



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: 2018-23861

Applicant: Camden Builders, Inc./MGroup + Architects Inc.

Job Location Site: 1535 Moore Rd, Stafford, TX 77477

Bond No. **Date of Bond:** 10/15/2018 **Amount:** \$10,000.00

The above applicant came to make use of certain Fort Bend County property subject to, "The Order Regulating the Laying, Construction, Maintenance, and Repair of Buried Cables, Conduits, and Pole Lines, In, Under, Across or Along Roads, Streets, Highways, and Drainage Ditches in Fort Bend County, Texas, Under the Jurisdiction of the Commissioners Court of Fort Bend County, Texas," as passed by the Commissioners Court of Fort Bend County, Texas, of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistent with Chapter 181, Vernon's Texas Statutes and Codes Annotated.

Notes:

1. Evidence of review by the Commissioners Court must be kept on the job site and failure to do so constitutes grounds for job shutdown.
2. Written notices are required:
 - a. 48 hours in advance of construction start up, and
 - b. When construction is completed and ready for final inspection, submit notification to Permit Administrator thru MyGovernmentOnline.org portal.
3. This permit expires one (1) year from date of permit if construction has not commenced.
4. This permit applies to work performed within right-of-ways owned and maintained by Fort Bend County only, and it is the responsibility of the applicant to acquire all other necessary permits.

On this 6th day of November, 2018, 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: 
County Engineer

Date Recorded _____ Comm. Court No. _____

Clerk of Commissioners Court

By: N/A
Drainage District Engineer/Manager

By: _____
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: 2018-23861

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: XXXXXXXXXX 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.



Permit Administrator

10/29/2018

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 NO [REDACTED]

Permit No. 2018-23861

THE STATE OF TEXAS §
COUNTY OF FORT BEND §

KNOW ALL MEN BY THESE PRESENTS:

THAT WE, Camden Builders, Inc. whose (address, phone) is 11 Greenway Plaza, Ste. 2400, Houston, Texas 77046, hereinafter called the Principal, and Travelers Casualty and Surety Company of America, a Corporation existing under and by virtue of the laws of the state of CT and authorized to do an indemnifying business in the state of Texas, and whose principal office is located at (name/address/phone) One Tower Square Bond/5PB, Hartford, CT 06183, whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought within said state is Christopher Noble and whose address is 1301 E. Collins Blvd, Richardson, TX 75081, 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 Ten Thousand and No/100 Dollars (\$ 10,000.00) 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;

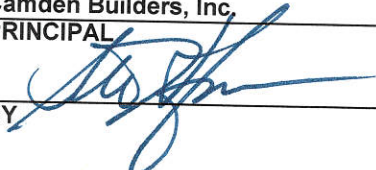
NOW, THEREFORE, if the above bounden principal shall faithfully perform all its cable, conduit and/or pole line activity (including, but not limited to the laying, construction, maintenance and/or repair of cables, conduits and/or pole lines) in, under, across and/or along roads, streets and highways, 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 15th day of October , 2018 .

Camden Builders, Inc.
PRINCIPAL _____

BY  _____

Travelers Casualty and Surety Company of America
SURETY


BY Vanessa Dominguez, Attorney-in-Fact



POWER OF ATTORNEY

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company

Attorney-In Fact No. 232300

Certificate No. 007308964

KNOW ALL MEN BY THESE PRESENTS: That Farmington Casualty Company, St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company are corporations duly organized under the laws of the State of Connecticut, that Fidelity and Guaranty Insurance Company is a corporation duly organized under the laws of the State of Iowa, and that Fidelity and Guaranty Insurance Underwriters, Inc., is a corporation duly organized under the laws of the State of Wisconsin (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint

Michael J. Herrod, Wendy W. Stuckey, Lisa A. Ward, Lupe Tyler, Vanessa Dominguez, Melissa L. Fortier, Naomi Harris-Thompson, Misty Wright, and Donna L. Williams

of the City of Houston, State of Texas, their true and lawful Attorney(s)-in-Fact, each in their separate capacity if more than one is named above, to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory 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, the Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this 27th day of July, 2017.

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company



State of Connecticut
City of Hartford ss.

By: [Signature]
Robert L. Raney, Senior Vice President

On this the 27th day of July, 2017, before me personally appeared Robert L. Raney, who acknowledged himself to be the Senior Vice President of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.
My Commission expires the 30th day of June, 2021.



[Signature]
Marie C. Tetreault, Notary Public

IMPORTANT NOTICE

To obtain information or make a complaint:

You may call Travelers Casualty and Surety Company of America and its affiliates' toll-free telephone number for information or to make a complaint at:

1-800-328-2189

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:

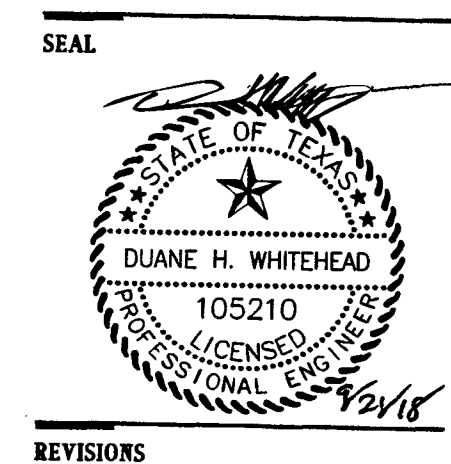
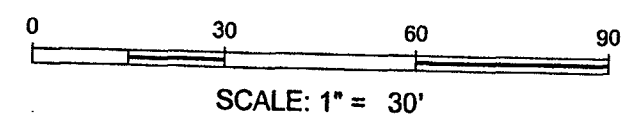
P. O. Box 149104
Austin, TX 78714-9104
Fax: (512) 475-1771
Web: <http://www.tdi.state.tx.us>
E-mail: ConsumerProtection@tdi.state.tx.us

PREMIUM OR CLAIM DISPUTES:

Should you have a dispute concerning your premium or about a claim you should contact your Agent or Travelers first. If the dispute is not resolved, you may contact the Texas Department of Insurance.

ATTACH THIS NOTICE TO YOUR BOND:

This notice is for information only and does not become a part or condition of the attached document and is given to comply with Texas legal and regulatory requirements.



LEGEND

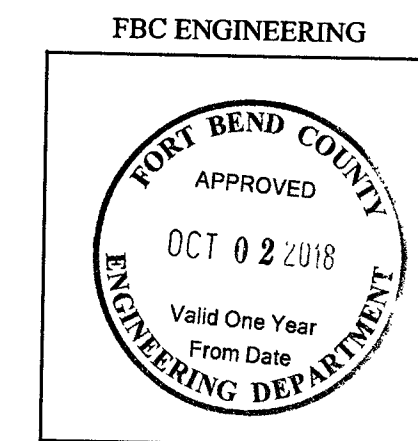
	8" PAVEMENT FOR DUMPSTER
	7" CONCRETE PAVEMENT
	6" CONCRETE PAVEMENT
	5" CONCRETE PAVEMENT
	4.5" CONCRETE SIDEWALK
	2" TYPE 'D' ASPHALT WITH 8" BLACK BASE (TxDOT)
	SLAB (RE: STRUCTURAL)

PROJECT NUMBER FBSITE18-005

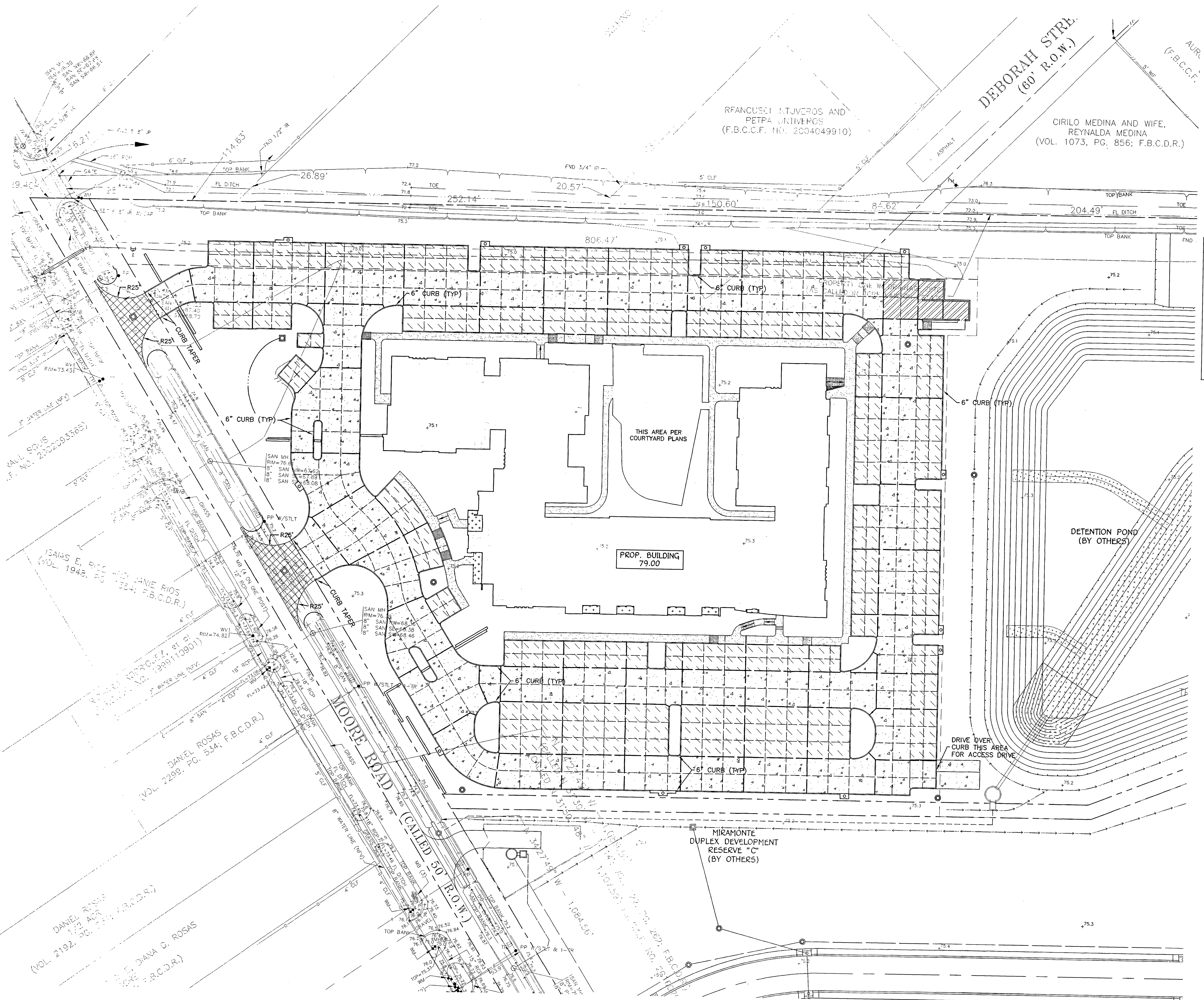
Kelly R. Kaluza & Associates, Inc.
 CONSULTING ENGINEERS & SURVEYORS
 ENGINEERING FIRM NO. F-1839
 SURVEYING FIRM NO. 10010000
 12014 AVENUE 77471
 ROSENBERG, TEXAS
 PH. 281.341.0808 FAX. 281.341.6383

PROJECT
The Miramonte
 RESERVE 'A'
 Stafford, Texas

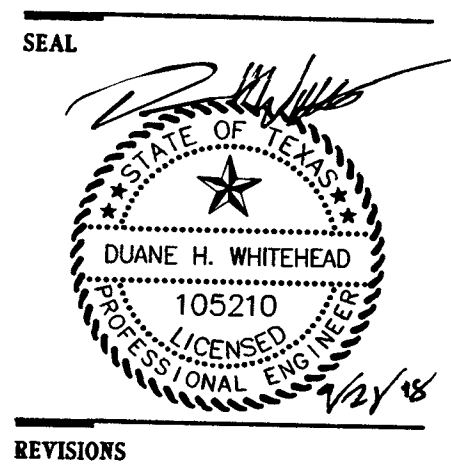
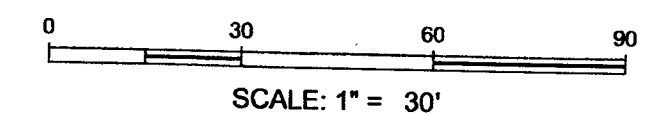
SHEET TITLE
PAVING PLAN
 DATE
August 2, 2018
 SHEET NUMBER



C1.01



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 Date: Friday, September 21, 2018 10:41:14 AM
 Plot date: Friday, September 21, 2018 10:45:40 AM



REVISIONS

LEGEND	
P105.05	PAVEMENT ELEVATION
W105.05	SIDEWALK ELEVATION
TC105.05	TOP OF CURB ELEVATION
G105.05	FINISHED ELEVATION
FL105.05	FLOWLINE ELEVATION
TG	TOP GRATE
TR	TOP RIM
FL	FLOWLINE
DS	DOWN SPOUT
RD	ROOF DRAIN
RDC	ROOF DRAIN COLLECTOR
CO	CLEAN OUT
TS&V	TAPPING SLEEVE AND VALVE
- - -	CONSTRUCTION JOINT
- - -	CONTROL JOINT
- - -	EXPANSION JOINT
98	CONTOUR

PROJECT NUMBER FBSITE18-005

Kelly R. Kaluza & Associates, Inc.
 CONSULTING ENGINEERS & SURVEYORS
 ENGINEERING FIRM NO. F-13939
 SURVEYING FIRM NO. 10010000
 1000 W. UNIVERSITY BLVD., SUITE 77471
 ROSENBERG, TEXAS 77471
 PH. 281.341.0808 FAX. 281.341.6393

PROJECT

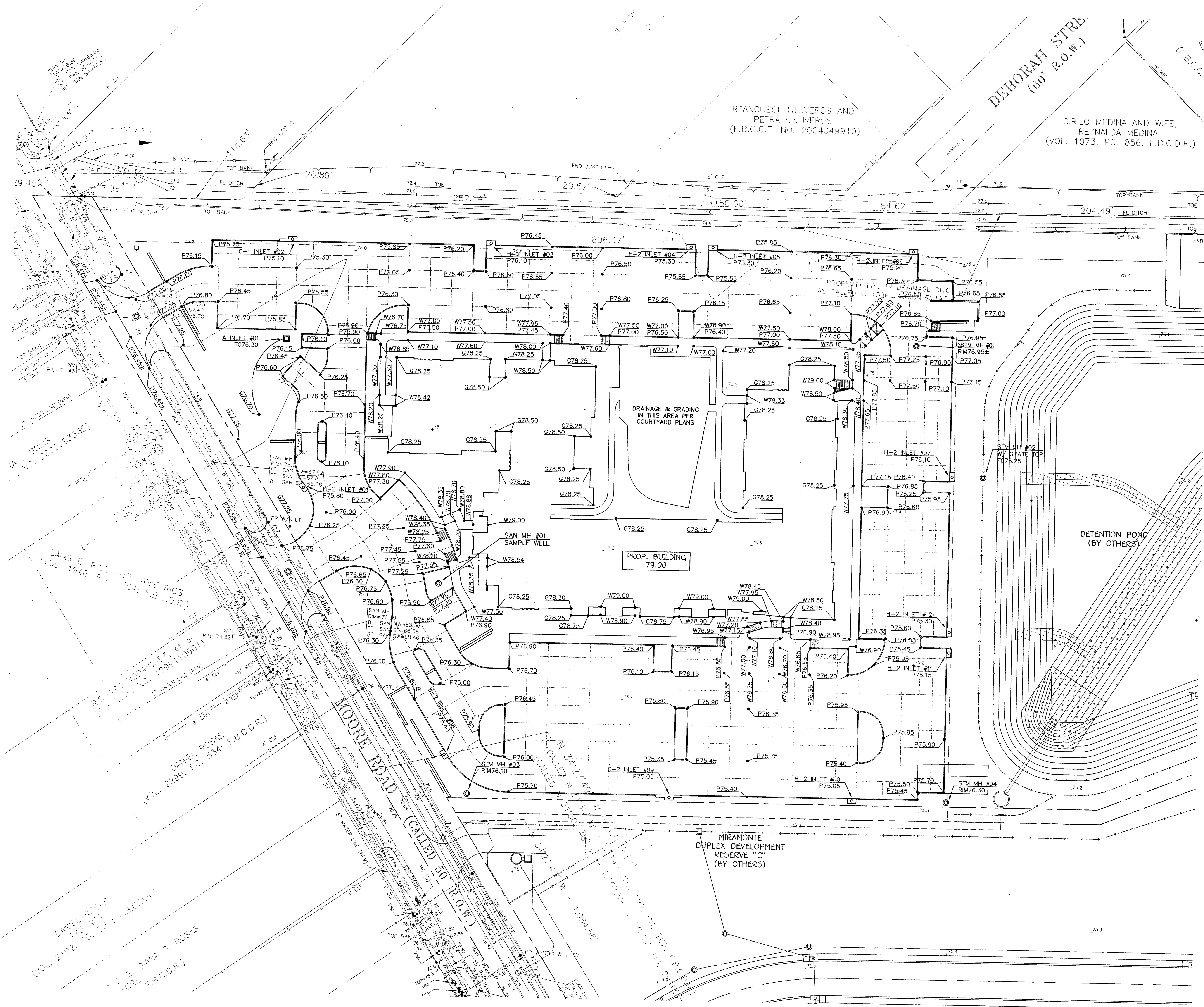
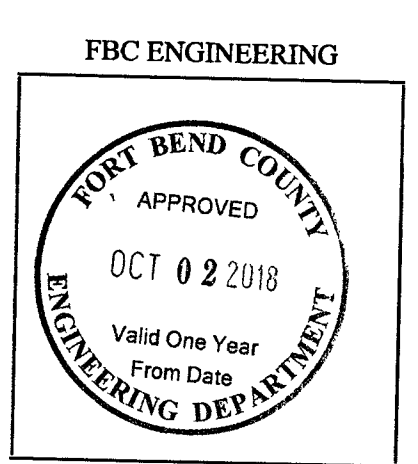
The Miramonte
 RESERVE "A"
 Stafford, Texas

SHEET TITLE
GRADING PLAN

DATE
August 2, 2018

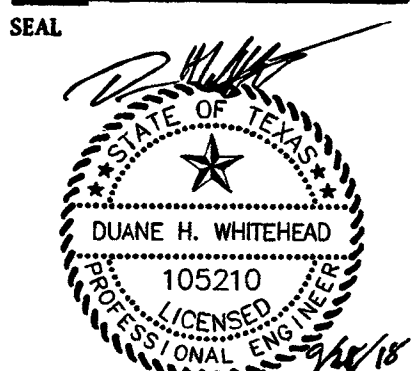
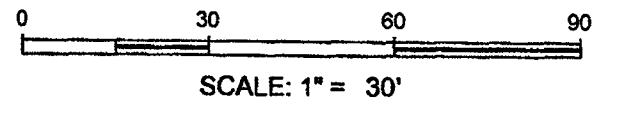
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C1.02



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DANIEL ROSAS
 172 ANN
 (VOL. 2192, PG. 534; F.B.C.D.R.)
 DANIEL ROSAS
 172 ANN
 (VOL. 2239, PG. 534; F.B.C.D.R.)
 DANIEL ROSAS
 172 ANN
 (VOL. 2239, PG. 534; F.B.C.D.R.)
 DANIEL ROSAS
 172 ANN
 (VOL. 2239, PG. 534; F.B.C.D.R.)



REVISIONS
09/19/18 - PLAN REVIEW COMMENTS

PROJECT NUMBER FBSITE18-005

Kelly R. Kaluza & Associates, Inc.
CONSULTING ENGINEERS & SURVEYORS
ENGINEERING FIRM NO. E-13399
SURVEYING FIRM NO. S-1010000
2004 AVENUE 77471
ROSENBERG, TEXAS 77471
PH: 281.341.0908 FAX: 281.341.6393

PROJECT

The Miramonte
RESERVE 'A'
Stafford, Texas

SHEET TITLE
DRAINAGE PLAN

DATE
August 2, 2018

SHEET NUMBER

C2.01

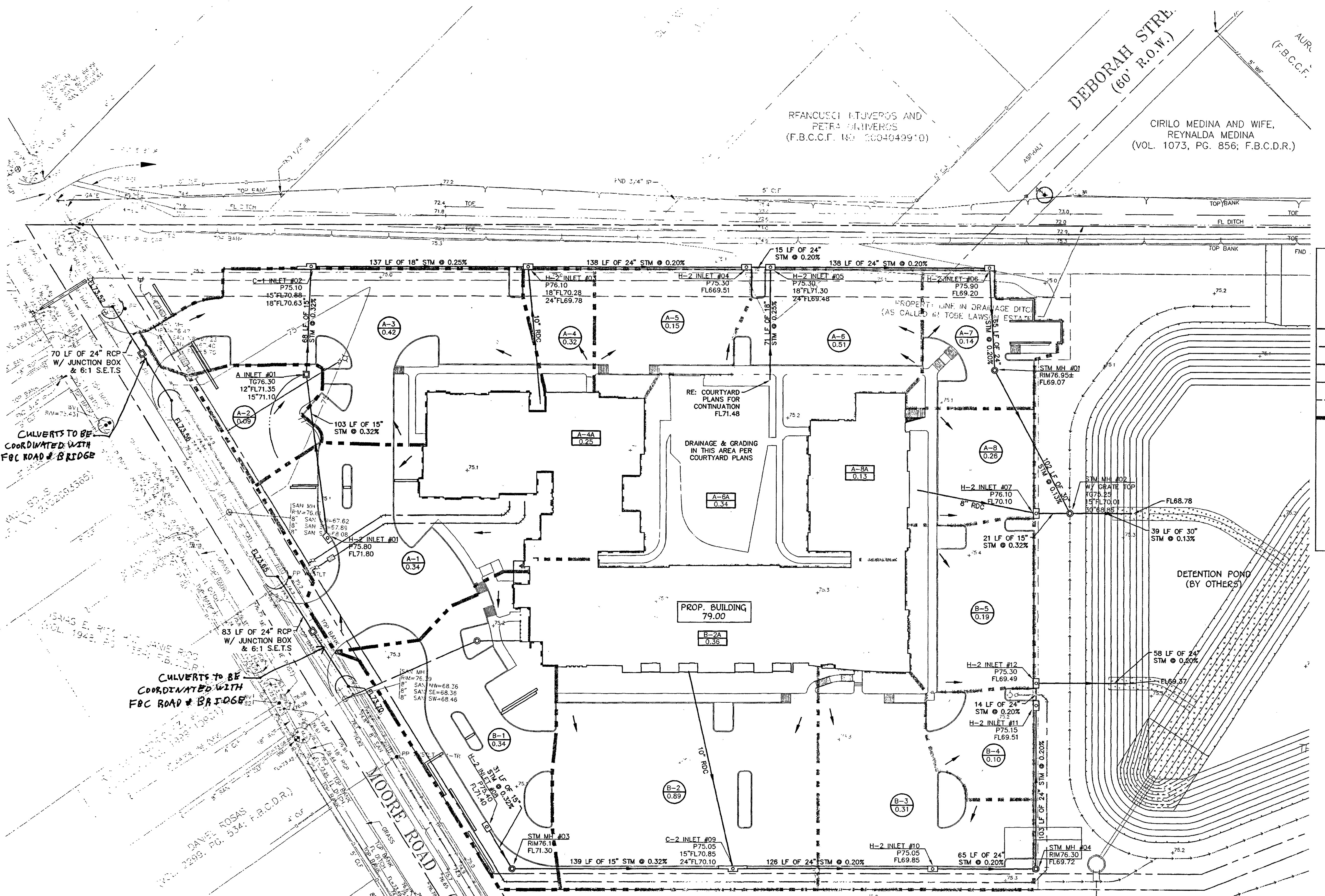
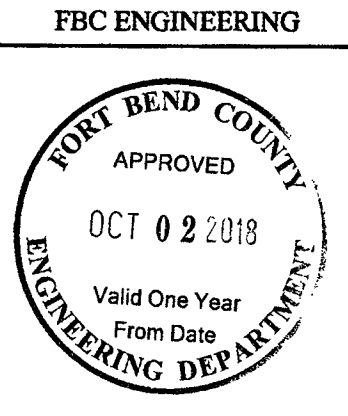
LEGEND

TG	TOP GRATE
TR	TOP RIM
FL	FLOWLINE
DS	DOWN SPOUT
RD	ROOF DRAIN
RDC	ROOF DRAIN COLLECTOR
STORM SEWER	
SANITARY SEWER	
SANITARY FORCE MAIN	
WATERLINE	
DRAINAGE SWALE	
DRAINAGE AREA BOUNDARY	
DIRECTIONAL FLOW OF RUNOFF	
□	TYPE A INLET
□	TYPE H-2 CURB INLET (SEE DETAIL)
□	TYPE E INLET
○	YARD INLET
○	STORM MANHOLE
○	SANITARY MANHOLE
○	DRAINAGE AREA DESIGNATION
○	AREA (ACRES)

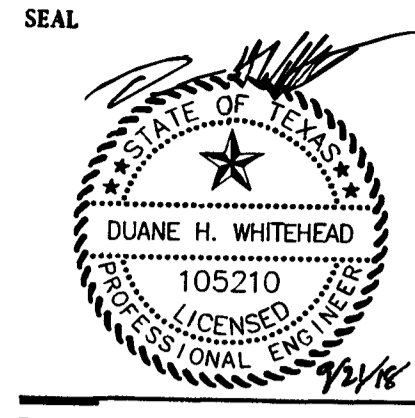
12	62.62	10.680	0.8111
15	69.35	10.940	0.9060
18	78.89	11.090	0.9008
10	89.26	11.180	0.7893
25	106.05	12.390	0.7862
100	146.18	15.120	0.7851

100-YR HGL

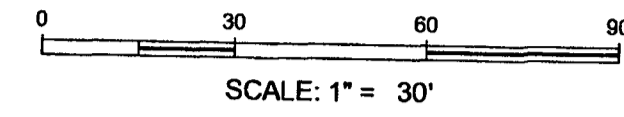
Sub-Area	UP STREAM STRUCTURE	DOWN STREAM STRUCTURE	LENGTH (ft)	Roof / Out Area (sq ft)	Sub-Area (ac)	TOTAL ACREAGE	Inlet Time (min)	To UPPER (min)	C. coeff.	C. avg. RUNOFF coeff.	SIZE (in.)	QTY (nos)	GRADE (ft)	VELOCITY (ft/s)	CAPACITY (cfs)	12. RAINFALL (in/hr)	Q2. RUNOFF (cfs)	13. RAINFALL (in/hr)	Q3. RUNOFF (cfs)	15. RAINFALL (in/hr)	Q5. RUNOFF (cfs)	110. RAINFALL (in/hr)	Q10. RUNOFF (cfs)	125. RAINFALL (in/hr)	Q25. RUNOFF (cfs)	1100. RAINFALL (in/hr)	Q100. RUNOFF (cfs)	Inlet Type	Inlet Capacity (cfs)	Inlet C100 (cfs)	HYDRAULIC GRADE DOWNSTREAM	HYDRAULIC GRADE UPSTREAM	
A-1	H1	A1	103	0.00	0.34	0.34	10.00	10.57	0.71	0.71	15	1	0.013	0.32	3.02	3.71	5.25	1.27	5.85	1.42	6.72	1.63	7.85	2.09	9.03	2.62	11.43	3.46	H2	4.00	3.46	75.22	75.51
A-2	A1	C2	68	0.00	0.09	0.43	10.00	10.94	0.30	0.63	15	1	0.013	0.32	3.02	3.71	5.18	1.39	5.77	1.55	6.63	1.79	7.75	2.29	8.91	2.88	11.30	3.80	A	5.00	0.48	75.68	76.22
A-3	C2	H3	137	0.00	0.42	0.85	10.00	11.70	0.77	0.70	18	1	0.013	0.25	3.03	5.36	5.03	2.98	5.61	3.32	6.45	3.82	7.54	4.91	8.69	6.17	11.05	8.17	C1	5.00	4.25	75.16	75.98
A-4	H3	H4	138	0.25	0.32	1.17	10.00	12.41	0.82	0.73	24	1	0.013	0.20	3.22	10.12	4.91	4.19	5.47	4.68	6.30	5.38	7.36	6.92	8.50	8.71	10.83	11.57	H2	4.00	0.78	74.80	75.16
A-5	H4	H5	15	0.00	0.15	1.32	10.00	12.49	0.82	0.74	24	1	0.013	0.20	3.22	10.12	4.89	4.79	5.46	5.34	6.28	6.14	7.34	7.90	8.47	9.95	10.80	13.21	H2	4.00	1.67	74.75	74.80
A-6	H5	H6	138	0.34	0.51	1.83	10.00	13.20	0.74	0.74	24	1	0.013	0.20	3.22	10.12	4.77	6.47	5.33	7.22	6.13	8.31	7.17	10.70	8.29	13.48	10.59	17.94	H2	4.00	1.67	73.88	74.75
A-7	H6	MH1	65	0.00	0.14	1.97	10.00	13.54	0.82	0.75	24	1	0.013	0.20	3.22	10.12	4.72	6.94	5.27	7.75	6.06	8.92	7.10	11.48	8.20	14.48	10.49	19.29	H2	4.00	1.51	72.81	73.88
A-8	MH1	MH2	102	0.00	0.00	1.97	10.00	14.10	0.30	0.75	30	1	0.013	0.13	3.01	14.79	4.63	6.81	5.17	7.61	5.96	7.66	6.97	11.28	8.07	14.24	10.33	18.99	MH	0.00	0.00	72.59	72.81
A-8	MH2	MH2	21	0.13	0.26	0.26	10.00	10.12	0.82	0.82	15	1	0.013	0.32	3.02	3.71	5.34	1.14	5.95	1.27	6.84	1.46	7.98	1.88	8.17	2.35	11.59	3.10	H2	4.00	1.55	73.25	73.44
A-8	MH2	POND	39	0.00	0.00	2.23	10.00	14.32	0.30	0.76	30	1	0.013	0.13	3.01	14.79	4.60	7.75	5.14	8.65	5.91	9.96	6.92	12.83	8.01	16.20	10.27	21.63	MH	0.00	0.00	71.28	72.59
B-1	H8	MH3	31	0.00	0.34	0.34	10.00	10.17	0.69	0.69	15	1	0.013	0.32	3.02	3.71	5.33	1.24	5.94	1.38	6.82	1.59	7.97	2.04	9.15	2.56	11.57	3.37	H2	4.00	3.37	75.34	75.43
B-1	MH3	C9	138	0.00	0.00	0.34	10.00	10.94	0.30	0.69	15	1	0.013	0.32	3.02	3.71	5.18	1.21	5.77	1.34	6.63	1.54	7.75	1.98	8.91	2.49	11.30	3.29	MH	0.00	0.00	74.98	75.34
B-2	C9	H10	126	0.36	0.89	1.23	10.00	11.59	0.80	0.78	24	1	0.013	0.20	3.22	10.12	5.05	4.75	5.63	5.30	6.48	6.09	7.57	7.83	8.72	9.84	11.09	13.03	C2	10.00	5.84	74.57	74.98
B-3	H10	MH4	65	0.00	0.31	1.54	10.00	11.93	0.80	0.77	24	1	0.013	0.20	3.22	10.12	4.99	5.93	5.57	6.61	6.40	7.60	7.48	9.77	8.63	12.29	10.98	16.29	H2	4.00	3.38	74.23	74.67
B-3	MH4	H11	103	0.00	0.00	1.54	10.00	12.46	0.30	0.77	24	1	0.013	0.20	3.22	10.12	4.90	5.81	5.46	6.48	6.29	7.46	7.35	9.60	8.48	12.08	10.81	16.04	MH	0.00	0.00	73.72	74.23
B-4	H11	H12	14	0.00	0.10	1.64	10.00	12.63	0.80	0.77	24	1	0.013	0.20	3.22	10.12	4.89	6.19	5.45	6.90	6.27	7.94	7.33	10.21	8.46	12.86	10.79	17.08	H2	4.00	1.07	73.64	73.72
B-5	H12	POND	58	0.00	0.19	1.83	10.00	12.83	0.80	0.77	24	1	0.013	0.20	3.22	10.12	4.84	6.85	5.39	7.65	6.21	8.80	7.26	11.32	8.38	14.26	10.70	18.96	H2	4.00	2.02	71.37	73.64



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REVISIONS
09/19/18 - PLAN REVIEW COMMENTS



LEGEND

- FL FLOWLINE
 - DS DOWN SPOUT
 - RD ROOF DRAIN
 - RDC ROOF DRAIN COLLECTOR
 - CO CLEAN OUT
 - TS&V TAPPING SLEEVE AND VALVE
-
- STORM SEWER
 - SANITARY SEWER
 - SANITARY FORCE MAIN
 - WATERLINE
-
- TYPE A INLET
 - TYPE H-2 CURB INLET (SEE DETAIL)
 - TYPE E INLET
 - YARD INLET
 - STORM MANHOLE
 - SANITARY MANHOLE

PROJECT NUMBER FBS18-005

Kelly R. Kaluza & Associates, Inc.
 CONSULTING ENGINEERS & SURVEYORS
 SURVEYING FIRM No. P-13399
 SURVEYING FIRM No. 0010000
 3014 AVENUE I
 ROSENBERG, TEXAS 77471
 PH. 281.341.0506 FAX. 281.341.6383

PROJECT

The Miramonte
 RESERVE 'A'
 Stafford, Texas

SHEET TITLE

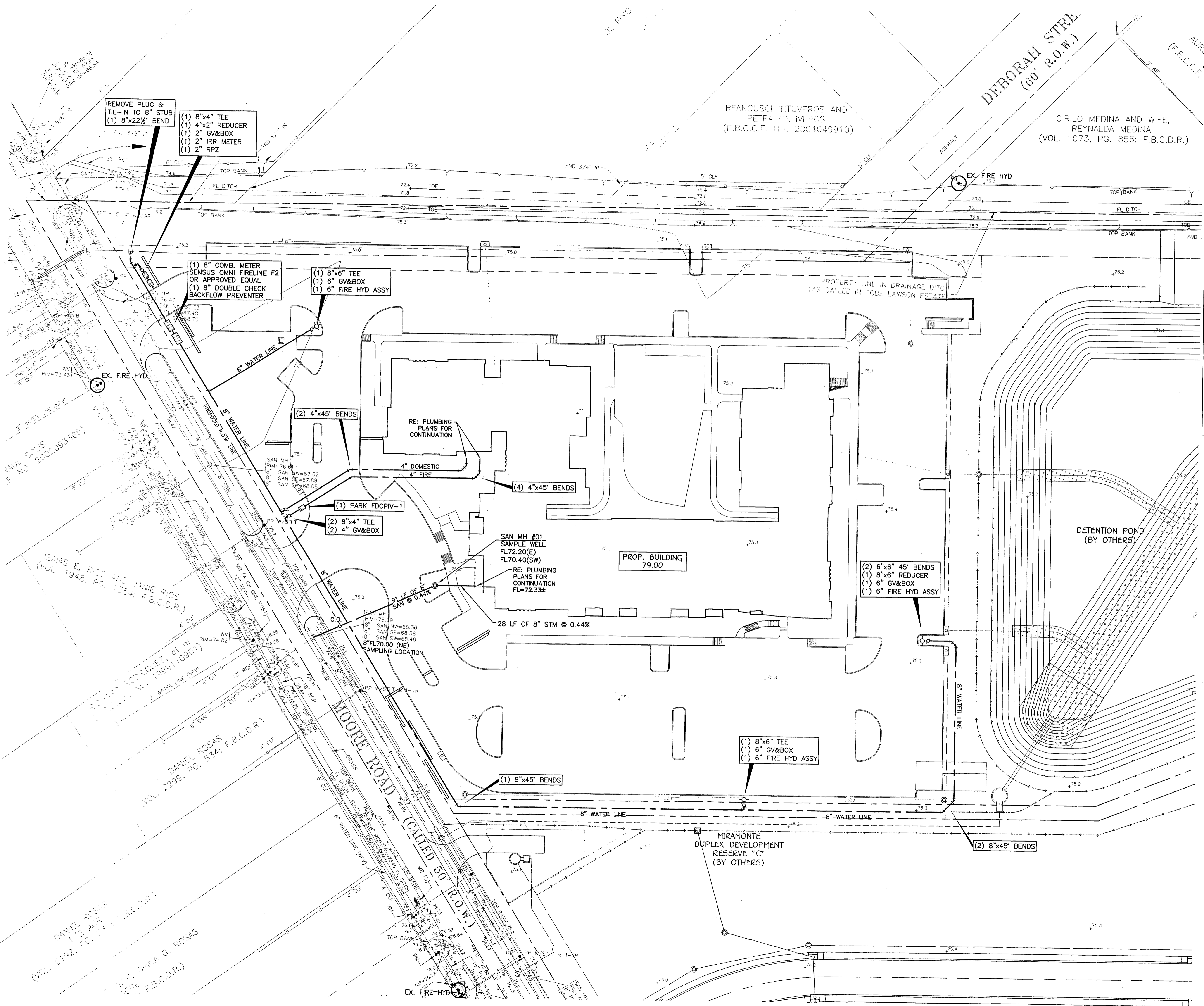
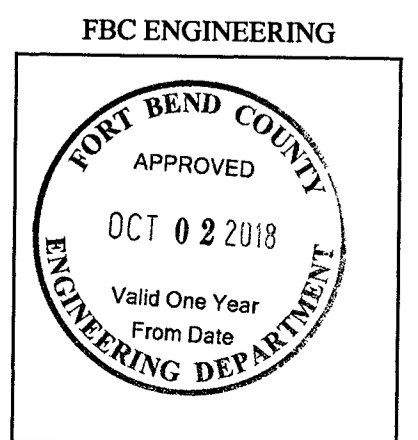
WATER & SANITARY PLAN

DATE

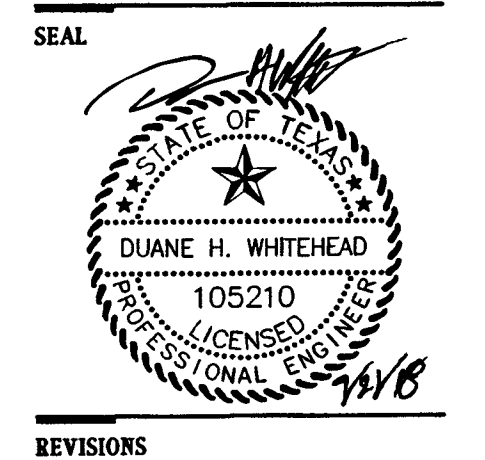
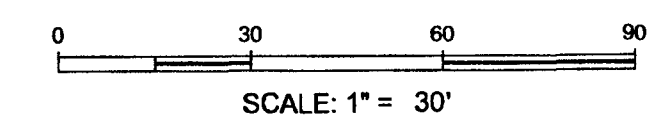
August 2, 2018

SHEET NUMBER

C3.01



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REVISORS

PROJECT NUMBER FBSITE18-005

Kelly R. Kaluza & Associates, Inc.
 CONSULTING ENGINEERS & SURVEYORS
 ENGINEERING FIRM No. F-1339
 SURVEYING FIRM No. 10010000
 AUSTIN, TEXAS 77747
 ROSENBERG, TEXAS 77471
 PH. 281.341.0808 FAX. 281.341.6333

PROJECT

The Miramonte
 RESERVE 'A'
 Stafford, Texas

SHEET TITLE

EROSION CONTROL PLAN

DATE

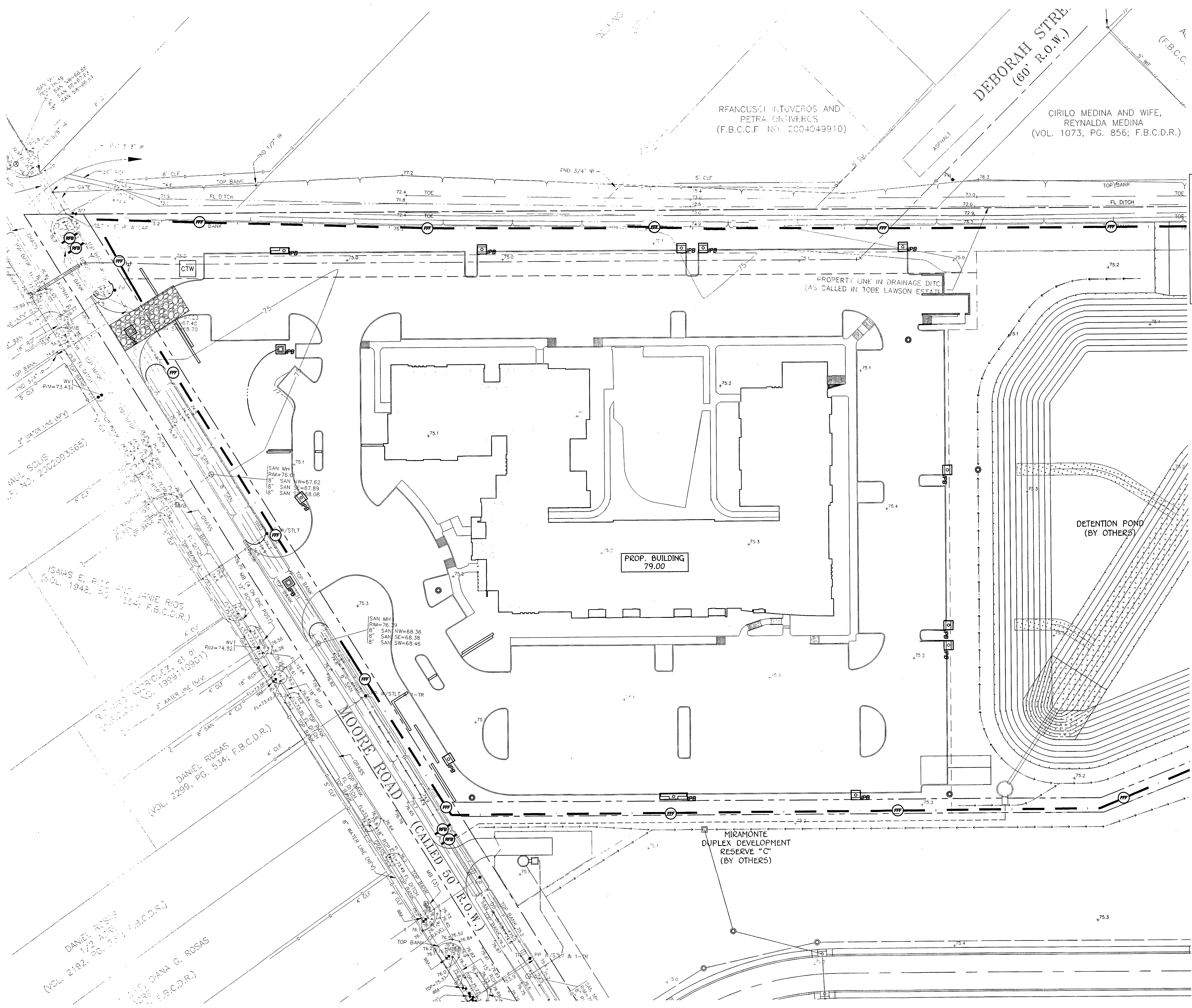
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SHEET NUMBER

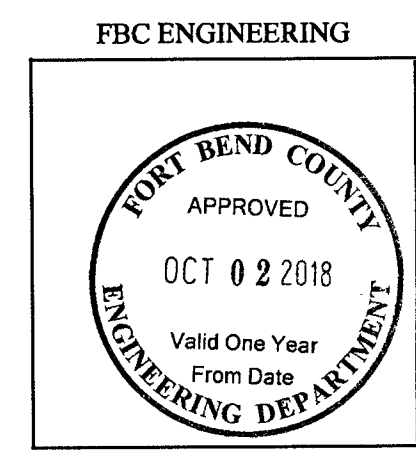
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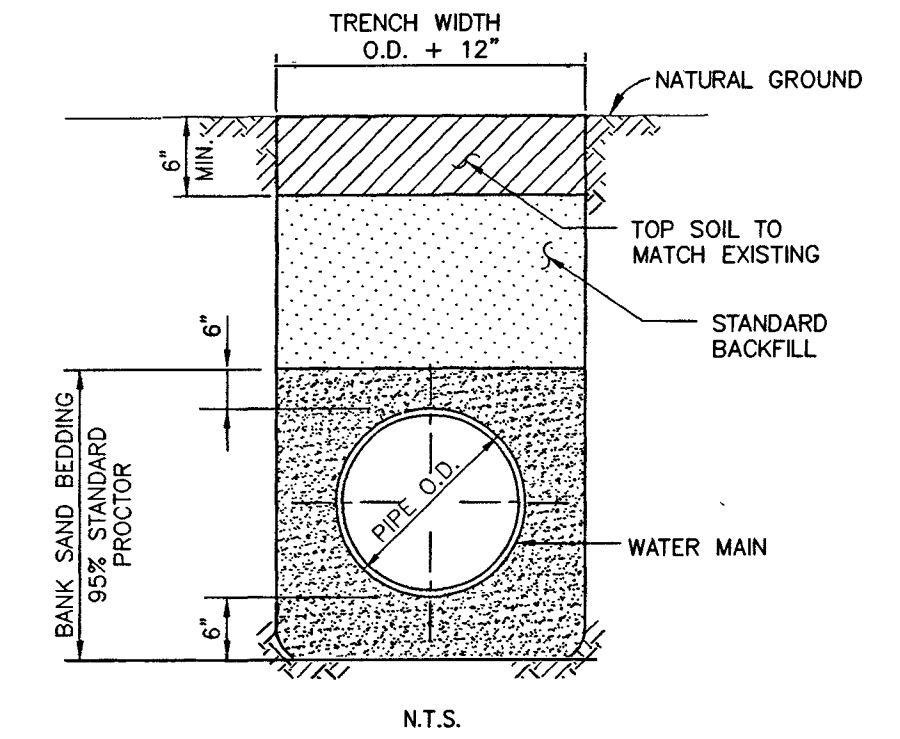
LEGEND

- DIRECTIONAL FLOW OF RUNOFF
- INLET PROTECTION BARRIER
- FILTER FABRIC FENCE TO BE PLACED 2' BEHIND CURB
- REINFORCED FABRIC BARRIER TO BE PLACED 2' BEHIND CURB
- CONCRETE TRUCK WASHOUT (TO BE WITHIN PROJECT LIMITS)
- STABILIZED CONSTRUCTION EXIT MINIMUM 50' L x 20' W



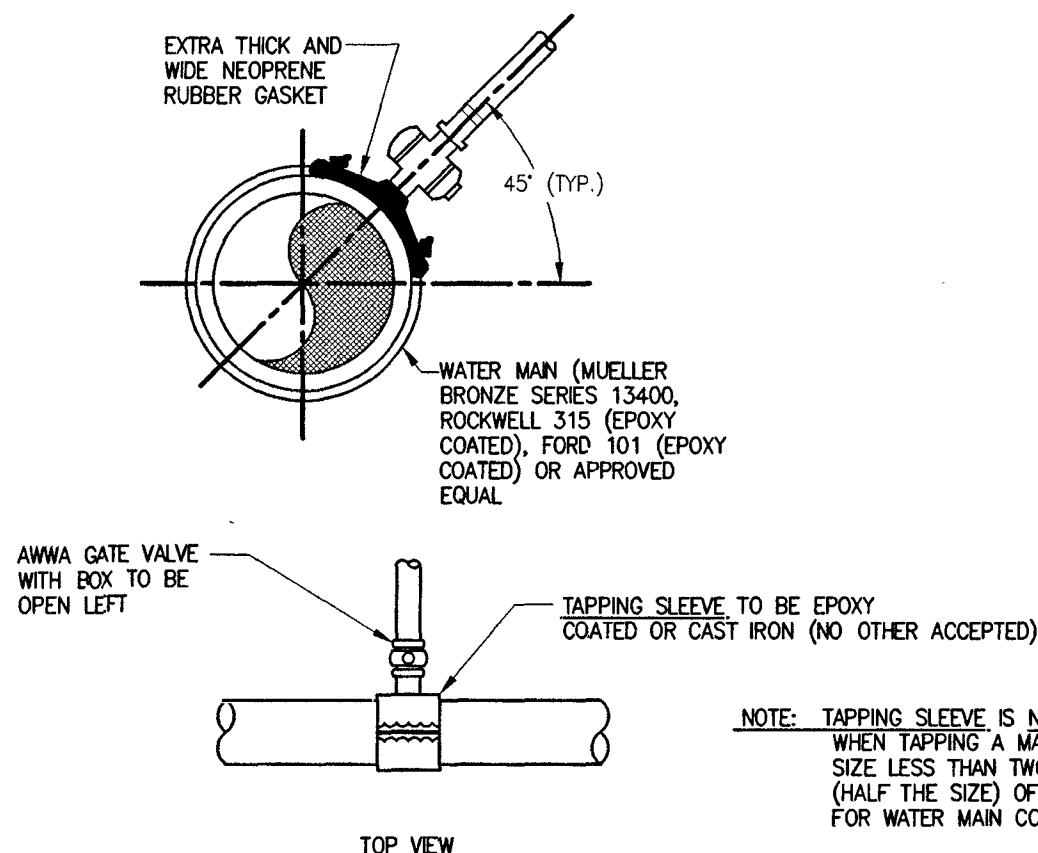
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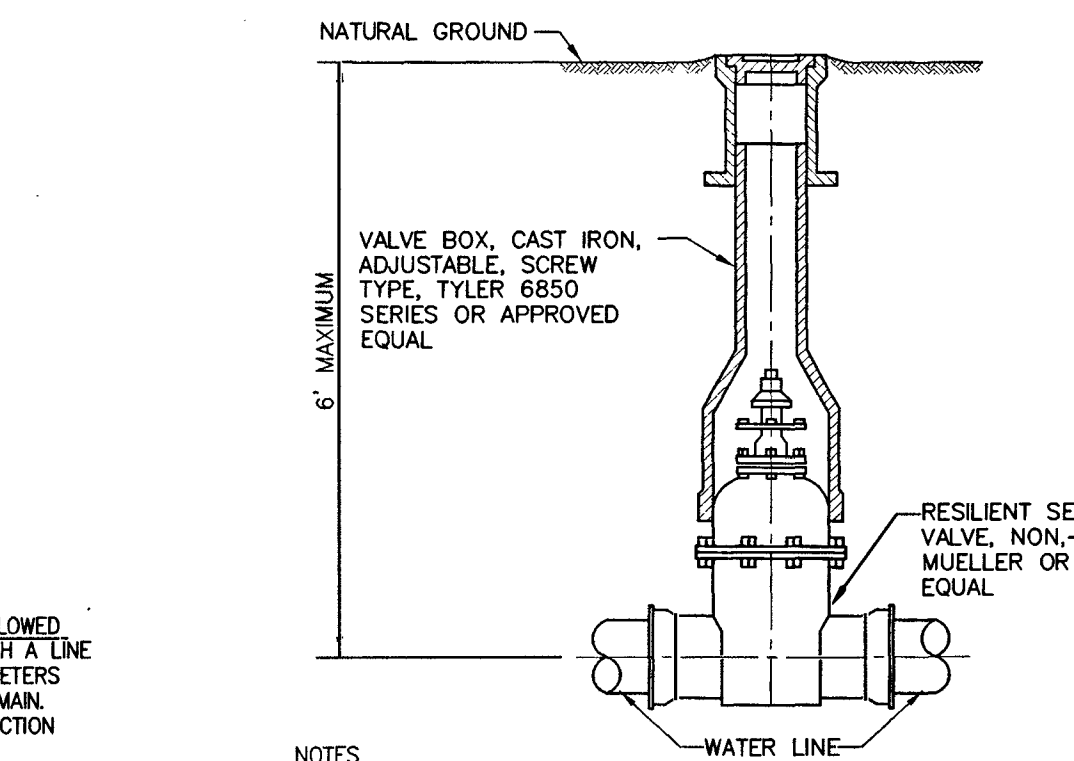


- NOTES**
- BACKFILL SHALL BE NATIVE SOIL, FREE OF DEBRIS, PLACED IN LIFTS, 6" THICK OR LESS, COMPACTED TO 85% STANDARD PROCTOR DENSITY, EXCEPT AS REQUIRED BELOW.
 - BACKFILL UNDER DRIVEWAY AND PUBLIC STREETS SHALL BE CEMENT STABILIZED SAND (1.5 SACKS OF CEMENT PER CUBIC YARD OF SAND), COMPACTED TO 95% STANDARD PROCTOR DENSITY.
 - TRENCH SHORING, IN ACCORDANCE WITH OSHA, SHALL BE INSTALLED AS REQUIRED.

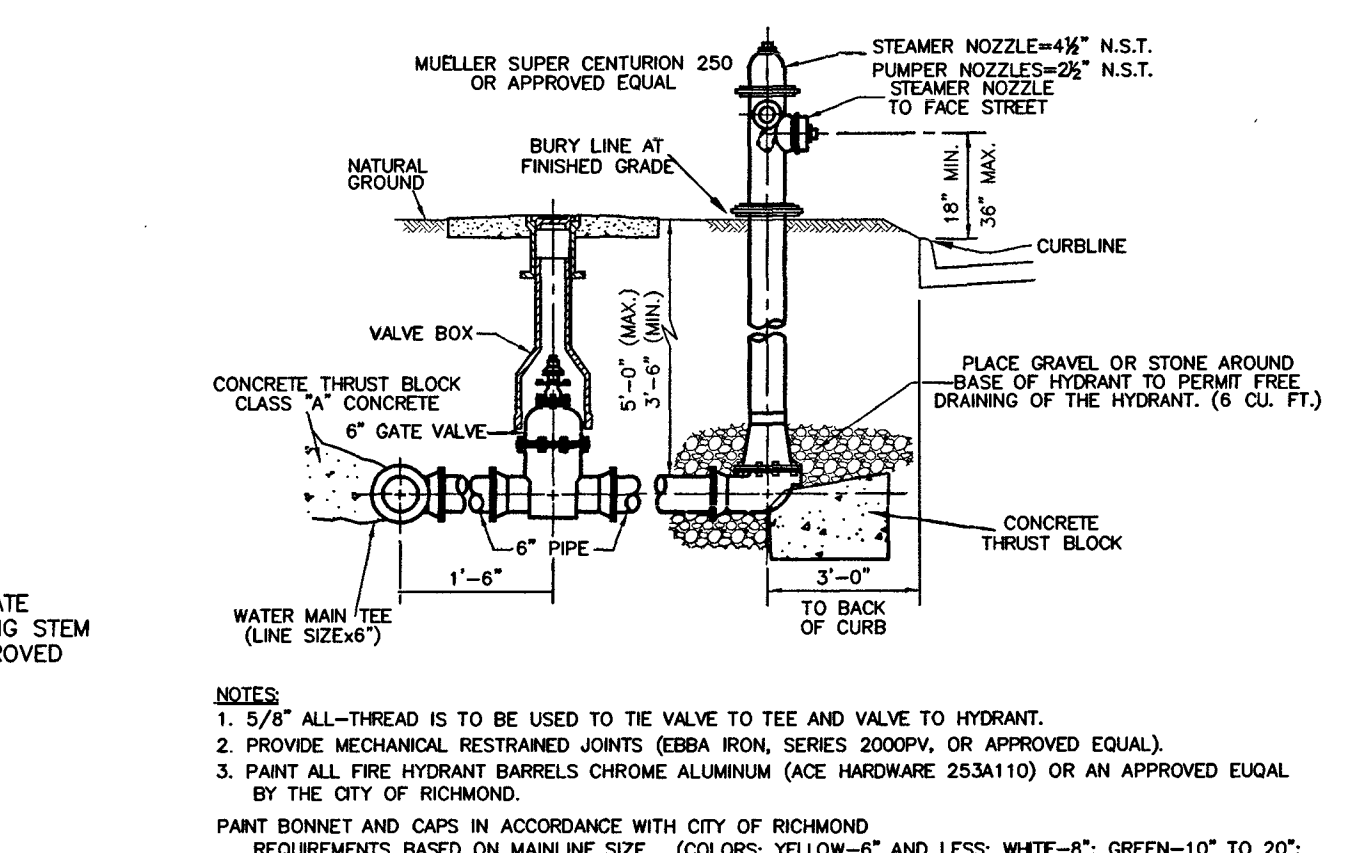
WATER MAIN BEDDING AND BACKFILL
SCALE: N.T.S.



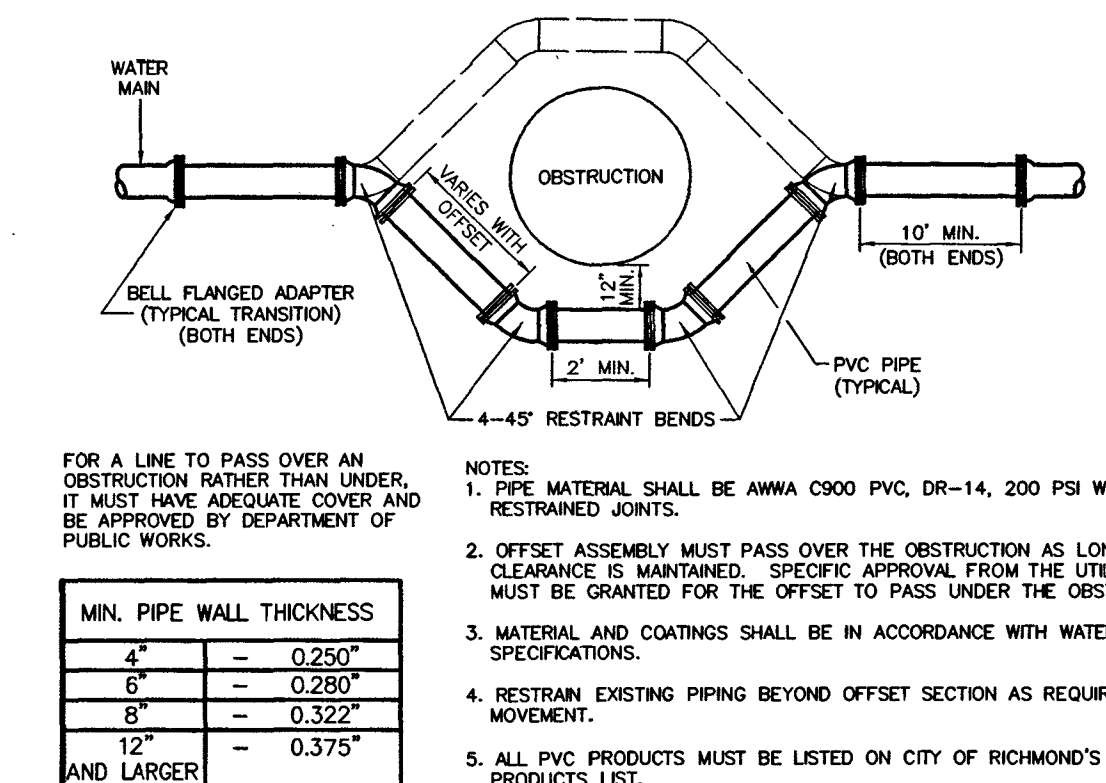
TAPPING SLEEVE & VALVE DETAIL
SCALE: N.T.S.



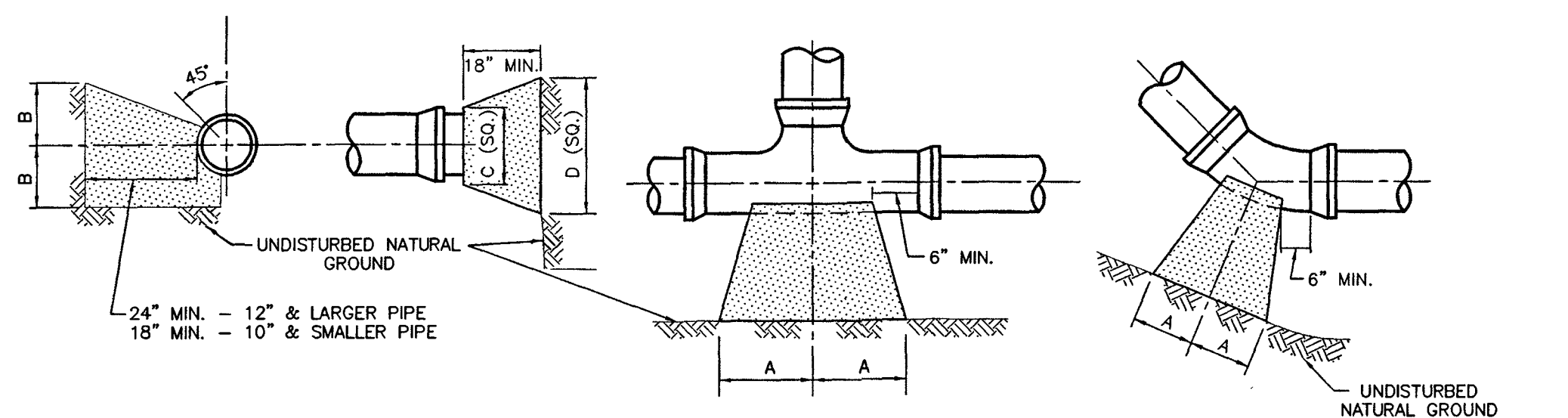
GATE VALVE & BOX
SCALE: N.T.S.



FIRE HYDRANT
SCALE: N.T.S.

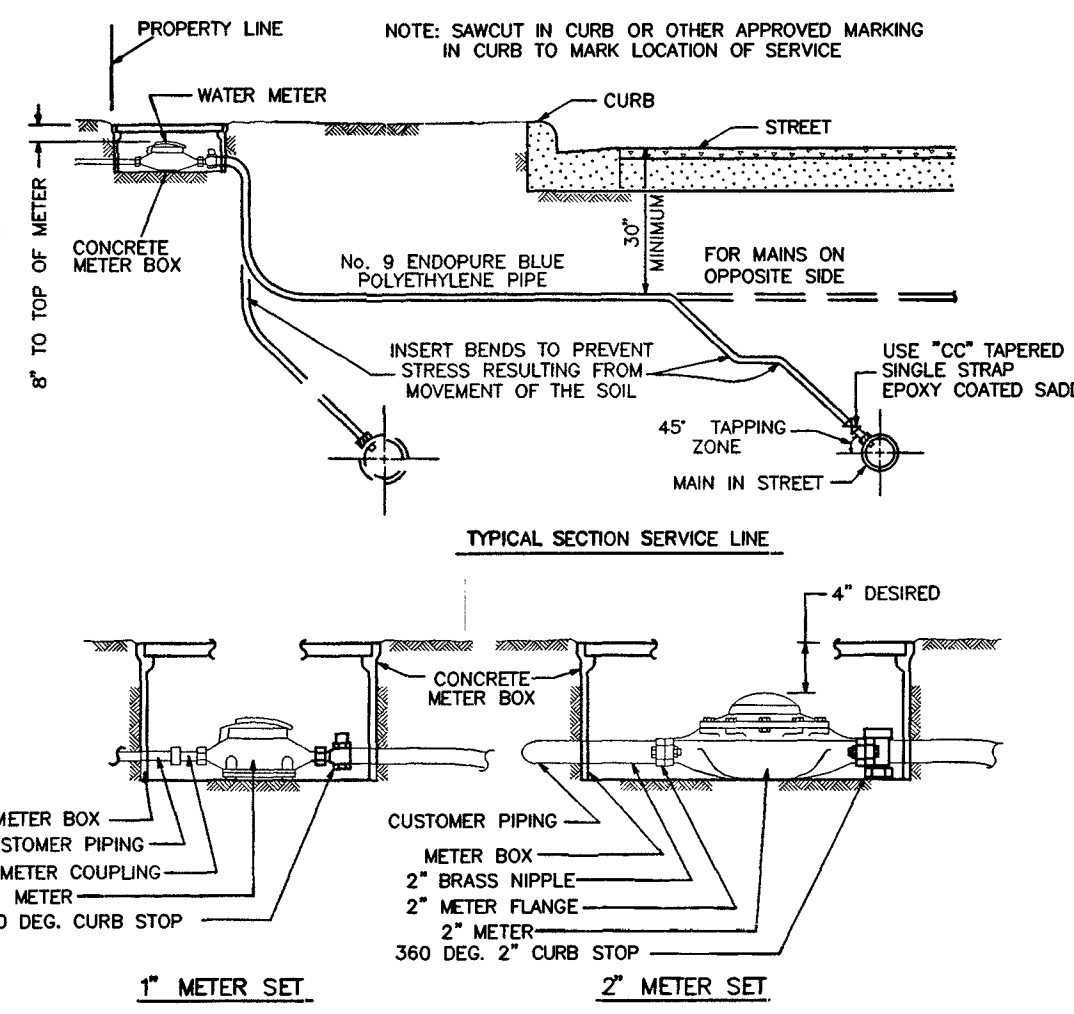


WATER PIPE OFFSET ASSEMBLY
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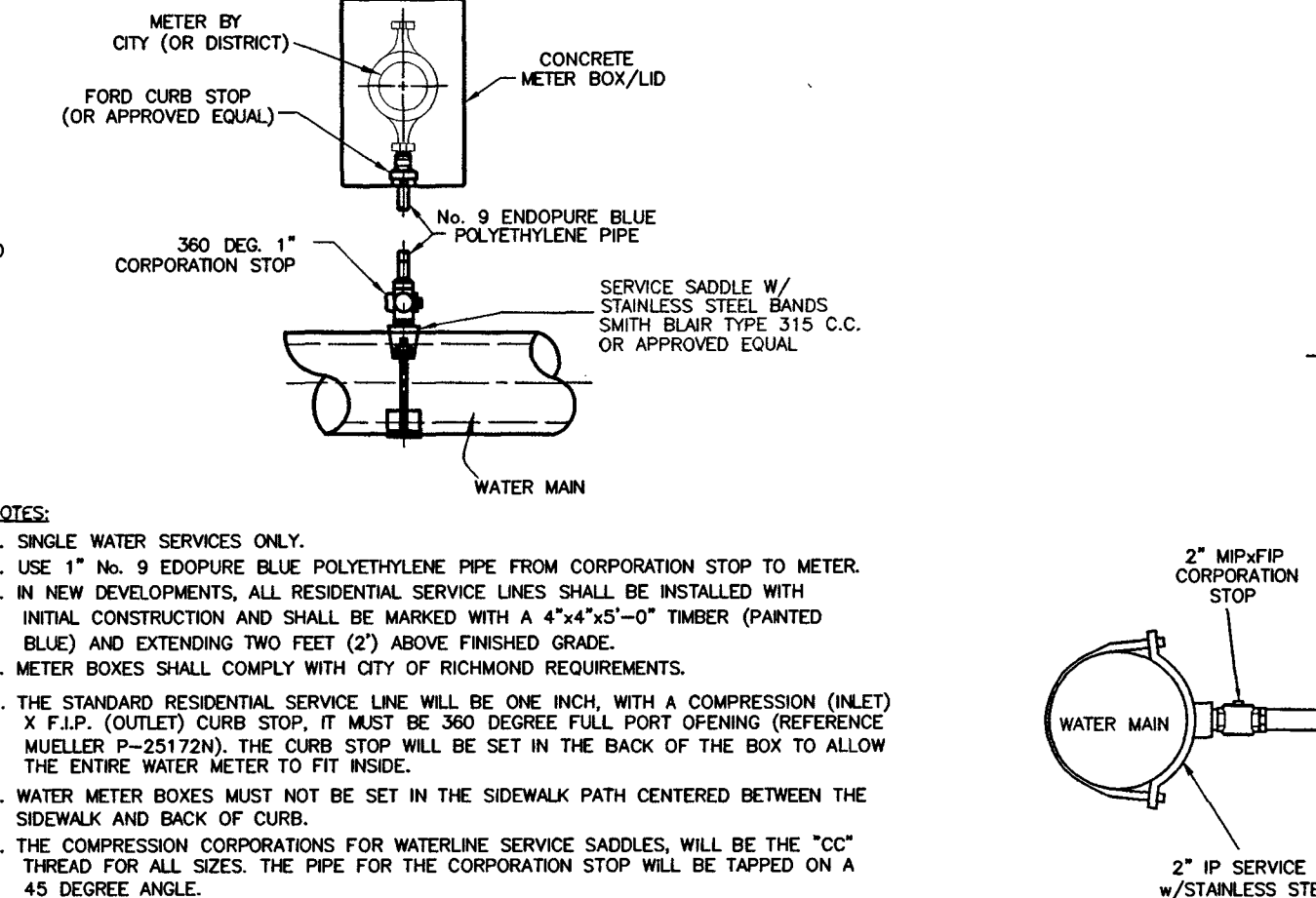


SIZE	90° BEND		45° BEND		22 1/2° BEND		TEES		PLUGS	
	A	B	A	B	A	B	A	B	A	B
2 1/2"	12"	7"	6"	7"	6"	6"	7"	8"	8"	14"
4"	14"	8"	7"	9"	6"	6"	8"	11"	8"	18"
6"	16"	10"	9"	10"	6"	6"	10"	12"	10"	21"
8"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
12"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
16"	38"	27"	21"	27"	12"	24"	24"	30"	20"	54"

THRUST BLOCK
SCALE: N.T.S.



RESIDENTIAL WATER METER AND SERVICE LINE
SCALE: N.T.S.



2" WATER SERVICE CONNECTION
SCALE: N.T.S.

MODEL	SIZE	LI	WT	H1	H2	WGT
BP3	3"	6'-0"	3'-4"	6'-0"	2'-0"	2,700
BP4	4"	6'-0"	3'-6"	6'-0"	2,900	
BP6	6"	7'-0"	4'-4"	6'-0"	9,000	
BP8	8"	7'-0"	4'-4"	6'-0"	15,000	
BP10	10"	9'-0"	6'-0"	7'-0"	18,000	
BP12	12"	9'-0"	6'-0"	7'-0"	18,000	

Specifications

CONCRETE: Class 1/3 concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

HATCHWAY: Aluminum diamond plate cover with extruded aluminum frame terminated with top flange open door support and slam lock. (300 P.S.F. live load)

Engineering Data

The backflow preventer shall be factory assembled in vault and hydrostatically tested prior to delivery. Field excavation & preparation shall be complete prior to delivery. Pipe, valves and fittings of the assembly shall be approved by one or more of the following associations:

PARK DESIGN FOR WATER
DOUBLE CHECK BACKFLOW PREVENTER ASSEMBLY

PROJECT: BBB811.PARK
CUSTOMER: www.park-usa.com
ENGINEER: www.park-usa.com
ORDER #: FMC-08
DATE: 04/17

MODEL	SIZE	BY-PASS SW	LI	WT	H1	H2	WGT
FMC-04	4"	2"	11'-4"	6'-0"	4'-8"	18,000	
FMC-06	6"	4"	11'-4"	6'-0"	4'-8"	18,000	
FMC-08	8"	4"	13'-0"	6'-0"	4'-8"	20,000	
FMC-10	10"	4"	16'-0"	7'-0"	4'-8"	45,000	

Specifications

CONCRETE: Class 1/3 concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

ACCESS COVER: 1/4" steel non-resistant floor plate welded to 3" angle frame with (2) 3/4" x 3/8" I-beam supports. Hatch to be furnished with 316 stainless steel slam lock & hinges.

ACCESS HATCHWAY: 1/4" steel non-resistant floor plate welded to 3" angle frame with (2) 3/4" x 3/8" I-beam supports. Hatch to be furnished with 316 stainless steel slam lock & hinges.

Engineering Data

The meter assembly shall be factory assembled in vault and hydrostatically tested prior to delivery. Field excavation & preparation shall be complete prior to delivery. Pipe, valves and fittings of the assembly shall be approved by one or more of the following associations:

PARK DESIGN FOR WATER
FIRE & DOMESTIC COMBINATION WATER METER ASSEMBLY
MODEL FMC - 4" THRU 10"

PROJECT: BBB811.PARK
CUSTOMER: www.park-usa.com
ENGINEER: www.park-usa.com
ORDER #: FMC-08
DATE: 04/17

MODEL	SIZE	BACKFLOW DIMENSIONS	ENCLOSURE DIMENSIONS PAD DIMENSIONS
RPBP4	4"	12" x 7" x 4" x 3" x 2"	12" x 12" x 12" x 12" x 12" x 12"
RPBP6	6"	13" x 7" x 4" x 3" x 2"	13" x 13" x 12" x 12" x 12" x 12"
RPBP8	8"	14" x 7" x 4" x 3" x 2"	14" x 14" x 12" x 12" x 12" x 12"
RPBP10	10"	16" x 7" x 4" x 3" x 2"	16" x 16" x 12" x 12" x 12" x 12"
RPBP12	12"	18" x 7" x 4" x 3" x 2"	18" x 18" x 12" x 12" x 12" x 12"

Specifications

CONCRETE: Class 1/3 concrete with design strength of 4500 PSI at 28 days.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

Typical Applications

RP devices are used to protect against high hazard (toxic) fluids in water services to industrial plants, hospital facilities, morgues, mortuaries, and chemical plants. They are also used in irrigation systems, boiler feed, water lines and other installations requiring maximum protection.

Engineering Data

The backflow preventer shall be factory assembled on pad and hydrostatically tested prior to delivery. Field excavation & preparation shall be complete prior to delivery. Pipe, valves and fittings of the assembly shall be approved by one or more of the following associations:

PARK DESIGN FOR WATER
REDUCED PRESSURE BACKFLOW PREVENTER ON PRECAST CONCRETE PAD

PROJECT: BBB811.PARK
CUSTOMER: www.park-usa.com
ENGINEER: www.park-usa.com
ORDER #: RPBP4-1
DATE: 01/17

MODEL	SIZE	LI	WT	H1	H2	WGT
FDCPV-4	4"	6'-0"	3'-0"	4'-0"	5,000	
FDCPV-6	6"	6'-0"	3'-0"	4'-0"	5,000	
FDCPV-8	8"	6'-0"	3'-0"	4'-0"	5,000	
FDCPV-10	10"	7'-0"	3'-0"	4'-0"	5,000	

Specifications

CONCRETE: Class 1 concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

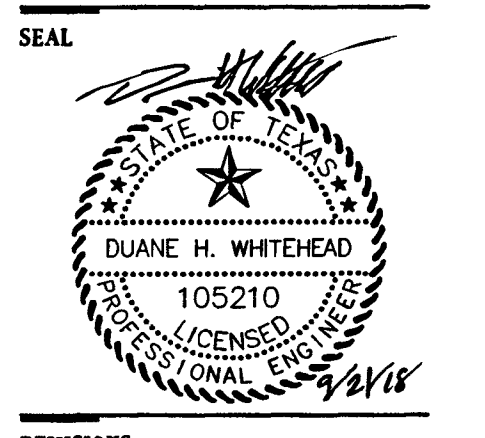
ACCESS COVER: 1/4" steel non-resistant floor plate welded to 3" angle frame with (2) 3/4" x 3/8" I-beam supports. Hatch to be furnished with 316 stainless steel bolts and hinges.

Engineering Data

The valve assembly shall be factory assembled in vault and hydrostatically tested prior to delivery. Field excavation & preparation shall be complete prior to delivery. Pipe, valves and fittings of the assembly shall be approved by one or more of the following associations:

PARK DESIGN FOR WATER
CHECK VALVE ASSEMBLY w/ 4" FDC & PIV
MODEL FDCPV - 4" THRU 10"

PROJECT: BBB811.PARK
CUSTOMER: www.park-usa.com
ENGINEER: www.park-usa.com
ORDER #: FDCPV-1
DATE: 01/17



REVISIONS

NO.	DATE	REVISION
09/19/18		PLAN REVIEW COMMENTS

PROJECT NUMBER: FBS1E18-005

Kelly R. Kaluza & Associates, Inc.
CONSULTING ENGINEERS & SURVEYORS
ENGINEERING FIRM NO. F-1289
SURVEYING FIRM NO. 1001000
3014 AVENUE I
ROSENBERG, TEXAS 77471
PH: 281.941.6006 FAX: 281.341.6838

PROJECT: _____

The Miramonte
RESERVE 'A'
Stafford, Texas

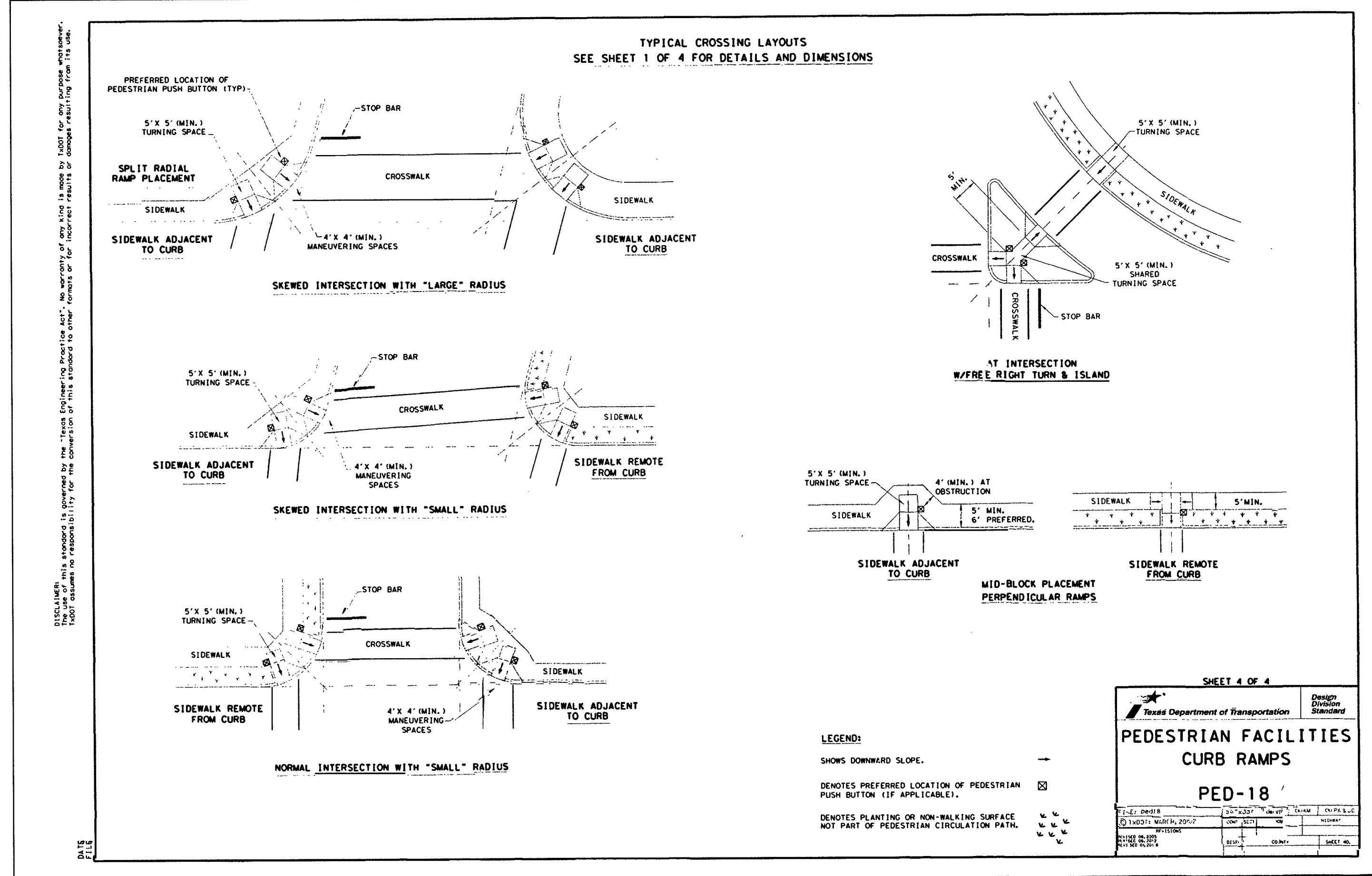
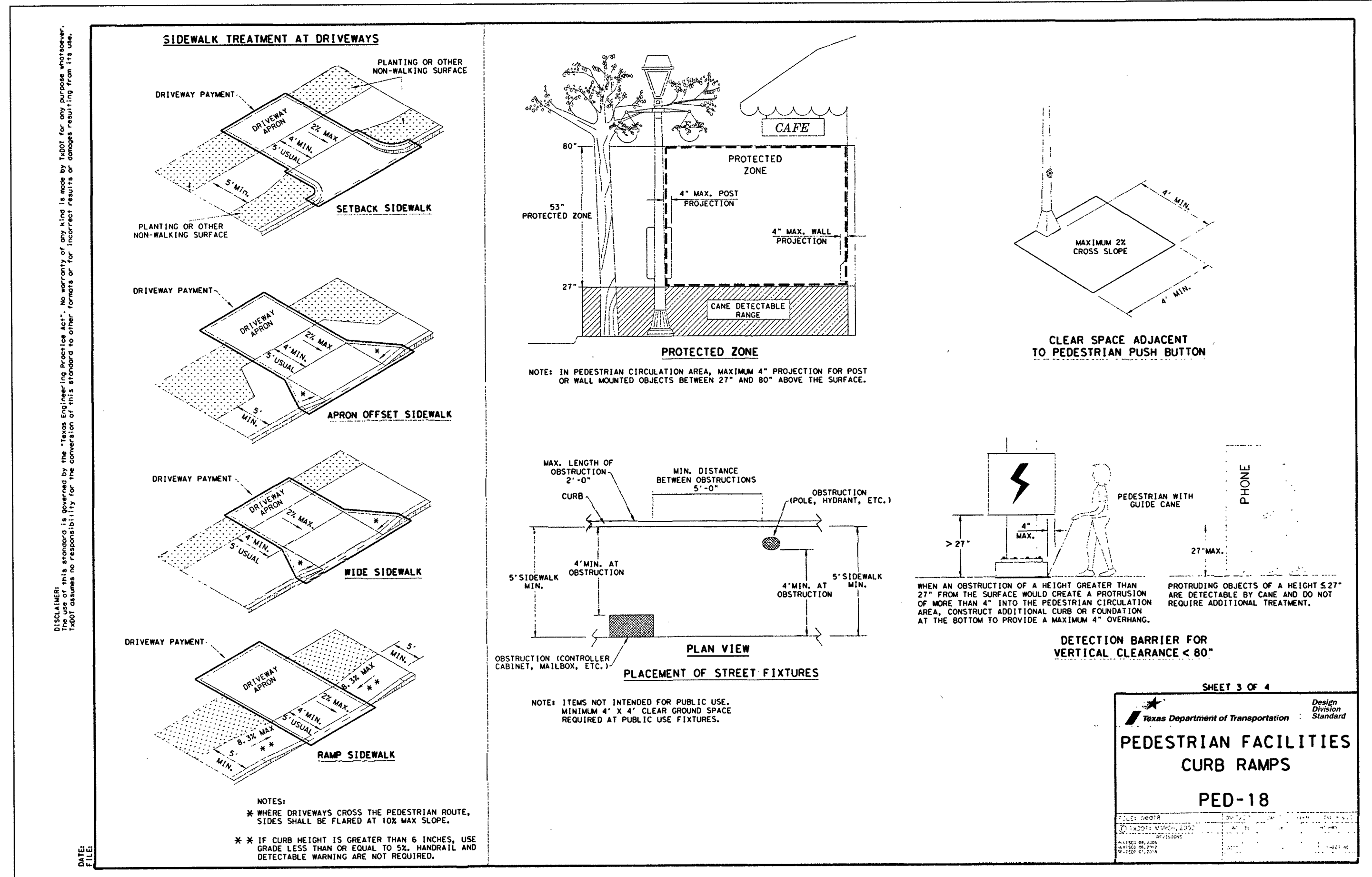
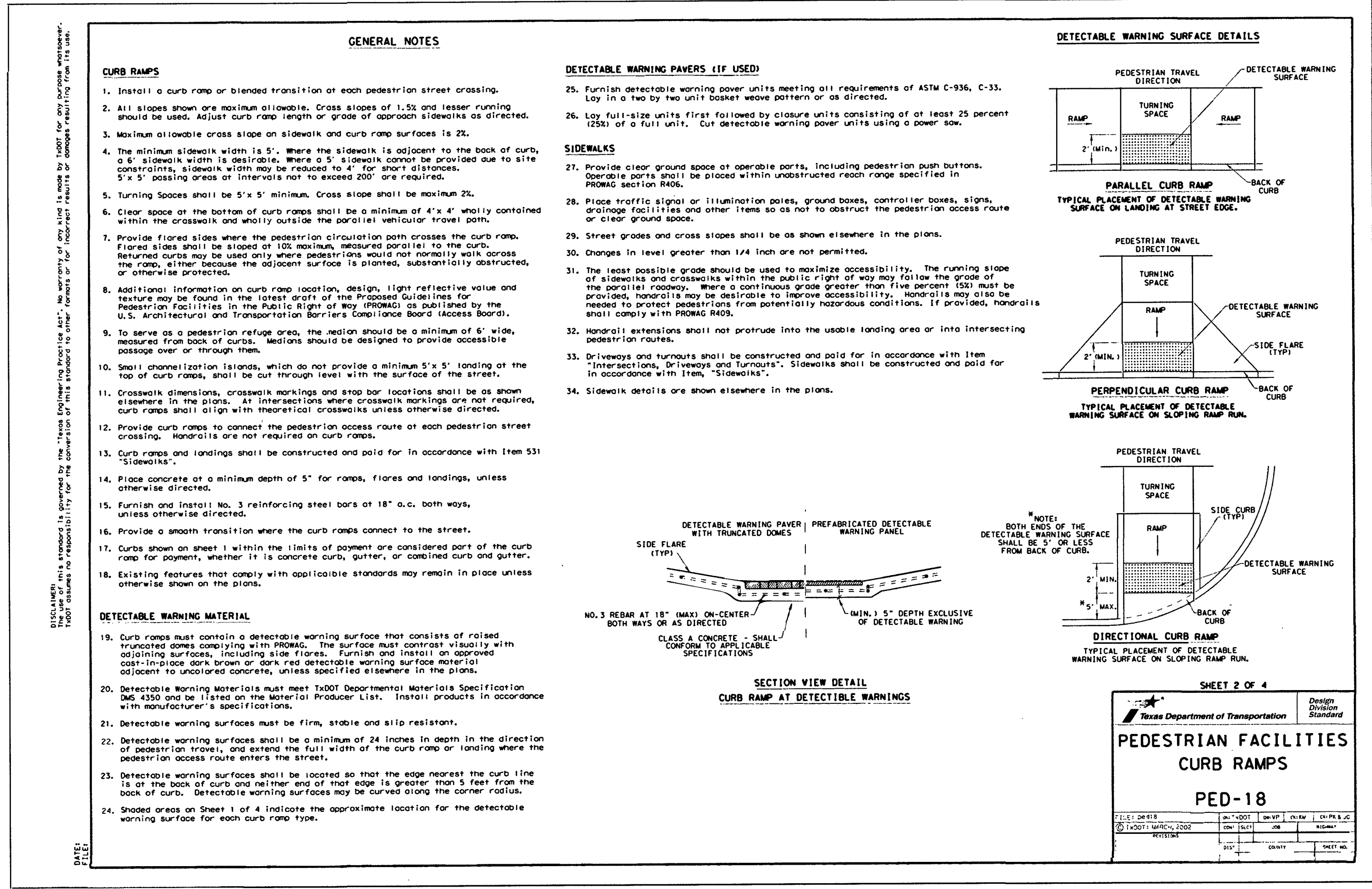
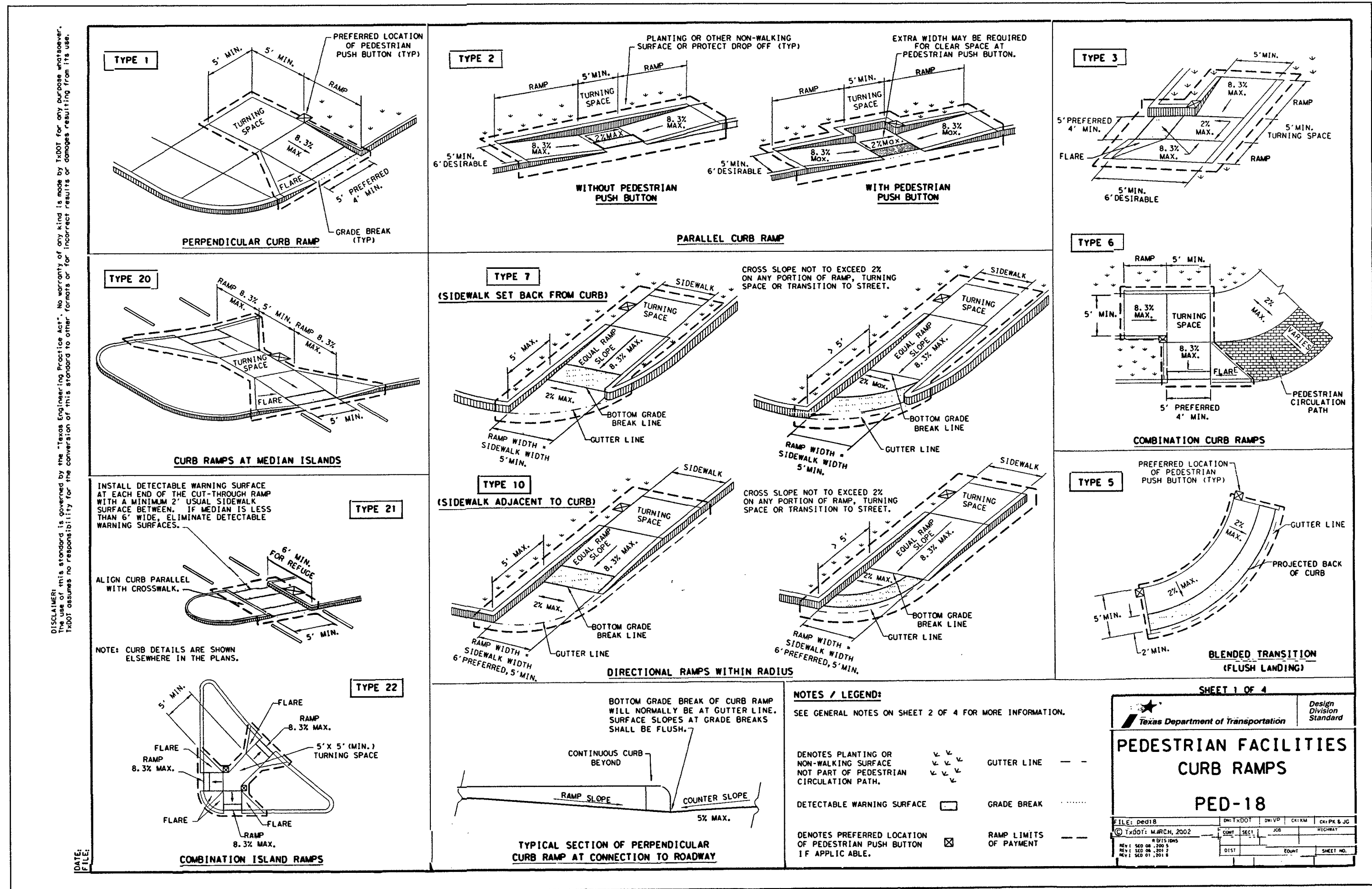
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CONSTRUCTION DETAILS

SHEET NUMBER
C5.04

DATE: August 2, 2018

APPROVED: _____
OCT 02 2018
Valid One Year From Date
ENGINEERING DEPARTMENT

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Plot Date: Friday, September 21, 2018 10:46:12 AM



SEAL

DUANE H. WHITEHEAD
105210
LICENSED PROFESSIONAL ENGINEER

REVISIONS

PROJECT NUMBER FBSITE18-005

Kelly R. Kaluza
& Associates, Inc.
CONSULTING ENGINEERS & SURVEYORS
ENGINEERING FIRM No. F-1339
SURVEYING FIRM No. 10010000
3014 AVENUE 17471
ROSEBUD, TEXAS 75782
PH: 281.341.0808, FAX: 281.341.6333

PROJECT

RESERVE 'A'
Stafford, Texas

SHEET TITLE

CONSTRUCTION DETAILS

DATE August 2, 2018

SHEET NUMBER

FBC ENGINEERING

APPROVED
OCT 02 2018
Valid One Year
From Date

C5.06

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