



**REVIEW BY FORT BEND COUNTY
COMMISSIONERS COURT**

**Fort Bend County
Engineering Department**
301 Jackson Suite 401
Richmond, Texas 77469
281.633.7500
Permits@fortbendcountytexas.gov

- ☒ Right of Way Permit
☐ Commercial Driveway Permit

Permit No: 2016-10782

Applicant: Paradigm Construction, LLC

Job Location Site: 5430 W Ridgescreek Drive , Houston, TX 77053

Bond No. **Date of Bond:** 12/7/2016 **Amount:** \$50,000.00

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

Notes:

1. Evidence of review by the Commissioners Court must be kept on the job site and failure to do so constitutes grounds for job shutdown.
2. Written notices are required:
 - a. 48 hours in advance of construction start up, and
 - b. When construction is completed and ready for final inspection, submit notification to Permit Administrator thru MyGovernmentOnline.org portal.
3. This permit expires one (1) year from date of permit if construction has not commenced.

On this 3rd day of January, 2017, Upon Motion of Commissioner Meyers, seconded by Commissioner Paterson, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

Signature

Presented to Commissioners Court and approved.

By: Charles O. Ay
for County Engineer

Date Recorded 1-10-17 Comm. Court No. 186

By: Mark Vogler
Drainage District Engineer/Manager

Clerk of Commissioners Court
By: Ronny Willis
Deputy

RECEIVED
DEC 30 2016
FBC DRAINAGE DIST.



**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: 2016-10782

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: \$50,000.00
- ☐ Cashier's Check Check No: _____ Amount: _____

(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):

Mark Vogler
Drainage District Approval

11/3/17
Date

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

Charly O. Al
Permit Administrator

12/22/16
Date

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**PERFORMANCE BOND COVERING ALL CABLE, CONDUIT AND/OR POLE LINE
ACTIVITY IN, UNDER, ACROSS OR ALONG FORT BEND COUNTY ROAD**

AUTHORIZED

BOND NO. [REDACTED]

THE STATE OF TEXAS

§

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF FORT BEND

§

THAT WE, Paradigm Construction, LLC whose address is 26865 I-45 North, Suite 300, The Woodlands, TX 77380 Texas, hereinafter called the Principal, And International Fidelity Insurance Company, a Corporation existing under and by virtue of the laws of the state of New Jersey and authorized to do an indemnifying business in the state of Texas, and whose principal office is located at One Newark Center, 20th Floor, Newark, NJ 07102, whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought whining said state is Eric Anderson and Whose address is 10077 Grogans Mill Rd. Ste 260, The Woodlands, TX 77380, 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 Thousand & 00/100 Dollars (\$50,000.00) 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 7th day of December, 2016.

Paradigm Construction, LLC

PRINCIPAL

BY

International Fidelity Insurance Company

SURETY

BY Dennis M. Descant, Jr., Attorney In Fact

RECEIVED
DEC 30 2016
FBC DRAINAGE DIST.

POWER OF ATTORNEY

INTERNATIONAL FIDELITY INSURANCE COMPANY ALLEGHENY CASUALTY COMPANY

ONE NEWARK CENTER, 20TH FLOOR NEWARK, NEW JERSEY 07102-5207

KNOW ALL MEN BY THESE PRESENTS: That INTERNATIONAL FIDELITY INSURANCE COMPANY, a corporation organized and existing under the laws of the State of New Jersey, and ALLEGHENY CASUALTY COMPANY a corporation organized and existing under the laws of the State of New Jersey, having their principal office in the City of Newark, New Jersey, do hereby constitute and appoint

ALICIA CANTAVELLA, CHERYL A. SANDERS, DENNIS M. DESCANT, JR., JEFFREY L. BRADY

Houston, TX.

their true and lawful attorney(s)-in-fact to execute, seal and deliver for and on its behalf as surety, any and all bonds and undertakings, contracts of indemnity and other writings obligatory in the nature thereof, which are or may be allowed, required or permitted by law, statute, rule, regulation, contract or otherwise, and the execution of such instrument(s) in pursuance of these presents, shall be as binding upon the said INTERNATIONAL FIDELITY INSURANCE COMPANY and ALLEGHENY CASUALTY COMPANY, as fully and amply, to all intents and purposes, as if the same had been duly executed and acknowledged by their regularly elected officers at their principal offices.

This Power of Attorney is executed, and may be revoked, pursuant to and by authority of the By-Laws of INTERNATIONAL FIDELITY INSURANCE COMPANY and ALLEGHENY CASUALTY COMPANY and is granted under and by authority of the following resolution adopted by the Board of Directors of INTERNATIONAL FIDELITY INSURANCE COMPANY at a meeting duly held on the 20th day of July, 2010 and by the Board of Directors of ALLEGHENY CASUALTY COMPANY at a meeting duly held on the 15th day of August, 2000:

"RESOLVED, that (1) the President, Vice President, Chief Executive Officer or Secretary of the Corporation shall have the power to appoint, and to revoke the appointments of, Attorneys-in-Fact or agents with power and authority as defined or limited in their respective powers of attorney, and to execute on behalf of the Corporation and affix the Corporation's seal thereto, bonds, undertakings, recognizances, contracts of indemnity and other written obligations in the nature thereof or related thereto; and (2) any such Officers of the Corporation may appoint and revoke the appointments of joint-control custodians, agents for acceptance of process, and Attorneys-in-fact with authority to execute waivers and consents on behalf of the Corporation; and (3) the signature of any such Officer of the Corporation and the Corporation's seal may be affixed by facsimile to any power of attorney or certification given for the execution of any bond, undertaking, recognizance, contract of indemnity or other written obligation in the nature thereof or related thereto, such signature and seals when so used whether heretofore or hereafter, being hereby adopted by the Corporation as the original signature of such officer and the original seal of the Corporation, to be valid and binding upon the Corporation with the same force and effect as though manually affixed."

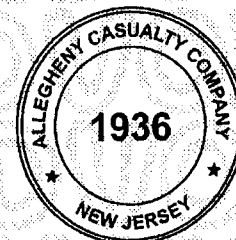
IN WITNESS WHEREOF, INTERNATIONAL FIDELITY INSURANCE COMPANY and ALLEGHENY CASUALTY COMPANY have each executed and attested these presents on this 31st day of December, 2015.



STATE OF NEW JERSEY
County of Essex

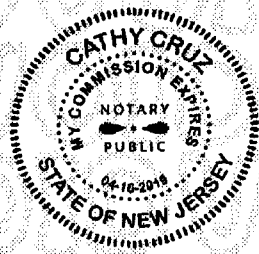
Robert W. Minster

ROBERT W. MINSTER
Chief Executive Officer (International Fidelity Insurance Company) and President (Allegheny Casualty Company)



On this 31st day of December 2015, before me came the individual who executed the preceding instrument, to me personally known, and, being by me duly sworn, said he is the therein described and authorized officer of INTERNATIONAL FIDELITY INSURANCE COMPANY and ALLEGHENY CASUALTY COMPANY; that the seals affixed to said instrument are the Corporate Seals of said Companies; that the said Corporate Seals and his signature were duly affixed by order of the Boards of Directors of said Companies.

IN TESTIMONY WHEREOF, I have hereunto set my hand affixed my Official Seal, at the City of Newark, New Jersey the day and year first above written.



Cathy Cruz

A NOTARY PUBLIC OF NEW JERSEY
My Commission Expires April 10, 2018

CERTIFICATION

I, the undersigned officer of INTERNATIONAL FIDELITY INSURANCE COMPANY and ALLEGHENY CASUALTY COMPANY, do hereby certify that I have compared the foregoing copy of the Power of Attorney and affidavit, and the copy of the Sections of the By-Laws of said Companies as set forth in said Power of Attorney, with the originals on file in the home office of said companies, and that the same are correct transcripts thereof and of the whole of the said originals, and that the said Power of Attorney has not been revoked and is now in full force and effect.

IN TESTIMONY WHEREOF, I have hereunto set my hand this

7th day of December, 2016

Maria H. Branco

MARIA BRANCO, Assistant Secretary

RECEIVED
DEC 30 2016
FBC DRAINAGE DIST.

IMPORTANT NOTICE

TO OBTAIN INFORMATION OR MAKE A COMPLAINT:

You may call International Fidelity Insurance Company's toll-free telephone number for information or to make a complaint at:

800-333-4167

You may also write to International Fidelity Insurance Company at:

**Attn: Claims Department
One Newark Center, 20th Floor
Newark, NJ 07102**

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

800-252-3439

You may write the Texas Department of Insurance at:

**P.O. Box 149104
Austin, TX 78714-9104**

ATTACH THIS NOTICE TO YOUR BOND. This notice is for information only and does not become a part or a condition of the attached document and is given to comply with Section 2253.048, Government Code, and Section 53.202, Property Code, effective September 1, 2001.

DRAINAGE DISTRICT
Fort Bend County, Texas

March 31, 2016

Mr. Scott R. Sheridan, PE, RPLS, CFM
Daniel Scott Engineering, LLC
P.O. Box 1549
Alvin, Texas 77512-1549

**Re: St. Mark The Evangelist Catholic Church Parking Addition
5430 West Ridgecreek Drive
Site Plan**

Dear Mr. Sheridan:

The Fort Bend County Drainage District staff has received the referenced plans, signed and sealed March 15, 2016, for review and comment. This project will add a parking lot and detention equivalent to 1.0 acre improvements with an outfall into Sims Bayou Lateral VIII-A. Detention will be provided in accordance with the FBC Drainage Criteria Manual for the parking lot addition and detention area. The Drainage District interposes no objection to the plan as submitted and shall be resubmitted for approval if the plans change after this date.

The site is also located within the incorporated limits of the City of Houston, which is the responsible entity for review, approval and permitting, however as noted on the plans, the outfall will need to be permitted through the FBC Engineering Department prior to installation.

The attached "Certificate of Completion" form is required and shall be completed by the design engineer when the detention pond and appurtenances have been constructed in accordance with the approved plans.

This does not release the requirements of any other governmental agency regarding approval, permitting or construction of the drainage requirements for the particular entities, i.e. such as M.U.D.'s, L.I.D.'s, etc.

Please note this does not necessarily mean that the entire supporting data and calculations have been completely checked and verified. However, the plans are signed, dated and sealed by a Professional Engineer licensed to practice in the State of Texas, which therefore conveys the engineer's responsibility and accountability.

If you should have any questions, please do not hesitate to contact me at 281-342-2863 or by email at dwayne.grigar@fortbendcountytx.gov.

FORT BEND COUNTY CITY OF HOUSTON, TEXAS

ST. MARK THE EVANGELIST CATHOLIC CHURCH PARKING ADDITION CONSTRUCTION PLANS



DRAWING INDEX

SHEET # DRAWING NAME

CIVIL PLANS

1. VICINITY MAP, LOCATION MAP & DRAWING INDEX
2. SITE PLAN
3. PROPOSED PARKING LOT LAYOUT & GRADING PLAN
4. DRAINAGE PLAN
5. DRAINAGE CALCULATIONS & DETAILS
6. DETENTION POND & OUTFALL CROSS-SECTION
7. ADS UNDERGROUND DETENTION SYSTEM DETAILS
8. PAVING PLAN
9. SWPPP
10. PAVING DETAILS

LANDSCAPE PLANS

- LS1.0 LANDSCAPE PLAN(WITH PARKING SUMMARY)



PROJECT LOCATION
LOCATION MAP



VICINITY MAP
SCALE: 1/8" = 1/4" MILE
NEW MAP NO. 5/11/1
GMS MAP NO. 5/15/04
PFC CODE NO. 7705.8

KINDER MORGAN PIPELINE NOTES

1. KINDER MORGAN HAS NO OBJECTION TO THE CONSTRUCTION OF THE DRAINAGE SWELL AS INDICATED IN THE ATTACHED PLANS. THE SWELL CANNOT BE PARALLEL DIRECTLY OVER THE PIPELINE. THE SWELL CUT SHOULD BE OFFSET OF THE PIPELINE SUCH THAT NO COVER IS REMOVED FROM ABOVE THE PIPELINE EXCEPT AT POSSIBLE CROSSING POINTS. SWELL CROSSING OF THE PIPELINE CANNOT REDUCE THE PIPE COVER TO LESS THAN 3' AT ANY PIPELINE CROSSING POINT. SWELL DESIGN AND CONSTRUCTION SHOULD MAINTAIN WATER DRAINAGE OFF THE PIPELINE FRONT OF WAY AND NOT CAUSE FLOODING OF WATER ON THE PIPELINE RIGHT OF WAY. REPAIRS FOR FUTURE EROSION RESULTING FROM CONSTRUCTION OF THE SWELL WILL BE THE RESPONSIBILITY OF ST. MARK'S CATHOLIC CHURCH TO REPAIR.
2. KINDER MORGAN WILL REQUIRE THE CONSTRUCTION CONTRACTOR FOLLOW THE ATTACHED GUIDELINES AND NOTIFY THE KINDER MORGAN MISSOURI CITY TEXAS OPERATIONS OFFICE AT (281) 566-1802 AND ISSUE A TEXAS ONE CALL PHONE NO. 811 PRIOR TO CONSTRUCTION TO SCHEDULE A KINDER MORGAN DAMAGE PREVENTION INSPECTOR TO BE ON LOCATION WHEN WORK IS BEING CONDUCTED WITHIN 25' OF THE HIGH PRESSURE NATURAL GAS PIPELINE.
3. KINDER MORGAN INSPECTORS WILL CONFIRM CLEARANCES AND WE RESERVE THE RIGHT TO REVOKE APPROVAL AND REQUIRE ADJUSTMENT AT YOUR EXPENSE OF ANY CONSTRUCTION THAT DOES NOT MEET THE REQUIREMENTS AS OUTLINED ABOVE OR AS SET FORTH IN THE ATTACHED GUIDELINE OR INTERFERES IN ANY WAY WITH KINDER MORGAN'S RIGHTS UNDER ITS EASEMENT OR AS PIPELINE OWNER / OPERATOR, OR COMPROMISES THE SAFETY OF THE PIPELINE OPERATION.
4. CONTRACTOR TO CONTACT DESIGN ENGINEER TO ACQUIRE KINDER MORGAN'S GUIDELINES FOR DESIGN AND CONSTRUCTION NEAR KINDER MORGAN OPERATED FACILITIES PRIOR TO COMMENCING CONSTRUCTION.

FORT BEND COUNTY DRAINAGE DISTRICT NOTES

1. THE UNDERGROUND DETENTION SYSTEM, DETENTION POND AND ALL APPURTENANCES WILL BE OWNED AND MAINTAINED BY THE OWNER.
2. THE OUTFALL PIPE WILL NEED TO BE PERMITTED WITH THE FORT BEND COUNTY ENGINEERING DEPARTMENT PRIOR TO INSTALLATION. PERMIT INFORMATION CAN BE FOUND ONLINE AT WWW.FORTBENDCOUNTYTX.GOV/231-633-7900.

DANIEL SCOTT
ENGINEERING, LLC

P.O. BOX 1542, ALVIN, TX 77512
TELE: 7-5927

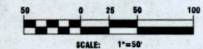
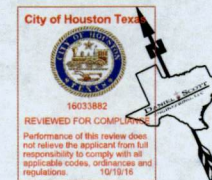
(281) 519-9530
scott@danielsscottengineering.com

SUPERVISOR
B. R. SHERMAN
EDWARD K. R. BOWLES, P.E.
7718 HENDER FOREST COURT
HOUSTON, TEXAS 77055
PHONE: (713) 942-2000

DEVELOPER
ST. MARK THE EVANGELIST
5430 W. RIDGE CREEK DRIVE
HOUSTON, TEXAS 77053



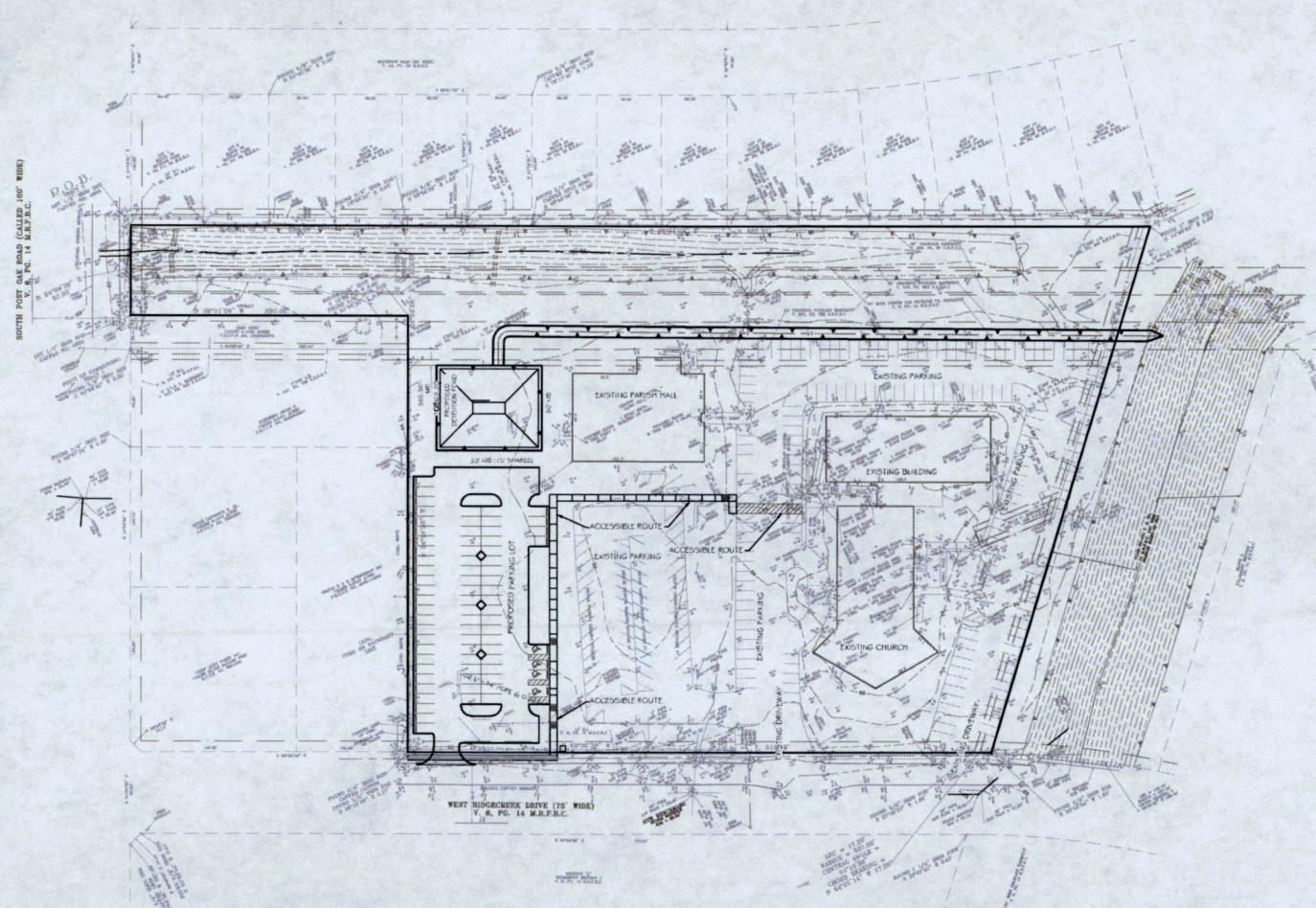
ST. MARK THE EVANGELIST CATHOLIC CHURCH PARKING ADDITION




FLOOD STATEMENT
THIS TRACT IS LOCATED WITHIN THE 1% AREAS DETERMINED TO BE OUTSIDE
OF THE CHANCE FLOODPLAIN. THIS IS ACCORDING TO FIRM NUMBER
45001C1004, DATED JUNE 15, 2007.
BENCHMARK EL 56.07
TEMPORARY BENCHMARK (TBM) EL 62.52
STORM 1% FLOOD EST. LOCATION SHOWN ON PLANS

LEGEND

- AC ACRES
 - BL BUILDING LINE
 - BSDD BACK SLOPE SWALE OUTFALL
 - CFS CUBIC FEET PER SECOND (FLOW RATE)
 - CMP CORRUGATED METAL PIPE
 - CPC CONCRETE PILOT CHANNEL
 - DE DRAINING EASEMENT
 - EL ELEVATION
 - EO EMERGENCY OVERFLOW
 - EXIST EXISTING
 - FG FINISHED GRADE
 - FL 46.27 FLOWLINE ELEVATION
 - FF MINIMUM FINISHED FLOOR
 - HDPE HIGH DENSITY POLYETHYLENE PIPE
 - JB JUNCTION BOX
 - LS LANDSCAPE EASEMENT
 - MR MAINTENANCE ROAD
 - MR MARKER
 - PP PROPOSED
 - PRM PROJECT BENCHMARK NUMBER
 - POINT POINT
 - RCD REINFORCED CONCRETE BOX
 - RCP REINFORCED CONCRETE PIPE
 - ROW RIGHT OF WAY
 - SDR SLOPE DRAINAGE
 - SSGD STORM SEWER GUTTER AND CULVERT STRUCTURE
 - STRM STORM
 - WE WATERLINE EASEMENT
- WHEEL STOP PLACED 2' 0" FROM PROPERTY LINE OR FROM INSIDE SIDEWALK
- PROPOSED HANDICAP PARKING SPACE
- PROPOSED WHEELCHAIR RAMP





OCTOBER 09, 2016

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DANIEL SCOTT ENGINEERING, LLC

1801 F. 802
P.O. BOX 1010, HOUSTON, TX 77210
TEL: 281.519.8100
WWW.DANIELSCOTT-ENGINEERING.COM

ST. MARK THE EVANGELIST CATHOLIC CHURCH PARKING ADDITION
HOUSTON, FORT BEND COUNTY, TEXAS

SITE PLAN

SURVEYOR:
BTS SURVEYING CO.
EDWARD KANE BOHLES, R.P.L.S.
7215 HOLLIFIELD FOREST COURT
HOUSTON, TEXAS 77066
PHONE: (713) 948-2000

DEVELOPER:
FR. OSCAR CASTRO, PASTOR
ST. MARK THE EVANGELIST
5430 W. RIDGEMORE DRIVE
HOUSTON, TEXAS 77055

DATE: 10/19/16	DATE: 10/19/16
SCALE: 1"=50'	SCALE: 1"=50'
2 of 10	DS-15006-160

NOTES

1. ALL PROPOSED FILL WILL BE PLACED IN 6" MAXIMUM LIFTS AND COMPACTED TO 95% DENSITY.
2. CONTRACTOR MUST VERIFY EXISTING CONDITIONS BEFORE COMMENCING ANY CONSTRUCTION.
3. ALL DISTURBED AREAS SHALL BE SODDED OR PLACED BACK TO EXISTING OR BETTER CONDITION.
4. ALL STORM SEWER LINES, INLETS AND MANHOLES SHALL BE BEDDED AND BACKFILLED WITH CEMENT STABILIZED SAND PER THE PROVIDED DETAILS.
5. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND MAINTAINING ALL NECESSARY PERMITS.

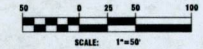
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2. KINDER MORGAN WILL REQUIRE THE CONSTRUCTION CONTRACTOR FOLLOW THE ATTACHED GUIDELINES AND NOTIFY THE KINDER MORGAN MISSOURI CITY LEADS OPERATIONS OFFICE AT 281-856-1602 AND ISSUE A LEADS ONE CALL PHONE NO. 811 PRIOR TO CONSTRUCTION TO SCHEDULE A KINDER MORGAN DAMAGE PREVENTION INSPECTOR TO BE ON LOCATION WHEN WORK IS BEING CONDUCTED WITHIN 25' OF THE HIGH PRESSURE NATURAL GAS PIPELINE.
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City of Houston Texas



16033882
REVIEWED FOR COMPLIANCE
Performance of this review does not relieve the applicant from full responsibility to comply with all applicable codes, ordinances and regulations.
10/19/16



SCALE: 1"=50'

FLOOD STATEMENT

THIS TRACT IS LOCATED IN ZONE "X" AREAS DETERMINED TO BE OUTSIDE OF THE CHANGED FLOODPLAIN. THIS IS ACCORDING TO FIRM NUMBER 45201C1005L DATED JUNE 16, 2007.
BENCHMARK: EL 56.07
EXTENT: 100% BASED 1985-2001 ADJUSTMENT
TEMPORARY BENCHMARK (ITEM): EL 62.52
STORM STAINHOLE REM. LOCATION SHOWN ON PLANS

LEGEND

- AC ALUMINUM CORRUGATED METAL PIPE
- ACMP ALUMINUM CORRUGATED METAL PIPE
- BL BUILDING LINE
- BO/SO BACK SLOPE SWALE OUTFALL
- C/S CUBIC FEET PER SECOND (FLOW RATE)
- CMP CORRUGATED METAL PIPE
- CPC CONCRETE PILOT CHANNEL
- DE DRAINAGE EASEMENT
- EL ELEVATION
- EO EMERGENCY OVERFLOW
- EXIST EXISTING
- FG FINISHED GRADE
- FL 46.27 FLOWLINE ELEVATION
- FF FINISHED FLOOR
- HDPE HIGH DENSITY POLYETHYLENE PIPE
- JB JUNCTION BOX
- LSZ LANDSCAPE EASEMENT
- MD MAINTENANCE EASEMENT
- MAN MANHOLE
- PCOMP POLY COATED CORRUGATED METAL PIPE
- PF FINDER POLE
- PROP PROPOSED
- PRM PROJECT BENCHMARK NUMBER
- PAINT PAINT
- RCB REINFORCED CONCRETE BOX
- RCF REINFORCED CONCRETE PIPE
- RCW RIGHT OF WAY
- SDR SILENCE DIAMETER RATIO PIPE
- SSOS STORM SEWER INLET AND OUTLET STRUCTURE
- STEM STORM
- WLE WATERLINE EASEMENT
- DIRECTIONAL DRAINAGE FLOW ARROW
- DIRECTIONAL EXTREME EVENT FLOW ARROW
- BLOCK NUMBER
- DRAINAGE AREA - INLET NUMBER
- AREA (ACRES)
- DRAINAGE AREA DIVIDE

SURVEYOR:
BY SUPPORTING CO.
EDWARD KANE, ROWLES, R.P.L.S.
7215 HOLDER FOREST COURT
HOUSTON, TEXAS 77056
PHONE: (713) 944-2000

DEVELOPER:
FR. OSCAR CASIRO, PASTOR
ST. MARK THE EVANGELIST
1430 N. RIDGECREEK DRIVE
HOUSTON, TEXAS 77053

OCTOBER 05, 2016

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DANIEL SCOTT ENGINEERING, L.L.C.

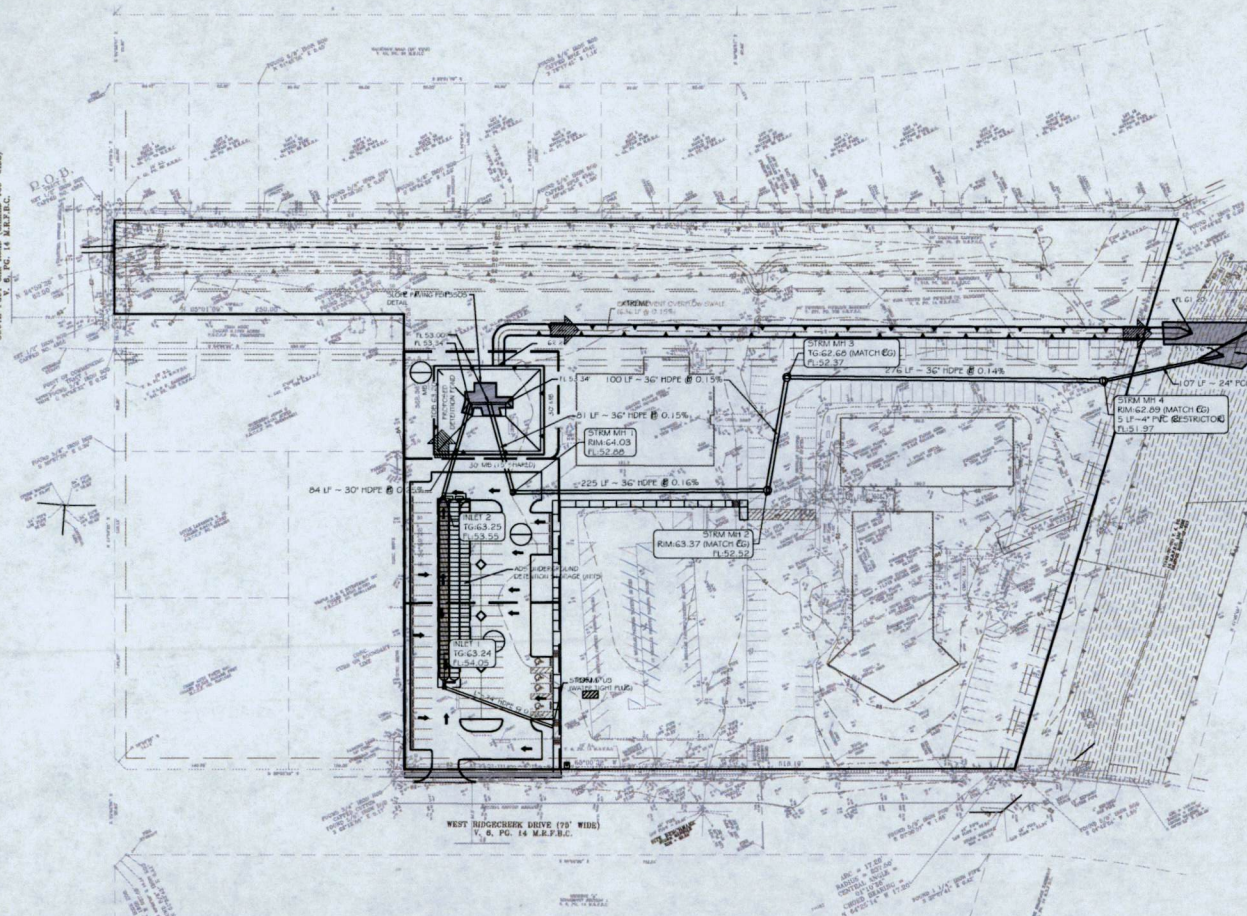
1811 N. 182nd ST. HOUSTON, TEXAS 77058
P.O. BOX 1100, SUITE 100, HOUSTON, TEXAS 77058

ST. MARK THE EVANGELIST CATHOLIC CHURCH PARKING ADDITION
HOUSTON, FORT BEND COUNTY, TEXAS

DRAINAGE PLAN

DATE	BY	DESCRIPTION
10/19/16	EDWARD KANE	DSE-15-006
10/19/16	EDWARD KANE	DSE-15-006-200

SHOULDER AND ROAD (CALCULATED 100' WIDE)



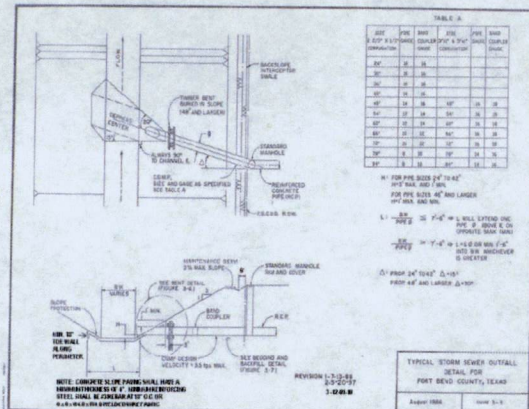


TABLE 1 A - IMPERVIOUS COVER SUMMARY (PHASE 1)		
OVERALL DEVELOPMENT	7.18	AC
EXISTING IMPERVIOUS COVER	115,077.43	FT ²
PROPOSED IMPERVIOUS COVER	153,787.50	FT ²
PROPOSED INCREASED IMPERVIOUS COVER	38,710.07	FT ²

TABLE 1 - RUNOFF SUMMARY

Event (yr)	IC (mm)	C	G	A (ac)	I (in/hr)	Q (cfs)
2	24.15	0.37	1.00	7.18	3.47	9.22
25	24.15	0.37	1.10	7.18	5.90	17.24
100	24.15	0.37	1.25	7.18	7.11	23.81

Developed Conditions

Event (yr)	IC (mm)	C	G	A (ac)	I (in/hr)	Q (cfs)
2	24.15	0.49	1.00	7.18	3.47	12.21
25	24.15	0.49	1.10	7.18	5.90	22.83
100	24.15	0.49	1.25	7.18	7.11	31.27

Allowable Discharge Rate From Detention System

Primary Orifice (PO)	Allowable Rate (cfs/ft)	Area (sq ft)	Allowable Release Rate (cfs)
PO	0.125	7.18	0.90

Restrictor Pipe Sizing For Pond

Event (yr)	Quantity (cfs)	Head (ft)	C	Area (sq ft)	Diameter (in)	Restrictor (in)	Area (sq ft)	Quantity (cfs)
PO	0.90	1.00	32.2	0.8	0.14	5.07	4	0.09

TABLE 2 - DETENTION SUMMARY

STORMWATER DETENTION VOLUME DETERMINATION FOR OFFICE OF CITY ENGINEER

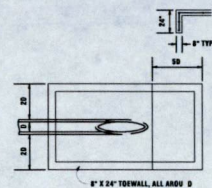
VALUE	UNITS
TOTAL SERVICE AREA	7.18 ACRES
EXISTING IMPERVIOUS AREA	2.64 ACRES
PROP IMPERVIOUS AREA TOTAL	3.53 ACRES
INCREASED IMPERVIOUS AREA	0.89 ACRES
DETENTION RATE PROVIDED	1.06 ACRE-FT PER ACRE
DETENTION VOLUME REQUIRED	0.87 ACRE-FT
DETENTION VOLUME PROVIDED (IN POND)	0.46 ACRE-FT
DETENTION VOLUME PROVIDED (UNDERGROUND)	0.46 ACRE-FT
DETENTION VOLUME PROVIDED (TOTAL)	0.94 ACRE-FT

TABLE 3 - DRAINAGE AREA SUMMARY

Drainage Area No.	Total Area (ac)	Combined CA (ac)	Time of Concentration (min)	Intensity 5 yr 25 yr 100 yr (in/hr)	Flow 5 yr 25 yr 100 yr (cfs)
1	20.089	0.46	18.72	5.93 7.64 8.95	2.16 2.83 3.31
2	17.254	0.40	18.51	5.86 7.59 9.00	1.80 2.46 2.88
3	12.804	0.29	18.04	5.94 7.76 9.12	1.37 1.79 2.10
STUB	10.396	1.86	21.15	5.46 7.17 8.41	8.14 10.68 12.53

TABLE 4 - STORM SEWER SUMMARY

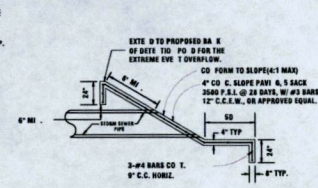
From	To	Drainage Area (Ac)	Drainage Area (Ac)	Total Area (Ac)	Drainage Area (Ac)	Sum of 5-YR Flow CFS	Reach Length Ft	Number of Pipes	Diameter Inches	Manning's n	Slope	Design Capacity CFS	Design Velocity FTS	Slope Fall Ft	FL Elev US	FL Elev DS	Actual V FTS	Actual HGL Ft	Change Head Ft	DS Elev US	DS Elev DS
STUB 1	1	STUB 1	1.86	1.86	9.14	8.14	102	1	24	0.012	0.30	13.41	4.27	0.31	54.36	54.05	2.99	0.11	0.11	56.43	56.32
1	2	1	0.46	2.32	2.16	10.30	168	1	24	0.012	0.30	13.41	4.27	0.60	54.09	53.85	3.28	0.18	0.30	56.32	56.02
2	PO	2	0.40	2.72	1.88	12.18	84	1	30	0.012	0.25	22.24	4.53	0.21	53.55	53.34	2.48	0.08	0.07	56.02	55.93
PO	PO	NA	NA	3.01	NA	20.82	81	1	36	0.012	0.15	27.99	3.96	0.12	53.00	52.88	2.95	0.06	0.06	55.93	55.89
STUB MH 1	STUB MH 2	NA	NA	3.01	NA	20.82	242	1	36	0.012	0.15	27.99	3.96	0.36	52.88	52.52	2.95	0.08	0.19	55.89	55.70
STUB MH 2	STUB MH 3	NA	NA	3.01	NA	20.82	99	1	36	0.012	0.15	27.99	3.96	0.15	52.52	52.37	2.95	0.08	0.08	55.70	55.62
STUB MH 3	STUB MH 4	NA	NA	3.01	NA	20.82	309	1	36	0.012	0.15	27.99	3.96	0.46	52.37	51.91	2.95	0.08	0.25	55.62	55.37
STUB MH 4	CT45-00-50	NA	NA	3.01	NA	20.82	75	1	42	0.024	0.25	24.34	2.53	0.15	51.91	51.76	2.16	0.15	0.11	55.37	55.26



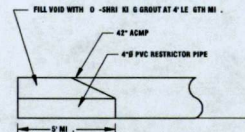
PLA

DETAIL - TYPICAL STORM SEWER I LET/OUTFALL STRUCTURE

SCALE: 1/8"

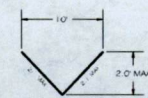


SECTION



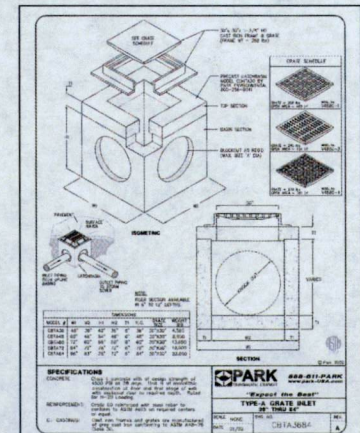
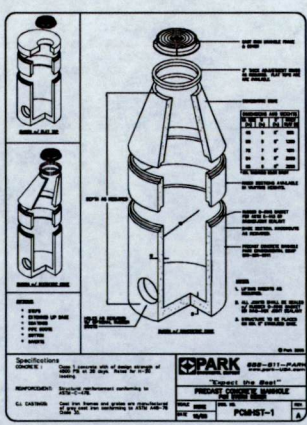
RESTRICTOR PIPE DETAIL

SCALE: 1/8"



EXTREME EVE T GRASS LI ED SWALE DETAIL

SCALE: 1/8"



NOTES:

1. ALL NOTES SHALL HAVE BEEN CHECKED AND APPROVED BY THE CITY ENGINEER.
2. ALL NOTES SHALL BE IN ACCORDANCE WITH THE CITY ENGINEER'S REQUIREMENTS.
3. ALL NOTES SHALL BE IN ACCORDANCE WITH THE CITY ENGINEER'S REQUIREMENTS.
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9. ALL NOTES SHALL BE IN ACCORDANCE WITH THE CITY ENGINEER'S REQUIREMENTS.
10. ALL NOTES SHALL BE IN ACCORDANCE WITH THE CITY ENGINEER'S REQUIREMENTS.

SURVEYOR
 EYE SURVEY CO
 EDWARD KARL BOWLES, R.P.L.S.
 7215 HICKORY FOREST COURT
 HOUSTON, TEXAS 77056
 PHONE: (713) 342-2000

DEVELOPER
 FR. OSCAR CASTRO, PASTOR
 ST. MARK THE EVANGELIST
 4450 W. REDBERRY DRIVE
 HOUSTON, TEXAS 77055

City of Houston Texas

16033882

REVIEWED FOR COMPLIANCE

Performance of this review does not release the applicant from full responsibility to comply with all applicable codes, ordinances and regulations.

10/19/16

SCOTT R. SHERMAN
 100881
 OCTOBER 05, 2016

DANIEL SCOTT
 ENGINEERING, L.L.C.
 1601 T 2027
 P.O. BOX 1008, BLVD. 77012
 (281) 919-9252
 daniel@scottengineering.com

ST. MARK THE EVANGELIST CATHOLIC
 CHURCH PARKING ADDITION
 HOUSTON, FORT BEND COUNTY, TEXAS

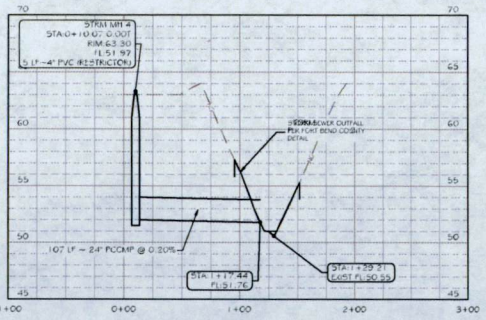
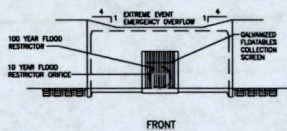
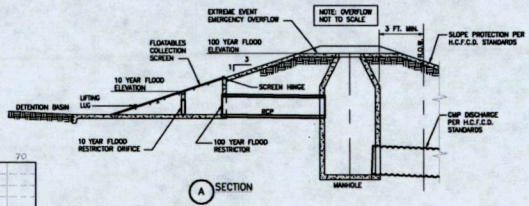
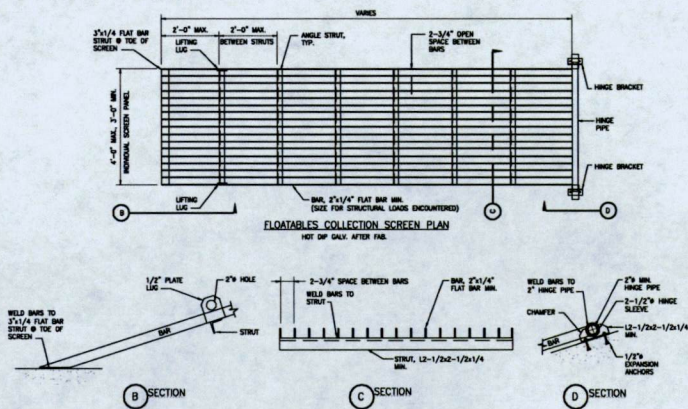
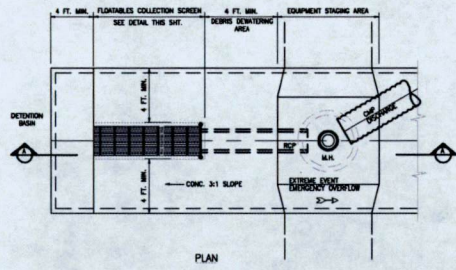
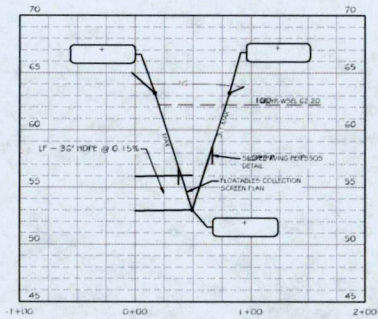
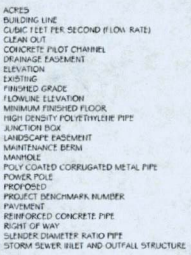
DRAINAGE CALCULATIONS &
 DETAILS

DATE: 10/19/16


SCALE: 1/8"

DATE: 10/19/16

SCALE: 1/8"



- 1. DESIGN FOR ACCESSIBILITY BY H.C.F.C.S. MAINTENANCE PERSONNEL.
- 2. SCREEN TO BE DESIGNED FOR HAND RIGGING OF DEBRIS TO TOP OF STRUCTURE FOR DEMATERING AND TRUCK PICK UP.
- 3. 4' MINIMUM CEMENT PAVED ACCESS ON ALL SIDES FOR MAINTENANCE PERSONNEL.
- 4. 3:1 MAXIMUM SLOPE FOR TRASH COLLECTION SCREEN AND CONCRETE PAVING.
- 5. PROVIDE ALL-WEATHER ACCESS ROAD TO SCREEN AND DEBRIS REMOVAL SITE.
- 6. SCREEN SIZE AND NET OPENING AREA TO ALLOW FLOW RATE OF 1.0 CFS THROUGH SCREENING AND BLOWING. SIZE AREA BELOW RESTRICTOR WALL FOR 10 YEAR FLOW RATE AND OVERALL SCREEN AREA FOR 100 YEAR FLOW RATE.

MINIMUM SCREEN AREA (SQ. FT.) = $\frac{Q}{V}$ 

- 7. SCREEN DESIGN MAY REQUIRE MULTIPLE 4' WIDE SCREEN PANELS.



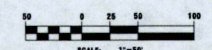
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DANIEL SCOTT
ENGINEERING, LLC

1551-9627 (2011-01-01) 519-5530
P.O. Box 1549, Alvin, TX 77511
wct@alvinccr.com; alvinccr.com

ST. MARK THE EVANGELIST CATHOLIC
CHURCH PARKING ADDITION

DETENTION POND & OUTFALL
CROSS-SECTION

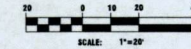


SURVEYOR:
B & B SURVEYING CO.
EDWARD KARL BOWLES, R.P.L.S.
7215 HOLDER FOREST COURT
HOUSTON, TEXAS 77068
(713) 942-2000
FAX:

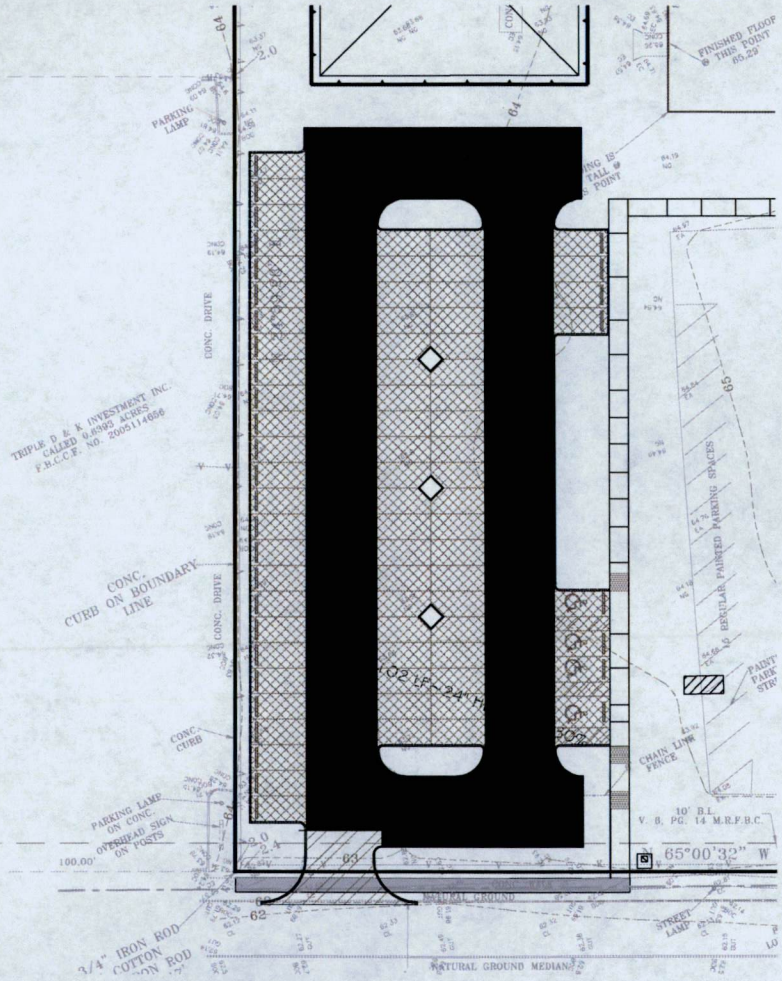
DEVELOPER:
FR. OSCAR CASIRO, PASTOR
ST. MARK THE EVANGELIST
5430 W RIDGECREEK DRIVE
HOUSTON, TEXAS 77053

[illegible]

- NOTES**
1. ALL PROPOSED FILL WILL BE PLACED IN 6" MINIMUM LIFTS AND COMPACTED TO 95% DENSITY.
 2. CONTRACTOR MUST VERIFY EXISTING CONDITIONS BEFORE COMMENCING ANY CONSTRUCTION.
 3. ALL DISTURBED AREAS SHALL BE SODED OR PLACED BACK TO EXISTING OR BETTER CONDITION.
 4. ALL STORM SEWER LINES, BULETS AND MANHOLES SHALL BE REDDED AND BACKFILLED WITH GEMENT STABILIZED SAND PER THE PROVIDED DETAIL.
 5. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND MAINTAINING ALL NECESSARY PERMITS.
 6. CONTRACTOR SHALL FOLLOW TERRACONS, GEOTECHNICAL REPORT PROJECT NO. 01150011 FOR EARTHWORK, SUBGRADE TREATMENT AND PAVEMENT THICKNESS.
 7. SEE SHEET 10 FOR PAVEMENT SECTION DETAILS THAT CORRESPOND TO NOTES NOTED IN ITEM 6 ABOVE.
 8. AT NO TIME SHALL LIME OR SOIL MIXING BE PERFORMED WITHIN 10 FEET OF THE PROPOSED ADS UNDERGROUND DETENTION SYSTEM.
 9. A CONSTRUCTION JOINT SHALL BE PLACED ABOVE THE ADS UNDERGROUND DETENTION SYSTEM.



FLOOD STATEMENT
THIS TRACT IS LOCATED WITHIN ONE (1) AREA DETERMINED TO BE OUTSIDE OF THE CHANCE FLOOD HAZARD ZONE ACCORDING TO FIRM NUMBER 46801C1005L DATED JUNE 16, 2007.
BENCHMARK EL 58.07
RETINO CORRELATES SAVID 1986 2001 ADJUSTMENT
TEMPORARY BENCHMARK (TBM) EL 62.52
STORM SEWER RAIL LOCATION: STORM OFF PLAYS



- LEGEND**
- AC ACRES
 - BL BUILDING LINE
 - BSSO EACH SLOPE SHALE OUTFALL
 - CTD CONCRETE TEE PER SECOND (FLOW RATE)
 - CMP CORRUGATED METAL PIPE
 - CNC CONCRETE TEE CHANNEL
 - DE DRAINAGE EASEMENT
 - EL ELEVATION
 - EO EMERGENCY OVERFLOW
 - EXIST EXISTING
 - FG FINISHED GRADE
 - FE FLOWLINE ELEVATION
 - FF FINISHED FLOOR
 - G GUTTER
 - HDP HIGH DENSITY POLYETHYLENE PIPE
 - JB JUNCTION BOX
 - LSE LANDSCAPE EASEMENT
 - MB MAINTENANCE DECK
 - MB MANHOLE
 - PP POWER POLE
 - PROP PROPOSED
 - PSM PROJECT BENCHMARK NUMBER
 - PVMT PAVEMENT
 - RCD REINFORCED CONCRETE BOX
 - RCP REINFORCED CONCRETE PIPE
 - RHW RIGHT OF WAY
 - SDE SLOPE DRAINAGE RATIO PIPE
 - SSGS STORM SEWER INLET AND OUTFALL STRUCTURE
 - SIFM STORM
 - TC TOP OF CURB
 - TP TOP OF PAVEMENT
 - WLE WATERLINE EASEMENT
- PROPOSED 7" THICK CONCRETE PAVING
(#4 BARS AT 12" ON CENTER, EITHER WAY, 24" LAP'S)
- PROPOSED 6" THICK CONCRETE PAVING
(#4 BARS AT 12" ON CENTER, EITHER WAY)
- PROPOSED 5" THICK CONCRETE PAVING
(#4 BARS AT 24" ON CENTER, EITHER WAY)

DANIEL SCOTT ENGINEERING, LLC
1001 F. 5821
P.O. BOX 1001, WYOMING, WY 83001
10/11/16-2020
10/11/16-2020
WYOMING PROFESSIONAL ENGINEER NO. 10001

ST. MARK THE EVANGELIST CATHOLIC CHURCH PARKING ADDITION
HOUSTON, FORT BEND COUNTY, TEXAS

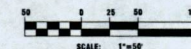
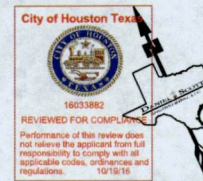
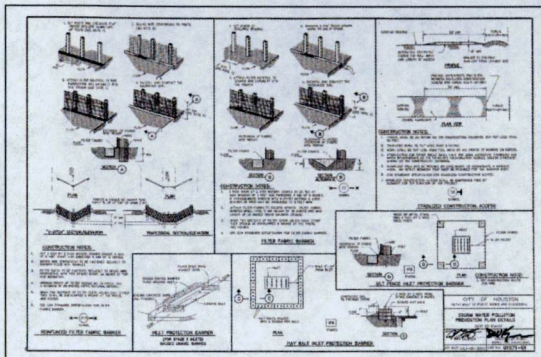
PAVING PLAN

SURVEYOR:
RTS SURVEYING CO.
EDWARD EARL BOWLES, R.L.S.
7215 HENDER FOREST COURT
HOUSTON, TEXAS 77056
PHONE: (713) 944-1000

DEVELOPER:
FR. OSCAR CASTRO, PASTOR
ST. MARK THE EVANGELIST
3430 W. FIDUCIOUS DRIVE
HOUSTON, TEXAS 77055

DATE: 10/15/16
SHEET: 10
OF: 10
DSE 15-006-260

- NOTES
1. ALL PROPOSED FILL WILL BE PLACED IN 6" MAXIMUM LIFTS AND COMPACTED TO 95% DENSITY.
 2. CONTRACTOR MUST VERIFY EXISTING CONDITIONS BEFORE COMMENCING ANY CONSTRUCTION.
 3. ALL DISTURBED AREAS SHALL BE SOGGED OR PLACED BACK TO EXISTING OR BETTER CONDITION.
 4. ALL STORM SEWER LINES, INLETS AND MANHOLES SHALL BE REDDED AND BACKFILLED WITH CEMENT STABILIZED SAND PER THE PROVIDED DETAIL.
 5. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND MAINTAINING ALL SWPPP PERMITS.

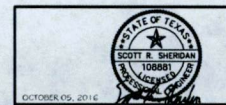


FLOOD STATEMENT
THIS TRACT IS LOCATED IN ZONE "X" AREAS DETERMINED TO BE OUTSIDE OF THE CHANCE FLOODPLAIN. THIS IS ACCORDING TO FEMA NUMBER 45201C100SL DATED JUNE 18, 2007.
BENCHMARK EL 58.07
PER NO. 03042LS, DATED 1996, 2001 ADJUSTMENT.
TEMPORARY BENCHMARK (TBM) EL 62.92
STORM MANHOLE REM. LOCATION SHOWN ON PLANS.

SOUTH POINT SAN ROAD (CALLED 100' WIDE)
V. 6, PG. 14 M.E.P.C.

LEGEND

- | | |
|----------|---|
| AC | ACRES |
| ACMP | ALUMINIZED CORRUGATED METAL PIPE |
| BL | BUILDING LINE |
| BSSO | BANK SLOPE SWALE OUTFALL |
| CFS | CUBIC FEET PER SECOND (FLOW RATE) |
| CMP | CORRUGATED METAL PIPE |
| CPC | CONCRETE PILOT CHANNEL |
| DE | DRAINAGE EASEMENT |
| EL | ELEVATION |
| EO | EMERGENCY OVERFLOW |
| EXIST | EXISTING |
| FG | FINISHED GRADE |
| FL 46.27 | FLOODING ELEVATION |
| FT | MINIMUM FINISHED FLOOR |
| HDPE | HIGH DENSITY POLYETHYLENE PIPE |
| JB | JUNCTION BOX |
| LSL | LANDSCAPE EASEMENT |
| MS | MAINTENANCE BORER |
| MPI | MANHOLE |
| PP | POWER POLE |
| PROP | PROPOSED |
| PMA | PROJECT BENCHMARK, HUMBER |
| PVMT | PAVEMENT |
| RCS | REINFORCED CONCRETE BOX |
| RCP | REINFORCED CONCRETE PIPE |
| ROW | RIGHT OF WAY |
| SDR | SLENDER DRAINAGE RATIO PIPE |
| SSOS | STORM SEWER INLET AND OUTFALL STRUCTURE |
| SWM | STORM |
| WLE | WATERLINE EASEMENT |
| ○ | FILTER FABRIC BARRIER |
| ○ | INLET PROTECTION BARRIER |



DANIEL SCOTT ENGINEERING, LLC

1511 1802
P.O. BOX 1438, WYLL, TX 77110
281-218-9120
scott@scotteng.com

ST. MARK THE EVANGELIST CATHOLIC CHURCH PARKING ADDITION
HOUSTON, FORT BEND COUNTY, TEXAS

SWPPP

SURVEYOR:
B.T. SURVEYING CO.
EDWARD KANE BOWLES, R.F.L.S.
7715 HOLDER FOREST COURT
HOUSTON, TEXAS 77066
PHONE: (713) 942-1000

DEVELOPER:
FR. OSCAR CASTRO, PASTOR
ST. MARK THE EVANGELIST
3430 W. RIDGECREST DRIVE
HOUSTON, TEXAS 77053

Sheet No.	Project No.
101-1000	DSE 15-0001
101-1000	DSE 15-0001
9 of 10	DSE 150001-250

City of Houston Texas



18033882

REVIEWED FOR COMPLIANCE
Performance of this review does not relieve the applicant from full responsibility to comply with all applicable codes, ordinances and regulations.
10/19/16

ZIEGLER
COOPER

700 Louisiana Street, Suite 350
Houston, Texas 77002
713.374.0000
www.zieglercooper.com

REVISION	DATE	DESCRIPTION

PARKING CALCULATIONS	
A. SUNDAYS	
WEDNESDAY: 440 OCC = 88 REQUIRED PER SEC. 26-462	
PARISH HALL (2ND - 5TH FLOORS) USE	
780 OCC = 63 REQUIRED PER SEC. 26-462	
SMALL HALL (1ST - 2ND FLOORS) USE	
110 OCC = 88 REQUIRED PER SEC. 26-462	
B. WEEKDAYS	
1. ADMINISTRATION, 18 STAFF = 7 REQ.	
2. NURSERY SCHOOL, 288 STUDENTS + 12 STAFF = 23 REQ.	
TOTAL WEEKDAY: 41	
BASED ON DEMAND THE WEEKDAY USE COVERING 41 CARS NEEDED	
BASED ON DEMAND THE WEEKDAY USE COVERING 88 CARS NEEDED	
138 CARS PROVIDED, EXISTING AND NEW, 127 ON-SITE.	
H.C. ACCESSIBLE REQUIRED = 9	
H.C. ACCESSIBLE PROVIDED = 7	

LANDSCAPE ANALYSIS	
LANDSCAPE ANALYSIS	
ST. MARK THE EVANGELIST CATHOLIC CHURCH	
TOTAL NEW FRONTAGE: 138'	
STREET TREES REQUIRED: 138/20 = 7	
STREET TREES PROVIDED = 3	
NEW STREET TREES PROVIDED = 4	
NEW PARKING SPACES = 73	
PARKING LOT TREES = 7 MEDIUM	
PARKING LOT TREES = 4 NEW LARGE TREES, 3 NEW SMALL TREES	
SHRUBS = 40 REQUIRED (SHRUB TREES FROM PARKING FRONTAGE)	
SHRUBS = 40 PROVIDED	
PLANT LEGEND	
1. NEW 4" CALIPER LIVE OAK	
2. NEW 2" CALIPER CREPE MYRTLE	
3. 3 GAL. NEWER HAWTHORNE PLANTS @ 3'-0" O.C. (UNBULB)	

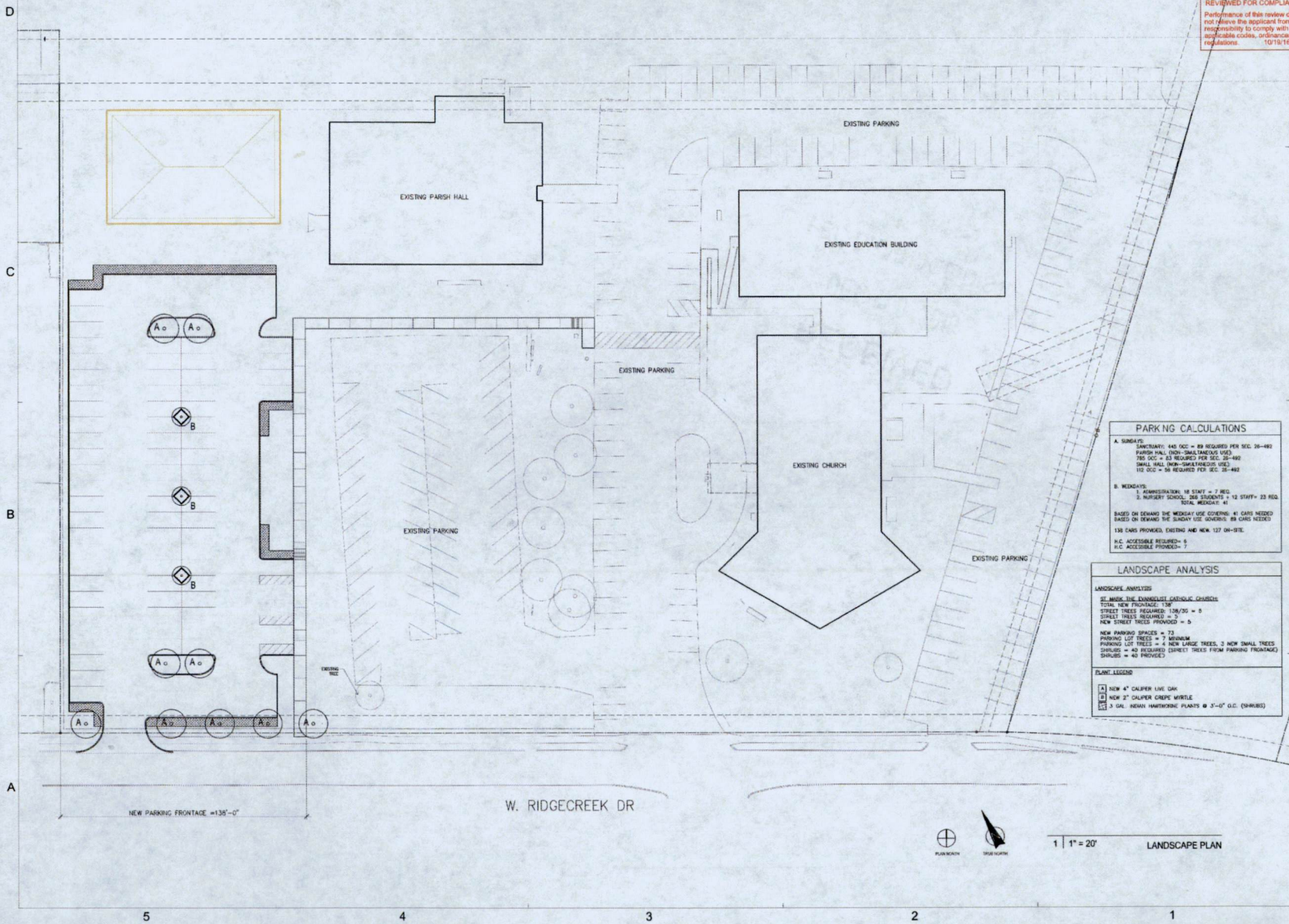


ST. MARK THE
EVANGELIST
CATHOLIC CHURCH

SHEET TITLE
LANDSCAPE PLAN

SHEET SCALE
LS1.0

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