



**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: 2016-9782

Applicant: Echco Construction, Inc./TDCK Architects, Inc.

Job Location Site: 2707 Spring Green Boulevard, Katy, TX 77494

Bond No. [REDACTED] **Date of Bond:** 1/26/2017 **Amount:** \$5,000.00

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 14th day of February, 2017, Upon Motion of Commissioner Meyers, seconded by Commissioner Morales, 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

By: Charles O. Ay

for County Engineer

N/A

By: _____

Drainage District Engineer/Manager

Presented to Commissioners Court and approved.

Date Recorded 2-17-17 Comm. Court No. 12E

Clerk of Commissioners Court

By: Ronda W. White

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@fortbendcountytexas.gov

- Right of Way Permit
- Commercial Driveway Permit

Permit No: 2016-9782

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: \$5,000.00
- 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.

Charley O. [Signature]

Permit Administrator

2/7/17

Date



**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, ECHCO CONSTRUCTION, INC. whose address is 11205 BELLAIRE BLVD. #B-24 HOUSTON, TX 77072-2514 Texas, 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 CONNECTICUT and authorized to do an indemnifying business in the state of Texas, and whose principal office is located at One Tower Square Hartford, CT 06183, whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought whining said state is Christopher Noble and Whose address is 1301 East 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 Five Thousand Dollars (\$5,000.00) 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 26 day of January, 2017.

ECHCO CONSTRUCTION, INC.
PRINCIPAL
[Signature] PRESIDENT
BY

Travelers Casualty and Surety Company of America
SURETY
[Signature]
BY Deborah Stuckman

CCM 2-14-17 # DE
Fort Bend County Clerk
Return Admin Serv Coord



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

Surety Bond No. [Redacted]

Principal: ECHCO CONSTRUCTION, INC.
11205 BELLAIRE BLVD. #B-24 HOUSTON, TX 77072-2514

Obligee: County Judge of Fort Bend County
P.O Box 1449 ROSENBERG, TX 77471

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 Deborah Stuckman, of the City of Houston, State of TX, their true and lawful Attorney(s)-in-Fact, to sign, execute, seal and acknowledge the surety bond referenced above.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this 7th day of July, 2016.

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 7th day of July, 2016, 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

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors 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, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

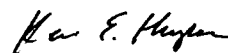
FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary, 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 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 in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 26 day of January, 2017.



Kevin E. Hughes, Assistant Secretary



To verify the authenticity of this Power of Attorney, call 1-800-421-3880 or contact us at www.travelersbond.com. Please refer to the above-named individuals and the details of the bond to which the power is attached.



IMPORTANT NOTICE REGARDING COMPENSATION DISCLOSURE

For information about how Travelers compensates independent agents, brokers, or other insurance producers, please visit this website: www.travelers.com/w3c/legal/Producer_Compensation_Disclosure.html

If you prefer, you can call the following toll-free number: 1-866-904-8348. Or you can write to us at Travelers, Enterprise Development, One Tower Square, Hartford, CT 06183.

RETURN AT COUNTER:
ADMINISTRATIVE SERVICES COORDINATOR

FILED AND RECORDED
OFFICIAL PUBLIC RECORDS

Laura Richard



Laura Richard, County Clerk
Fort Bend County, Texas

February 20, 2017 12:58:03 PM

FEE: \$0.00 TS1
BOND

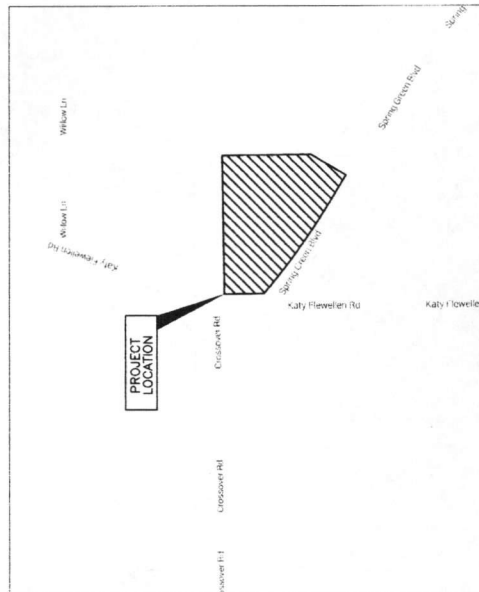
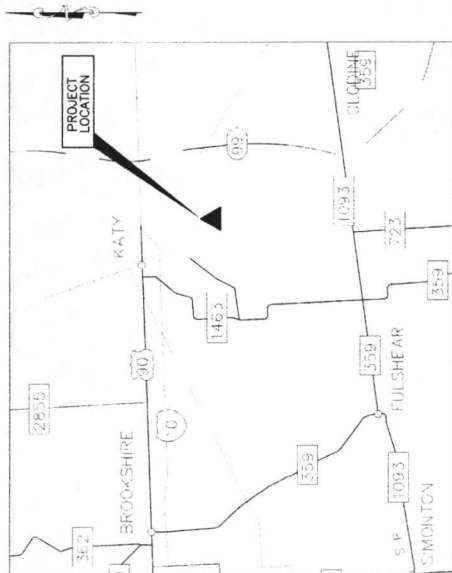
2017017952

SILVER RANCH IVY KIDS

2707 SPRING GREEN BLVD., KATY, TEXAS 77494

SHEET INDEX

REF. NO.	COVER SHEET	DRAWING TITLE	SHEET NO.
C0	COVER SHEET		1
C1	SITE PLAN		2
C2	GRADING PLAN		3
C3	DRAINAGE PLAN		4
C4	UTILITY PLAN		5
C5	PAVEMENT JOINT LAYOUT PLAN		6
C6	SMPPP & DETAIL		7
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C9	DETAILS		10
C10	TKDOT DETAILS		11
C11	PIPELINE/ UTILITY PROFILES		12



MISSION

Engineering Inc.
10370 Richmond Avenue,
#560
Houston, TX 77042
Tel: (713)-881-0018
TPEF No. F-11771



FORT BEND COUNTY ENGINEER

ENGINEER: *Richard W. Starnes*
Richard W. Starnes, P.E.

DATE: 8/13/16

THESE SPECIFICATIONS ARE VOID IF CONSTRUCTION HAS NOT COMMENCED IN (1) YEAR FROM DATE OF APPROVAL.

APPROVED: *Maqsood*
Development Coordinator

DATE: 8/13/16

C0

KEY NOTES:

- 1 PROVIDE AND PREPARE BUILDING SUBGRADE AS REQUIRED PER CONTRACT DOCUMENTS.
- 2 PROPOSED SIDEWALK (PRIVATE) RE: SHT C9
- 3 PROPOSED 6" CONC. CURB RE: SHT C7
- 4 PROPOSED 6" MEDIUM DUTY PAVT RE: SHT C5
- 5 PROPOSED 5" LIGHT DUTY PAVT RE: SHT C5
- 6 HANDICAP SYMBOL AND SIGNAGE OF ACCESSIBILITY AT EACH ADA SPA (2 TOTAL), RE: ARCH DWG
- 7 4" WIDE WHITE TRAFFIC PAINT STRIPES AT 2' O.C. AT 45° ANGLE (TWO COATS)
- 8 PROPOSED FENCE RE: ARCH
- 9 ADA RAMP, RE: SHT C9
- 10 SIDEWALK AT PAVING CURB RE: SHT C8
- 11 PROPOSED 6"x6" CONC. WHEEL STOP WITH DOWELS, RE: SHT C9
- 12 SAWCUT AND BEHIND EXIST PAVT AS REQUIRED TO CONSTRUCT DRIVEWAY
- 13 CONSTRUCT DRIVEWAY WITH 8" PAVING, REINFORCED WITH #4@24" O.C.E.W. REBAR. RE: SHT C9
- 14 DUMPSTER PAD AND WALLS RE: STRUCTURAL
- 15 FENCE GATE, RE: ARCH
- 16 PROPOSED HEAVY DUTY CONCRETE PAVT, RE: SHT C5
- 17 PROPOSED 5" PUBLIC SIDEWALK, RE: SHT C9

NOTES:

1. ALL DIMENSIONS ARE TO FACE OF CURB, FACE OF BUILDING, PROPERTY LINE, CENTER OR END OF STRIPPING, UNLESS OTHERWISE NOTED.
2. ALL ACCESSIBLE ROUTES AT SIDEWALKS AND OTHER PAVED AREAS SHALL BE IN ACCORDANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE DIRECTION OF TRAVEL (EXCEPT RAMPS) AND 2% IN THE TRANSVERSE OR CROSSING DIRECTION.
3. SEE ARCHITECTURAL SITE PLAN FOR ADDITIONAL SITE DIMENSIONS, FEATURES, AND LANDSCAPING.
4. ALL PROPOSED SPOT ELEVATIONS INDICATE TOP OF PROPOSED PAVT UNLESS INDICATION OTHERWISE (I.E. TO-TOP GRAVE).

FLOODPLAIN STATEMENT:
THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP FOR FORT BEND COUNTY, TEXAS AND UNINCORPORATED AREAS, TRACT IS WITHIN ZONE "X" AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON MAP AND PANEL NO. 1403001001. THE PROPERTY ON THE ABOVE REFERENCED MAP AND IS NOT THE RESULT OF IDENTIFIED SPECIAL FLOOD HAZARD AREA. THIS STATEMENT DOES NOT IMPLY THAT THE PROPERTY AND/OR THE STRUCTURES THEREON WILL BE FLOOD FREE AND WILL OCCUR AND FLOOD HEIGHTS MAY BE INCREASED BY FLOODS CAUSED BY OTHER CAUSES. THE FLOODPLAIN STATEMENT SHALL NOT CREATE LIABILITY ON THE PART OF THE SURVEYOR.

BENCHMARK:
FLOORPLAIN REFERENCE MARK NUMBER 18005 IS A STAINLESS STEEL ROD STAMPED HCSSD 86 GRAVEL ROAD, 0.1 MILES SOUTH OF CORBITT ROAD LOCATED AT 10000 E. FM 1483, BARBER WATERPHEED, ELEV=138.32 (NAVD 88, 2001 ADJUSTMENT).



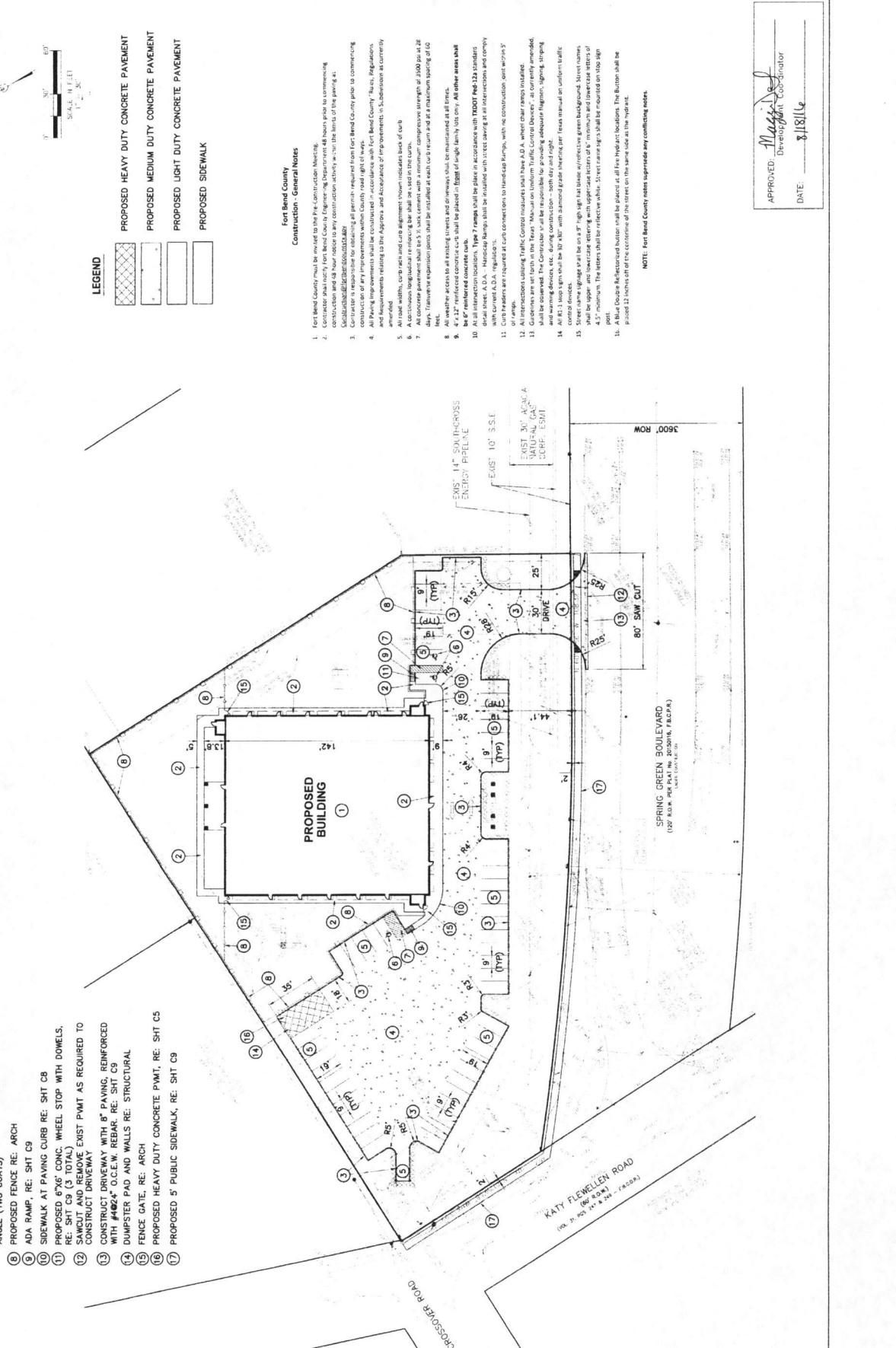
LEGEND

- PROPOSED HEAVY DUTY CONCRETE PAVEMENT
- PROPOSED MEDIUM DUTY CONCRETE PAVEMENT
- PROPOSED LIGHT DUTY CONCRETE PAVEMENT
- PROPOSED SIDEWALK

Fort Bend County Construction - General Notes

1. Fort Bend County must be invited to the Pre-Construction Meeting.
2. Construction shall be completed within the time frame for the construction and 48-hour notice to any construction activity within the limits of the paving act.
3. Contractor is responsible for obtaining all permits required from Fort Bend County prior to commencing construction.
4. All permits and/or other documents shall be submitted with Fort Bend County Rules, Regulations, and Amendments relating to the Approval and Acceptance of Improvements to Submittals as currently amended.
5. All road widths, curb and curb alignment shown indicates back of curb.
6. All concrete shall be placed within 90 days of the date of the contract.
7. All concrete pavements shall be 5" thick concrete with a minimum compressive strength of 4000 psi at 28 days. Transverse expansion joints shall be installed at each curb return and at a maximum spacing of 60 feet.
8. All concrete shall be placed within 90 days of the date of the contract.
9. 4" x 12" reinforced concrete curb shall be placed in **both** of single family lots only. **All other areas shall be 6" reinforced concrete curb.**
10. At all intersection locations, Type 7 ramps shall be placed in accordance with TDDOT Plan 324 standards and meet A.A. - Handicap ramps shall be installed with 1:12 slope at all intersections and comply with ADA standards.
11. Curb heights are required at curb connections to handicap ramps, with no construction over 2'10" of ramps.
12. All intersections showing Traffic Control measures shall have A.D.A. wheel chair ramps installed and meet A.A. standards. The Contractor is to be responsible for providing adequate lighting, signing, striping and warning devices, etc. during construction - both day and night.
13. All intersections shall be constructed in accordance with the standards of the Texas Department of Transportation.
14. All 18" x 30" signs shall be 18" x 30" with standard grade fluorescent gas Texas standard uniform traffic signs.
15. Street name signage shall be on 18" high sign that shall have reflective green background. Street names shall be upper and lowercase reflecting with uppercase letters of 6" minimum and lowercase letters of 4.5" minimum. The letters shall be reflective white. Street name signs shall be mounted on stop sign posts.
16. On-site Reflectioned buoys shall be placed at all fire hydrant locations. The buoys shall be placed 12 inches off of the edge of the street on the same side as the hydrant.

NOTE: Fort Bend County notes supersede any conflicting notes.



3600' ROW

EXIST 30' x 30' A.P.A. A. ENERGY PHELALE

EXIST 10' x 3.5' S.S.E.

EXIST 30' x 30' A.P.A. A. ENERGY PHELALE

80' SAW CUT

SPRING GREEN BOULEVARD (107' R.O.W. PER PLAT NO. 2020016, F&CP&S)

KATY FLEWELLEN ROAD (66' R.O.W. PER PLAT NO. 17429&J)

CROSCOR ROAD

FLOODPLAIN STATEMENT:
 THE DESIGNER HAS OBTAINED MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP FOR FORT BEND COUNTY, TEXAS AND UNINCORPORATED AREAS. THE TRACT IS WITHIN "ZONE A-1" AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON MAP AND PANEL NO. 100005. THE ABOVE REFERENCED MAP AND PANEL NO. 100005 IS NOT THE RESULT OF THE PROPERTY AND IS NOT THE RESULT OF ANY IDENTIFIED SPECIAL FLOOD HAZARD AREAS. THIS STATEMENT DOES NOT IMPLY THAT THE PROPERTY AND/OR THE STRUCTURES THEREON WILL BE FLOODED CAN AND WILL OCCUR AND FLOOD HEIGHTS MAY BE INCREASED BY FLOODING OF ADJACENT AREAS. THE FLOOD STATEMENT SHALL NOT CREATE LIABILITY ON THE PART OF THE ENGINEER.

BEACHMARK:
 FLOODPLAIN REFERENCE MARK NUMBER 100005 IS A STAINLESS STEEL ROD STAMPED 100005 04 GRAVEL ROAD, 0.1 MILES SOUTH OF COBBITT ROAD LOCATED IN GROUND, EAST OF FM 1463, BARBER WATERSEED. ELEV.=136.32 (NAVD BR. 2001 ADJUSTMENT).

SILVER RANCH IVY KIDS

2707 Spring Green Blvd
 KATY, TEXAS 77494

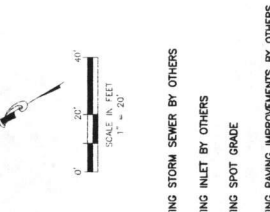
TDCK ARCHITECTS, INC.
 1070 RICHMOND AVE. #650
 FORT WORTH, TEXAS 76104
 (817) 342-1318
 FJ@tdckarchitects.com
 TPEP Registration No. F-1177



GRADING PLAN
 DRAWING TITLE: 08-15-2016
 DRAWN BY: L.L.
 CHECKED BY: L.L.
 DATE: 08/15/2016
 JOB NO: 13010
 SHEETS: 13010
 DRAWING NO: 13010

LEGEND

- EXISTING STORM SEWER BY OTHERS
- EXISTING INLET BY OTHERS
- EXISTING SPOT GRADE
- EXISTING PAVING IMPROVEMENTS BY OTHERS
- PROPOSED STORM SEWER
- PROPOSED STORM MANHOLE RE: SHT C9
- PROPOSED STORM INLET RE: SHT C8
- PROPOSED TOP OF PAVEMENT ELEVATION
- PROPOSED TOP OF GRADE
- DRAINAGE AREA BOUNDARY



NOTES:

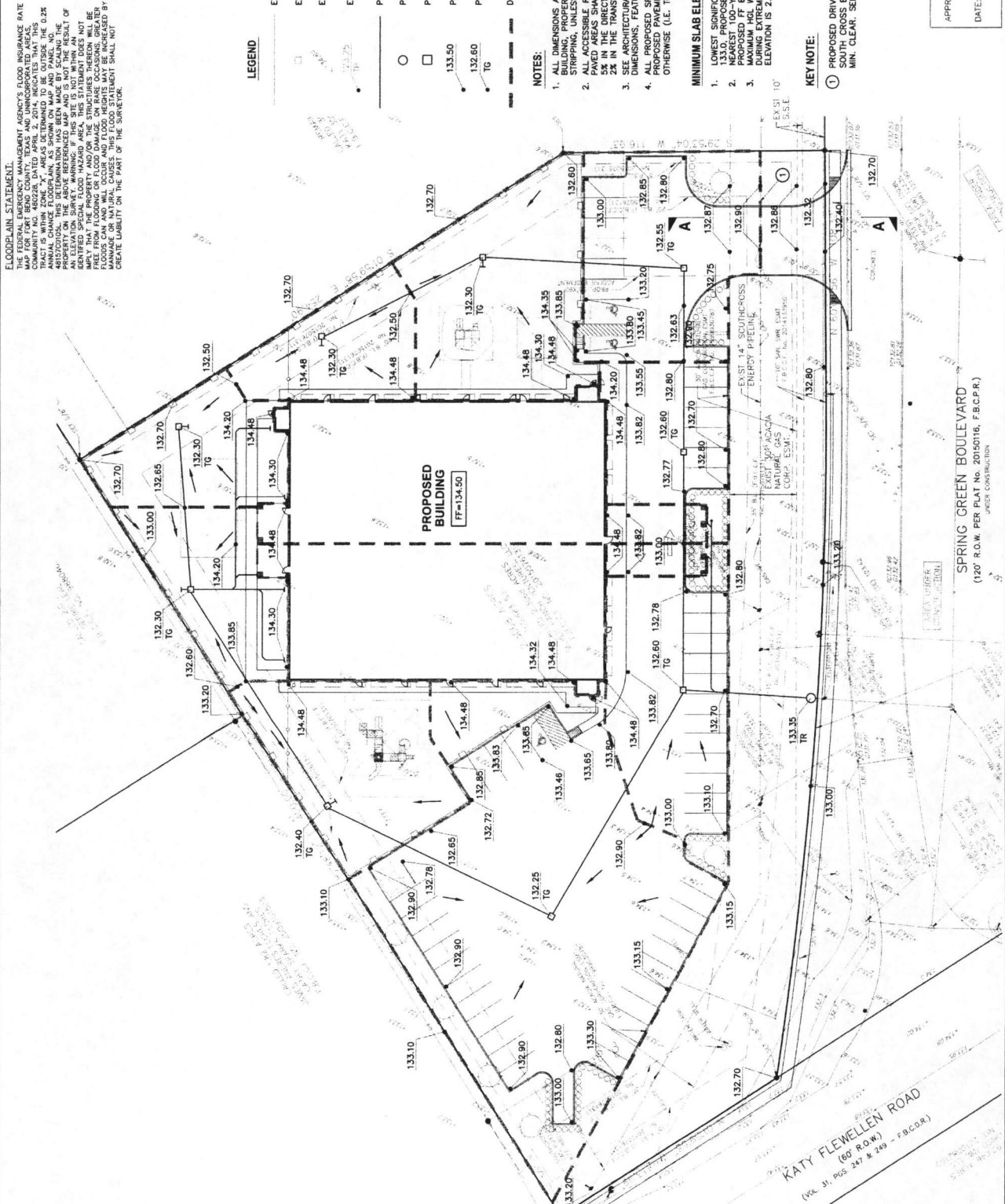
- ALL DIMENSIONS ARE TO FACE OF CURB, FACE OF BUILDING, PROPERTY LINE, CENTER OR END OF DRIVEWAY, UNLESS OTHERWISE NOTED.
- ALL ACCESSIBLE ROUTES AT SIDEWALKS AND OTHER PAVED AREAS SHALL HAVE A SLOPE OF NO MORE THAN 5% IN THE DIRECTION OF TRAVEL (EXCEPT RAMPS) AND 2% IN THE TRANSVERSE OR CROSSING DIRECTION.
- EXISTING UTILITIES, FEATURES AND LANDSCAPE ON SITE TO REMAIN SHALL BE SHOWN AND INDICATED.
- ALL PROPOSED SPOT ELEVATIONS INDICATE TOP OF PROPOSED PAVEMENT ELEVATION UNLESS INDICATION OTHERWISE (I.E. TO=TOP GRADE).

MINIMUM SLAB ELEVATION ANALYSIS (FF=134.50)

- LOWEST SURFACE FINISH ELEVATION: 134.50
- NEAREST 100-YR FLOOD PLAN W.S.E.=125.0
- PROPOSED FF ELEVATION IS 8.5 FT HIGHER DURING EXTREME EVENT=131.70, PROPOSED FF ELEVATION IS 2.8 FT HIGHER.

KEY NOTE:

- PROPOSED DRIVEWAY TO PASS OVER EXISTING 14" SOUTH CROSS ENERGY GAS PIPELINE WITH 4.6" MIN. CLEAR. SEE SECTION A-A ON SHT C11.



APPROVED: *Maggie S. Silliker*
 Developer/Coordinator
 DATE: 8/16/16

SPRING GREEN BOULEVARD
 (120' R.O.W. PER PLAT NO. 20150116, F.B.C.P.R.)
 JAMES CONSTRUCTION

KATY FLEWELAN ROAD
 (60' R.O.W.)
 (VOL. 31, PGS. 247 & 249 - F.B.C.S.A.R.)

SILVER RANCH IVY KIDS
2707 Spring Green Blvd
KATY, TEXAS 77494



OWNER AND STRUCTURAL ENGINEER
MISSION ENGINEERING INC
1600 BIRCHWOOD AVE #500
HOUSTON, TEXAS 77056
(713) 981-0010
E: [redacted]@missioneng.com
P: [redacted]



DATE: 08-15-2016
DRAWING TITLE: DRAINAGE PLAN

DESIGNED BY: [redacted]
CHECKED BY: [redacted]
DATE: 08/15/2016
DRAWING NO.: C3

BENCHMARK:
FLOODPLAIN REFERENCE MARK NUMBER 180055 IS A STAINLESS STEEL ROD STAMPED 18020 06 GRAVEL ROAD 0.11 MILES SOUTH OF COBBETT ROAD, INTERSECTION OF GRAVEL ROAD AND BANKER WATERBERRY. ELEVATION: 136.32 (NAVD 88, 2001 ADJUSTMENT).

FLOODPLAIN STATEMENT:
THE FLOODPLAIN REFERENCE MARK NUMBER 180055 IS A STAINLESS STEEL ROD STAMPED 18020 06 GRAVEL ROAD 0.11 MILES SOUTH OF COBBETT ROAD, INTERSECTION OF GRAVEL ROAD AND BANKER WATERBERRY. ELEVATION: 136.32 (NAVD 88, 2001 ADJUSTMENT). THIS STATEMENT DOES NOT IMPLY THAT THE PROPERTY AND/OR THE STRUCTURES THEREON WILL BE FLOODED BY THE FLOODPLAIN. FLOODING CAN AND WILL OCCUR AND FLOOD HEIGHTS MAY BE INCREASED BY ADVERSE WINDS, WAVES, SURFING, OR OTHER CAUSES. THE FLOODPLAIN STATEMENT SHALL NOT BE USED AS A BASIS FOR LIABILITY ON THE PART OF THE CONSULTANT.



- LEGEND**
- EXISTING STORM SEWER BY OTHERS
 - EXISTING SPOT GRADE
 - PROPOSED STORM MANHOLE
 - PROPOSED STORM INLET
 - DRAINAGE BOUNDARY
 - CUMULATIVE AREA (AC)
 - RUNOFF (CFS)

- KEY NOTES:**
- ALL HOPE STORM SEWERS SHALL BE HEAVY DUTY WITH SMOOTH INTERIOR WALLS.
 - ALL PVC STORM SEWERS SHALL BE SDR 35.
 - STORM RUN-OFF CALCULATION FOR 3-YR EVENT—FT BEND USING CHANGES CRITERIA AND FIGURE 5.2 PER TABLE 5.1 AND FIGURE 5.2. CURVE NO. 1. USE (C=10.0 MIN FOR ALL AREAS. C=2.06 IN/HR. COEFFICIENT OF FRICTION VALUES FOR RCP=0.013, HOPE=0.011 AND PVC=0.010.
 - SUB-GRADE DRAINAGE SYSTEMS FROM ANY FUTURE AREAS OR ANY INDIVIDUAL LANDSCAPE DRAINS SHALL CONNECT TO STORM DRAIN SYSTEM AT 4" STUB OUT.

- KEY NOTES:**
- REMOVE EXIST PLUG AND CONSTRUCT STORM SEWER PRIOR TO CONSTRUCTION.
 - PROVIDE AND INSTALL 1'-8" 6" REDUCER AND CONNECT TO THE 6" ROOF DRAIN BELOW GRADE. CONSTRUCT 6" STORM AT 1.00% MIN. AND CONNECT TO THE ADJACENT 12" STORM.
 - PROVIDE AND INSTALL 1'-12" 6" REDUCER AND CONNECT TO THE 6" ROOF DRAIN.
 - PROPOSED 15" HOPE STORM TO PASS BELOW EXIST 14" GAS LINE WITH 24" MIN CLEAR.
 - CONNECT TO 6" ROOF DRAIN BELOW GRADE AND CONSTRUCT 3 LF OF 6" PVC STORM @ 2.00% MIN FROM ADJACENT 6" STORM. CONNECT TO ADJACENT 6" STORM.
 - PROVIDE AND INSTALL 2 LF OF 4" PVC STORM DRAIN WITH CAP. SEE NOTE 3 THIS SHEET.

EXTREME EVENT ANALYSIS
PER THE EXTREME EVENT ANALYSIS CALCULATION TABLE, THE EXTREME EVENT ANALYSIS OCCURS AT INLET 1 AND HAS A VALUE OF 131.70 WHICH IS 2.80 FEET BELOW THE PROPOSED FF ELEVATION OF 134.50.

APPROVED: [Signature]
Development Coordinator
DATE: 8/18/16

STORM SEWER INLET TO MANHOLE INLET LAND DRAIN INLET TO INLETS

From	To	Area		Permeability		Runoff		Inlet		Manhole		Inlet		Manhole	
		(ac)	(sq ft)	(in)	(in)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
1	2	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2	3	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
3	4	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
4	5	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
5	6	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
6	7	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
7	8	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
8	9	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
9	10	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
10	11	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
11	12	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
12	13	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
13	14	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
14	15	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
15	16	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
16	17	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
17	18	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
18	19	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
19	20	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
20	21	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
21	22	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
22	23	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
23	24	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
24	25	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
25	26	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
26	27	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
27	28	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
28	29	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
29	30	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
30	31	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
31	32	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
32	33	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
33	34	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
34	35	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
35	36	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
36	37	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
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38	39	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
39	40	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
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42	43	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
43	44	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
44	45	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
45	46	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
46	47	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
47	48	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
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56	57	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
57	58	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
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59	60	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
60	61	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
61	62	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
62	63	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
63	64	0.14	10,000	0.00	0.00	0.00	0.00	1.00	0.00	0					

REVISIONS SHEET

NO.	DATE	DESCRIPTION

SILVER RANCH IVY KIDS
 2707 Spring Green Blvd
 KATY, TEXAS 77494

TDCK
 ARCHITECTS, INC.
 ONE AND STRUCTURAL ENGINEERS
 MISSION ENGINEERING INC
 10271 RICHMOND AVE #650
 HOUSTON, TEXAS 77042
 (713) 731-1811
 (713) 731-1811
 E: tdck@tdck.com
 P: 713-731-1811



DATE: 08-15-2018
PAVEMENT JOINT LAYOUT PLAN

APPROVED: *Maggie*
 Development Coordinator
 DATE: 8/19/18

C5

BENCHMARK:
 FLOODPLAIN REFERENCE MARK NUMBER 19005 IS A STAINLESS STEEL ROD STAMPED AGC20 66 GRAVEL ROAD 0.1 MILES SOUTH OF CORBIT ROAD LOCATED IN THE NE CORNER OF THE 1/4 SECTION 34, T12N, R10E, S14E, BARBER WATERSHED, ELEV=134.32 (NAD 86, 2001 ADJUSTMENT).

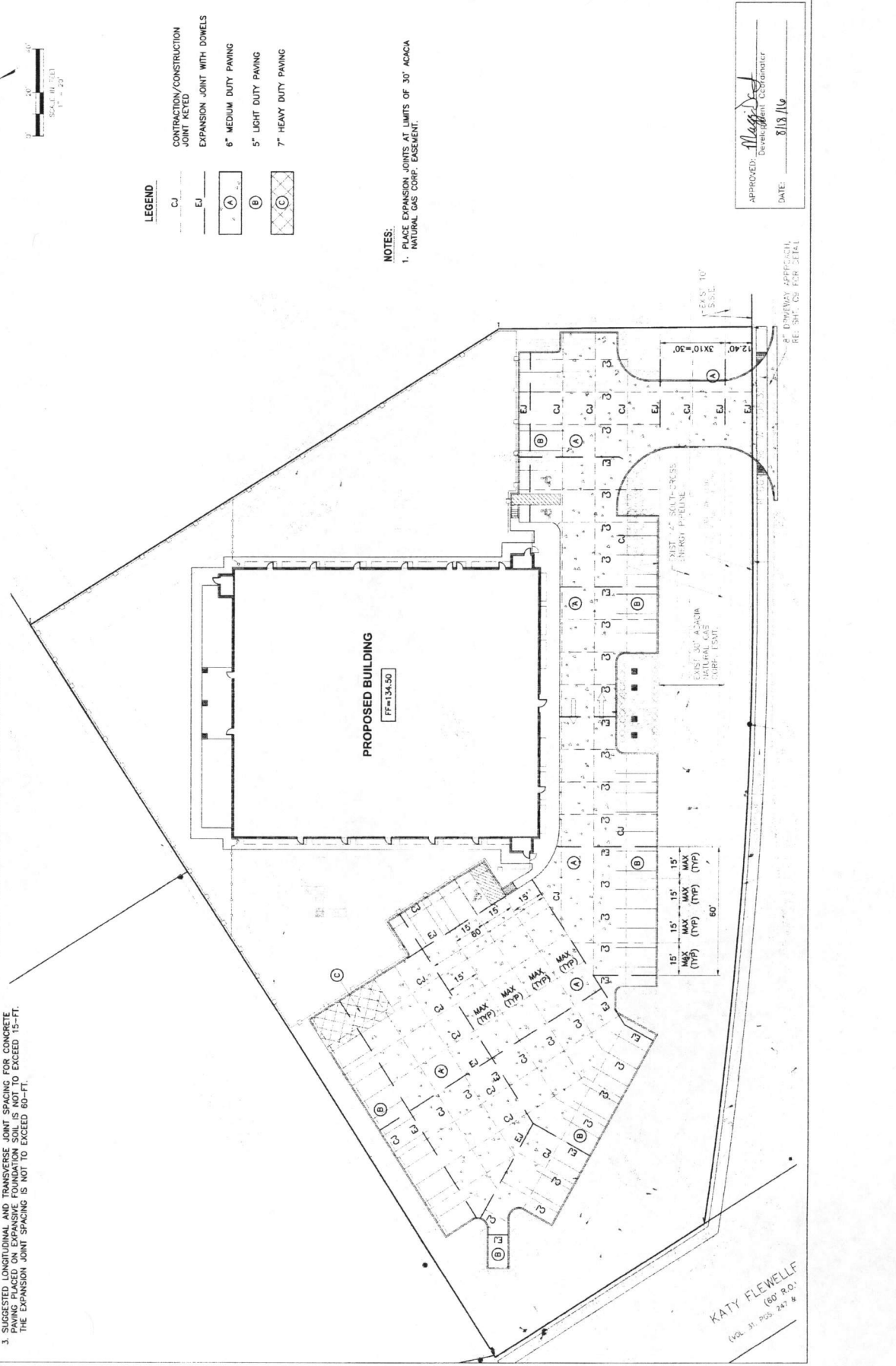
FLOODPLAIN STATEMENT:
 THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP FOR FORT BEND COUNTY, TEXAS AND UNINCORPORATED AREAS, TRACT S WITHIN ZONE X7 AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON MAP AND PANEL NO. PROPERTY ON THE ABOVE REFERENCED MAP AND IS NOT THE RESULT OF IDENTIFIED SPECIAL FLOOD HAZARDOUS AREA. THIS STATEMENT DOES NOT MEAN THAT THE PROPERTY AND/OR THE STRUCTURES THEREON WILL BE FLOODS CAN AND WILL OCCUR AND FLOOD HEIGHTS MAY BE INCREASED BY GREAT LIABILITY ON THE PART OF THE SUBSCRIBER.

CONTRACTION/CONSTRUCTION JOINT KEYS:
 EJ EXPANSION JOINT WITH DOWELS
 6" MEDIUM DUTY PAVING
 5" LIGHT DUTY PAVING
 7" HEAVY DUTY PAVING

NOTES:
 1. PLACE EXPANSION JOINTS AT LIMITS OF 30' ACACIA NATURAL GAS CORP. DISBURSEMENT.

PAVEMENT NOTES:
 1. CONCRETE FOR 7" CONCRETE PAVING SHALL HAVE 1500 PSI COMPRESSIVE STRENGTH AT 28 DAYS, AND REINFORCED WITH #4 BARS AT 15-INCHES ON CENTER EACH WAY. CONCRETE FOR 6" CONCRETE PAVING SHALL HAVE 3500 PSI COMPRESSIVE STRENGTH AT 28 DAYS, AND REINFORCED WITH #4 BARS AT 18-INCHES ON CENTER EACH WAY. CONCRETE FOR 5" CONCRETE PAVING SHALL HAVE 3500 PSI COMPRESSIVE STRENGTH AT 28 DAYS, AND REINFORCED WITH #4 BARS AT 24-INCHES ON CENTER EACH WAY. CONCRETE SHALL HAVE A MINIMUM OF 500 PSI FLEXURAL STRENGTH AT 7 DAYS. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
 2. 6-INCHES SUBGRADE FOR CONCRETE PAVEMENT SHOULD BE LIME-STABILIZED TOP SOIL TO THE PROPER WEIGHT PER VOLUME SPECIFIED IN THE TYPICAL SPEC. (ITEM 265) COMPACT TO 95% OF MAXIMUM STANDARD PROCTOR DENSITY (ASTM D 695) AT A MOISTURE CONTENT BETWEEN OPTIMUM AND ±2% OF OPTIMUM.
 3. SUGGESTED LONGITUDINAL AND TRANSVERSE JOINT SPACING FOR CONCRETE PAVEMENT SHALL BE AS NOTED. JOINT SPACING IS NOT TO EXCEED 15'-FT. THE EXPANSION JOINT SPACING IS NOT TO EXCEED 60'-FT.

**CONCRETE FOR 4-1/2" CONCRETE SIDEWALK SHALL HAVE 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS, AND REINFORCED WITH #3 BARS AT 10-INCHES ON CENTER EACH WAY.
 5. PLACE 2" BANK SAND BELOW CONCRETE SIDEWALK
 6. CONTROL JOINT SPACING: MAXIMUM OF 20 FEET IF SAWCUT, CONTROL JOINTS SHOULD BE CUT WITHIN 6 TO 12 HOURS OF CONCRETE PLACEMENT.
 7. THE JOINT LAYOUT CONFIGURATION AS SHOWN ON THIS SHEET MAY BE MODIFIED IN COMPLIANCE WITH THE CRITERIA STATED IN NOTE #3.
 8. CONCRETE SHALL BE PLACED IN ALTERNATE STRIPS WHERE APPLICABLE.
 9. CONSTRUCTION JOINTS MAY BE UTILIZED AT THE LOCATIONS INDICATED AT THE CONTRACTOR'S DISCRETION TO ISOLATE HEAVY AND LIGHT DUTY PAVEMENT.**



KATY FLEWELLS
 (60' R.O.)
 Vol. 31, Pgs. 247 &

REVISIONS AND ISSUANCE NO.	DATE	DESCRIPTION

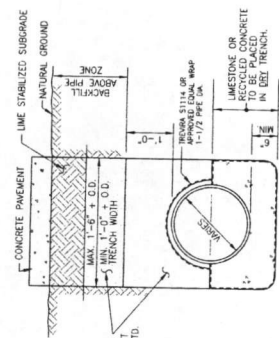
SILVER RANCH IV KIDS
2707 Spring Green Blvd
KATY, TEXAS 77494

TDCK ARCHITECTS, INC.
10020 RICHMOND AVE
HOUSTON, TEXAS 77042
(713) 861-0018
tdck@tdckarchitects.com
P.E. Registration No. 1-1171



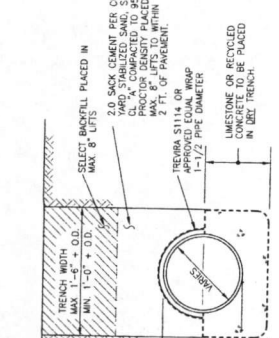
DATE	08/15/2016
DATE	08/15/2016
DATE	08/15/2016

C7



MODIFIED "A-A"
N.T.S.

USE FOR SEWERS UNDER EXISTING OR FUTURE ROADS, STREETS OR DRIVEWAYS.



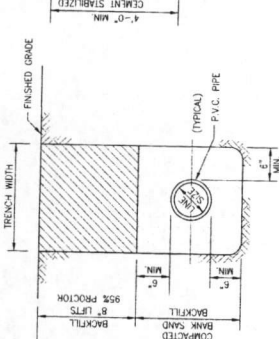
MODIFIED "A-A"
N.T.S.

USE FOR SEWERS IN EASEMENTS & SIDE LOTS AND UNDER EXISTING OR FUTURE ROADS, STREETS, OR DRIVEWAYS.



P.V.C. PIPE BEDDING & BACKFILL
PAVING DETAIL CLASS "A-A"
N.T.S.

* SEE C.S.S. AND BANK SAND NOTES

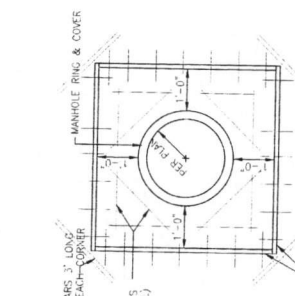


P.V.C. PIPE BEDDING & BACKFILL
N.T.S.

CONSTRUCTION NOTES:
1. CONTRACTOR SHALL CONTACT ENGINEER IMMEDIATELY IF WET SAND CONDITIONS ARE ENCOUNTERED.
2. LIMESTONE AND RECYCLED CONCRETE DIMENSIONS SHOWN ARE TYPICAL BUT MAY BE VARIED BY ORDER OF ENGINEER.

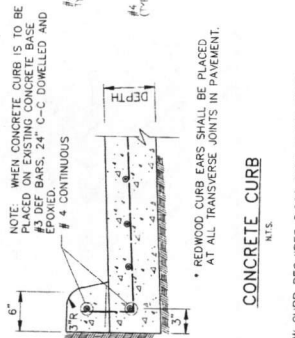
GRAVITY SEWER BEDDING AND BACKFILL

- ALL MATERIALS SHALL BE FROM THE APPROVED PRODUCTS LIST UNLESS SPECIALLY APPROVED BY ENGINEER.
- SANITARY SEWER BEDDING FOR WET SAND CONDITIONS SHALL BE AS PER PARAGRAPH "A" OR "A-1".
- ALL SAND BEDDING FOR WATER LINES SHALL BE CLEAN, MECHANICALLY COMPACTED BANK SAND.



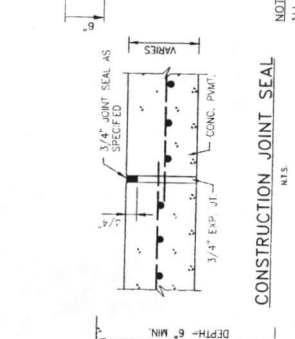
MANHOLE BLOCKOUT
(STORM & SANITARY)
N.T.S.

NOTE: ALL EXPANSION AND CONSTRUCTION JOINTS SHALL BE PLACED AT A RIGHT ANGLE AND CONTINUE THROUGH THE CURB.



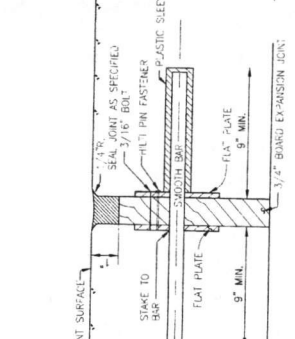
CONCRETE CURB
N.T.S.

NOTE: WHEN CONCRETE CURB IS TO BE PLACED ON EXISTING CONCRETE BASE:
#3 DEF. BARS, 24" C-C DOMELLED AND #4 CONTINUOUS
#4 BARS 3" ON CENTER TYP. EACH CORNER
#4 BARS (TYPICAL)
#4 BARS 3" ON CENTER TYP. EACH CORNER



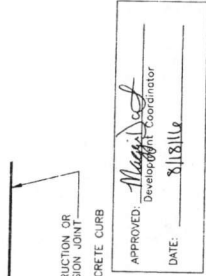
CONSTRUCTION JOINT SEAL
N.T.S.

NOTE: STEEL TO MEET ASTM STD. SPEC. FOR CONC. REBAR UNIT TO BE 24" C-C, AND 10" MIN.



DOWEL TYPE EXPANSION JOINT
N.T.S.

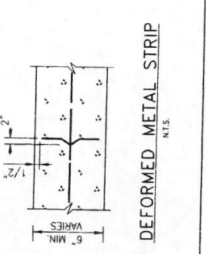
REFER TO CONSTRUCTION JOINT OR EXPANSION JOINT DETAIL FOR PLACEMENT OF JOINTS.
REFER TO PAVING PLAN FOR PLACEMENT OF JOINTS.



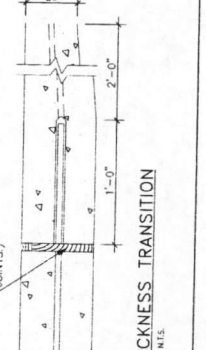
JOINT AND CURB RADIUS
N.T.S.



DEFORMED METAL STRIP
N.T.S.



THICKNESS TRANSITION
SCALE N.T.S.



CONTROL JOINT
N.T.S.

APPROVED: *Meghan*
Designation: Coordinator
DATE: 8/18/16

APPROVED: *Meghan*
Designation: Coordinator
DATE: 8/18/16

APPROVED: *Meghan*
Designation: Coordinator
DATE: 8/18/16

APPROVED: *Meghan*
Designation: Coordinator
DATE: 8/18/16

APPROVED: *Meghan*
Designation: Coordinator
DATE: 8/18/16

REV	DATE	DESCRIPTION

SILVER RANCH IVY KIDS
2707 Spring Green Blvd
KATY, TEXAS 77494

TDCK ARCHITECTS INC
ONE AND STRUCTURAL ENGINEER
MISSION ENGINEERING INC
1030 RICHMOND AVE #500
HOUSTON, TEXAS 77002
(713) 981-0101
E: tdck@missioneng.com
P: 713-981-0101



DATE: 08-15-2016
DRAWING NO.: C8
DETAIL

