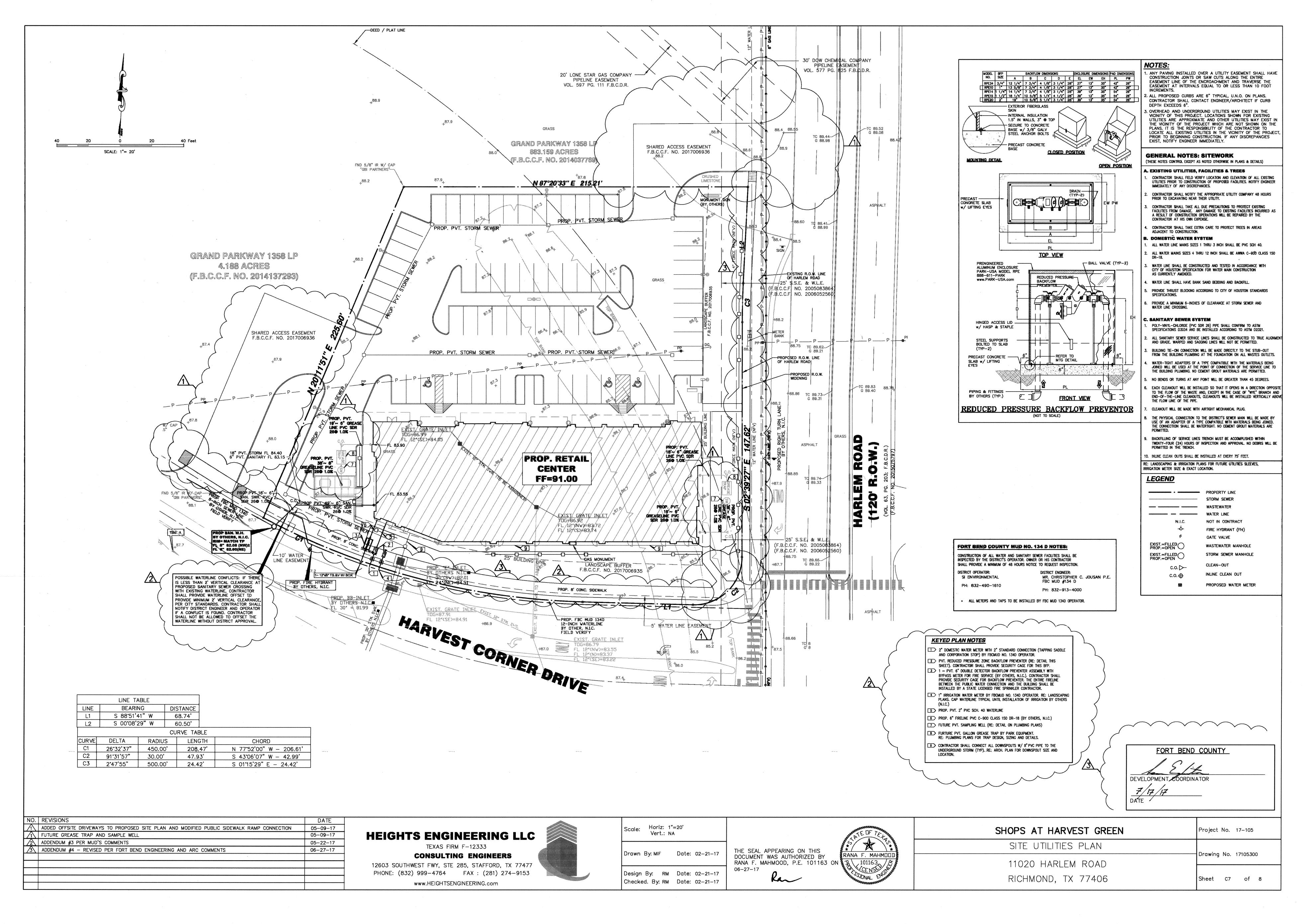


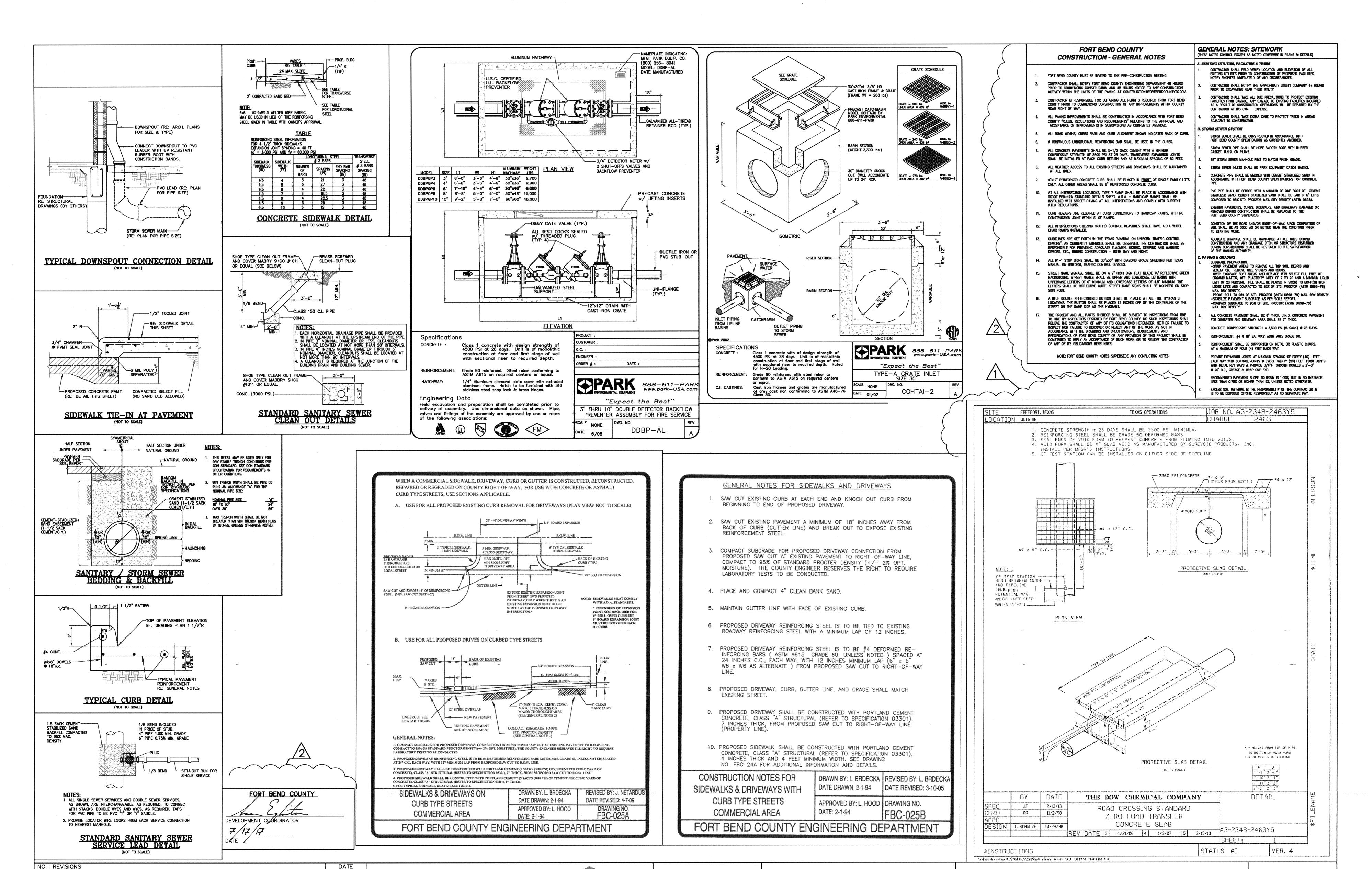












ADDENDUM #3 PER MUD'S COMMENTS

05-30-17

REVISED PER FORT BEND ENIGNEERING COMMENTS

06-27-17

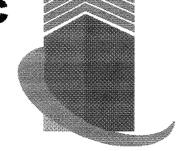
HEIGHTS ENGINEERING LLC TEXAS FIRM F-12333

CONSULTING ENGINEERS

12603 SOUTHWEST FWY, STE 285, STAFFORD, TX 77477

PHONE: (832) 999-4764 FAX: (281) 274-9153

www.HEIGHTSENGINEERING.com



Scale:	Horiz: Vert.:	1"=20' NA	
Drawn	By: MIF	Date:	02-21-17
Design Checke	By: R	M Date: M Date:	

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RANA F. MAHMOOI P.E. 101163 ON 101163 ON 101163 OF 101163

SHOPS AT HARVEST GREEN

CONSTRUCTION NOTES & DETAILS

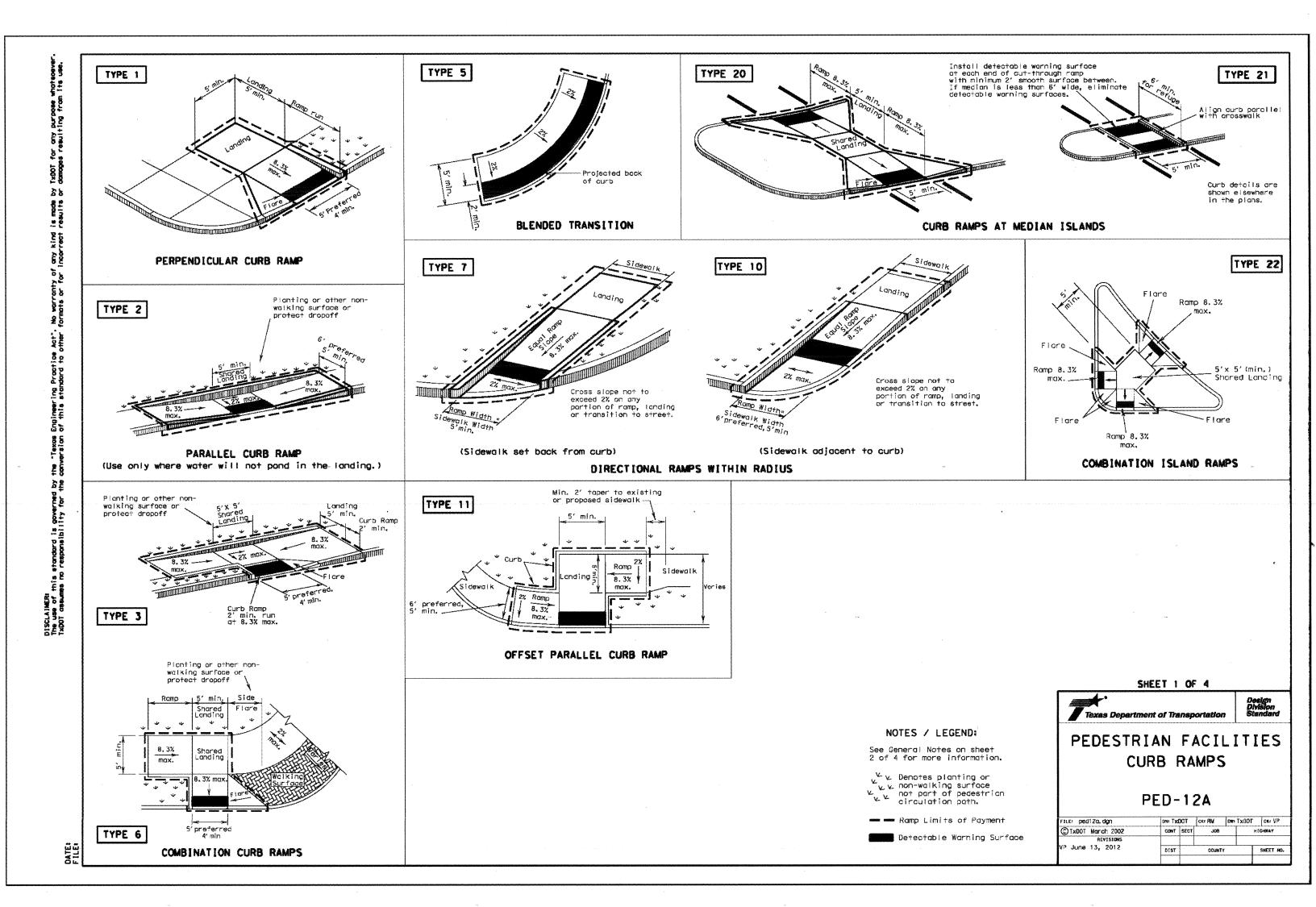
11020 HARLEM ROAD

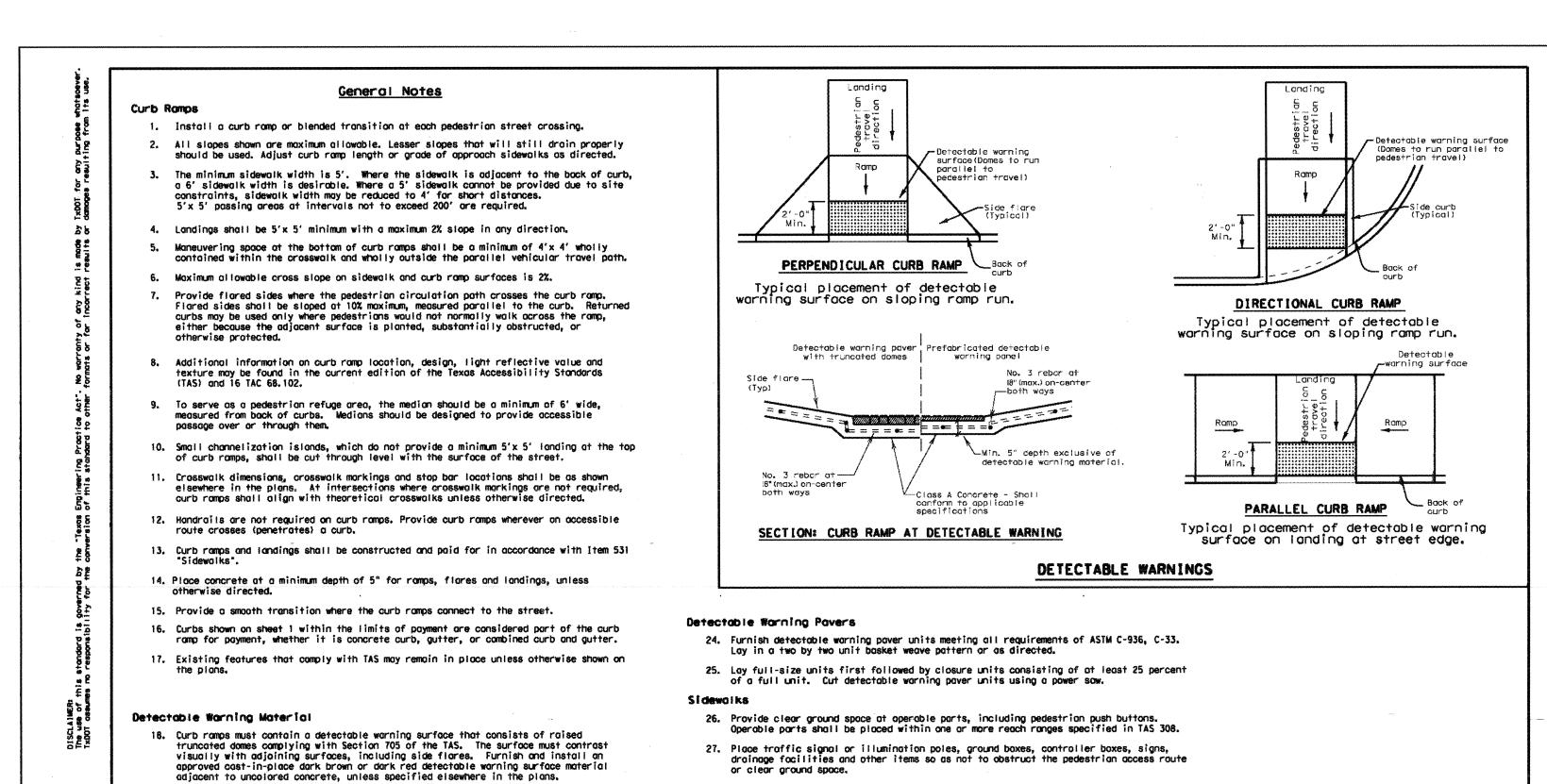
RICHMOND, TX 77406

Project No. 17–105

Drawing No. 17105500

Sheet C8 of 8





28. Street grades and cross slopes shall be as shown elsewhere in the plans.

31. Handrail extensions shall not protrude into the usable landing area or into

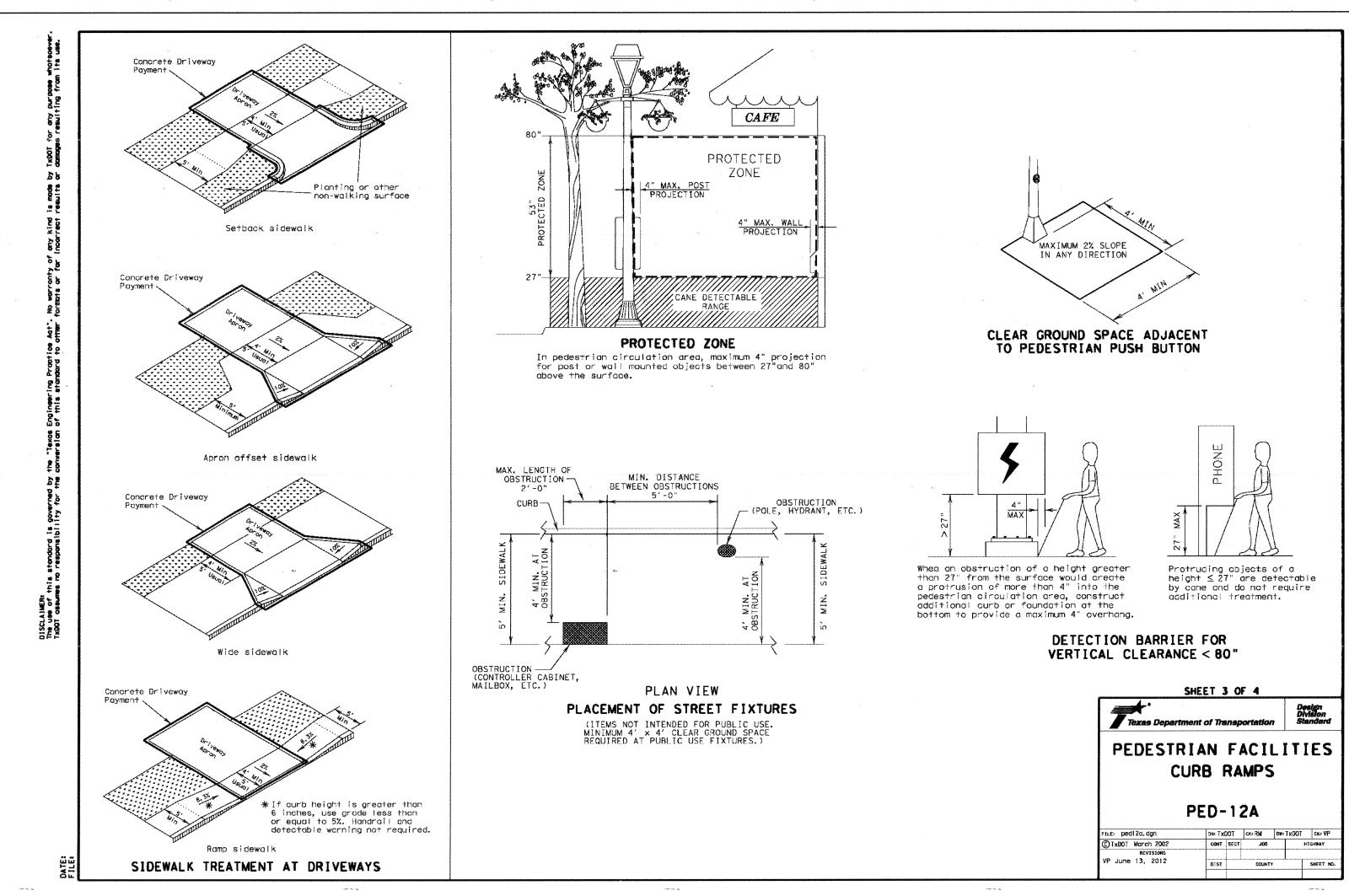
32. Driveways and turnouts shall be constructed and paid for in accordance with Item "Intersections, Driveways and Turnouts". Sidewalks shall be constructed and paid for in accordance with Item, "Sidewalks".

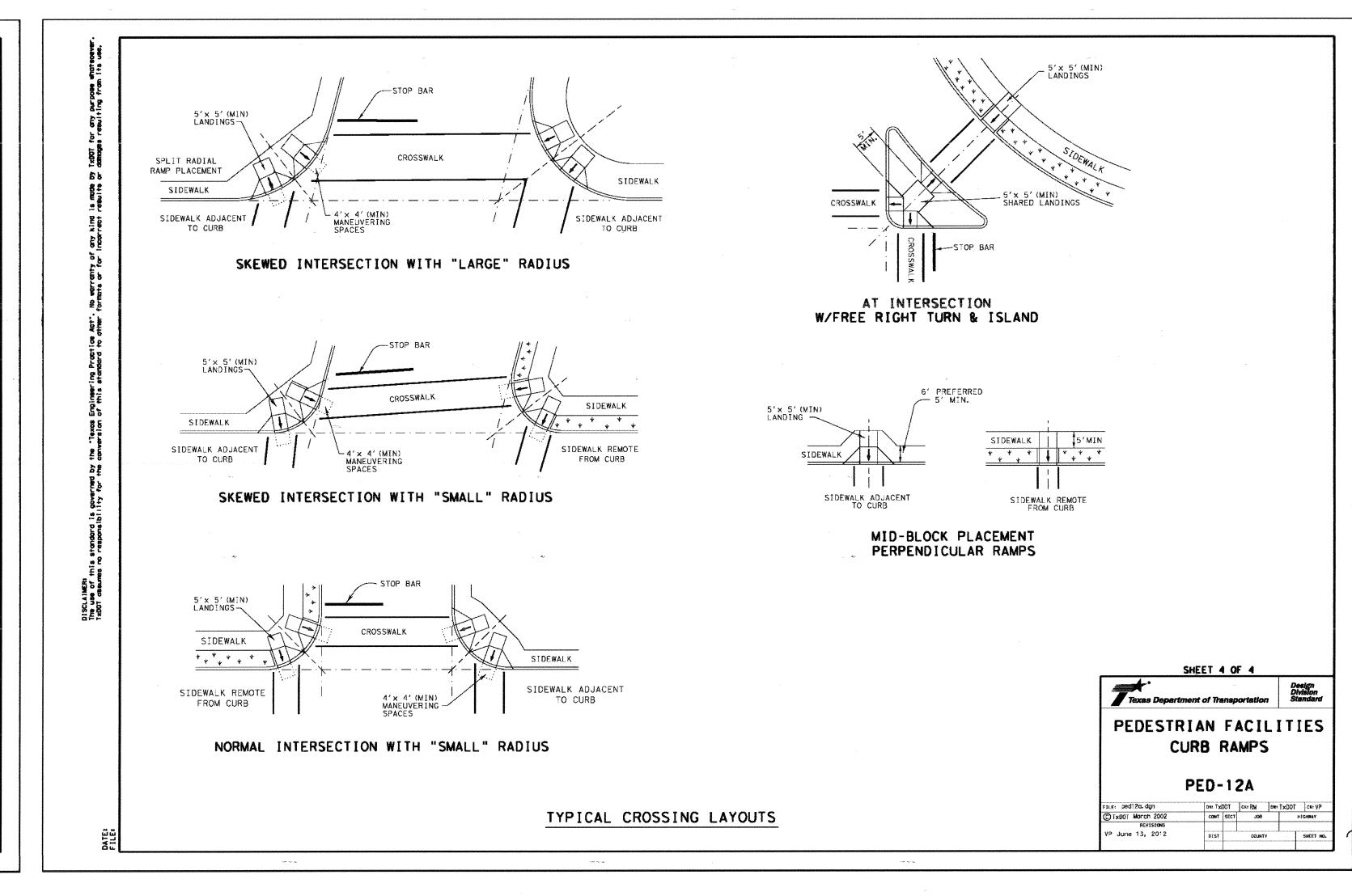
30. The least possible grade should be used to maximize accessibility. The running slope of sidewalks and crosswalks within the public right of way may follow the grade of the parallel roadway. Where a continuous grade greater than 5% must be provided, handrails may be desirable to improve accessibility. Handrails may also be needed to protect pedestrians from potentially hazardous conditions. If provided, handrails shall comply with TAS 505.

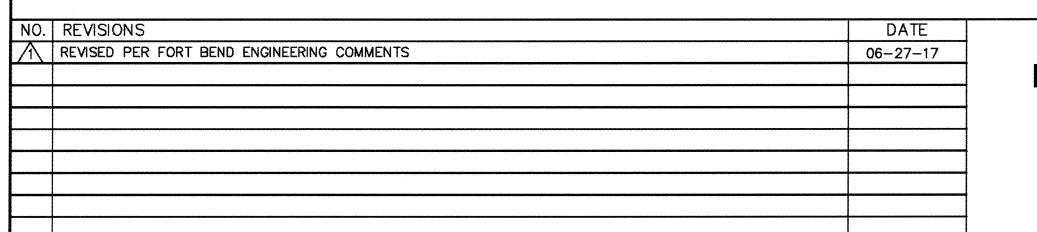
29. Changes in level greater than 1/4 inch are not permitted.

33. Sidewalk details are shown elsewhere in the plans.

intersecting pedestrian routes.



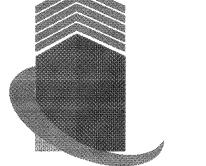




HEIGHTS ENGINEERING LLC TEXAS FIRM F-12333

CONSULTING ENGINEERS 12603 SOUTHWEST FWY, STE 285, STAFFORD, TX 77477 PHONE: (832) 999-4764 FAX: (281) 274-9153

www.HEIGHTSENGINEERING.com



Scale:	Horiz Vert		1"=20' NA	
Drawn	Ву: МІГ	•	Date:	02-21-17
Design	By:	RM	Date:	02-21-17

Checked. By: RM Date: 02-21-17

19. Detectable Warning Materials must meet TxDOT Departmental Materials Specification

20. Detectable warning surfaces must be slip resistant and not allow water to accumulate.

22. Detectable warning surfaces shall be located so that the edge nearest the curb line

23. Shaded areas on Sheet 1 of 4 indicate the approximate location for the detectable

is at the back of curb. Align the rows of domes to be perpendicular to the grade

break between the ramp run and the street. Detectable warning surfaces may be curved

pedestrian travel, and extend the full width of the curb ramp or landing where the

21. Detectable warning surfaces shall be a minimum of 24" in depth in the direction of

with manufacturer's specifications.

along the corner radius.

pedestrian access route enters the street.

warning surface for each curb ramp type.

DMS 4350 and be listed on the Material Producer List. Install products in accordance

		SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	EUF
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THE SEAL APPEARING ON THIS		# /	
DOCUMENT WAS AUTHORIZED BY	%.	RANA	10116
RANA F. MAHMOOD, P.E. 101163 06-27-17	ON W		CFN
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SHOPS	S AT	HAF	RVES	ST
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SHOPS AT HARVEST GREEN	Project No. 17-105		
CONSTRUCTION NOTES & DETAILS	Drawing No. 17105501		
11020 HARLEM ROAD	Drawing No. 17105501		
RICHMOND, TX 77406	Sheet C8A of 8		

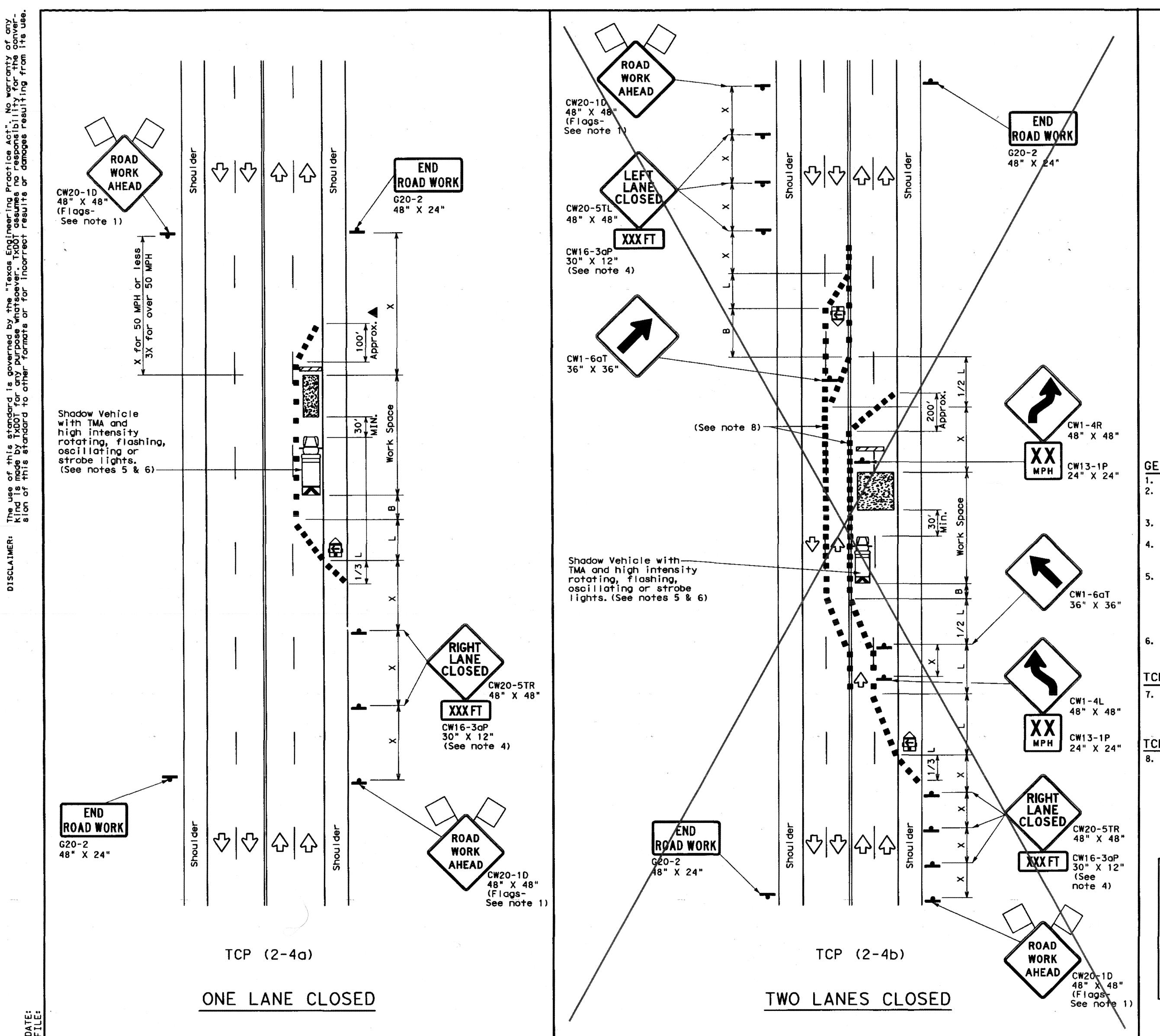
FORT BEND COUNTY

DEVELOPMENT COORDINATOR

SHEET 2 OF 4

PEDESTRIAN FACILITIES

CURB RAMPS



	LEGEND						
27773	Type 3 Barricade	Channelizing Devices					
中	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)				
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)				
	Sign	₽	Traffic Flow				
	Flag	ПО	Flagger				

Posted Speed	Minimum Suggested Maxima Desirable Spacing of Channelizing **X** Devices		ng of Lizing	Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space			
*		10' Offset	11' Offset	12' Offset	0n a Taper	On a Tangent	Distance	"B"
30	2	150′	1651	180′	30′	60′	120′	90′
35	$L = \frac{WS^2}{60}$	2051	225'	245'	35	70′	160′	120′
40	80	265′	295′	320′	40′	80′	240′	155′
45		450'	495′	540′	45′	90′	320′	195′
50		5001	550′	600′	50′	100′	400′	240′
55	L=WS	550′	605′	660′	55′	110′	500′	295′
60		6001	660′	720′	60′	120′	600′	350′
65		650′	715'	7801	65′	130′	7001	410′
70		700′	770′	8401	70′	140′	800′	475′
75		750′	825′	900′	75′	150′	900′	540′

* Conventional Roads Only

** Taper lengths have been rounded off.

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

TYPICAL USAGE						
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY		
		1	1	Tank Wile was a promotive and the state of t		

GENERAL NOTES

1. Flags attached to signs where shown, are REQUIRED.

2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.

3. The downstream taper is optional. When used, it should be 100 feet minimum length per lane.

- 4. For short term applications, when post mounted signs are not used, the distance legend may be shown on the sign face rather than on a CW16-3aP supplemental plaque.
- 5. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- 5. Additional Shadow Vehicles with TMAs may be positioned in each closed lane, on the shoulder or off the paved surface, next to those shown in order to protect a wider work space.

TCP (2-4a)

7. If this TCP is used for a left lane closure, CW20-5TL "LEFT LANE CLOSED" signs shall be used and channelizing devices shall be placed on the centerline to protect the work space from opposing traffic with the arrow board placed in the closed lane near the end of the merging taper.

TCP (2-4b)

8. For shorter durations where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20' or 15' if posted speeds are 35 mph or slower, and for tangent sections, at 1/2(S) where S is the speed in mph. This tighter devices spacing is intended for the area of conflicting markings, not the entire work zone.

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 CONTROL PLAN
LANE CLOSURES ON MULTILANE
CONVENTIONAL ROADS

TCP(2-4)-12

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REVISIONS 8-95 1-12 1-97 4-98	CONT	SECT	JOB		HIGHWAY	
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