DEVELOPMENT AGREEMENT

This **DEVELOPMENT AGREEMENT** (the "Agreement") is made as of May 1, 20**29** (the "Effective Date"), by and between **KATY 2855 DEVELOPMENT LLC**, a Texas limited liability company, or its successors or assigns, ("KATY 2855"), and **WALLER COUNTY**, a political subdivision of the State of Texas, (the "County"), the foregoing being sometimes referred to collectively as the "Parties."

- A. KATY 2855 owns approximately 1,129.77 acres of real property more particularly described by the General Plan attached to this Agreement as **Exhibit A**, of which approximately all of the acreage is located in the County (the "Property").
- B. KATY 2855 desires to develop the Property substantially in accordance with the uses, layout, configuration, lot sizes, lot widths, landscaping, and traffic circulation patter shown on the General Plan and the Plan of Development attached to this Agreement as **Exhibit B** (the "Project").
- C. The County desires that the Project be developed on the Property and expects to receive a benefit from the development of the Project.
- D. The County desires that, in exchange for the granting of the variances needed to facilitate the development of the Project, the Project be subject to certain construction and development standards.
- E. The Parties therefore desire to set out this Development Agreement between them to facilitate the development of the Project by KATY 2855 on the Property.

IN CONSIDERATION of the mutual covenants and promises set forth herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties, intending to be legally bound, hereby covenant and agree as follows:

- 1. <u>Integration of Recitals</u>. The foregoing recitals are accurate/ true and correct and constitute matters agreed to herein.
- 2. <u>Cohesive Development</u>. The Parties desire to coordinate development of certain aspects of the Property, including but not limited to, the square footage, exterior materials, elevations, and other aspects of the Project described in the Plan of Development attached to this Development Agreement as **Exhibit B**. KATY 2855 hereby agrees to develop the Project substantially in accordance with the Plan of Development. KATY 2855 must submit the General Plan, as currently attached as **Exhibit C**, to the Commissioners Court

every five years and the Commissioners Court will approve the General Plan every five (5) years as submitted.

- 3. <u>Variances</u>. The County has granted the variances attached and included in the Plan of Development that include, but are not limited to requests to vary from the literal requirements of the subdivision regulations of the County with regard to block length, right-of-way width, cul-de-sac size, and lot size and width. The County has the authority to enter into this Agreement and to contract for the granting of the variances attached to this Agreement as well as the granting of future variances.
- 4. <u>Annexation.</u> KATY 2855 and a municipal utility district may automatically annex properties that would be included in this Agreement without additional Commissioners Court approval after written notice to the Commissioners Court by KATY 2855. All provisions of this Agreement will apply to any future annexations by KATY 2855.
- 5. <u>Applicable Law</u>. The Parties obligations as set forth herein are subject to compliance with applicable laws, codes, rules and regulations (collectively, "Applicable Laws"). In the event such Applicable Laws prevent performance of any obligations as set forth herein, the non-performing party shall not be in default of the terms of this Agreement.
- Notices. All such notices shall be either (a) sent by certified mail, return 6. receipt requested, in which case notice shall be deemed delivered three (3) business days after deposit, postage prepaid in the U.S. Mail, (b) sent by overnight delivery using a nationally recognized overnight courier, in which case it shall be deemed delivered one (I) business day after deposit with such courier, if deposited prior to such carrier's deadline for overnight deliveries, otherwise two (2) business days after deposit with such courier, (c) sent by facsimile, in which case notice shall be deemed delivered upon electronic confirmation of receipt of such notice (or if such electronic confirmation of receipt occurs other than on a business day, or other than during normal business hours, then on the next business day after such electronic confirmation of receipt occurs), (d) sent by e-mail as a PDF, in which case notice shall be deemed delivered upon transmission (or if such transmission occurs other than on a business day, or other than during normal business hours, then on the next business day after such transmission occurs), or (e) sent by personal delivery, in which case notice shall be effective upon delivery or refusal to accept delivery. As used in this Agreement, "business day" refers to a day other than a Saturday, Sunday or legal holiday in Houston, Texas, and "normal business hours" refers to the hours between 8:00 a.m. and 5:00 p.m., Houston, Texas time on a business day. The above addresses may be changed by notice to the other party; provided, however, that no notice of a change of address shall be effective until actual receipt of such notice. Notwithstanding the foregoing, any notice of or relating to a default or claim of default by a party pursuant to this Agreement must be sent in accordance with the method provided in clause (a), (b), (c) or (e)

in order to be effective. For purposes of notice, the addresses of the Parties shall be as follows:

KATY 2855:

KATY 2855 Development, LLC

c/o The Johnson Development Corp.

Attn: Mr. Jacob Rice

5005 Riverway Drive, Suite 500

Houston, Texas 77056

Email: jacobr@johnsondev.com

with a copy to:

Allen Boone Humphries Robinson LLP

Attn: Angie Lutz

3200 Southwest Freeway, Ste. 2600

Houston, TX 77027 Email: alutz@abhr.com

County:

Waller County Judge

836 Austin Street, Ste. 203 Hempstead, TX 77445

with a copy to:

Elizabeth Dorsey

645 12th Street

Hempstead, TX 77445

Assignment. The County acknowledges that rights accrued under this 7. Agreement are intended to facilitate the development of the Project by KATY 2855 or its Affiliate entities and that while KATY 2855 or its affiliate entities will be the primary actor in the grading and laying out of single-family lots and commercial parcels, the Parties acknowledge and agree that this Agreement is not intended to prevent the construction of single-family homes and their appurtenant infrastructure by a variety of homebuilders and commercial structures who will purchase portions of the Project from KATY 2855 or its Affiliate entities from time to time, so long as that construction complies with the terms of this Agreement. Assignment of rights under this Agreement to a developer other than KATY 2855 or its Affiliate entities for the grading and laying out of lots and commercial structures shall require the written notice of the County. Subject to the foregoing, this Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective legal representatives and approved successors and assigns. For the purposes of this Section, the term "Affiliate" means (a) an entity that directly or indirectly controls, is controlled by or is under common control with KATY 2855 or (b) an entity at least five percent of whose economic interest is owned by KATY 2855 or an entity that directly or indirectly controls, is controlled by or is under common control with KATY 2855; and the term "control" means the power to direct the management of such entity through voting rights, ownership or contractual obligations.

8. <u>Duration. Amendment and Termination</u>. This Agreement may be terminated by unanimous written consent of the Parties, or their approved successors or assigns. Upon the termination of this Agreement, all rights and privileges derived from and all duties and obligations created and imposed by the provisions of this Agreement shall terminate and have no further force or effect. To amend, supplement, or terminate this Agreement, the written consent of the Parties must first be obtained. This Agreement may not be amended, supplemented, or terminated except as provided herein.

Invalidity and Enforcement.

- a. If any portion of this Agreement is held invalid or inoperative under applicable law, then so far as is reasonable and possible the remainder of this Agreement shall be deemed valid and operative and severable therefrom, and effect shall be given to the intent manifested by the portion held invalid or inoperative and such portion shall be deemed reformed in accordance with such manifest intent so as to be enforceable to the fullest extent permitted by applicable law.
- b. The failure by either party to enforce against the other any term or provision of this Agreement shall be deemed not to be a waiver of such party's right to enforce against the other party the same or any other such term or provision.
- 10. <u>Binding Effect</u>. This Agreement shall inure to the benefit of and shall be binding upon the Parties hereto and their respective representatives and approved successors and assigns.
- 11. <u>Governing Law</u>. This Agreement shall, in all respects, be governed, construed, applied, and enforced in accordance with the law of the State of Texas, excluding such state's conflict of laws principles.
- 12. **Venue**. Any legal proceedings undertaken with regard to this Agreement shall be prosecuted in the court of competent jurisdiction in Waller County, Texas.
- 13. <u>Development Rights</u>. Upon the mutual execution of this Agreement, the County and KATY 2855 agree that the development rights (as hereafter defined) of the County and the KATY 2855 as set forth in this Agreement shall be deemed to have vested, as provided by the Texas Local Government Code, Chapters 43 and 245 and Section 212.172(g), as amended or under any other existing or future common or statutory rights as of the Effective Date. "Development Rights" shall mean the covenants, agreements, and

privileges regarding the development of the Property between the County and KATY 2855 set forth in this Agreement, but shall expressly exclude any right, title, interest, privilege, or claim in and to the Property.

- 14. <u>Uniform Treatment</u>. Notwithstanding any provision herein to the contrary, neither KATY 2855 nor a municipal utility district encompassing the KATY 2855 Property shall be required to design or construct public infrastructure to a standard higher than a standard made applicable hereafter to another conservation and reclamation district, municipal utility district or developer developing land within the County's unincorporated jurisdiction. It is the intention and desire of the County that development of the Property not be at a competitive disadvantage with other developments within the County.
- 15. Governmental Affirmations. KATY 2855 and Landowner hereby verifies that it and its parent companies, wholly- or majority-owned subsidiaries, and other affiliates, if any, do not boycott Israel and, to the extent this Agreement is a contract for goods or services, will not boycott Israel during the term of this Agreement. The foregoing verification is made solely to comply with Section 2270.002, Texas Government Code, and to the extent such Section does not contravene applicable Federal law. As used in the foregoing verification, 'boycott Israel' means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made for ordinary business purposes. KATY 2855 understands 'affiliate' to mean an entity that controls, is controlled by, or is under common control with KATY 2855 and exists to make a profit.

KATY 2855 represents that neither it nor any of its parent companies, whollyor majority-owned subsidiaries, and other affiliates is a company identified on a list prepared and maintained by the Texas Comptroller of Public Accounts under Section 2252.153 or Section 2270.0201, Texas Government Code, and posted on any of the following pages of such officer's internet website:

https://comptroller.texas.gov/puchasing/docs/sudan-list.pdf; https://comptroller.texas.gov/purchasing/docs/iran-list.pdf; or https://comptroller.texas.gov/purchasing/docs/fto-list.pdf.

The foregoing representation is made solely to comply with Section 2252.152, Texas Government Code, and to the extent such Section does not contravene applicable Federal law and excludes KATY 2855 and each of its parent companies, wholly- or majority-owned subsidiaries, and other affiliates, if any, that the United States government has affirmatively declared to be excluded from its federal sanctions regime relating to Sudan or Iran or any federal sanctions regime relating to a foreign terrorist organization. KATY 2855

understands "affiliate" to mean any entity that controls, is controlled by, or is under common control with KATY 2855 and exists to make a profit.

- 16. <u>Texas 1295 Filing</u>. Both Parties agree prior to full execution and approval of this Agreement, KATY 2855 will submit and the County will approve a 1295 filing.
- 17. <u>Counterparts</u>. This Agreement may be executed in any number of counterparts, and in separate counterparts, each of which shall be deemed to be an original, and all of such counterparts shall constitute one Agreement.

IN WITNESS WHEREOF, the Parties hereto have duly executed this Agreement, as of the Effective Date.

[EXECUTION PAGES TO FOLLOW]

		Waller County, a political subdivision of the State of Texas By: Name: CARBETT TREY" J - DYHON TI Title: WALLER ANNTY JUDGE
)	Title: WALLER CHINIG OUPER
STATE OF TEXAS	§	
	§	
COUNTY OF WALLER	§	
•	DUHEN III	on the 18 day of June 2024, 2023, Waller County, a political
subdivision of the State of Texas.	•	
		Circly Jones
SEAL		Notary Public, State of Texas

KATY 2855 Development, LLC

a Texas limited liability company

Jacob W. Rice Vice President

Title:

STATE OF TEXAS

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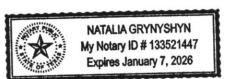
COUNTY OF HARRIS

8 8

This instrument was acknowledged before me on the 2023, by Jacob W. Rice, Vice Preside Vice President

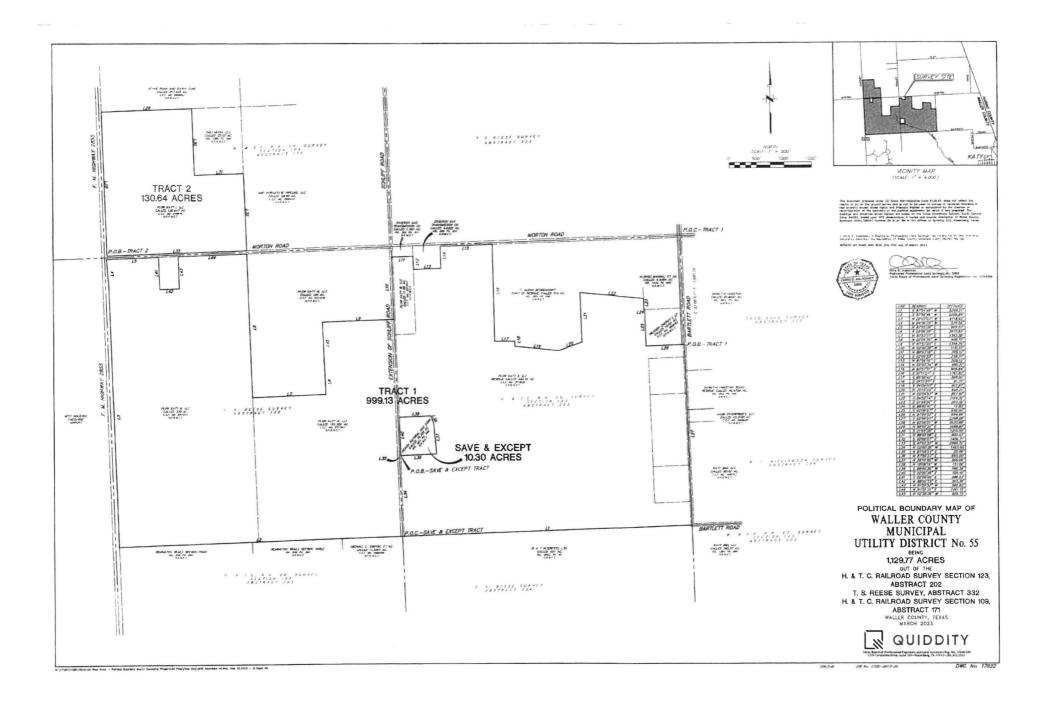
Development, LLC, a Texas limited liability company.

[SEAL]



Notary Public, State of Texas

Exhibit A Metes and Bounds of the Property



Waller County MUD No. 55 H. & T. C. Railroad Company Survey Section 123, Abstract 202 Tract 1 - 999.13 Acres

T. S. Reese Survey, Abstract 332

STATE OF TEXAS § COUNTY OF WALLER 8

A METES & BOUNDS description of a 1,009.43 acre tract of land in the H. & T. C. Railroad Company Survey Section 123, Abstract 202, Waller County, Texas, and the T. S. Reese Survey, Abstract 332, Waller County, Texas, being comprised of portions of that certain called 484.16 acre tract recorded under County Clerk's File Number 2111635, Official Public Records, Waller County, Texas, portions of that certain called 320 acre tract, called 195,506 acre tract, and called 11.98 acre tract recorded under County Clerk's File Number 2211947, Official Public Records, Waller County, Texas, with all bearings based upon the Texas Coordinate System of 1983, South Central Zone, based upon GPS observations.

Commencing at a point in the intersection of Morton Road and Bartlett Road for the northeast corner of said H. & T. C. Railroad Company Surveying Section 123, Abstract 202, same being the southeast corner of the adjoining T. S. Reese Survey, Abstract 333, and the northwest corner of the adjoining Fred Eule Survey, Abstract 376, being the northwest corner of an adjoining called 81.8452 acre tract recorded in Volume 1012, Page 543, Official Records, Waller County, Texas;

Thence South 02 degrees 06 minutes 07 seconds East along the east line of said Section 123, same being the west line of said adjoining Fred Eule Survey, Abstract 376, and the west line of said adjoining called 81.8452 acre tract, as located in Bartlett Road, 1,981.19 feet to a point for the lower northeast corner of said called 484.16 acre tract, for the lower northeast corner and Place of Beginning of the herein described tract, said point being the southeast corner of an adjoining called 10.00 acre tract recorded under County Clerk's File Number 1809163, Official Public Records, Waller County, Texas;

Thence South 02 degrees 06 minutes 07 seconds East along the east line of the herein described tract and the east line of said called 484.16 acre tract, same being the west line of said adjoining Fred Eule Survey, Abstract 376 and said adjoining called 81.8452 acre tract, as located in Bartlett Road, at 477.77 feet pass a the southwest corner of said adjoining called 81.8452 acre tract, same being the northwest corner of the adjoining residue of a called 40.8759 acre tract recorded in Volume 995, Page 449, Official Records, Waller County, Texas, at 1,193.40 feet pass the southwest corner of said adjoining residue of a called 40.8759 acre tract and the southwest corner of said adjoining Fred Eule Survey, Abstract 376, same being the northwest corner of the adjoining W. I. Williamson Survey, Abstract 396, and the northwest corner of an adjoining called 10.2190 acre tract recorded under County Clerk's File Number 1600639, Official Public Records, Waller County, Texas, at 1,431.59 feet pass the southwest corner of said adjoining called 10.2190 acre tract, same being the northwest corner of an adjoining called 80.02 acre tract recorded under County Clerk's File Number 1501213, Official Public Records, Waller County, Texas, and continuing for a total distance of 3,298.28 feet to the southeast corner of the herein described tract, the southeast corner of said called 484.16 acre tract, and the southeast corner of said Section 123, same being the southwest corner of said adjoining W. I. Williamson Survey, Abstract 396 and said adjoining called 80.02 acre tract, the northwest corner of the adjoining H. & T. C. Railroad Company Survey Section 125, Abstract 203, being the northwest corner of an adjoining called 160.37 acre tract recorded in Volume 1384, Page 805, Official Records, Waller County, Texas, and the northeast corner of the adjoining T. S. Reese Survey, Abstract 334, being the northeast corner of an adjoining called 454 acre tract recorded in Volume 553, Page 96, Official Records, Waller County, Texas;

Thence South 87 degrees 54 minutes 48 seconds West along the south line of the herein described tract, the south line of said called 484.16 acre tract, and the south line of said Section 123, same being the north line of said adjoining T. S. Reese Survey, Abstract 334, and said adjoining called 454 acre tract, 5,298.21 feet to the southwest corner of said called 484.16 acre tract, and the southwest corner of said Section 123, same being the northwest corner of said adjoining T. S. Reese Survey, Abstract 334, and said adjoining called 454 acre tract, the northeast corner of the adjoining H. & T. C. Railroad Company Survey Section 108, Abstract 295, being the northeast corner of an adjoining called 11.5164 acre tract recorded under County Clerk's File Number 1908706, Official Public Records, Waller County, Texas, and the southeast corner of said T. S. Reese Survey, Abstract 332, being the southeast corner of said called 195.506 acre tract;

Thence South 87 degrees 56 minutes 46 seconds West along the south line of the herein described tract, the south line of said called 195.506 acre tract, the south line of said called 320 acre tract, and the south line of said T. S. Reese Survey, Abstract 332, same being the north line of said adjoining H. & T. C. Railroad Company Survey Section 108, Abstract 295, the north line of said adjoining called 11.5164 acre tract, the north line of the adjoining Remington Trails Section Three, according to map or plat thereof recorded in Volume 658, Page. 396, Official Records, Waller County, Texas, and the north line of the adjoining Remington Trails Section Four, according to map or plat thereof recorded in Volume 658, Page 398, Official Records, Waller County, Texas, 5,206.89 feet to a point for the southwest corner of the herein described tract, being in the east right-of-way line of F. M. Highway 2855 (103-feet wide this location);

Thence North 02 degrees 07 minutes 07 seconds West along the east right-of-way line of F. M. Highway 2855, 4,718.43 feet to an angle point;

Thence North 04 degrees 26 minutes 29 seconds West continuing along the east right-of-way line of F. M. Highway 2855, 529.56 feet to a point for the northwest corner of the herein described tract, being at the intersection of the east right-of-way line of F. M. Highway 2855 and the south right-of-way line of Morton Road (width varies);

Thence North 87 degrees 55 minutes 39 seconds East generally along the approximate south right-of-way line of Morton Road, 969.07 feet to a point for corner;

Thence South 02 degrees 09 minutes 00 seconds East, 586.03 feet to a point for corner;

Thence North 88 degrees 02 minutes 55 seconds East, 365.38 feet to a point for corner;

Thence North 01 degree 55 minutes 52 seconds West, 586.82 feet to a point for corner;

Thence North 87 degrees 55 minutes 31 seconds East generally along the approximate south right-of-way line of Morton Road, 1,261.15 feet to a point for the most westerly northeast corner of the herein described tract, being in the east line of said called 320 acre tract, same being the west line of an adjoining called 120 acre tract recorded under County Clerk's File Number 2211948, Official Public Records, Waller County, Texas;

Waller County MUD No. 55 H. & T. C. Railroad Company Survey Section 123, Abstract 202 Tract 1 – 999.13 Acres T. S. Reese Survey, Abstract 332

Thence along the common line of the herein described tract and said adjoining called 120 acre tract with the following courses and distances:

South 02 degrees 06 minutes 39 seconds East, 2,610.83 feet;

North 87 degrees 53 minutes 27 seconds East, 1,343.38 feet;

North 02 degrees 26 minutes 26 seconds West, 408.72 feet;

North 02 degrees 35 minutes 36 seconds West, 909.75 feet;

North 87 degrees 53 minutes 20 seconds East, 1,304.79 feet to a point for a reentry corner to the herein described tract, being in the east line of said T. S. Reese Survey, Abstract 332, same being the west line of said H. & T. C. Railroad Company Survey Section 123, Abstract 202;

Thence North 02 degrees 00 minutes 38 seconds West along the east line of said T. S. Reese Survey, Abstract 332, same being the west line of said H. & T. C. Railroad Company Survey Section 123, Abstract 202, as located in an extension of Schlipf Road, 1,131.15 feet to a point for corner;

Thence North 88 degrees 03 minutes 18 seconds East along the north line of said called 11.98 acre tract, same being the south line of an adjoining called 1.360 acre tract recorded in Volume 388, Page 517, Deed Records, Waller County, Texas, 395.12 feet to the northeast corner of said called 11.98 acre tract, being in the west line of an adjoining called 4.6202 acre tract recorded in Volume 388, Page 522, Deed Records, Waller County, Texas;

Thence South 02 degrees 09 minutes 53 seconds East along the common line of said called 11.98 acre tract and said adjoining called 4.6202 acre tract, 238.37 feet to the southwest corner of said adjoining called 4.6202 acre tract;

Thence North 87 degrees 56 minutes 16 seconds East along the common line of the herein described tract and said adjoining called 4.6202 acre tract, 505.12 feet to the southeast corner of said adjoining called 4.6202 acre tract;

Thence North 02 degrees 03 minutes 34 seconds West continuing along said common line, 400.21 feet to a point on said line at its intersection with the south right-of-way line of Morton Road for corner;

Thence North 87 degrees 57 minutes 01 second East along the south right-of-way line of Morton Road, 956.64 feet to a point for corner, being in the west line of the adjoining residue of a called 618 acre tract recorded in Volume 384, Page 846, Deed Records, Waller County, Texas;

Thence along the common line of the herein described tract and said adjoining residue of a called 618 acre tract with the following courses and distances:

South 01 degree 11 minutes 27 seconds East, 1,761.82 feet;

South 89 degrees 58 minutes 42 seconds East, 368.50 feet;

Waller County MUD No. 55 Tract 1 -- 999.13 Acres H. & T. C. Railroad Company Survey Section 123, Abstract 202 T. S. Reese Survey, Abstract 332

South 01 degree 11 minutes 27 seconds East, 91.37 feet;

South 84 degrees 09 minutes 03 seconds East, 801.87 feet;

North 70 degrees 19 minutes 33 seconds East, 458.35 feet;

North 02 degrees 04 minutes 53 seconds West, 897.90 feet;

South 84 degrees 52 minutes 14 seconds East, 1,164.32 feet to a point for corner, said point being in the west line of an adjoining called 4.9366 acre tract recorded in Volume 1434, Page 650, Official Records, Waller County, Texas;

Thence South 01 degree 58 minutes 26 seconds East along an easterly line of the herein described tract, same being the west line of said adjoining called 4.9366 acre tract, 203.39 feet to the southwest corner of said adjoining called 4.9366 acre tract;

Thence North 88 degrees 00 minutes 41 seconds East along the south line of said adjoining called 4.9366 acre tract, 12.83 feet to the northwest corner of the aforementioned adjoining called 10.00 acre tract:

Thence South 02 degrees 06 minutes 07 seconds East along the common line of the herein described tract and said adjoining called 10.00 acre tract, 660.00 feet to the southwest corner of said adjoining called 10.00 acre tract;

Thence North 87 degrees 59 minutes 52 seconds East continuing along said common line, 694.99 feet to the Place of Beginning and containing 1,009.43 acres of land,

SAVE & EXCEPT the following tract:

A 10.30 acre tract of land in the H. & T. C. Railroad Company Survey Section 123, Abstract 202, Waller County, Texas, being that certain called 10.302 acre tract recorded in Volume 667, Page 566, Deed Records, Waller County, Texas, with all bearing based on the Texas Coordinate System of 1983, South Central Zone, based upon GPS observations.

Commencing at the above-described southwest corner of the aforementioned called 484.16 acre tract, and the southwest corner of said Section 123, same being the northwest corner of the adjoining T. S. Reese Survey, Abstract 334, and the aforementioned adjoining called 454 acre tract, the northeast corner of the adjoining H. & T. C. Railroad Company Survey Section 108, Abstract 295, being the northeast corner of the aforementioned adjoining called 11.5164 acre tract, and the southeast corner of said T. S. Reese Survey, Abstract 332, being the southeast corner of the aforementioned called 195.506 acre tract;

Thence North 02 degrees 00 minutes 38 seconds West along the west line of said called 484.16 acre tract, and the west line of said Section 123, same being the east line of said T. S. Reese Survey, Abstract 332, and the east line of said called 195.506 acre tract, as located in and along an apparent extension of Schlipf Road, 1,465.60 feet to a point on said line;

Waller County MUD No. 55 H. & T. Tract 1 – 999.13 Acres

H. & T. C. Railroad Company Survey Section 123, Abstract 202 T. S. Reese Survey, Abstract 332

Thence North 87 degrees 59 minutes 23 seconds East departing said line, 25.00 feet to the southwest corner of the aforementioned called 10.302 acre tract for the southwest corner and Place of Beginning of the herein described 10.30 acre Save & Except tract;

Thence North 87 degrees 59 minutes 23 seconds East along the south line of said called 10.302 acre tract, 660.00 feet to the southeast corner of said called 10.302 acre tract;

Thence North 05 degrees 15 minutes 05 seconds West along the east line of said adjoining called 10.302 acre tract, 560.66 feet to an angle point;

Thence North 18 degrees 08 minutes 16 seconds West continuing along said line, 151.08 feet to the northeast corner of said called 10.302 acre tract;

Thence South 88 degrees 00 minutes 36 seconds West along the north line of said called 10.302 acre tract, 586.34 feet to the northwest corner of said called 10.302 acre tract;

Thence South 02 degrees 00 minutes 38 seconds East along the west line of said called 10.302 acre tract, 705.10 feet to the Place of Beginning and containing 10.30 acres of land, for a net acreage of 999.13 acres of land, more or less.

This document prepared under 22 Texas Administrative Code § 138.95, does not reflect the results of an on the ground survey and is not to be used to convey or establish interests in real property except those rights and interests implied or established by the creation or reconfiguration of the boundary of the political subdivision for which it was prepared.

March 15, 2023

Job Number 17281-0013-00

Quiddity Engineering, LLC 1229 Corporate Drive, Suite 100 Rosenberg, TX 77471 (281) 342-2033 Texas Board of Professional Land Surveying Registration No. 10046100

CHRIS D. KALKOMEY

Acting By/Through Chris D. Kalkomey Registered Professional Land Surveyor No. 5869

CDKalkomey@jonescarter.com

Waller County MUD No. 55 Tract 2 – 130.64 Acres H. & T. C. Railroad Company Survey Section 109, Abstract 171

STATE OF TEXAS

§

COUNTY OF WALLER

8

A METES & BOUNDS description of a 130.64 acre tract of land in the H. & T. C. Railroad Company Survey Section 109, Abstract 171, Waller County, Texas, being that certain called 130.647 acre tract recorded under County Clerk's File Number 2110116, Official Public Records, Waller County, Texas, with all bearings based upon the Texas Coordinate System of 1983, South Central Zone, based upon GPS observations.

Beginning at the southwest corner of said called 130.647 acre tract, being at the intersection of the north right-of-way line of Morton Road and the east right-of-way line of F. M. Highway 2855, for the southwest corner and **Place of Beginning** of the herein described tract;

Thence North 02 degrees 00 minutes 01 second West along the west line of said called 130.647 acre tract, same being the east right-of-way line of F. M. Highway 2855, 2,620.88 feet to the northwest corner of said called 130.647 acre tract, same being the southwest corner of an adjoining called 217.545 acre tract recorded under County Clerk's File Number 1909653, Official Public Records, Waller County, Texas;

Thence North 88 degrees 00 minutes 31 seconds East along the upper north line of said called 130.647 acre tract, same being the south line of said adjoining called 217.5458 tract, 1,688.80 feet to the northwest corner of an adjoining called 25.00 acre tract recorded in Volume 1301, Page 590, Official Public Records, Waller County, Texas;

Thence South 01 degree 59 minutes 35 seconds East along the west line of said adjoining called 25.00 acre tract, 1,210.00 feet to the southwest corner of said adjoining called 25.00 acre tract;

Thence North 88 degrees 02 minutes 06 seconds East along the south line of said adjoining called 25.00 acre tract, 900.03 feet to the southeast corner of said adjoining called 25.00 acre tract, being in the west line of an adjoining called 58.96 acre tract recorded under County Clerk's File Number 1909457, Official Public Records, Waller County, Texas;

Thence South 02 degrees 00 minutes 07 seconds East along the west line of said adjoining called 58.96 acre tract, 1,406.71 feet to the southwest corner of said adjoining called 58.96 acre tract, same being the southeast corner of said called 130.647 acre tract, and being in the north right-of-way line of Morton Road;

Thence South 87 degrees 55 minutes 32 seconds West along the north right-of-way line of Morton Road, 2,588.72 feet to the **Place of Beginning** and containing 130.64 acres of land, more or less.

This document prepared under 22 Texas Administrative Code § 138.95, does not reflect the results of an on the ground survey and is not to be used to convey or establish interests in real property except those rights and interests implied or established by the creation or reconfiguration of the boundary of the political subdivision for which it was prepared.

September 23, 2022

Job Number 17281-0013-00

Quiddity Engineering, LLC 1229 Corporate Drive, Suite 100 Rosenberg, TX 77471 (281) 342-2033 Texas Board of Professional Land Surveying Registration No. 10046100

CHRIS D. KALKOMEY

Acting By/Through Chris D. Kalkomey Registered Professional Land Surveyor No. 5869

CDKalkomey@jonescarter.com

PLAN OF DEVELOPMENT EXHIBIT B

+1,129.77 Acres

Prepared For: KATY 2855 DEVELOPMENT LLC

PREPARED BY:



24285 Katy Freeway, Suite 525 Katy, TX 77494

APPROVED: -____

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 - m. Exhibit M: Residential Specialty Examples

INTRODUCTION

Grange (Project) is a master planned community consisting of approximately 1,129.77 acres located North of Highway 90, South of Morton Rd, and West of Bartlett Road and East of Houston Executive Airport. The Project is wholly located within Waller County.

The developer, Katy 2855 Development LLC ("Developer"), desires to construct a community surrounded by amenities that feature the natural environment and open spaces, with a wide range of housing types and prices, a diverse selection of lot sizes, and an appropriate spectrum of non-residential land uses to support a quality residential development.

This Plan of Development (PD), its description, rules, and regulations shall apply to the entirety of the property, which is located within Waller County. The area of the PD is depicted in Exhibit A, Boundary Exhibit, and Exhibit C, Conceptual Development Plan.

I. GENERAL PROVISIONS

The PD approved herein will be constructed, developed, and maintained in compliance with the Development Agreement and other applicable ordinances or regulations of the County. The Grange Plan of Development shall be governed by the County ordinances and regulations in effect as of the effective date of the Development Agreement. To the extent the existing and future County ordinance or regulation conflicts with the Development Agreement and/or the Development Agreement and this Plan of Development, this Agreement shall prevail. Amended or future County ordinances shall not apply to the Project.

If there are discrepancies between the text of this document and the figures attached, the text shall prevail.

The Project shall be developed in accordance with the following exhibits that are attached to and made part of this PD:

Exhibit A: Boundary Exhibit Exhibit B: Vicinity Exhibit

Exhibit C: Conceptual Development Plan

Exhibit D: Jurisdiction Exhibit

Exhibit E: Roadway Improvement Exhibit

Exhibit F: Cross Section Exhibit

Exhibit G: Major Thoroughfare Plan (per Waller County- 2019)

Exhibit H: Fence Exhibit Exhibit I: Trails Exhibit

Exhibit J: Waller County Subdivision Ordinance, effective March 21, 2021

Exhibit K: TIA Executive Summary Exhibit L: Mitigation Summary

Exhibit M: Residential Specialty Examples

A homeowners' association shall be established and made legally responsible to maintain all common areas, private streets, recreation reserves and community amenities not otherwise dedicated to the public. All land and facilities dedicated to a Municipal Utility District (MUD) shall be maintained by said MUD.

The Developer and a MUD may automatically annex properties that would be included in this Development Agreement without additional County Commissioners Court approval. All PD constraints on land uses, such as maximum lot or unit counts, will be increased proportionately to accommodate the additional annexation of property(s) into this Agreement.

The Developer or MUD shall maintain a construction/maintenance bond for a minimum of one year. At substantial completion of the roadway, which is approved by the County, the

Developer can reduce the maintenance bond by 50%. After the County fully accepts the roadway, the bond can be reduced 100% and released.

The Developer shall only fund or construct road improvements where the Developer constructs direct connections into existing County/TxDOT-maintained roads. Refer to Exhibit E.

The Parties agree this Plan of Development was created by the Developer for generally illustrating the boundary, lot mix and simplified layout of the Project. Any amendment to the Plan of Development shall be considered an amendment to this Agreement and shall replace the Plan of Development and become a part of this Agreement. The Waller County Engineer (the "County Engineer") may administratively approve any amendments to the Plan of Development that the County Engineer deems in his/her reasonable discretion to be minor in nature. Any change in the Plan of Development that does not materially increase density of residences by more than 1.0 unit per gross acre shall be deemed minor in nature. Relocation of residential lots set forth in the Plan of Development shall be deemed minor in nature, so long as such relocation remains in the spirit of the Plan of Development. Upon approval by the County Engineer of a minor revised Plan of Development, or approval by the Waller County Commissioner's Court or County official or Commissioner with delegated authority for approval of a revised Plan of Development containing more than minor revisions, the revised Plan of Development shall replace and supersede the then-current Plan of Development.

The following major modifications of the Development Agreement require approval by Commissioners Court:

- 1. Any increase in the maximum permitted single-family lots or multifamily units as outlined in Section II- Land Uses.
- 2. Deviations from the Development Regulations as specified in Section III that are intended to achieve a different design character. However, this does not preclude any individual variances with a physical hardship that may be approved by the Commissioners Court on a case-by-case basis.

A Phase Update to the General Plan shall be provided to the County Engineer for administrative review as development progresses. The County Engineer shall review and determine if the Phase Update is substantial enough to warrant a new General Plan approval by Commissioners Court.

II. LAND USES

The maximum number of single-family lots shall not exceed 3,500 lots. The maximum number of mixed-use and multifamily units shall not exceed 1,200 units, and the total of all dwelling units combined shall not exceed 4,700 units. This applies to the initial 1,129.77 acres.

Notwithstanding anything in this PD to the contrary, if the Developer adds property to the project, the number of single-family and mixed-use and multifamily units shall increase proportionately based on the ratio that the acreage of such additional property bears to the acreage of the property. For example, if 100-acres are added to this PD, the proportion

- 5 -

will be an 8.85%¹ increase in unit/lot density. The inclusion of any additional acreage to this PD shall require a resubmittal of the General Plan to Commissioners Court for approval, and the Commissioners Court shall not withhold approval of the resubmitted General Plan.

Any planned or proposed Multifamily developments will be clearly shown and labelled on the Conceptual Development Plan/General Plan submitted to the County.

Within the boundary of the proposed Plan of Development, land shall be dedicated to the County, HOA or MUD for neighborhood park/open space purposes, which area shall equal one (1) acre for each fifty- four (54) proposed dwelling units, based on 3,500 units equals 65 acres required neighborhood park and open space. Land used for public park area shall have a minimum frontage of 60 feet on a public street. Portions of open space that do not have any additional man-made improvements provided by the Developer, such as hiking/running trails, benches or shelters that facilitate an active human recreational role will not be considered contributing to the minimum public park area requirement. All public parks or open space areas may be maintained by the Developer's HOA or the MUD(s).

Commercial and non-residential uses are regulated by applicable Waller County ordinances and land use as seen in Exhibit J. The applicable Waller County subdevelopment ordinances are the standards and ordinances that currently apply on the effective date of this PD and are attached to this PD, and do not and will not include any future amendments or changes thereto.

III. DEVELOPMENT REGULATIONS

Roadway Design

Roadways within the PD shall be developed in accordance with the following regulations:

- a. Arterial Streets (aka Major Thoroughfares) roadway geometry for Arterial Streets shall comply with all Waller County regulations and requirements in effect as of the date of this Agreement, as adopted by the Waller County Commissioners Court and attached in Exhibit G.
 - i. The developer reserves the right to propose and construct non-standard paving cross sections and traffic calming improvements for some portions of public streets including Major Thoroughfares, such as Franz Road. This may include, but is not limited to modified cross sections, table-top crossings, and/or on-street parallel or angled parking.
- b. Collector Streets
 - 1. 60' minimum ROW width
 - 2. 500' minimum centerline radius
 - 3. Paving width may be reduced to 28'.
 - a. Areas where a reduction is not appropriate include portions of collector streets that abut schools, parks, commercial uses, multifamily, or other uses in which vehicle stacking onto the collector would be necessary for the intended use.

¹ (100/1,129.77 = 0.0885) x 100 = 8.85%

- 4. All Collector Streets should be considered self-imposed collector streets as the Project is not subject to any collector streets on the Major Thoroughfare plan that is approved at the time of the approval and execution of this PD.
- Local Streets
 - 1. 50' minimum ROW width
 - 2. 125' minimum centerline radius
 - 3. 50' centerline radius on knuckles
 - 4. 50' radius on knuckle bulbs
 - 5. 60' radius on cul-de-sac bulbs
 - 6. 42.5' paving radius on cul-de-sacs and knuckle bulbs (back of curb to back of curb)
 - 7. Center point of bulb on cul-de-sac or knuckle may be offset from right-of-way centerline.
- d. Private Streets
 - 1. Shall adhere to all regulations as set forth in Local Streets above.
- e. Except as specifically stated herein, roadway construction details such as concrete thickness and materials specifications shall comply with all Waller County regulations and requirements, as adopted by the Waller County Commissioners Court attached in Exhibit J.
- f. The Developer is not responsible for any improvements to any exterior roadways except as determined by the Traffic Impact Analysis (TIA). In the event any right of way or additional paving improvements are required outside the Project boundary per the TIA, County shall be responsible for obtaining such right of way at its cost and Developer shall commence construction after such right of way is obtained. The TIA has been performed by the Engineer and submitted to Waller County on behalf of the Developer. The Developer is only responsible for making existing roadway improvements as identified by the TIA. The Developer and the County both agree that the County is held responsible for improving Morton Road as identified as the following projects:
 - i. TIA Item No. 1 (refer to Exhibits K and L) -
 - Traffic signal at Morton Road and FM 2855
 - ii. TIA Item No. 2 (refer to Exhibits K and L) -
 - Traffic signal at Morton Road and Schlipf Road
 - eastbound and westbound left turn lane connections
 - iii. TIA Item No. 3 (refer to Exhibits K and L) -
 - Install eastbound and westbound left turn lanes at Bartlett Road.
- g. The Developer will contribute to the above-listed projects an amount, not to exceed \$1,947,000. The Developer will also contribute an additional, not to exceed, \$1,000,000, to be considered as the Morton Road Contribution. The Developer's total contribution to Waller County is not to exceed \$2,947,000.
- h. Agreed payment method between The Developer and Waller County
 - ii. The Developer will pay Waller County the agreed upon contribution based on set completion of development in 20% increments.
 - 1. 1st Contribution Payment 20% developed: \$589,400
 - 2. 2nd Contribution Payment 40% developed: \$589,400
 - 3. 3rd Contribution Payment 60% developed: \$589,400
 - 4. 4th Contribution Payment 80% developed: \$589,400
 - 5. 5th & Final Contribution Payment 100% developed: \$589,400

Points of Access

- A. Points of Access within the Project development shall be determined for all residential sections based on the following:
 - 1. One (1) point of access is allowed for up to 150 lots.
 - a. Entry streets with a boulevard paving section shall be considered two (2) points of access.
 - 2. The Developer will provide a second point of access for any phase of development or section greater than 150 lots.
 - a. A connection to a major thoroughfare on Waller County's Thoroughfare Plans shall suffice as two points of access as a temporary condition until a permanent secondary connection can reasonably be made to another existing roadway.

Block Length and Intersection Spacing

- A. Block length and intersection spacing within the Project shall be determined based on the following:
 - 1. Collector Streets
 - a. Each collector street shall intersect with another local street, collector street, private street, or Major Thoroughfare at least every 1,400 feet, measured from edge of right-of-way to edge of right-of-way.
 - 2. Local Streets
 - a. Each local street shall intersect with another local street, collector street, private street, or Major Thoroughfare at least every 1,400 feet, measured from edge of right-of-way to edge of right-of-way.
 - b. Intersections along local streets shall be spaced a minimum of 70 feet apart, measured from edge of right-of-way to edge of right-of-way.
 - 3. Major Thoroughfare
 - a. A major thoroughfare shall intersect with a public or private local street, a collector street, or another major thoroughfare at least every 2,600 feet, measured from edge of right-of-way to edge of right-of-way.
 - b. If a creek, drainage channel, floodway, or similar existing encumbrance exists, block length may not exceed 1 mile or 5,280 feet.
 - Intersections along major thoroughfares shall be spaced a minimum of 600 feet apart.
 - d. An intersection with a major thoroughfare shall not be within 400 feet of the intersection of two major thoroughfares.

Roundabouts

- A. Roundabouts may be utilized within the Project at any intersection of thoroughfares, collectors, or local streets as a traffic calming measure and to promote best practices for traffic management and roadway design.
 - Roundabout design will be reviewed on a case-by-case basis depending on the roadway intersection type(s) and any relevant information as specified in the Traffic Impact Analysis (TIA).
 - b. Roundabouts will be designed in accordance with any relevant regional or national design standards and are intended to be designed similarly to other

roundabouts found within the regional area.

Single-Family Residential

Single-family home sites within the PD shall be developed in accordance with the following regulations:

A. Lots

- 1. The maximum number of lots shall not exceed 3,500 lots.
- 2. Minimum lot size is forty (40') feet minimum width. Lots less than five thousand (5,000 s.f.) square feet shall provide compensating open space (COS) at a 1:5 ratio, meaning 1 s.f. of COS shall be provided per 5 s.f. below 5,000 s.f.
- Measurement of lot width is to be taken at building line. The measurement of the building line shall be based off a tangential width on radial shaped lots, not based on arc length.
- 4. The minimum lot width on a cul-de-sac or knuckle that is fronted entirely by lots (no landscape or other reserves) shall be such that the projected width at the curb line allows thirteen (13) feet plus the width of a driveway and radii (3 feet) on each side of driveway.
- 5. Maximum lot coverage: Sixty-five (65%) percent calculated as the ground covered by building structures, principle or accessory, of the gross lot surface area.
- 6. Specialty product will have its own described side setbacks—minimum 6 feet with maximum 10 feet between units. Specialty products will also have a 20-foot minimum front yard building setback. All codes and regulations for fire code shall be applicable as required per reduced side setbacks between structures as described in attached Exhibit J.
- 7. Minimum front yard building setback
 - a. Typical front yard setback 25 feet
 - b. Cul-de-sac front yard setback 20 feet (cul-de-sac bulbs and knuckle bulbs)
 - Setback shall be measured at the building line.
 - ii. Where the cul-de-sac is surrounded entirely by lots (no landscape or other reserves), the lots fronting the knuckle/cul-de-sac shall have a dual building line: 20' for the principal structure, 25' for garages. The dual building line is not required on an open cul-desac.
- 8. Minimum side yard building setbacks: 5 feet for interior, non-corner lots and the non-street side of corner lots; 15 feet exterior side yard for street-side corner lots. Minimum 25 feet garage setback if the garage door faces the side street.
- 9. Minimum rear yard building setback: 10 feet, except when the rear utility easement width is greater than ten (10) feet, the greater width is the minimum rear yard building setback. When a lot or a reserve is either directly adjacent to a major or minor arterial right-of-way or directly adjacent to a reserve less than fifteen (15) feet wide that is adjacent to a major thoroughfare, the minimum

rear yard building setback is twenty—five (25) feet measured from the street right-of-way line and a minimum of ten (10) feet from the rear property line. When a residential lot backs to a designated major thoroughfare and a detached one-story garage is constructed on the residential lot, the rear yard between the detached one-story garage and the rear property line may be reduced to a minimum of three (3) feet if a minimum of twenty—five (25) feet is maintained between the rear of the one-story detached garage and the right-of-way line of the major thoroughfare.

B. Shade Trees:

- All lots shall have a minimum of one (1) tree, planted in the front yard setback.
 The trees must be a minimum of two and one-half (2-1/2) inches in caliper
 width measured from the base of the trunk to 6" above soil level, and shall
 have a minimum height of eight (8) feet as measured at the tree trunk from the
 ground as planted.
- 2. In addition, one tree shall be provided within 15 feet of a street-side lot line per 50 feet of lot frontage on the side street, or portion thereof. Required trees shall be placed within the side yard setback or the adjacent right-of-way. The Developer has the ability to group trees on a block for non-traditional products.

C. Parking:

- 1. Each single-family home in the Project shall be subject to parking restrictions to be memorialized in separately filed covenants and restrictions as follows:
 - a. Resident Parking. Vehicles of residents shall be parked in the resident's garage or driveway.
 - b. Guest parking. Guests of residents must park in the driveway of the single-family residence they are visiting and may only park on the street if the driveway is not capable of parking another vehicle. This provision does not apply to law enforcement vehicles, emergency services vehicles, vehicles of service workers such as landscapers, construction workers, or plumbers, but does apply to vehicles belonging to caregivers or domestic help that routinely provide services to the resident.
 - c. Enforcement. The enforcement of these Parking Restrictions shall be done both in accordance with Chapter 684 of the Texas Transportation Code relating to the towing of vehicles, and in accordance with provisions relating to the issuance of fines and the granting of variances from the Parking Restrictions to be contained in separately filed covenants and restrictions.
- D. Screening walls: a minimum six feet (6') tall masonry wall shall be built along the back or side lot line adjacent to certain major thoroughfares and internal collector streets as shown on Exhibit H, Fence Exhibit.

Residential Specialty Products

- A. Residential Specialty products within the PD shall be developed in compliance with the following regulations:
 - 1. Specialty products are allowed up to 20% of total lot count.
 - 2. Specialty product shall include the following:

- a. Townhome (attached or detached)
- Patio Home (centered patio homes shall not be counted as specialty product)
- c. Duplex
- d. Cluster
- e. Quads
- f. Alley Loaded Product
- g. Any new product that arises in the ever-evolving market trends.
- 3. Developer agrees that the minimum lot size of a traditional single family residential lot within the Project shall be 3,000 square feet;

IV. PARKS, RECREATION AND TRAILS

An integrated network of open space and recreational amenities, including a robust trail system as seen in Exhibit I, shall be provided in accordance with the following regulations:

- A maximum of fifty percent (50%) of the required 65 acres of the required area for neighborhood park land may be provided by private neighborhood park land consisting of the following;
 - Small "pocket parks," recreation reserves of a minimum one-quarter (1/4) acre, strategically located near the entries of various neighborhood pods. The contributing park / recreation / open space areas will be dispersed throughout the community so that nearly every home is located within one-quarter (1/4) mile from the nearest neighborhood park.
 - 2. A large, centrally located recreation reserve of a minimum area of five (5) acres including water recreation, playground, picnic areas, parking and/or other active recreational uses.
- B. A minimum of fifty percent (50%) of the required 65 acres of the required area for neighborhood park land shall be provided consisting of the following:
 - 1. Unencumbered landscape buffer, open space and trails.
 - 2. Land which is encumbered by detention areas, lake and drainage channel borders, or other similar characteristics shall qualify at a fifty percent (50%) credit for public park but only if it complies with criteria listed below.
 - a. Shall have a minimum frontage of 60 feet on a public street. Portions of open space that do not have any additional man- made improvements provided by the developer, such as concrete cart path, hiking/running trail, benches or shelters that facilitate an active human recreational role will not be considered contributing to the minimum public park area requirement.
 - Areas along lake and drainage channel borders shall have an average minimum width of thirty feet (30') and a minimum width of twenty feet (20'); and
 - c. Side slopes for area used in credit not to exceed a five to one (5:1) ratio.

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- C. Minimum 5-foot-wide sidewalks shall be provided along both sides of local residential streets. All sidewalks shall be constructed in accordance with the County requirements attached as Exhibit J and shall meet the State of Texas ADA standards.
- D. Minimum 6-foot-wide sidewalks shall be provided along both sides of major thoroughfares and internal collectors within and adjacent to the property. At the discretion of the Developer, a ten (10') foot wide joint use trail may be constructed on only one side of the right-of-way. In either case, the sidewalks or joint use trail may meander out of the right-of-way and into an adjacent landscape reserve if so provided. And if so provided, the HOA or MUD, (not Waller County) shall be responsible for the maintenance of the joint-use trail and its ancillary signage, and landscape.

V. FIRE PROTECTION / EMS SERVICES / LAW ENFORCEMENT

The Developer agrees to convey to the County or Emergency Services District (ESD) a not to exceed 5-acre site of land within the Project at the location along FM 2855 and as described on Exhibit C, Conceptual Development Plan, for the purpose of construction and operation of a fire/EMS station(s) and for use by the County/ESD at a price to be agreed upon by the Developer and the County or ESD.

The Developer will reserve the land for Waller County/ESD for a period of three (3) years after the effective date of this PD. If the County or ESD determines the site unsuitable for its use as a fire/EMS, then the Developer will retain the land for its own use and purpose and this Section V obligation to convey such a site is terminated.

An additional 5-acre tract shall be reserved for Waller County's use as a sub-station for any law enforcement or public safety organization including, but not limited to, the Sheriff's Department, the State Police, or a Fire Station. The location and actual size of the proposed site will be determined by the Developer pending discussion and coordination with the receiving agency. The Developer will reserve the land for a period of three (3) years after the effective date of this PD. If the receiving agency determines the site suitable for its use as a substation, then the Developer and receiving agency will negotiate an agreed upon price for the conveyance of such proposed site. If the receiving agency determines the site unsuitable for its use as a sub-station, then the Developer will retain the land for its own use and purpose and this Section V obligation to convey such a site is terminated.

Once the Project has closed on 350-residential lots, WCMUD 55 shall enter into an agreement with the Sheriff's Department to initiate additional patrolling of the community.

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VI. STREET PLAN AND CROSS SECTIONS

All new construction will be concrete curb and gutter with ultimate storm sewer.

- Street cross sections as seen in Exhibit F.
- 2. Street improvements: Streets shall be built in phases as the Project develops in accordance with the Waller County Subdivision Ordinance, dated effective March 15, 2021, this PD, and as shown on Exhibit E: Roadway Improvement Exhibit
- 3. Upon approval of this PD, the County will amend its major thoroughfare plan to reflect the revised alignments of Franz Road in accordance with Exhibit G of this PD.

VII. BUILDING REGULATIONS

The Developer and/or its HOA will establish an Architectural Review Committee to create, review and enforce architectural and design standards for the single-family homes within the Project. There may be additional sub-homeowner associations and Property Owner's Associations (POA) may be established for non-residential property owners for the same purpose. These construction guidelines will be developed prior to any single family home construction and will be filed in the property records separately from this PD.

VIII. APPLICABILITY

This PD shall apply to any development within this Project and has no expiration. It shall be upheld for any and all existing and future developers or builders, except and unless a new amended agreement is written and approved by all owners and applicable agencies.

Attached are the Waller County subdivision ordinances as Exhibit J. Any variances to those subdivision ordinances are addressed in this Agreement. Any future amendments or changes to the Waller County subdivision ordinances will not apply to this PD.

IX. EXHIBITS

The exhibits hereto are incorporated herein for all purposes and represent the approved Project (subject to revisions as permitted within this document).

Exhibit A: Boundary Exhibit Exhibit B: Vicinity Exhibit

Exhibit C: Conceptual Development Plan

Exhibit D: Jurisdiction Exhibit

Exhibit E: Roadway Improvement Exhibit

Exhibit F: Cross Section Exhibit

Exhibit G: Major Thoroughfare Plan (per Waller County- 2019)

Exhibit H: Fence Exhibit Exhibit I: Trails Exhibit

Exhibit J: Waller County Subdivision Ordinance, effective March 21, 2021

Exhibit K: TIA Executive Summary Exhibit L: Mitigation Summary

Exhibit M: Residential Specialty Examples



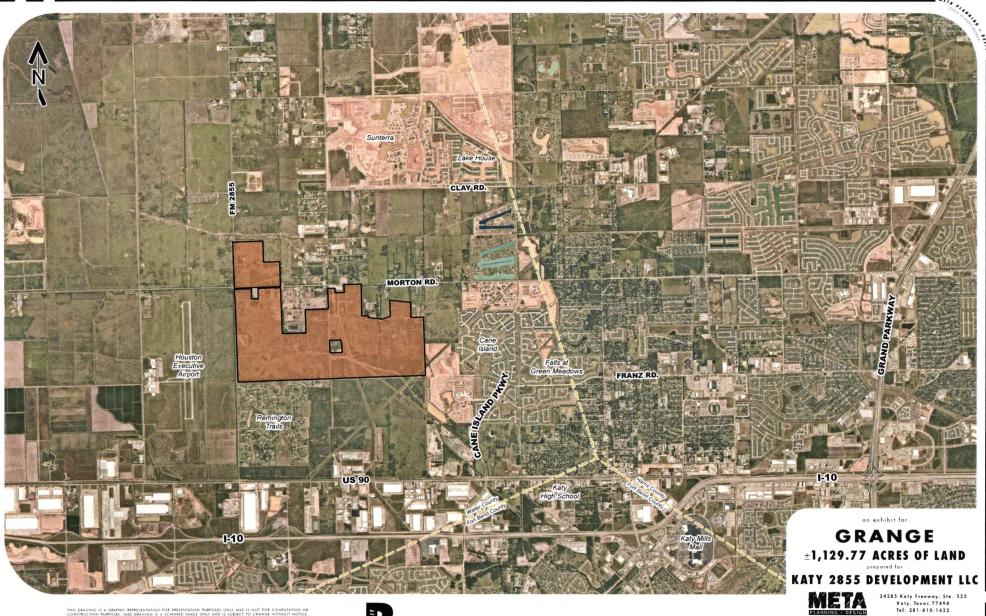


BOUNDARY EXHIBIT





MTA-54007 APRIL 15, 2024





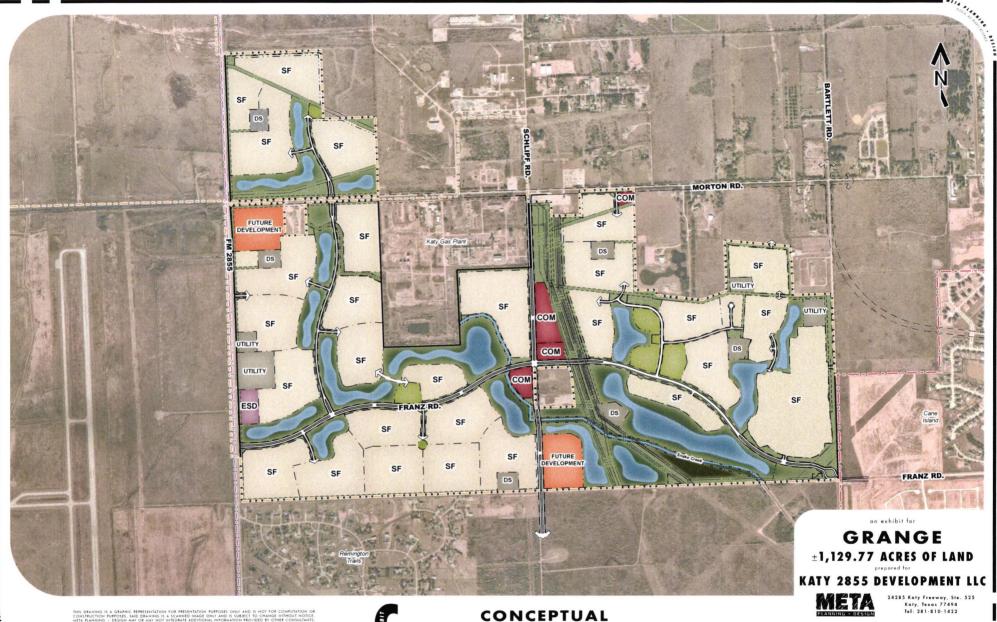
VICINITY EXHIBIT



SCALE: NTS

MTA-54007 APRIL 15, 2024

TANING DESIGNY



THIS DRAWING IS A GRAPHIC REPRESENTATION FOR PRESENTATION PUPPOSES ONLY AND IS NOT FOR COMPUTATION OF CONSTITUTION OF THE PROPERTY OF THE PROP



CONCEPTUAL DEVELOPMENT PLAN



MTA-54007 APRIL 15, 2024



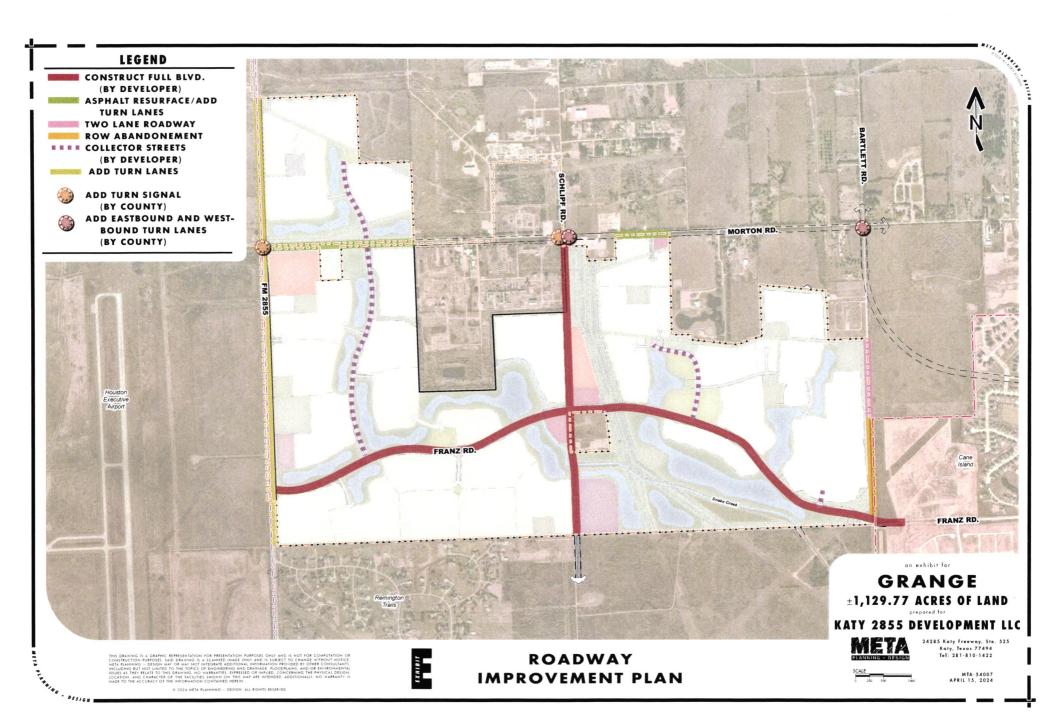


JURISDICTION EXHIBIT





MTA-54007 APRIL 15, 2024













an exhibit for

GRANGE ±1,129.77 ACRES OF LAND

KATY 2855 DEVELOPMENT LLC



24285 Katy Freeway, Ste. 525 Katy, Texas 77494 Tel: 281-810-1422

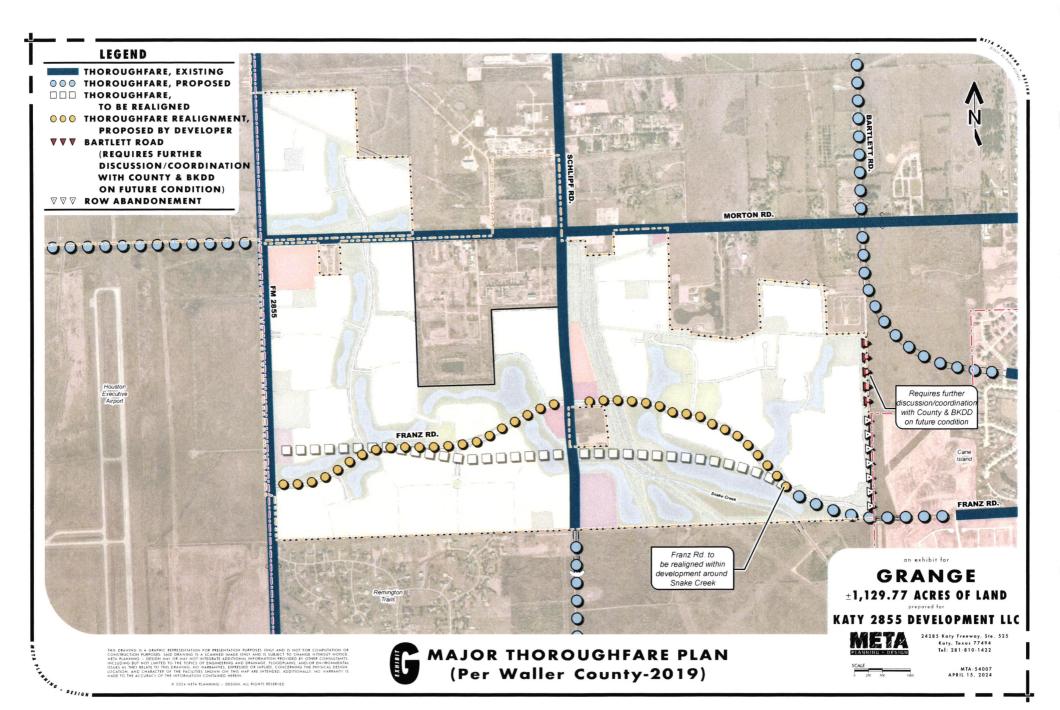
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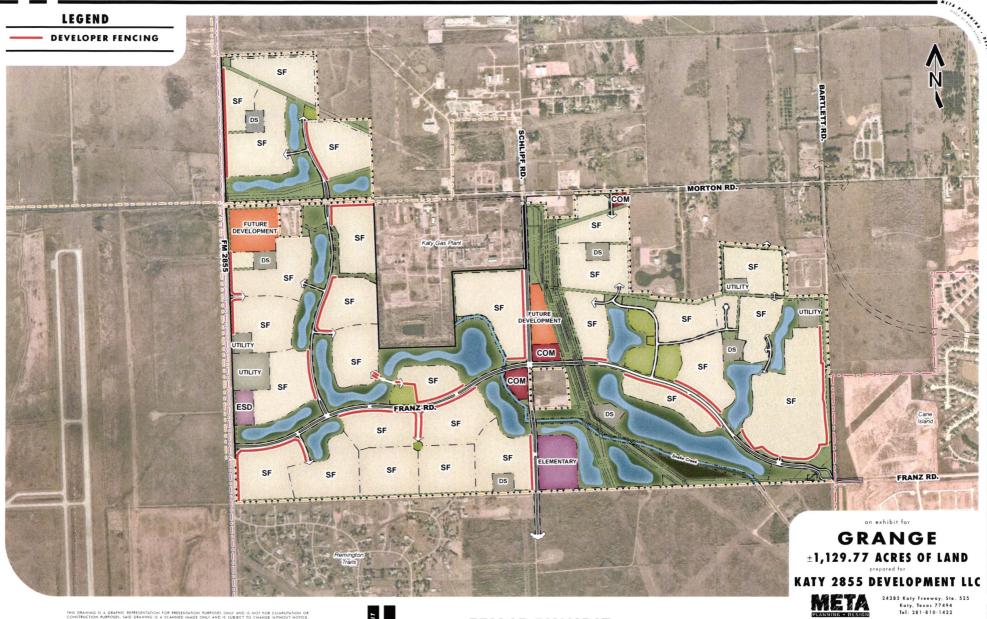
MTA-54007 APRIL 15, 2024

CARANO DESIGN



CROSS SECTION EXHIBIT





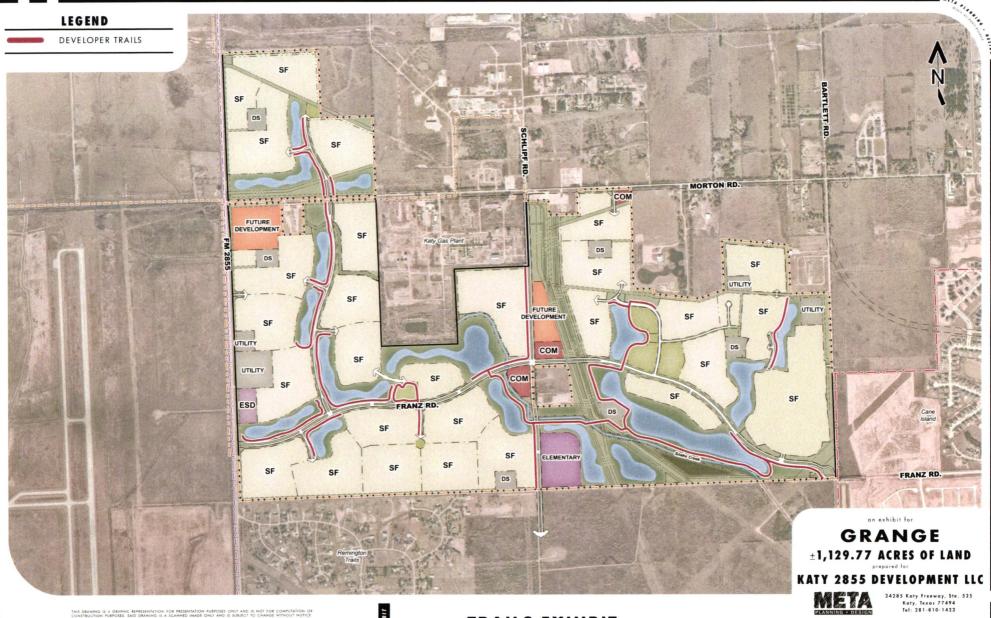
FENCE EXHIBIT





MTA-54007 APRIL 15, 2024

TANING DESIGNY



REFORS SAID DEAVING IS A SCANNED MADE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTIFE DESIGN MAY OR ANY NOT INTEGRATE ADDITIONAL INFORMATION PROVIDED BY OTHER CONSULTANT STATEMENT OF THE TOPICS OF ENGINEERING AND DEARINGS, FLOODFLAINS, AND/OR ENVIRONMENT AT TO THIS BEAWAYING NO WARRANTES, EXPRESSED OR MENUEL, OCCURENING THE PRIVISIONMENT ARACKEE OF THE FACILITIES SHOWN ON THIS MAP ARE INTENDED. ADDITIONALLY, NO WARRANTY MACY OF THE INFORMATION DESIGNATION OF THE MAP ARE INTENDED. ADDITIONALLY, NO WARRANTY MACY OF THE INFORMATION OF THE MAP ARE INTENDED.

2024 META PLANNING + DESIGN, ALL RIGHTS RESERV

TANKS DESIGNA

TRAILS EXHIBIT



MTA-54007 APRIL 15, 2024

EXHIBIT J

WALLER COUNTY SUBDIVISION AND DEVELOPMENT REGULATIONS

Revised: March 10, 2021 Effective: March 15, 2021

Resolution and Order

On March 10, 2021, the Commissioners Court of Waller County, Texas, met at the County Courthouse with the following members present:

Carbett "Trey" Duhon III, County Judge Presiding, John Amsler, Commissioner Precinct One, Walter Smith, Commissioner Precinct Two, Kendrick Jones, Commissioner Precinct Three, and Justin Beckendorff, Commissioner Precinct Four,

when among other matters, came for consideration and action the following Resolution and Order:

Whereas, the Commissioners Court of Waller County, Texas, duly convened, and acting in its capacity as the governing body of Waller County, ORDERED that the regulations attached and appended hereto, entitled "WALLER COUNTY SUBDIVISION AND DEVELOPMENT REGULATIONS" are revised as noted; and

Whereas, all officials and employees of Waller County having duties under said regulations are ordered and directed to perform such duties as required of them under said regulations.

Therefore be it Resolved, that Commissioners Court adopts the attached document as the "Waller County Subdivision and Development Regulations" and orders that it be in effect on and after March 15, 2021; and

Further Resolved, that County Judge Carbett "Trey" Duhon III is authorized to sign this Resolution and Order as the act of Commissioners Court.

The Resolution and Order was moved by Commissioner <u>Jones</u>, seconded by Commissioner <u>Beckendorff</u>, and adopted by the Commissioners Court on a vote of <u>5</u> members for and <u>0</u> opposed.

Carbett "Trey" Duhon III, Waller County Judge

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WALLER COUNTY SUBDIVISION AND DEVELOPMENT REGULATIONS

On February 16, 2007, acting pursuant to Chapter 232, Texas Local Government Code, Commissioners Court adopted the following regulations governing the subdivision of land. These regulations shall be known as the "Waller County Subdivision and Development Regulations".

1. Purpose

- 1.1 These regulations have been prepared to aid in the orderly development of Waller County, Texas. Specifically they have been prepared for the following purposes:
 - 1.1.1 To furnish the developer with guidance in the expedient preparation and approval of a plat.
 - 1.1.2 To protect the citizens of Waller County by enacting minimum subdivision standards.
 - 1.1.3 To provide standards for the location, design, and construction of streets, intersections, drainage improvements and other features that provide safety for the public.
 - 1.1.4 To prevent the Waller County Street System from being burdened with substandard local streets.
- 1.2 These rules, regulations and requirements may be revised at any regular session of Commissioners' Court, said amendments or revisions to become effective upon formal adoption by the Court.
- 1.3 The publication "Policies for Subdivisions Created without the Corporate Limits of any Town in Waller County", dated the 15th of June 1981, as amended through the 27th of September 2005, is rescinded, effective the February 16, 2007.

2. Definition of Terms

2.1 Acceptable Outfall - that point as determined by the developer's Engineer and approved by the County where storm water can be released without causing erosion or resulting sedimentation to the receiving channel or its floodplain. Where necessary, the outlet shall include structural and vegetative measures to assure non-erosive conditions.

- 2.2 Arterial Streets (Primary Thoroughfares) those streets that are principally regional in nature and are used for through traffic and shall be divided into two classifications:
 - 2.2.1 Streets which will serve vehicular traffic beyond the limits of the subdivision; and connect one collector or arterial with one or more collectors or arterials.
 - 2.3.1 Streets in this category as shown in the current Major Thoroughfare Plan.
- 2.3 Building Line a line of a plat generally parallel to the street right-of-way, indicating the limit beyond which buildings or structures may be erected and the area between the street right-of-way and the building line within which no private structure may be permitted. The building line is also known as the "setback" requirement.
- 2.4 Collector Streets (Secondary Thoroughfares) those which connect arterial streets with local streets.
- 2.5 County Commissioner the Waller County Commissioner(s) in whose precinct(s) the subdivision is located.
- 2.6 County Engineer an Engineer, registered to practice engineering in the State of Texas, representing and/or contracted to represent Waller County.
- 2.7 Cul-de-sac a short public street having but one (1) opening or access to another public street and terminated by a permanent vehicular turn-around.
- 2.8 Developer any owner or person representing the interests of the owner of the property to be subdivided.
- 2.9 Final Plat a drawing of a proposed subdivision prepared in a manner suitable for recording in the County records and in conformance with the conditions of preliminary approval of Commissioners Court and meeting the requirements of Section 3.4.
- 2.10 Flag Lot for the purposes hereof, a key or flag shaped lot shall mean a lot having gross disparities in width between side lot lines, sometimes resembling a flag or flag pole, a key, or some other lot shape of comparable irregularity. Key or flag shaped lots shall not be prohibited if otherwise in compliance with the minimum lot size requirements of this and other applicable regulations of the County and, provided that no portion of any such lot is less than sixty feet

(60') in width.

- 2.11 Local Streets those which principally provide direct access to lots within a subdivision.
- 2.12 Lot any portion of land surface contained within property lines of a specific area, including land within easements and setback lines. The word "lot" includes the word "parcel" and "tract".
- 2.13 Rental Community (including Manufactured Home Rental Communities and RV Parks) - a plot or tract of land that is separated into two or more spaces or lots that are rented, leased, or offered for rent or lease, for a term of less than 60 months without a purchase option. (See Appendix C and D)
- 2.14 Owner the person or persons with equitable or legal title to the property to be subdivided.
- 2.15 Parent Tract the original tract prior to any division.
- 2.16 Preliminary Plat a drawing of a proposed subdivision meeting the requirements of Section 3.3.
- 2.17 Private Street those intended to be designated for private maintenance and private access. No county maintenance is provided on such streets unless and until they are brought up to county standards.
- 2.18 Recreational Vehicle a unit which contains facilities for either sleeping or temporary living quarters, or both, and which has its own motive power or is designed to be mounted on or towed by another motor vehicle. The term recreational vehicle shall include but not be limited to a motor home, truck camper, travel trailer and camping trailer; provided, however a recreational vehicle shall not include a boat, a mobile home or a manufactured home.
- 2.19 Recreational Vehicle Park a contiguous development of land which has been planned and improved for the placement of recreational vehicles approved by the County in accordance with applicable codes, laws, rules, and regulations.
- 2.20 Rural Street any street situated so that the spacing of driveways is greater than 100 feet apart.
- 2.21 Street a way for vehicular traffic and used to describe all vehicular ways regardless of any other designation, and includes public streets, private streets and easements. The terms "street" and "road" are interchangeable.

- 2.22 Subdivision the division of a tract into two or more parts with any of the tracts being 10 acres or less in area. Section 232 of the Texas Local Government Code shall control the definition of a subdivision in these Regulations. Any amendment of the Local Government Code shall amend these Regulations, without further action by Commissioners Court.
- 2.23 Texas Department of Transportation (TxDOT) Standards those current standard specifications set forth in the <u>TxDOT</u> Standard Specifications for Construction of Highways, Streets, and Bridges
- 2.24 Urban Street any street situated so that the spacing of driveways is less than 100 feet apart for a distance of 1/4 of a mile. This distance does not apply to a subdivision using curb and gutter. Any curb and gutter street will be considered an urban street.

3. Platting Procedure

The platting procedure for subdivisions within Waller County shall be as follows:

3.1 Pre-application Procedure

Before any preliminary plans are prepared, the developer should obtain a copy of these regulations and become familiar with the various requirements to avoid expenditures of time and money, only to find that changes are required to make the plat and plans conform to the regulations.

3.2 Procedure for Rental Communities

Developers shall not begin any construction on a proposed rental community until they comply with Section 232.007 of the Texas Local Government Code, Appendices C & D of these regulations and notify Commissioners Court in writing of their intentions to develop the community.

3.3 Preliminary Plat Procedure

- 3.3.1 The Commissioners Court has assigned the duty of approving preliminary plats to the County Engineer. The Commissioners Court retains the right to overrule the County Engineers decision.
- 3.3.2 Developers shall not begin any construction on a proposed subdivision, until obtaining preliminary plat and construction drawing approval from the County Engineer.
- 3.3.3 Prior to any subdivision of land, the Developer shall set a meeting with the County Engineer. Based upon the comments from the meeting and submittal of the appropriate application, the Developer or his representative shall submit three (3 copies of the preliminary plat of the subdivision to the County Engineer's Office for preliminary approval.
- 3.3.4 The County Engineer shall review plat for compliance with these Regulations, and provide written comments. The County Engineer shall provide the developer with comments and take the following action by issuing a certificate of:

- 1. Preliminary Approval
- 2. Preliminary Approval with conditions to be satisfied at the time of Final Plat Approval
- 3. Denial of Preliminary Plat Approval
- 3.3.5 Prior to the approval of the preliminary plat, the Developer shall supply the County Engineer with a digital file (via CD or email) of the preliminary plat. The digital file shall be in a .DWG format or a format that is readily convertible to .DWG format. The file shall be submitted to County Engineer's Office.
- 3.3.6 If the property to be subdivided lies within the extraterritorial jurisdiction of a city, this procedure shall be accomplished with the platting procedures as established in individual city interlocal agreements.

3.4 Preliminary Plat Criteria:

- 3.4.1 The lot layout drawn on a scale of 1'' = 100' or larger, 1'' = 200' or larger for plats with lots greater than 2.5 acres in size, or 1'' = 400' or larger for plats with lots greater than 20 acres in size. Sheet size shall be $24'' \times 36''$, with a 1'' binding margin on all sides.
- 3.4.2 Multiple sheet plats shall have the subdivision name and sheet number located in the lower right hand corner of each sheet. A key map shall be provided showing individual sheet relationships.
- 3.4.3 Provide a scale and North arrow.
- 3.4.4 Existing topographic contours, which may be obtained from U.S. Geological Survey 7.5 minute quadrangle map.
- 3.4.5 The location of existing property lines, easements, streets, 1% chance and 0.2% (100-year and 500-year) flood boundary, lakes and water courses, utility easements, and drainage culverts within the tract or immediately adjacent within two hundred feet (200').
- 3.4.6 Proposed lots, blocks, reserves, streets, alleys, building setback lines, easements, and any areas of special use including suggested operations sites for

exploration, development and production for minerals.

- 3.4.7 Lots shall have a minimum of 50 feet in width at the right-of-way line (50 feet in width at building line for lots on cul-de-sacs) and shall front a local street. Single-family residential lots shall not have direct access and shall not front on an urban arterial or an urban collector street.
- 3.4.8 Flag lots, if allowed, shall have a minimum strip of land (Flag staff) width of 60 feet and staff length no longer than 500 feet + 20 feet for each acre greater than 10 acres. No more than two flag lot strips shall be located side by side. The flag lots main body of land cannot be located behind another flag lot.
- 3.4.9 Names, and right-of-way dimensions for all proposed and existing streets.
- 3.4.10 Boundary of the subdivision and scaled dimensions, both linear and angular.
- 3.4.11 Area of subdivision, total number of lots and blocks and total area of reserves.
- 3.4.12 Proposed and existing easements and detention reserves.
- 3.4.13 Include a dimensioned typical sanitary control easement detail on the face of the plat.
- 3.4.14 Proposed typical property line dimensions and radii.
- 3.4.15 Front building lines shall be 25 feet. Side street building lines shall be 15 feet on local streets, 25 feet on collector streets and 35 feet on arterial streets.
- 3.4.16 A general statement of the proposed uses of the land within the subdivision.
- 3.4.17 Name, address, telephone number and fax number for the subdivision owner, developer and surveyor and/or engineer.
- 3.4.18 If the subdivision is to be carried out in two or more phases, a proposed master plan for the entire tract shall be prepared and filed with the County

Engineer's Office prior to the time the first unit is submitted. Requirements of the plat, concerning sheet size and drafting media shall be the same as for the plat to be recorded. Scale of this plat will be left to the discretion of the surveyor or the engineer.

- 3.4.19 City limits boundaries, extraterritorial jurisdiction boundaries, and county boundaries.
- 3.4.20 The title block in the lower right hand corner shall contain the proposed subdivision name preceded by the words "Preliminary Plat of ______" and the abstract and survey in which the property is located.
- 3.4.21 Vicinity map in the upper right hand corner showing location of subdivision in relation to existing streets and highways, and railroads within one (1) mile.
- 3.4.22 Approval of the appropriate jurisdiction when the subdivision is within the extraterritorial jurisdiction (ETJ) of that city.
- 3.4.23 A preliminary plat review fee (section 10) shall be paid with the submission of the preliminary plat for review.

3.5 Final Plat Procedure:

The final plat procedure will be the same as the preliminary plat procedure with the following additions.

- 3.5.1 Final plat and construction document review fee (See section 10) shall be paid with the submission of the final plat for review.
- 3.5.2 Commissioners Court shall not grant final approval on any subdivision until the Developer meets every subdivision requirement, including signature, Construction securities, mylar originals, paper originals, preliminary plat approval and fees. In addition, if the project is located within the Brookshire-Katy Drainage District (B-KDD), the Developer shall obtain written approval from the District of the development plans, and a copy of said approval shall be submitted to the County Engineer as a requirement of final plat approval.

3.5.3 The Developer shall submit to the County Engineer the specified number of original plats on 4 mil mylar and four identical size of either 22" x 34" or 24" x 36", at least fourteen (14) days before the date of the Commissioners Court meeting at which approval is requested. All text shall be on the front of the mylar. Photocopies are not acceptable. The specified number of original plats may vary but will generally be understood as one full-size original for the developer, the County Clerk, the County Engineer, the Appraisal District and one additional for cities when platted within an ETJ and/or within the B-KDD.

Originals Needed:

- (2) 8½"x14" Black line or Mylar
- (3) Mylar Plat 22"x34" or 24"x36"
- (2) Black Line copies 22"x34" or 24"x36"
- 3.5.4 The developer shall provide a letter clarifying the procedure he chooses for construction acceptance and final maintenance acceptance. In connection with this letter the developer must provide the securities as needed for construction per Section 5 and for maintenance per Section 6.
- 3.5.5 The County Engineer shall review plat and plans for compliance with these Regulations, and provide written comments. The County Engineer shall recommend the Commissioners Court to take the following action:
 - 1. Final Approval
 - 2. Denial of Final Plat Approval
 - 3. Table Final Plat Approval to resolve outstanding issues.
- 3.5.6 Prior to placement of the approval of the final plat on the Commissioners Court agenda, the Developer shall supply the County Engineer a CD or email with a digital file of the final plat. The digital file shall be in a .DWG format or a format that is readily convertible to .DWG format. A check made payable to the County Clerk for handling and processing shall also be submitted with the final plat along with a check for the filing fee.
- 3.5.7 Following final approval of the subdivision, the County Clerk will record the plat in the Plat Records of Waller County, Texas, and distribute the originals with the recording information. The Clerk will retain a copy of the plat for the County's records.

- 3.5.8 Unless the preliminary plat is followed by final plat approval within one year, the preliminary plat lapses and the subdivision must be resubmitted.
- 3.5.9 The final plat must be approved at a meeting of Commissioners Court.

3.6 Final Plat Criteria

- 3.6.1 Owners' and any lien holders' dedication, and restrictions, if any, shall be duly acknowledged in the manner required for acknowledgment of deeds. For street widening and drainage purposes, the Developer may dedicate either the fee interest in the property or a right-of-way easement for street widening and drainage improvements at the County's option. Rightof-way easements for widening streets or improving drainage must be accompanied by a plat note as found in Appendix B Item 1. The plat must also contain the note found in Appendix B Item 2. All streets and easements for utilities, street easements, street widening easements and street widening dedications shall be created by a notarized statement executed by all property owners and any lien holders or their legal representatives.
- 3.6.2 Easements shall be provided for existing utility lines located on the property. Easements for proposed utility improvements shall be identified on the face of the plat. Existing undefined or "blanket" easements shall be defined prior to final plat approval. If no agreement can be reached on a defined easement, then building setback lines shall be shown at a minimum distance of 25 feet from and parallel to the nearest pipeline or facility.
- 3.6.3 The plat shall show the location of the 100-year and 500-year floodplain as identified on the most current Waller County Flood Insurance Rate Map (FIRM) published by the Federal Emergency Management Agency. In addition, the plat shall show the location of special flood hazard areas identified by an engineering study (if required), under the seal of a Texas Professional Engineer. Additionally, the plat shall designate all easements of public record and shall include the plat note found in Appendix B Item 8.
- 3.6.4 Place address numbers assigned by the 911 Rural Addressing Coordinator within the individual lot boundaries, if possible. If not, include in a table on the face of the plat.

- 3.6.5 The placement of an elevation benchmark with the location, description and elevation of the benchmark shall be identified on the face of the plat. The elevation of this benchmark shall be tied into the closest benchmark with the latest USGS datum.

 Minimum first floor elevations for structures shall be identified when within the 1% chance and 0.2% chance (100-year and 500-year) floodplain boundary.
- 3.6.6 The standard note for lien holders acceptance that dedication of all public streets and easements shall be accomplished free of liens shall be as found in Appendix B Item 4. Any required release of liens shall be provided to the Commissioners Court.
- 3.6.7 A form on the plat as found in Appendix B Item 5 for Commissioners Court approval, including authorization for the County Clerk to file the plat for record as found in Appendix B Item 6.
- 3.6.8 A copy of a title report commitment or plat letter for the specific tract of land dated within 60 days of the plat approval date.
- 3.6.9 Approval of the appropriate jurisdiction when the subdivision is within the ETJ of that city.
- 3.6.10 A letter of serviceability from an entity or entities providing water service or a letter from the Developer stating that no service is available within 1000 feet of the subdivision and certifying that the lots are suitable for private wells.
- 3.6.11 A copy of the tax certificate from each taxing unit with jurisdiction of the real property indicating that no delinquent taxes are owed on the real property as well as payment of all other property taxes and assessments pertinent to the subdivision.
- 3.6.12 A letter from the Developer acknowledging that it is the responsibility of the Developer, not the County, to ensure compliance with the provisions of all applicable state, federal, and local laws and regulations relating to the environment, including (but not limited to) the Endangered Species Act, State Aquifer Regulations, surface water and/or ground water district regulations, and municipal watershed ordinances.
- 3.6.13 Certification by a Texas Professional Engineer under seal that all engineering, for streets and drainage, within the subdivision is in compliance with these

Regulations (including the Engineering Design Standards incorporated as Appendix A) and with all generally accepted engineering standards. If the Developer elects to proceed with plat recordation under the provisions of Section 5.3, the Developer shall provide upon completion of the construction an additional certification by a Texas Professional Engineer under seal that all construction for streets and drainage within the subdivision was completed in compliance with these Regulations (including the Engineering Design Standards incorporated as Appendix A) and with all generally accepted engineering standards.

3.6.14 The following plat notes are located in Section B Item 10:

Certificate(s) of Tax Collector
Legal Description
Certificate of Surveyor

- 3.6.15 When any public street is established by plat and where such public street forms either a stub street into adjacent acreage or where such public street lies along and parallel with the subdivision boundary and adjacent to acreage, a one (1) foot wide reserve shall be established within the street right-of-way to form a buffer strip, dedicated to the public, between the public street right-of-way and the adjacent unsubdivided acreage to prevent access to this public street from the adjacent unsubdivided acreage unless and until a plat of the adjacent property is duly recorded. The conditions associated with the establishment of a one (1) foot reserve on a plat are contained in the following note that shall be placed upon the face of any plat where a one (1) foot reserve is to be established.
 - "One (1) foot reserve dedicated to the public in fee as a buffer separation between the side and end of streets where such streets abut adjacent property. The condition of such dedication being that when the adjacent property is subdivided or replatted in a recorded plat, the one (1) foot reserve shall thereupon become vested in the public for street right-of-way purposes and the fee title thereto shall revert to and revest in the dedicator, his heirs, assigns or successors."
- 3.6.16 "Any plat or master plan may make reasonable accommodation for a specific surface site(s) for extraction of oil and gas. If a surface site is designated, the developer shall provide proof from

the mineral owner, geologist or other professional that the site designated for such extraction is a reasonable solution for the mineral owner, in accordance with the usual and customary practice of the oil and gas industry. After such a site is designated, and the plat is approved, no oil or gas extraction activity may take place except utilizing the designated surface site."

3.7 Amending Plat

3.7.1 This section is applicable only if the applicable city regulations allow an amending plat and the amended plat is approved by the city. After approval by the City, the amended plat must be submitted for review and approval of the County Engineer and Commissioners' Court prior to recording with the County Clerk.

4. Replats

- 4.1 A person who owns real property in a tract that has been subdivided and that is subject to the subdivision controls of the county in which the property is located may apply in writing to the County Engineer for permission to revise the subdivision plat that applies to the property and that is filed for record with the County Clerk. After review by the County Engineer, consideration of the replat will be placed on the next Commissioners Court agenda to set a public hearing on the proposed replat.
- 4.2 Prior to placement of the consideration of the replat on the Commissioners Court agenda, the Owner shall supply the County Engineer with Copies of the proposed plat (prepared in accordance with the platting procedure outlined in Section 3.) and a digital file of the proposed plat. The digital file shall be in a .DWG format or a format that is readily convertible to .DWG format. A check made payable to the County Treasurer for handling and processing shall also be submitted with the final plat along with a check made payable to the County Clerk for the filing fee.
- 4.3 After the application is filed with Commissioners Court and a public hearing date is set the County Engineer shall publish a notice of the application in a newspaper of general circulation in the county. The notice must include a statement of the time and place at which the court will meet to consider the application and to hear protests to the revision of the plat. The notice must be published at least three times during the period that begins on the 30th day

and ends on the seventh day before the date of the meeting; and

- 4.4 If all or part of the subdivided tract has been sold to nondeveloper owners, the County Engineer shall also give notice to each of those owners within 400' of the proposed replat by certified or registered mail, return receipt requested, at the owner's address in the subdivided tract. (This notice is not required if the proposed plat only combines existing tracts.) A listing of property within the boundary of the replat area must be submitted as well.
- 4.5 If the replat is within the ETJ of any city, the owners must also obtain approval of the affected city.
- 4.6 If the Court finds after the public hearing that the replat will not interfere with the established legal rights of any owner of a part of the subdivided land or each owner whose rights may be interfered with has agreed to the revision, it will enter an order partially vacating the original plat and approving the plat of the replat. If the Court finds that the replat will affect established legal rights, it shall not approve the replat without the written consent of all affected owners of a part of the subdivided land.
- 4.7 In addition to the normal handling, processing and filing fees, the person requesting the replat shall pay the actual cost of the newspaper notice and postage expenses required by the replat process. The fees for the newspaper notice and postage must be paid prior to either being submitted for publication or delivery.

5. Improvement Construction Security and Acceptance

- 5.1 The developer of any tract that desires to obtain approval of a plat for recording in the county records shall construct all streets and drainage in the subdivision to the standards and specifications set forth in the Engineering Design Standards incorporated as Appendix A of these Regulations before offering the plat for approval, unless exempted by Section 5.2.
- 5.2 Improvement plans shall be approved by the County Engineer who shall certify that the plan is in conformance with these regulations. Variance from the requirements shall be permitted only by Commissioners Court Order.
- 5.3 The Developer shall give a good and sufficient bond, cash, or letter of credit. This will be referred to as the construction security. The improvements shall be completed within 12 months of the plat date and the security shall reflect this 12 months. With court approval, an extension of up to one year may be granted. This construction security must be payable to the County Judge of Waller County, in an amount equal to the estimated cost of construction, according to the calculations of a Texas Professional Engineer and approved by Commissioners Court. The security shall be conditioned on the completion (in compliance with the Engineering Guidelines) of all the streets and drainage shown on the plat.
- 5.4 In areas within the ETJ of a city, the city's letter of credit policy may apply if the Commissioners Court finds that the city's policy provides adequate protection of the County's interest in the land development and construction of infrastructure, and the County is named with the City on the financial document.
- 5.5 The developer shall be entitled to partial reductions of his security requirement with written approval by the County Commissioners Court.
- 5.6 The Developer shall submit construction plans for streets and drainage, traffic signage, landscaping (within the public right-of-way), irrigation(within the public right-of-way), and utilities within a platted subdivision to the County Engineer's Office for approval prior to final plat approval being granted by Commissioners Court. These plans shall show the location of all underground utilities, including

water, sewage, and storm sewers. These plans shall include the design issues as described in Appendix A - Engineering Design Standards.

- 5.7 If landscaping and/or irrigation is proposed within the right-of-way, the Developer shall create an entity (municipal utility district, homeowners' association, neighborhood association, or other entity approved by Commissioners Court) that will be responsible for the maintenance and liability of the landscaping and/or irrigation. This entity shall have assessment authority to ensure proper maintenance.
- 5.8 When construction has been completed, the Developer shall provide the County Engineer with a set of "Record Drawings". These plans are to show the improvements as they were actually built. The digital file shall be in a .DWG format or a format that is readily convertible to .DWG format. After the "Record Drawings" plans are received, the County Engineer will provide the Developer a letter approving the construction of the subdivision.
- 5.9 The County may determine plats containing "flag lots" to be a detriment to the public interest, welfare and/or safety, and may require internal street construction at the sole discretion of the Commissioners Court.
- 5.10 When traffic signal lights and additional turn lanes are required for traffic generated by subdivisions, these items shall be the responsibility of the Developer and the construction cost shall be included in the security.

6. Improvement Maintenance Security and Acceptance

- 6.1 By accepting a subdivision plat for filing, the Commissioners Court does not accept streets in the subdivision for ownership or maintenance by the County. The owner of the platted lots is responsible for maintenance of all streets within a subdivision until such time as the streets have been accepted for maintenance by the County. This holds true even though the County has approved the construction of the improvements.
- 6.2 The County will not accept a street for maintenance without the following:
 - 6.2.1 A dedication to the public of an easement or fee interest in the entire street;
 - 6.2.2 Written certification from a Texas Professional Engineer that the street was constructed in accordance with the Engineering Guidelines in effect when the subdivision was legally platted (or has been upgraded to those standards). The letter from the County Engineer as noted in Section 5.8 may be used to meet this requirement. If the subdivision where the street is located was never legally platted, it must meet the current Guidelines;
 - 6.2.3 Written certification from a Texas Professional Engineer that the street is currently in compliance with the applicable Guidelines. The cost of any improvements, maintenance, or repairs required to reach that standard shall be borne by the developer or current owners;
 - 6.2.4 Agreement by the County Commissioners Court that the street should be accepted, following an inspection by the County Engineer; and
 - 6.2.5 The expiration of one year from the date that all streets, drainage and other improvements in the subdivision are completed, inspected by the County Engineer, and approved by Commissioners Court;
- 6.3 This section is required in order to provide security for the maintenance under section 6.2.4.

- 6.3.1 With the approval of Commissioners Court, the Developer shall give a surety bond, cash or letter of credit in an amount equal to 25% of the cost of construction for the streets and drainage in the subdivision. This will be referred to as the maintenance bond.
- 6.3.2 Commissioners Court must approve each bond or letter of credit. This security is to be conditioned upon the Developer's maintenance of the streets in a state of good repair until the time as they are accepted. The security shall be made payable to the County Judge of Waller County, and shall remain in effect until released by Commissioners Court.
- 6.3.3 Security will be released when the street qualifies for final acceptance under Section 6.2. Before release of the security, the County Engineer shall final inspect the streets, and the Developer shall remedy all deficiencies. If the deficiencies are not promptly remedied, the County shall make the repairs and draw on the security for payment.
- 6.4 The enforcement of plat restrictions is the responsibility of the developer and other owners in the subdivision; however, in an ETJ, both the city and the County shall have the authority to enforce plat restrictions to prohibit the construction or connection of utilities, or issuing of permits unless the requirements of the plat restrictions have been achieved.
- 6.5 The County will assume no responsibility for drainage facilities in the subdivision, other than those running on or along the streets or in approved drainage easements until they are formally accepted by the County Commissioners Court for maintenance. Maintenance and liability of landscaped areas within the right-of-way will be the responsibility of the developer, the municipal utility district, neighborhood association, or other Developer entity.

7. Substandard/Illegal Subdivisions

7.1 The County may accept maintenance of any street located in a subdivision in existence prior to June 15, 1981 (whether that subdivision was lawfully platted or not), provided that the streets meet all the criteria in Paragraphs 6.2 and 6.3 of these Regulations. The County will assume no part of the cost of bringing the streets into compliance before acceptance.

7.2 Subdivisions of property that are created without going through the proper platting procedure (either full plat or plat exemption) will not receive addresses or permits from the Engineer's Office.

8. Variances

- 8.1 The Commissioners Court of Waller County, may by written order passed in court grant variances from these Regulations.
- 8.2 Any person who wishes to receive a variance must apply to the County Engineer, who will request it be placed on the agenda of the Court with a recommendation whether the variance should be granted or not.
- 8.3 If the variance affects a city's ETJ, the person must contact the appropriate jurisdiction as stated in interlocal agreements under Local Government Code 242.001 (c) (d) (4).
- 8.4 The decision of the County Commissioners Court to grant or deny a variance is at its sole discretion.

9. 911 Rural Addressing

- 9.1 No 911 address will be provided for any development type (i.e. residential or commercial) until proof of adherence to platting regulations is confirmed.
- 9.2 All addresses shall be provided by the 911 Addressing Coordinator.
- 9.3 Address numbers shall be placed on mailboxes, gates and houses, so that emergency personnel can easily locate the correct location.

10. Enforcement

- 10.1 Section 232.005 of the Texas Local Government Code provides for the enforcement of these Regulations.
- 10.2 Under Chapter 7 of the Texas Penal Code, a person may be responsible as a party to an offense if the person (acting with intent to promote or assist the commission of the offense)

solicits, encourages, directs, aids, or attempts to aid another person to commit the offense. Thus, a real estate agent or broker, a lender, an attorney, a surveyor, an engineer, a title insurer, or any other person who assists in violating these Regulations may also face criminal penalties.

10.3 Besides prosecuting a criminal complaint, the District Attorney may file a civil action to enjoin any violation or threatened violation of these Regulations, and to recover damages.

11. Summary of Costs

Excluding any required bonds or letters of credit, a developer will pay the county the costs per the following sections:

11.1 Preliminary Plat Review

The preliminary plat review fee is \$50 per lot plus \$50 per reserve. Fees shall be paid with the submission of the preliminary plat for review. Payable to: Waller County

11.2 Final Plat Review

The final plat and construction document review fee is \$100. Fees shall be paid with the submission of the final plat for review. Payable to: Waller County

11.3 Replat Review

The replat and construction document review fee is \$50 per lot plus \$50 per reserve. Fees to be paid prior to items placement on a Commissioners Court agenda. These fees shall be paid with the submission of the preliminary replat for review. Other fees include:

- (1) Public Notice Fee must pay for three weeks of ads in a paper of local circulation.
- (2) Notification letter postage (certified or registered mail, return receipt requested) must be sent to each property owner within 400' of the replat area.

11.4 Handling and Processing Fee (Final Plats) (Replats)

A charge of \$50.00 will be assessed for handling and processing Final subdivision plats for approval in Commissioners Court. In the event a subdivision is developed in sections, a charge of \$50.00 will be assessed for each section platted. This fee, in the form of a

Check, made out to the Treasurer, Waller County, Texas, will accompany the plat at time of submission to the Court for approval.

11.5 Filing Fee (Final Plats) (Replats)

File (1) 8 $\frac{1}{2}$ x 14 in the Official Public Records, filing fee is \$50.00 per plat plus \$11.00 for the first page and \$4.00 for each additional page.

EX: 1 Page plat = \$66.00, 2 Page plat = \$70.00

11.6 Infrastructure Development Plan Review (Rental Communities)

Infrastructure Development Plan Review fee of \$200 plus \$10.00 per rental space will be charged. Fees shall be paid with the submission of the Infrastructure Development Plan for review. Payable to: Waller County

11.7 Variance Requests

A charge of \$100.00 per residential request and \$500 per non-residential request will be assessed for handling and processing of Variance Requests for approval in Commissioners Court. This fee, in the form of a check, made out to the Treasurer, Waller County, Texas, will accompany the variance at time of submission to the Court for approval.

12. Plat Required

- 12.1 Commissioners Court adopts the following as a guide to the public in determining when a plat is necessary:
- 12.2 A plat is required for any subdivision as defined by Chapter 232, Local Government Code and as defined by these Regulations.
- 12.3 It is immaterial that the sale of a subdivision lot is by contract or lease-purchase rather than by deed, or that the lots are described by metes and bounds rather than lot and block.
- 12.4 A replat is required to divide a parent tract which is already located within a subdivision.
- 12.5 If the tract of land is located within the extraterritorial Jurisdiction of a municipality but outside the limits of said municipality, a plat must still be prepared and submitted to Waller County.
- 12.6 The owner of a tract of land located outside the limits of a municipality shall have a plat of the subdivision prepared if the owner divides the tract into two or more parts to lay out:
 - 1. a subdivision of the tract, including an addition; or
 - 2. lots; or
 - 3. streets. alleys, squares, parks or other parts of the tract intended to be dedicated to public use or for the use of purchasers or owners of lots fronting on or adjacent to the streets, alleys, squares, parks, or other parts.

13. Plat Not Required

The following exemptions may allow a division of property without the preparation of a subdivision plat. Under these exemptions, a property owner may not be required to prepare a subdivision plat for their division of their property, but the division of property must still meet the minimum lot size requirements set forth in the Waller County On-Site Sewage Facility Order, if applicable. A Certificate of Plat Exemption shall be issued by the County Engineer or Road Administrator for presentation to the

County Clerk stating that the division of Land is exempt from the subdivision plat requirements.

Commissioners Court adopts the following as a guide to the public in determining when a plat is not necessary:

- 13.1 <u>Family Provision</u>: The County shall not require the owner of an unplatted tract of land located outside the limits of a municipality who divides the tract into two or more parts to have a plat of the subdivision prepared if:
 - 13.1.1 Each of the lots is sold, given, or otherwise transferred to an individual who is related to the owner within the third degree of consanguinity of affinity, as determined by Chapter 573, Government Code; and
 - 13.1.2 the owner does not lay out a part of the tract as described in Section 12.6.3.
 - 13.1.3 If any lot is sold, given, or otherwise transferred to an individual who is not related to the owner within the third degree consanguinity or affinity, the platting requirements apply.
 - 13.1.4 A maximum of 4 lots can be created.
- 13.2 10 Acre Provision: The County shall not require the owner of an unplatted tract of land located outside the limits of a municipality who divides the tract into two or more parts to have a plat of the subdivision prepared if:
 - 13.2.1 All of the lots in the subdivision are more than 10 acres in area; and
 - 13.2.2 the owner does not lay out a part of the tract as described in Section 12.6.3.
- 13.3 <u>Veterans Provision</u>: The County shall not require the owner of an unplatted tract of land located outside the limits of a municipality who divides the tract into two or more parts to have a plat of the subdivision prepared if:
 - 13.3.1 The owner does not lay out a part of the tract as described in Section 12.6.3; and
 - 13.3.2 all of the lots are sold to veterans through the Veteran's Land Board Program.

- 13.4 <u>State Provision</u>: The County shall not require the owner of an unplatted tract of land located outside the limits of a municipality who divides the tract into two or more parts to have a plat of the subdivision prepared if:
 - 13.4.1 The tract is owned by the state or other state agency, board, or commission or owned by the permanent school fund or any other dedicated funds by the state.
- 13.5 Floodplain Dissolution Provision: The County shall not require the owner of an unplatted tract of land located outside the limits of a municipality who divides the tract into two or more parts to have a plat of the subdivision prepared if:
 - 13.5.1 The owner of the land is a political subdivision of the state, the land is situated in a floodplain, and the lots are sold to adjacent landowners.
- 13.6 <u>Single Division Provision</u>: The County shall not require the owner of an unplatted tract of land located outside the limits of a municipality who divides the tract into two or more parts to have a plat of the subdivision prepared if:
 - 13.6.1 The owner does not lay out a part of the tract as described in Section 12.6.3; and
 - one new part is to be retained by the owner, and the other new part is to be transferred to another person who will further subdivide the tract subject to the plat approval requirements of these regulations.
- 13.7 <u>Undivided Interest Provision</u>: The County shall not require the owner of an unplatted tract of land located outside the limits of a municipality who divides the tract into two parts to have a plat of the subdivision prepared if:
 - 13.7.1 The owner does not lay out any part of the tract as described in Section 12.6.3; and
 - 13.7.2 all parts are transferred to persons who owned undivided interest in the original tract and a plat is filed before any further development of any part of the tract.

- 13.8 Mortgage Provision: The County shall not require the owner of an unplatted or platted tract of land located outside the limits of a municipality who divides the tract into two parts to have a plat of the subdivision prepared if:
 - 13.8.1 The owner does not lay out any part of the tract described in Section 12.6.3; and
 - 13.8.2 the subdivision is the result of the owner dividing a tract by granting a security interest in property to secure indebtedness.
- 13.9 Adjacency Provision: The County shall not require the owner of an unplatted tract of land located outside the limits of a municipality who divides the tract into parts to have a plat of the subdivision prepared if:
 - 13.9.1 The owner does not lay out any part of the tract described in Section 12.6.3; and
 - 13.9.2 the subdivision is the result of the owner dividing a tract to convey property to an adjacent property owner.

APPENDIX A - ENGINEERING DESIGN STANDARDS

1. Improvement Plans

The Developer shall employ a Texas Professional Engineer to prepare the "Improvement Plans" in conformance with these regulations. Utility companies and other affected public agencies should be consulted before plans are prepared. Improvement Plans shall be submitted to the County Engineer for approval prior to construction.

- 1.1 Construction Drawings: Two (2) white background prints of the drawings shall be submitted, and the sheet size shall be 24" x 36" or 22" x 34". The drawings shall be referenced to the proposed subdivision, show elevations based on mean sea level datum plan, and be in compliance with the following information:
 - 1.1.1 Street Plan Profile: The plan of each proposed street (indicating the existing ground elevations and proposed street grade surface including existing street grade for a distance of one hundred feet (100') beyond the tract boundary), at a scale of not more than twenty feet (20') per inch.
 - 1.1.2 Street Typical Sections: A typical-section of each proposed street if all are not the same, not to scale, but having horizontal and vertical measurements showing width of proposed stabilization, base, wearing surface, curbs, shoulders, ditches, etc.
 - 1.1.3 Water Supply and Sanitary Sewer System: The plans and profiles proposed and existing water distribution systems and sanitary sewer if submitted to the required State agencies for approval, shall be submitted to the County Engineer's Office to be approved by County Engineer prior to commencement of construction.
 - 1.1.4 Drainage: The size, location and typical sections of drainage ditches (or storm sewer, if used) including easements shall be shown. All drainage plans, profiles and computations shall be submitted to the County Engineer's Office for approval by County Engineer prior to construction.
 - 1.1.5 Existing Utilities: Plans and profiles of existing utilities shall be shown where applicable.

1.1.6 Bench Marks: Shall be provided at convenient points, with description, location and Mean Sea Level elevations indicated on the improvement plans.

Tie to FEMA Benchmarks.

2. Lot Size

2.1 Minimum lot size shall be one and one-half (1.5) net acres for lots which have a private water well and private septic system and one (1.0) net acre for public water and private septic system, per dwelling in each instance. All easements are to be excluded from the acreage calculation. The Waller County On-Site Sewage Facility Regulations or other Federal, State, or Local laws or regulations may impose further lot restrictions.

3. Street Alignments

- 3.1 Streets shall be laid out so as to align with existing streets in adjoining or nearby subdivisions, leaving the possibility of connecting the subdivisions with a minimum of street construction. No voids shall be left within the subdivision with the intent of avoiding responsibility for constructing streets or bridges, nor along the subdivision boundary to avoid connecting with adjacent subdivisions or streets. Arterials shall be placed and designed in accordance with the plan of the County Thoroughfare Plan and the County Engineer. Collectors will be placed in accordance with any collector street plan that contains the subdivision.
- 3.2 Maximum block length shall be based on the average lot size fronting on the subject street in accordance with the following:

Average Lo	ot Size	Block Length
Not Greate	er Than (Ac.)	Length (Ft.)
0.5	1,500 1.0 1,500 2.	1,500
5.0	2,000	
10.0	2,500 20.0 3,5	500
40.0		5,000

3.3 Dead-end streets which end at property that may be developed may remain as Dead End streets, but must be extended to the property lines. Dead End streets which shall remain as Dead

End streets shall end on a temporary cul-de-sac with a minimum radius of right-of-way 70 feet (minimum base 50 foot radius) with Dead End street signs placed on these streets.

3.4 County may require an internal street system that minimizes street cuts to existing County streets.

4. Minimum Street Requirements

- 4.1 Arterial streets shall be designed as follows:
 - 4.1.1 If the arterial is included in the transportation plan, the right-of-way and pavement shall be as required in the plan.
 - 4.1.2 The minimum right-of-way shall be 100 feet for urban (curb and gutter) construction and 120 feet for rural (open ditch) construction.
 - 4.1.3 The pavement cross section in a rural subdivision shall be 36 feet of paved surface travel-way.
 - 4.1.4 The pavement cross section in an urban subdivision shall be two 24-foot travel-ways with a 19-foot median.
 - 4.1.5 The minimum design speed shall be 55 MPH. A minimum centerline radius of 2,000 feet shall be used.
- 4.2 Collector streets shall be designed as follows:
 - 4.2.1 If the collector is included in a transportation plan, the right-of-way and pavement cross section shall be as required in the plan.
 - 4.2.2 The minimum right-of-way shall be 80 feet for urban (curb and gutter) construction and 90 feet for rural (open ditch) construction.
 - 4.2.3 The pavement cross section in a rural subdivision shall be 28 feet of paved surface travel-way.
 - 4.2.4 The pavement cross section in an urban subdivision shall be a 32-foot paved travel-way.
 - 4.2.5 The minimum design speed shall be 45 MPH. A minimum centerline radius of 1200 feet shall be used.
- 4.3 Local streets shall be designed as follows:
 - 4.3.1 The minimum right-of-way shall be 70 feet in a rural (open ditch) subdivision and 60 feet in an urban (curb and gutter) subdivision.

- 4.3.2 The pavement cross section in a rural subdivision shall be 22 feet of paved surface travel-way, or 28 feet back of curb to back of curb.
- 4.3.3 The pavement cross section in an urban subdivision shall be a 28 feet, back of curb to back of curb.
- 4.3.4 Cul-de-sacs shall have a minimum right-of-way of 70 feet (radius) with a rural paving section of 50foot radius paved travel-way, or a 50-foot radius to back of curb.
- 4.3.5 The minimum design speed shall be 35 MPH. A minimum centerline radius of 650 feet shall be used.

4.4 The following standards apply to all streets:

- 4.4.1 Concrete streets with curbs shall have a back of curb to back of curb width equal to those sections with curb and gutter sections.
- 4.4.2 Concrete Curb and gutter sections where used with non-concrete pavement shall be a minimum of 24 inches in width.

4.5 Additional Right-of-Way for Existing Streets:

- 4.5.1 Where the subdivision affects a county street, the Commissioners Court shall determine the right-of-way width which will be necessary for the maintenance and improvement of the street.
- 4.5.2 Where the subdivision affects only one side of a county street, adequate right-of-way shall be provided to obtain one-half the total proposed width to provide right-of-way as prescribed by Commissioners Court.
- 4.5.3 Where the development is on both sides of the existing county street, right-of-way for the total prescribed width shall be provided.
- 4.5.4 Any improvements proposed by the developer along an existing county streets shall:
 - Comply with the standards set in Paragraph
 4.1;

- 2. Be included in the construction plans as approved by the County Engineer; and
- 3. Where it is an improved facility, it must be equal to the existing street, in sole discretion of Commissioners Court.
- 4.6 Unless otherwise stated in these regulations, all streets shall be designed in accordance with the latest version of

AASHTO (American Association of State Highway and Transportation Officials) "A Policy on Geometric Design of Highways and Streets". All references to "mountainous terrain" shall not apply to Waller County.

4.7 Private streets shall be allowed at the discretion of the Commissioners Court. Private streets shall be constructed to County standards in all matters. County shall not be obligated in the future to accept any private street into the County road maintenance system.

5. Construction: General

- 5.1 A preconstruction meeting shall be scheduled prior to the start of construction. The Design Engineer, Developer, Contractor, Subcontractors and County Engineer or his designated representative shall attend this meeting. All streets are to be constructed according to specifications found in the current version of the TxDOT Manual Standard Specifications for Construction of Highways, Streets, and Bridges unless otherwise stated in these standards.
- 5.2 All streets, and concrete structures shall be tested by an Independent Testing Laboratory. The subgrade will be tested for Plasticity Index (PI), percent of lime if lime is added, and compaction. Each base course will be tested for compaction and depth. The two course surface treatment will have certification of distribution of AC-5 or HFRS-2 asphalt and of the cover stone. The HMAC course will be tested for compaction and depth. All compaction test reports will include a copy of the work sheet showing 100% Design Proctor Standard. Pavement concrete will be tested for Compressive strength. A test specimen will be taken at intervals no greater than 500 feet. The developer shall pay for all testing and will furnish the County Engineer's Office with certified copies of these tests.
- 5.3 All underground nonferrous utilities within an easement or street must be accompanied by ferrous metal lines to aid in

- the location of the utilities through the use of a metal detector except for electrical lines.
- 5.4 All pavement is to be designed by a professional engineer. The design is to be based upon a soil report of samples taken along the proposed streets. Test holes will be placed at a maximum spacing of 1000 feet of proposed roadway. The County Engineer shall review the report along with the street and drainage construction plans for the subdivision.
- 5.5 Iron Rods and caps shall be placed at all points of curvatures and tangencies for all rural streets.

6. Subgrade

- 6.1 The preparation of the subgrade shall follow good engineering practices as directed by the Design Engineer. When the P.I. is greater than 20, then a sufficient amount of lime shall be in accordance with TxDOT Item 260 Lime Treatment For Materials Used As Subgrade (Road Mixed) and Item 264 Lime and Lime Slurry until the P.I. is less than 20. Subgrades such as sand, with low plasticity (P.I. less than 5) shall be cement stabilized. The subgrade will be prepared and compacted to 95% Standard Proctor density. The subgrade shall be watered, rolled and bladed to a depth of 6 inches before any flexible base material is placed on it.
- 6.2 The subgrade must be inspected and approved by an Independent Testing Laboratory and a certified copy given to the County Engineer's Office.
- 6.3 The subgrade shall extend 24 inches outside of the base width on each side of the base material.

7. Base Material

- 7.1 Base material shall conform to TxDOT Item 247 "Flexible Base". The base material shall be Type A Grade 2.
- 7.2 The base will be prepared and compacted to 95% Standard Proctor Density, +1-2% optimum moisture. The base must be inspected and approved by an Independent Testing Laboratory and a certified copy of all tests given to the County Engineer's Office for approval. All streets must have a flexible base. The flexible base shall have a minimum thickness of six (6) inches after compaction of the authorized base material on local streets and a minimum thickness of eight (8) inches after compaction of the authorized base on collector and arterial streets.

7.3 The base shall extend 24 inches outside the paving width on each side of the pavement material.

8. Wearing Surface

- 8.1 Hot Mix Asphaltic Concrete (HMAC)
 - 8.1.1 Urban streets require a minimum 2" layer of HMAC Type D. Compact to 95% Standard Proctor density. Aggregate used in the mix shall be on the TxDOT Quality Monitoring Schedule. The County Engineer's Office shall be provided with a copy of the HMAC design.
 - 8.1.2 Rural streets require a minimum 2" layer of HMAC Type D. Compact to 95% Standard Proctor density. Aggregate used in the mix shall be on the TxDOT Quality Monitoring Schedule. The County Engineer's Office shall be provided with a copy of the HMAC design.
 - 8.1.3 Paving material shall be applied only as directed in the TxDOT Manual.
 - 8.1.4 Subgrade applied in accordance with A6.
 - 8.1.5 Base Material applied in accordance with A7.
 - 8.1.6 The asphalt surface must be inspected and approved by an Independent Testing Laboratory and a certified copy given to the County Engineer's Office for approval by the County Engineer.

8.2 Concrete

- 8.2.1 Design Engineer shall determine class of concrete for each structure. Aggregate used in the mix shall be on the TxDOT Quality Monitoring Schedule. Batch design will be required for each class of concrete. Test specimens will be required for each 500 SY or a minimum of one cylinder for each class of concrete. For structural concrete, test cylinders will be required for each 50 CY. A slump test will be required for each set of test beams or cylinders. Air entraining and retarding agents used shall be from approved TxDOT list.
- 8.2.2 Fly ash is allowed in the mix.

- 8.2.3 Concrete pavement shall be a $5 \, \frac{1}{2}$ sack mix and a 28- day compressive strength of 3500 PSI. Structural concrete shall have a 28-day compressive strength of 4000 PSI.
- 8.2.4 Minimum pavement requirements shall be as follows:
 - 8.2.4.1 Subgrade in accordance with A6.1
 - 8.2.4.2 Arterial Street minimum thickness is seven (8) inches with #4 bars on 18-inch centers, each way.
 - 8.2.4.3 Collector Street minimum thickness is seven (7) inches with #4 bars on 18-inch centers, each way.
 - 8.2.4.4 Local Street minimum thickness is six (6) inches with #4 bars on 24-inch centers, each way.
 - 8.2.4.5 All reinforcing steel shall be a minimum Grade 60, ASTM A615.

9. Street Names and Markers

- 9.1 All streets to be dedicated to the public with a subdivision shall be named, with prior approval for the name from the 911 County System, and the Commissioners Court. The street names shall be displayed on standard intersection street markers erected by the Developer at each street intersection. All houses shall be numbered. Where rural route mail boxes are in use, the boxes shall be set behind curbs 3 ft. from the edge of the pavement when used. All mailboxes within county right-of-way shall meet the current TxDOT standards.
- 9.2 Traffic control signs (such as stop, yield, and speed limit signs) as approved by Commissioners Court, shall be installed by the Developer of the subdivision at all intersections. Other traffic control signs shall be installed to indicate any unusual traffic or street hazard or conditions that may exist. All traffic control devices shall be placed in compliance with the current standards of the TxDOT and the construction cost shall be included in the security. The placement of these signs shall be shown in the construction plans.

- 9.3 A speed limit of 30 MPH for local streets, 40 MPH for collector streets and 50 MPH for arterial streets within all platted subdivisions is required. This limit may be changed only by Commissioners Court upon a finding that the prima facia maximum reasonable and prudent speed for a particular street (or part of a street) should be different, based on an engineering study.
- 9.4 All of the requirements regarding street names, street signs and traffic control signs must be fulfilled prior to being accepted for final maintenance by the Commissioners Court, under Section 6.
- 9.5 All street signs shall adhere to the Texas Manual of Uniform Traffic Control Devices (TMUTCD).

10. Drainage – see Appendix E

11. Driveways – see "Driveway Regulations" (under separate cover)

- 11.1 Minimum driveway spacing on arterial streets without curb and gutter shall be 200 feet.
- 11.2 The use of concrete "dip type" driveways is encouraged. The maximum grade break at each vertical point of intersection shall be 15%. Concrete will be 3000 PSI with a minimum thickness of five inches. Minimum reinforcement shall be #4 at 18" on center each way (ocew).

12. Pipelines

Pipelines placed (or replaced) beneath existing roads shall be installed by boring or tunneling. Jacking may not be used unless approved in writing by Commissioners Court. The use of explosives is prohibited.

- All borings shall extend beneath all travel lanes. Unless precluded by right-of-way limitations, the following clearances are required:
 - 20 feet from all mainlanes on roads with speed limits exceeding 40 mph or higher;
 - 10 feet for speed limits of 40 mph or less.

All traffic control devices, including signs, markings, or barricades used to warn the public of the construction activity must conform to the TMUTCD.

- 12.1 Natural Gas and Petroleum Pipeline Crossings
 - 12.1.1 When new streets are constructed over pipelines, the pipelines must meet the following requirements:
 - 12.1.1.1 Encased pipe must be at least 5 feet below the deepest proposed ditch grade (bottom of ditch to top of pipe).
 - 12.1.1.2 Non-cased pipe (of extra wall thickness meeting Federal Regulations) must be at least 10 feet below the deepest proposed ditch.
- 12.2 No street will be accepted for maintenance by Waller County which contains a petroleum pipe line within the right-of-way, other than crossing pipe lines. The exact horizontal and vertical location of pipe must be shown as determined in the field. The note from Section B Item 9 must be shown on the face of the plat.

APPENDIX B - PLAT NOTES

1. Street Widening Easements

Right-of-way easements for widening streets or improving drainage shall be maintained by the landowner until all street or drainage improvements are actually constructed on the property. The County has the right at any time to take possession of any street widening easement for construction, improvement or maintenance.

2. Owner's Responsibilities

The building of all streets, bridges or culverts is the responsibility of the owners in accordance with the plans prescribed by Commissioners Court. Commissioners Court assumes no obligation to build or maintain any of the streets shown on the plat or constructing any of the bridges or drainage improvements. Upon completion of all obligations by the Developer and written approval from the Commissioners Court, the County will assume full responsibility for maintenance of the streets. The County will assume no responsibility for the drainage ways or easements in the subdivision, other than those draining or protecting the streets.

The County assumes no responsibility for the accuracy of representations by other parties on the plat. Floodplain data, in particular, may change depending on subsequent development.

The owners of land covered by this plat must install at their own expense all traffic control devices and signage that may be required before the streets in the subdivision have finally been accepted for maintenance by the County.

The property subdivided herein is further restricted in its use as specified under the terms and conditions of restrictions filed separately. A copy of said restrictions will be furnished by aforesaid (Corporation Name), to the purchaser of each and every lot in the subdivision prior to culmination of each sale.

Include certification that the subdivider has complied with the requirements of Section 232.032 and that:

- (A) the water quality and connections to the lots meet, or will meet, the minimum state standards;
- (B) sewer connections to the lots or septic tanks meet, or will meet, the minimum requirements of state standards;
- (C) electrical connections provided to the lot meet, or will meet, the minimum state standards; and
- (D) gas connections, if available, provided to the lot meet, or will meet, the minimum state standards.

3. Owner's Release

The standard format for owner's approval of the plat restrictions and dedication of easements shall be as follows:

For Corporations (Face of Plat)

We, (Name of President) and (Name of Secretary), President and Secretary respectively, of (Name of Company), owner of the property subdivided, in this plat of (Name of Subdivision), make subdivision of the property on behalf of the corporation, according to the lines, lots, building lines, streets, alleys, parks and easements as shown and dedicated to the public , the streets, all alleys, parks and easements shown, all claims for damages occasioned by the waive establishment of grades as approved for the streets and drainage easements dedicated, or occasioned alternation of the surface, or any portion of the streets or drainage easements to conform to the grades, and bind ourselves, our heirs successors and assigns to warrant and defend the title to the land so dedicated.

We, the aforementioned, hereby dedicate to the public all easements and roads shown thereon. There is also dedicated for utilities, an aerial easement five (5) feet wide taken from a plane twenty (20) feet above the ground, located adjacent to all utility easement and streets shown thereon.

Further, all of the property subdivided in the above and foregoing plat shall be restricted in its use, which restrictions shall run with the title to the property and shall be enforceable at the option of Waller County, by Waller County, or any citizen thereof, by injunction as follows:

 That drainage of septic tanks into roads, streets, alleys, or public ditches, streams, etc., either directly or indirectly is strictly prohibited.

- 2. All stock animals, horses, and fowl shall be fenced in and not allowed to run at large in the subdivision.
- 3. Drainage structures under private drives shall have a net drainage opening area of sufficient size to permit the free flow of water without backwater and shall be a minimum of one and **one** quarters (1-1/4) square feet (15" diameter pipe) reinforced concrete pipe, unless specified by the County Road Administrator, or County Engineer. Culverts and bridges must be used for all driveways and/or walks, although dip-style driveways are encouraged where appropriate.
- 4. Property owners will obtain Development Permits/Permit Exemptions from the County Floodplain Administrator for all development.
- 5. The property subdivided herein is further restricted in its use as specified in the subdivision restrictions as filed separately for record at Page ______ Volume ____ of the Deed Records of Waller County, Texas. A copy of said restrictions will be furnished by the aforesaid (Corporation Name), to the purchaser of each and every lot in the subdivision prior to culmination of each sale.
- 6. There are no underground pipelines within the confines of this subdivision except as shown on the above plat.
- 7. There shall be no sanitary sewer system or any water well constructed within 50 feet of any lot line that does not adjoin a public road.

In	Testimony,	hereto,	the	(Name	of	Company), has caused to be
	signed by	(Name of	Pres	ident)	, it	s President, attested by its
	Secretary,	(Name o	f Sec	cretary	7),	and its seal, this day
	of	, 2	0			
						Name of Company
						1 1
					By:	
					Ly.	President
						rresident
				70 1. 1		
				Atte	ST:	

Notary Public

In and for ____County, Texas

For Individual(s) (Face of Plat)

I, (or we), (Name of owner or names of owners), owner, (or owners) of the property subdivided in the above map of the (Name of Subdivision), make subdivision of the property, according to the lines, streets, lots, alleys, parks, building lines and easement as shown, and dedicate to the public, the streets, alleys, parks and easements shown, forever, and waive all claims for damages occasioned by the establishment of grades, as approved for the streets and drainage easements indicated, or occasioned by the alteration of the surface, or any portion of the streets or drainage easements to conform to the grades, and bind ourselves, our heirs, successors and assigns, to warrant and defend the title to the land so dedicated.

I, (or we), the aforementioned, hereby dedicate to the public all easements and roads shown thereon. There is also dedicated for utilities, an aerial easement five (5) feet wide taken from a plane twenty (20) feet above the ground, located adjacent to all utility easements and streets shown thereon.

Further, all of the property subdivided in the above and foregoing plat shall be restricted in its use, which restrictions shall run with the title to the property and shall be enforceable at the option of Waller County, by Waller County, or any citizen thereof, by injunction as follows:

- 1. That drainage of septic tanks into roads, streets, alleys, or public ditches, streams, etc., either directly or indirectly is strictly prohibited.
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- 3. Drainage structures under private drives shall have a net drainage opening area of sufficient size to permit the free flow of water without backwater and shall be a minimum of one and **one** quarters (1-1/4) square feet (15" diameter pipe) reinforced concrete pipe, unless specified by the County Road Administrator, or County Engineer. Culverts and bridges must be used for all driveways and/or walks, although dip-style driveways are encouraged where appropriate.
- 4. Property owners will obtain Development Permits/Permit Exemptions from the County Floodplain Administrator for all development.

5.	The property subdited use as specification as a specification of the Deed Record said restrictions (Corporation Name), in the subdivision	ed in the property of the contract of the cont	e subdivisi at Page ler County, furnished ourchaser of	on restri Volu Texas. by the each and	ctions a me A copy o aforesai every lo	s f d
6.	There are no undergothis subdivision ex					f
7.	There shall be no s constructed within adjoin a public roa	50 feet				
WIT	TNESS MY (or our) unty, Texas, this	hand in _ day of	(City),	, 20		,
 		_	(Signature	of Owner)		
			(Signature	of Owner)		
Not	cary Public [For Ind	ividual(s	;)]			
STA	ATE OF TEXAS	}				
COU	JNTY OF	}				
BE	appeared [Name(s) person(s), whose foregoing instrum (she) (they) e consideration set	of Owne name(s) : nent, and xecuted	r(s)], know is (or are) l acknowledo	n to me to subscribe ged to me	to be the ed to the that he	e e e
Gi	ven under my hand	and sea	l of offic	e, this _	day o	f

	Notary Public
4.	In and ForCounty, Texas Lien Holder's — either the Release or the Subordination is required in situations where there is a lien against the property.
	a) Release
	(The following phrase is to be included only if there is a lien against the property) (Face of Plat)
	<pre>I (or we), [Name(s) of Mortgage(s)], Owner and Holder (or owners and holders) of a lien (or liens) against the above-described property, the lien (or liens), being evidenced by an Instrument of Record in Volume, Page, of the Mortgage Records of Waller County, Texas subordinate to the subdivision and dedication the lien (or liens), and I (or we) confirm that I am (or we are) the present owner (or owners) of the lien (or liens) and have not assigned the same, nor any part.</pre>
	NOTE: All lien holder signatures shall be acknowledged by a Notary Public.
	b) Lien Holder's Subordination To Dedication
	OWNER'S RATIFICATION OF PLATS
	THE STATE OF TEXAS

COUNTY OF WALLER

KNOW ALL MEN BY THESE PRESENTS

WHEREAS, (names of all owners within the plat boundaries)
are the owners of that certain (number of acres) of land out of the (name of the survey and abstract number) (name of County), Texas, said tract being further described by metes and bounds in exhibit A attached hereto and made a part hereof for all purposes: and

WHEREAS, (names of all owners who signed plat) have/has platted the herein above described tract of land into a subdivision known as (name of plat), recorded at VOL ____ PG ___, in the Map Records and Clerk's File Number of the official Public Records of Real

Property of Waller County, Texas: and

WHEREAS, the undersigned owner did not join in the platting or sign the plat of said (name of Plat), but is willing to ratify and confirm said subdivision plat and consent to all its terms and conditions:

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

That (name of owner subordinating) is the owner of that
certain tract of land containing (number of square feet or
acres) located within the subdivision, as described in the
deed dated (date), from (name of previous owner), recorded
under Clerk's File Number of the Official
Public Records of Real Property, Records Of Harris County,
Texas, which is Lot , Block , of the subdivision (or

That the undersigned, by executing this Owner's Ratification of Plat:

- 1. Confirms that he is the owner of the respective tract described in the deed referred to above, and
- 2. Represents that the tract owned by him is subject only to the vendor's lien described in the deed referred to above, and
- 3. Hereby ratifies, confirms and consents to the subdivision plat of (name of plat) and all terms and conditions therein contained, as described and referred to herein and as described in as shown on the plat of (name of plat) with the same force and effect as the undersigned had originally joined in the plat or signed the plat of (name of plat).

EXECUTEI	this _		da	y of		20,	A.D.
Ву:							
(Print	Owner's	Name	&	Title)		

NOTE: All lien holder signatures shall be acknowledged by a Notary Public.

5. Certificate of Commissioners Court

Name

APPROVED	by	Commissioners	Court	of	Waller	County,	Texas,	this
day	of		20	Α.	D.			
		-						

Name Commissioner,	Precinct 1	Name Commissioner, Pre	cinct 2
Name Commissioner,	Precinct 3	Name Commissioner, Pre	cinct 4
not signify for integratis required current Wa	Waller County action into the County with County	eceptance of the dedicate inty Road System. The de Sections 5 and 6 of the Subdivision and Deve	d roads veloper ne then
Privately ma	aintained paved	streets:	
owners of p such proper shall have maintenance and unless Association standards re accepted fo Waller Count required ri thereof, an [Owner] and subdivision	roperty within ty, acknowledge no obligation of the roads so [Owner] and/owner has improved the equired by Waller maintenance by ty Commissioners ght of way, has do accepted by the shall look so	and agree that Waller whatsoever to repair or hown on this subdivision repair or the Home roadways to the then repair or county and the roads has formal, written action Court and the roadway, we been dedicated by the he County, as a public where of property within olely to [Owner] and/	chasing County accept n until eowners current ve been of the ith all owners street. n this or the
I, Debbie Holl Texas, do here certificate o my office on	lan, Clerk of the eby certify that f authentication the day o	the within Instrument was filed for registrated for the state of, A.D. at	ith the
	Name Commissioner, Acceptance of not signify for integratis required current War Regulations. Privately maintenance and unless Association standards reaccepted for Waller Countrequired rithereof, an [Owner] and subdivision ————————————————————————————————————	Name Commissioner, Precinct 3 Acceptance of the above plat not signify Waller County acfor integration into the Couis required to comply with current Waller County Regulations, in this regard Privately maintained paved [Owner], by filing this Powners of property within such property, acknowledge shall have no obligation waintenance of the roads and unless [Owner] and/o Association has improved the standards required by Walles accepted for maintenance by Waller County Commissioners required right of way, has thereof, and accepted by to [Owner] and all future ow subdivision shall look subdivision shall shal	Name Commissioner, Precinct 1 Name Commissioner, Precinct 3 Acceptance of the above plat by the Commissioners Count signify Waller County acceptance of the dedicate for integration into the County Road System. The degis required to comply with Sections 5 and 6 of the current Waller County Subdivision and Develor Regulations, in this regard. Privately maintained paved streets: [Owner], by filing this Plat of Record, and allowners of property within this subdivision, by pure such property, acknowledge and agree that Waller shall have no obligation whatsoever to repair or maintenance of the roads shown on this subdivision and unless [Owner] and/or the Home Association has improved the roadways to the then standards required by Waller County and the roads has accepted for maintenance by formal, written action Waller County Commissioners Court and the roadway, we required right of way, has been dedicated by the thereof, and accepted by the County, as a public [Owner] and all future owners of property within subdivision shall look solely to [Owner] and/or Homeowners Association for future maintena repair of the roads and streets shown on this Subdivisions.

6.

Witness my hand and seal of office, at Hempstead, the day and date last above written.

Debbie Hollan

Clerk of the County Court Waller County, Texas

By______
Deputy

7. Certificate of City Council

(If Subdivision is located within Extraterritorial Jurisdiction) (Face of Plat)

The certificate must follow the city's regulations.

8. Floodplain Certification

The following note shall appear on the face of the plat, "Structures built on lots in the designated Floodplain shall be elevated to two (2) feet or more above the 500-year floodplain elevation, in the 100-year floodplain. Within the 500-year, these structures must be elevated to one (1) above the 500-year floodplain elevation. No development permits will be issued in a Flood Hazard Area below the base flood elevation (B.F.E.). Contact the County Engineer's Office for specific information."

9. Pipelines

(Face of Plat)

(Show all existing oil and gas pipe lines and/or plus pipe line easements or statement that: No pipe line or pipe line easement exist within the boundaries of this plat.)

If pipe lines do exist within the proposed subdivision, written "crossing" approvals must be submitted from each owner.

10. Additional Plat Notes and Releases

A. Certificate of Surveyor (Face of Plat)

This is to certify that I (Name), a Registered Professional Land Surveyor of the State of Texas, have platted the above subdivision from an actual survey on the ground; and that all block corners, lot corners and permanent referenced monuments have been set, that permanent control points will be set at completion of construction and that this plat correctly represents that survey made by me.

[(A) or (NO)] Portion of this subdivision lies within the boundaries of any municipality's corporate city limits, or area of extra territorial jurisdiction.

[(A)	or	(NO)]	Port	ion	of	this	s subd	livision	lies	within
th	e k	oun	daries	of	the	1	% a:	nnual	chance	(100	year)
fl	oodj	plai	n as	deli	neat	ed	on	Walle	r Count	y Cor	nmunity
Рa	nel	#		,	dat	ed	2/18	/2009.			

[(A)	or	(NO)]	Port	cion	of	thi	İS	subdi	vision	lies	within
th	e b	oun	daries	of	the	0.	2%	an	nual	chance	(500	year)
fl	ood	plai	n as	deli	neat	ed	on	N	aller	Count	y Con	nmunity
Ра	nel	#		,	dat	ed	2/1	8/2	2009.			

Surv	veyor		
TX	Registration	No	

(Seal)

B. Legal Description (Face of Plat)

(Herein, provide a legal description [metes and bounds description] of the property platted, tied to an original corner of the original survey.)

C. Certificate of County Engineer (Face of Plat)

I, (Name of County Engineer), County Engineer of Waller County, certify that the plat of this subdivision complies with all existing rules and regulations of Waller County.

subdivision may begin until all Waller County permi requirements have been met.								
Date Name County Engineer								
D. Certificate(S) of Tax Collector								
(This document does not appear on the face of the Plat, but is a separate document. A Certificate from each Tax Collector of a Political Subdivision in which the property is located must accompany the Plat to be recorded, showing that all taxes owed to the State, County, School District, Drainage District and/or other Political Subdivision, have been paid in full to date.)								
E. <u>Drainage District Approval</u> (Face of Plat)								
(If subject property lies within the boundaries of a Drainage District.)								
The certificate must follow the district's regulations								
F. WASTEWATER DISPOSAL (Face of Plat)								
SEPTIC SYSTEM CERTIFICATION								
This is to certify that (Name of Subdivision) lies in the soil formation/formations, this/these soil formation(s) has/have a strata to a depth of inches. Suitable systems in this/these formation(s) can be								
Certified True & Correct								
(Name of Registered Engineer) Date (Registration No.)								

No construction or other development within this

No structure in this subdivision shall be occupied until connected to a public sewer system or to an onsite wastewater system which has been approved and permitted by Waller County Environmental Department.

Per Texas Administrative Code 285.4, FACILITY PLANNING [C] Review of subdivision or development plans. Persons proposing residential subdivisions, manufactured housing communities, multi-unit residential developments, business parks, or other similar structures that use OSSFs for sewage disposal shall submit planning materials for these developments to the permitting authority and receive approval prior to submitting an OSSF application.

G. WATER AVAILABILITY (Face of Plat)

No structure in this subdivision shall be occupied until connected to an individual water supply or a state-approved community water system.

H. FIRE SUPPRESSION SYSTEM (Face of Plat)

In a subdivision that is not served by fire hydrants as part of a centralized water system certified by the Texas Commission on Environmental Quality as meeting minimum standards for water utility service, the Commissioners Court may require a limited fire suppression system that requires a developer to construct:

- (1) For a subdivision of fewer than 50 houses, 2,500 gallons of storage; or
- (2) For a subdivision of 50 or more houses, 2,500 gallons of storage with a centralized water system or 5,000 gallons of storage.

Appendix C – Infrastructure Development Plan for Manufactured Home Rental Communities and RV Parks

The owner who intends to use the land for any type of rental community including, a manufactured home rental community or recreational vehicle park, must have an infrastructure development plan prepared that complies with the minimum infrastructure standards established herein. (Texas Local Government Code Chapter 232.007)

1. Infrastructure Development Plan

- 1.1 The Rental Community Infrastructure Development Plan (IDP)) shall show at minimum the following:
 - 1.1.1 The development shall have a minimum of sixty (60) feet fronting a street or roadway which has been previously dedicated to the public for the public's use and benefit as a street or roadway. Access roads to the individual rental spaces must be constructed and paved to a minimum width of 20 feet with a 2 inch thick Hot Mixed Asphaltic Concrete (HMAC) paved surface, 8 inch thick crushed stone base, and, if located in clay or sandy soils, a 10 inch thick treated subgrade.
 - 1.1.2 No space may contain more than one single family residential unit or Commercial Unit. No common driveways shall be allowed. Each space shall have separate and individual access.
 - 1.1.3 A survey of the property shall be submitted to the County Engineer's Office prior to the request by the owner or occupier of the lot for any permit and/or utility services.
 - 1.1.4 The owner shall submit a letter of application, signed by the owner, which stipulates the intention of the owner; name, address, phone number of the owner; names of water and electricity providers; and name of wastewater provider or type and usage of onsite sewage facilities.
 - 1.1.5 Only 22" x 34" or 24" x 36" sheets will be acceptable and at a maximum scale of 1"=200' (1" = 100' preferred), or as approved by the County Engineer. An index on the first sheet is required when more than two sheets are required for the IDP.

- 1.1.6 Names, locations, dimensions (bearings and distances), and layouts of existing and proposed streets, alleys easements, and other public right-of-way and public street right-of-way easement, alley, park, or other public dedication.
- 1.1.7 Dimensions, bearings and distances, of the proposed rental spaces.
- 1.1.8 Signatures and date of approval and certifications on the IDP. These approval signatures shall be not more than six (6) months prior to the submission. Examples of the required acknowledgments and certifications are as contained in the exhibits attached hereto. (See Appendix B)
- 1.1.9 Legal description, acreage, and name of the proposed Development. The Development's name shall not be spelled or pronounced similarly to the name of any existing Development or Subdivision located within the County.
- 1.1.10 The boundary of the Development indicated by a heavy line and described by bearings and distances.
- 1.1.11 Scale, legend, north arrow, spot elevations on 100' or an appropriate grid, with two foot (2.0') contour lines. Alternate contour intervals may be submitted, based on terrain, with approval from Commissioners Court and County Engineer.
- 1.1.12 Deed record, name of owner, volume and page number of adjoining properties.
- 1.1.13 Dates of survey and preparation of IDP.
- 1.1.14 Identification code, location, description, and elevation of the USGS or appropriate benchmark used in the survey.
- 1.1.15 Front building setback lines. Back and side building setback lines by note.
- 1.1.16 Location of any City's corporate limit line or extraterritorial jurisdiction line.
- 1.1.17 Vicinity map with streets, ditches, general drainage flow directions to the ultimate outfall, city limits and ETJs, and other major land features.

- 1.1.18 Net area (gross area less easements) of rental spaces and/or units to the nearest 1/100 of an acre for lots using On-Site Sewage facilities and/or well water.
- 1.1.19 Limits of all flood hazard areas as defined by the appropriate FEMA FIRM panel and the proposed finished floor elevation of buildings within these flood hazard areas on each space.
- 1.1.20 A certification by a Surveyor or Engineer describing any area of the Development that is in a Floodplain or stating that no area is in a Floodplain, as delineated by the appropriate FEMA FIRM panel and date.
- 1.1.21 A surveyor's signature and seal on the IDP for certification.
- 1.1.22 The description of the water and sewer facilities, electricity and gas utilities, and roadways and easements dedicated for the provision of water and sewer facilities that will be constructed or installed to serve the Development and a statement of the date by which the facilities will be fully operable, prepared by an Engineer (may be included in an attached document). A certification must be included that the water and sewer facilities described by the IDP, or document attached to the IDP, are in compliance with these Regulations.
- 1.1.23 Approvals by other regulatory and governing bodies, as required.
- 1.1.24 Letters signed and dated from water, wastewater, and electric utilities of service commitment and availability and statement of approval of existing and proposed utility easements.
- 1.1.25 A tax certificate showing that all taxes currently due with respect to the original tract have been paid.
- 1.1.26 Results of soil analysis certified by a qualified site evaluator (as defined by 30 TAC Chapter 285) for on-site sewage facilities (OSSF).
- 1.1.27 Engineering Design Construction Plans for roadway access to each rental space for fire and emergency vehicles.

- 1.1.28 Drainage design plans to ensure adequate drainage off of the rental spaces and/or units to drainage channels and out of the Development, including the design of drainage structures, culverts, and/or systems using a 10 year storm frequency, such that the drainage out of the Development does not have a negative drainage impact on neighboring properties. If additional right-of-way (ROW) is required for existing County road drainage and access as determined by the County Engineer to achieve a 60 foot wide right-of-way, the owner shall dedicate the right-of-way to the County.
- 1.1.29 The Engineering Report, as described in Appendix D of these regulations.
- 1.2 Inspection of Improvements. Construction of a proposed Rental Community may not begin before the date the County Engineer and Commissioners Court approves the IDP. Periodic inspection of improvements may be required, as directed by the County Engineer. If the County Engineer directs that a final inspection is required, it must be completed not later than the second business day after the date the County Engineer receives a written confirmation from the owner that the construction of the infrastructure is complete. If the inspector determines that the infrastructure improvements comply with the IDP, then the County Engineer shall issue a Certificate of Compliance no later than the fifth business day after the date the County Engineer receives written confirmation from the owner that the
- 1.3 Utilities. A Utility may not provide utility services, including water, sewer, gas, and electric services, to a Manufactured Home Rental Community subject to an IDP or to a manufactured home in the community unless the owner provides the utility with a copy of the Certificate of Compliance issued by the County Engineer. This requirement applies to:

infrastructure has been completed and in compliance with

the IDP.

- 1.3.1 A municipality that provides utility services;
- 1.3.2 A municipality owned or municipality operated utility that provides utility services
- 1.3.3 A public utility that provides utility services;

- 1.3.4 A nonprofit water supply or sewer service corporation organized and operating under Chapter 67, Water Code, that provides utility services;
- 1.3.5 A county that provides utility services; and
- 1.3.6 A special district or authority created by state law that provides utility services.
- 1.4 Timely Approval of Infrastructure Development Plans.

No later than the 30th day after the date the owner of a proposed manufactured home rental community submits an infrastructure development plan for approval, the County Engineer will reject the plan, if it is deficient, or request the IDP be placed on the agenda for Commissioners Court and recommended an action. If the plan is rejected, the written rejection must specify the reasons for the rejection and the actions required for approval of the plan. The failure to reject a plan within the period prescribed herein constitutes approval of the plan.

Appendix D – Engineering Report for Manufactured Home Rental Communities and RV Parks

Engineering Report - This report, which shall be signed, dated, and sealed by a licensed professional engineer registered in Texas, shall contain detailed and definitive information on the following:

1. Water Supply Facilities

- 1.1 Public Water Systems
 - 1.1.1 If the water supplier is a political subdivision of the state: a city, municipality, utility district, water control and improvement district, nonprofit water supply corporation, etc., the Developer shall furnish a signed letter of service availability from the water supplier to provide the state's minimum requirements of quality and quantity of water to the proposed Development.
 - 1.1.2 Water service must be extended into the Development to each lot or rental space if the existing water lines are located within 300 feet of the Development and if there is sufficient water available by the water supplier.
- 1.2 Private Wells or Non-public Water Systems Quantitative and qualitative results of sampling test wells in accordance with requirements promulgated by the TCEQ and the Texas Department of Health shall be included where individual wells are proposed for the supply of drinking water to residences and other establishments. The results of the analyses shall be made available to the prospective property owners or renters.
- 1.3 Prior to IDP approval, plans and specifications for the proposed water facilities system shall have been approved by all entities having jurisdiction over the proposed project, including TCEQ. Evidence of the approvals shall be included in the Engineering Report.

2. Wastewater Disposal Facilities

- 2.1 Centralized Sewerage Facilities
 - 2.1.1 If wastewater treatment is provided by a political subdivision of the state (city, municipality, utility district, water control and improvement district, nonprofit water supply corporation or an existing investor-owned water supply corporation, etc.) the Developer shall furnish a signed letter of service availability to provide the state's minimum wastewater treatment standard for the proposed Development from the utility.
 - 2.1.2 Prior to IDP approval, an appropriate permit to treat and/or dispose of wastes for the ultimate build-out of the Development shall have been obtained from the TCEQ and plans and specifications for the proposed wastewater collection and treatment facilities shall have been approved by all entities having jurisdiction over the proposed project, including TCEQ. Evidence of the approvals shall be included in the Engineering Report.
 - 2.1.3 Wastewater disposal service must be extended into the Development to each lot or rental space if the existing wastewater lines are within 200 feet of the Development and there is sufficient wastewater capacity available from the wastewater service provider.
- 2.2 On-Site Sewage Facilities The engineering report shall include soil analysis results as required under the Waller County Regulations for On-Site Sewage Facilities.

3. Roadways

The Engineering Report shall include a description of the roadways within the Community, and include information on the roadway cross section, pavement width and thickness, base thickness, subgrade treatment, material specifications, and other information as required in these Regulations. Plans and specifications for these improvements shall also be submitted to

the County Engineer's Office for approval by the County Engineer prior to construction.

4. Signage Plan

A signage plan for the streets to be constructed, if any, is to be included that shows an overall street layout depicting the location and description of signs and traffic control devices to be installed. The traffic control devices will include street name signs, stop signs, yield signs, speed limit signs, directional controls, striping, and delineators, etc.

5. Traffic Impact Study

For Manufactured Home Rental Communities of 100 spaces or greater, the Engineering Report may, at the request of the County Engineer, be required to include a Traffic Impact Study in accordance with the requirements of the County to assess the effects of additional traffic on the existing and proposed transportation system.

6. Drainage

The Engineering Report shall include information on the Development and roadway drainage, culverts, conveyances, outfalls, and other information as required to properly convey storm water within and away from the Development. Plans and specifications for these improvements shall also be submitted to the County Engineer's Office for approval by the County Engineer prior to construction.

7. Electronic Submission

An electronic file in AutoCAD format (.dwg) of the layout of the lots and streets (to scale and with state plane coordinates) within the Development shall be submitted for incorporation to the County-wide map.

APPENDIX E – DRAINAGE CRITERIA MANUAL

I. INTRODUCTION

Purpose

This DRAINAGE CRITERIA MANUAL (the Manual) provides design guidance for use by developers and engineers in preparation of drainage plans for development within the unincorporated areas of Waller County. It establishes rules and regulations that must be consistently followed and will be enforced throughout the unincorporated areas of the County. The design methods presented in this manual are intended to provide guidance for determination of runoff rates; methods of storm water collection, conveyance, and detention; and design standards for facilities (ditches, ponds, detention basins, etc.).

Methods of design and analysis other than those included in this Manual may be considered in certain cases where there may be inherent problems with the traditional methods. The National Oceanic and Atmospheric Administration's (NOAA) Atlas 14 rainfall data must be used in all instances. However, any deviation from this Manual will require consideration and acceptance by the County Engineer before approval will be granted for any work based on these alternatives.

Policy

Due to the nature of the watershed hydraulics within Waller County and the prevalent existence of floodplains that exceed the banks of the creeks, it shall be the policy of Waller County to maintain zero net increase in storm water runoff rates and to insure no negative impacts attributable to new development. Although it is Waller County's long-term goal to construct and maintain facilities (i.e., channels and regional detention facilities) that will contain 100-year storm flows within drainage rights-of-way, it is recognized that further impacts cannot be tolerated in the interim period. It is further recognized that impacts to other land owners and jurisdictions outside of Waller County's boundaries are unacceptable, and Waller County is dependent and supportive of the action of others to construct upstream and downstream facilities to accommodate 100-year flows.

Individual developers must provide infrastructure required to meet Waller County's stated objective of zero net increase in runoff rates and no negative impacts. Practically, this will mean that developers will provide adequate on-site detention volume to off-set increased runoff rates and must provide compensating storage volume for all fill placed in the 1% annual chance (100-year) and 0.2% annual chance (500-year) floodplain. Development in the delineated 100-year floodway will be

restricted by Waller County. Waller County prefers separate offline detention facilities, but in-line facilities will be considered on a case-by-case basis and will only be approved after Waller County is satisfied that there will be no negative impacts to adjacent property owners.

Waller County recognizes that a portion of the County lies within the jurisdiction of the Brookshire-Katy Drainage District. A developer shall obtain approval from the District for all development projects within the District. In case of a conflict between the requirements of the County and the District, the more stringent of the two shall apply.

II. ADMINISTRATION

Submittal

Waller County has authority for review and approval of development plans for projects within its jurisdiction. Prior to commencing construction on proposed improvements, two (2) copies of plans, plats, reports, and calculations shall be submitted for review at least two weeks prior to the meeting at which the item will be considered. Proposed plats and plans shall be submitted for each development unless an overall master drainage plan for the development has been previously approved, in which case the applicant must demonstrate compliance with the approved master plan. All plans and reports must be prepared and sealed by a Professional Engineer licensed to practice in the State of Texas.

In addition, if the project is located within the Brookshire-Katy Drainage District, the Developer shall obtain written approval from the District of the development plans, and a copy of said approval shall be submitted to the County Engineer as a requirement of final plat approval.

Site Visit

Waller County may require a representative of the property owner or developer to meet with Waller County Representative at the project site prior to drainage plan approval. This meeting shall be for Waller County's benefit and allow the Waller County Engineer to better understand the developer's intentions.

Datum

All topographic information shown on plans must be on the same vertical datum as the current FEMA FIRM Map showing the project area.

Drainage Plan Review

The drainage plan shall present the applicant's overall approach to collecting and conveying rainfall runoff to the appropriate drainage artery. It is recommended that prior to preparation of the plan a meeting be arranged between the applicant and the Waller County Engineer to discuss the proposed concept for drainage of the project. The design submittal shall contain the following items:

- 1. Name, address, and phone number of engineer that prepared the plan including contact person.
- 2. Scale of drawing with a minimum scale of 1"=100'.
- 3. Benchmark and reference benchmark with datum and year of adjustment.
- 4. A detailed location or vicinity map drawn to a scale. The project site shall be accurately located on the map.
- 5. Date on all submittals with date of all revisions with month, day, and year.
- 6. Signature lines for The County Engineer.
- 7. Contour lines at 1 foot where slopes do not exceed 2.0% and 5 foot intervals for slopes exceeding 2.0% intervals covering the entire development and extended beyond the development boundaries at least 50 feet on all sides. At least two contours are required for each project.
- 8. Preliminary scheme for the passage of sheet flow from adjacent properties.
- 9. Drainage area divides for project area, with peak run-off rates for each drainage area.
- 10. Locations of all planned drainage improvements proposed for moving run-off water from the development to the principle drainage artery, i.e., creek, stream, bayou, ditch etc., and their point(s) of entry into the drainage artery.
- 11. Points at which structures or pipelines will cross drainage ditches, streams etc., within the development.
- 12. Locations of structures or other physical features on the development area to provide orientation as required during field inspection of the site.
- 13. Location of all existing drainage structures, utility lines, pipelines, and other underground features on the property and adjacent rights-of-way.
- 14. Location and dimensions of all proposed drainage easements and rights-of-way.
- 15. Location of major drainage arteries adjacent to or crossing the development.
- 16. Cross-section of detention facility.
- 17. Detention calculations in accordance with SECTION VI including volumetric calculations of detention provided.

- 18. Drainage area map of receiving system, if discharging to existing storm sewer system. Drainage area of receiving channel if discharging to open ditch or stream. Include calculations to prove capacity is available.
- 19. Copy of approved permit from TxDOT if draining to or impacting their system.
- 20. Copies of documents and letters of request for permission to cross privately held easements or rights-of-way and their approvals to do so.
- 21. Limits of 100-year and 500-year floodplain.

Drainage Plan Approval

The Waller County Engineer shall provide comments to the applicant as soon as possible after submittal.

At least seven working days prior to Waller County Commissioners Court regularly scheduled meeting, revised plans/Reports addressing all comments must be submitted to the Waller County's Engineer. If all comments have been addressed, the plan will be placed on that agenda.

At Waller County Commissioners Court meeting at which drainage plan approval is being considered, the original and one (1) copy of the plan must be submitted (the original will be returned for inclusion in the construction plans).

Time Limits of Approvals

Approvals shall expire within one (1) year if construction has not commenced within that time. In cases where approval is given for a master plan and only certain sections are built immediately, the master plan approval will be valid for five (5) years.

Upon written request, the County Engineer may grant extensions of approval for up to one (1) year. All requests for extensions must be approved prior to the expiration of the original approval. No more than one (1) extension will be granted.

Revisions to Drainage Plans and Reports

All revisions to either the approved drainage plan or plat must be approved by the County Engineer. The County Engineer may require a re-submittal of a drainage plan or Report dependent upon the character and extent of the changes made as determined by Waller County.

III. HYDROLOGY

Hydrology is the study of precipitation. Policy makers and engineers must study and understand hydrology because they are interested in designing and building structures and systems to safely convey and discharge precipitation runoff while minimizing the potential of flooding. They must determine how much water should be collected and conveyed or stored, how fast this process must take place, how much can be safely discharged without adversely impacting surrounding properties, and what are other effects of the development being considered. The following sections discuss specific parameters and methods to be used in analyzing proposed developments in the unincorporated areas of Waller County.

Storm Frequency

All drainage improvements shall, at the minimum, be designed for the following storm frequencies. The return intervals listed here are minimums, and the individual design engineer or Waller County may choose to exceed these minimums given site specific requirements or constraints.

Table A

Type of Facility	Return Interval Storm
Closed Conduit Storm Sewers (for new developments)	2-year
County Ditch Culverts (serving less than 100 acres)	5-year
County Ditch Culverts (serving 100 to 250 acres)	25-year
County Ditch Culverts (serving 250 acres or more)	50-year
Bridges crossing County Ditches	100-year
Major Ditches and County Channels	100-year
Detention Facilities	100-year

Peak Storm Runoff Rates

The Rational Method can be used for determining peak runoff flow rate for both existing and proposed conditions. These peak runoff rates are used to estimate the impact of development and the conveyance requirements for drainage improvements. This method is applicable for small to medium drainage areas (generally less than 640 acres) where the flow domain is typically overland sheet flow or shallow surface ditch flow. Other methods should be used to estimate peak runoff rates for

larger areas or those served by well defined channels where flow routing in defined channels may be significant. The Rational Method takes the following form:

$$Q = C_f * (C * I * A)$$
 Where:

Q = Peak Runoff Flow Rate (cfs)

C = Runoff Coefficient, See TABLE D

 C_f = Frequency factor (the product of C_f and C should not exceed 1.0)

A = Area of drainage basin being studied (acres)

I = Rainfall Intensity of the design storm (inches/hour)

Frequency Factor (C_f)

The Frequency Factor is used in the Rational Method to scale the magnitude of the peak runoff in relationship to the return interval of the storm consistent with observed runoff data. This adjustment factor is used to account for the effects of antecedent moisture conditions that are generally associated with the less frequent storms. Appropriate values of $C_{\rm f}$ are presented in the following table.

Table B

Storm Frequency	Frequency Factor (Cf)
10	1.00
25	1.10
100	1.25

The product of C_f and C used in the Rational Method should not exceed 1.0.

Basin Time of Concentration (T_c)

The storm rainfall Intensity used in Rational Method will be selected based upon the return interval of the storm to be used (specified in the Storm Frequency Table above), and the duration of the storm to be used (based on the study basin's time of concentration). Time of Concentration ($T_{\rm c}$) is defined as the length of time it takes a drop of water to travel from the most hydraulically remote portion of the drainage basin to its outlet. $T_{\rm c}$ is a property of the drainage basin reflective of its area, shape, surface gradient, land use, land cover, and soil type. $T_{\rm c}$ (in minutes) may be estimated from the following equation:

 $T_c = Length/(Velocity * 60) + 10$

Where:

Length = Flow distance (feet)

Velocity = Flow velocity (fps) [see following table]

Table C

Flow Condition	Representative Velocities
Shallow overland flow in	0.25 to 0.50 fps
undefined channels	
Flow in street curb & gutter or	0.75 to 1.25 fps
road ditches	
Flow in shallow ditches	1.5 to 3.0 fps
Flow in defined channels	2.0 to 4.0 fps
Flow in closed conduit storm	3.0 to 5.0 fps
sewers	

The constant value of 60 in this equation is used to convert seconds to minutes and 10 is used as an estimate of initial delay between the start of rainfall and development of actual surface runoff. This method can be applied fairly accurately to large and small basins with either undeveloped or developed surfaces. However, the designer must specify the flow condition and estimated flow velocities for each flow domain on the site (i.e., the first 100' is overland flow followed by 250' in a gutter followed by 400' in closed conduit, etc.) and estimate time of concentration as the sum of all these individual flow conditions. The flow path used as the basis of this calculation should be clearly denoted on the plans with the associated design calculations.

Another method that can be used to estimate time of concentration for developed areas (i.e., storm sewer projects) is in the following form:

$$T_c = 10*(A)_{0.1761} + 15$$
 Where:

A = Drainage Basin area (acres)

This method accurately estimates T_{c} for sewered projects, however it tends to underestimate actual T_{c} for basins with significant overland flow or open ditch flow, and therefore may overestimate peak runoff flow rates for these basins.

Alternative methods for estimating the basin's time of concentration will be accepted for review by Waller County, and may be allowed for use if the method's applicability to a specific situation warrants its use over the methods presented.

Storm Intensity (I)

For small watersheds and individual developments, the storm intensity should be based upon the time of concentration of the basin being analyzed. For example, in the design of a detention facility serving a basin with a 2-hour time of concentration, an

Intensity for a 100-year, 2-hour storm should be selected for use in the analysis.

For large watersheds and regional studies, use a 24-hour duration storm for the analysis and design. Appropriate design storm intensities are shown in TABLE F for various return interval storms.

IV. HYDRAULICS

Hydraulics is the study of fluid flow behavior. Policy makers and engineers must study and understand hydraulics because they are responsible for designing and constructing conveyance and storage facilities capable of managing storm water runoff in a safe and effective manner while reducing the potential for flooding. The following sections discuss specific methods and parameters to be used in analyzing proposed developments in Waller County's service area.

Open Channel Flow

The vast majority of conveyance capacity within Waller County's service area is located in the network of open channels that Waller County builds and maintains. The Chezy-Manning equation will be used to estimate a ditch's conveyance capacity. This equation is in the following form:

Q = 1.486/n * A * R^{2/3} * S^{1/2}

Where:

n = Manning's Roughness Coefficient (unitless)

A = Flow Cross-sectional area (sf)

R = Hydraulic Radius (ft)

S = Slope of the Hydraulic Grade Line (ft/ft)

Typical values for Manning's 'n' are included in TABLE E. The flow area (A) is estimated from the ditch cross-section, and is the area that will be conveying water (also called the wet area). The hydraulic radius is calculated as the wetted area divided by the wetted perimeter. The wetted perimeter is defined as the length of water/surface interface around the perimeter of the wetted area (does not include the water/air interface length). For open channels, the slope of the hydraulic grade line is estimated to be the same as the ditch slope.

Closed Conduit (Pipe) Flow

The Chezy-Manning equation presented earlier is also applicable for estimating flow capacity for closed conduits (i.e., pipes). There are some important distinctions to remember, including:

• Manning's 'n' for pipe materials are significantly different (i.e., smaller) than those for bare earth or vegetative surfaces. See TABLE E for appropriate 'n' values. • The assumption of hydraulic grade line slope being approximately equal to the pipe slope is only valid under free flow conditions. Once the pipe is full and experiences surcharge conditions, the hydraulic grade line slope will increase as flow increases.

V. DETENTION FACILITIES

To meet Waller County's requirements for zero net increase in runoff rates and no negative impacts due to new development, most projects will need to provide on-site detention facilities. Each detention facility should be designed based upon site specific parameters and constraints using accepted engineering methods. Waller County will not allow in-line storage within County ditches, channels, or streams. Additionally, the use of hydrograph timing as a substitution for detention on any project is prohibited. No approvals will be given by Waller County for any proposed development until the County Engineer has been satisfied that the proposed design meet Waller County's requirements. The following paragraphs describe general design requirements and allowable methods for generating appropriate designs.

The characteristics of an individual development may be such that additional calculations, plans, and details may be required both for proper review and for construction. The County Engineer shall notify the Developer or the Engineer as this need becomes evident.

General Requirements

As shown in the storm frequency table earlier, detention facilities will be designed to provide enough storage to accommodate a 100-year event for the sub-area it is intended to serve. Detention facilities may be designed to be wet (constant level ponds) or may be designed to drain completely. They must be designed and constructed with stable slopes (4:1), they must provide adequate access and maintenance berms around the entire perimeter (30' minimum), and they must have erosion control elements (i.e., backslope swales, drop pipes, slope pavement, etc.) as necessary to ensure a stable, low maintenance facility.

All detention facilities less than 2 acres in size must provide for 6 inches of freeboard between the projected 100-year water surface elevation and the top of the berm. All detention facilities over 2 acres must provide 1 foot of freeboard. Outfall structures must be designed to restrict outflow from the detention facility at a rate not to exceed the pre-developed conditions, and must include a controlled release mechanism to safely discharge runoff from storm events in excess of the 100-year design storm.

Detention storage may not be placed in road-side ditches or in curb-and-gutter streets in public or private easements and rights-of-way.

Volume Requirements

The following paragraphs describe allowable methods for use in determining storage volume requirements. This is not an exhaustive discussion of all methods, but will provide developers and engineers with a variety of tools for use in the unincorporated area of Waller County.

Coefficient Method

For small developments (less than 5 acres for commercial or 10 acres for residential), the developer may choose to use this simplified method for detention volume estimation. Using this method, the developer would provide detention storage using the following equation:

Storage = $0.65 * A_{dev}$

Where:

Storage = Detention volume required (ac-ft), $A_{\text{dev}} = \qquad \qquad \text{The area of the site that will have modified cover (acres).}$

Using this method, storage is only provided for the portion of the site that is being developed. For example, on a 4 acre commercial tract with 2.5 acres of building, parking and landscape areas, the developer would be required to provide (2.5 acres)*(0.65 ac-ft/ac) = 1.63 ac-ft of detention storage. This method will not be allowed where the total developed area (either proposed or in the future) will exceed 5 acres for commercial or 10 acres for residential developments. The outfall structures will be designed separately as discussed in later paragraphs.

Small Watershed Hydrograph Method (Up to 640 acres)

The storage requirements for detention ponds can be determined using the Small Watershed Method (also called Malcom's Method). This method is a hydrograph based method that compares an expected inflow hydrograph to an allowable outflow hydrograph to determine required storage volume. Using this method, the required volume of storage is equal to the maximum cumulative difference between the inflow and outflow runoff curves.

DETENTION FACILITY INFLOW HYDROGRAPH
The inflow hydrograph is constructed by calculating instantaneous flow rates using the following equations:

$$Q_i = Q_p/2 (1-\cos(\pi^*t_i/T_p)) \qquad \text{for } t_i \leq 1.25 T_p$$

And

$$Q_i = 4.34 * Q_p * exp(-1.3 * t_i / T_p)$$
 for $t_i > 1.25 T_p$

Where: $Q_i = instantaneous flow rate at time "i" [cfs]$

 Q_p = peak flow rate (Rational Method) [cfs] t_i = time interval "i" [minutes] T_p = time to peak [minutes]

In the equations listed above, the time to peak $(T_{\mbox{\tiny p}})$ is calculated by:

Time to peak $(T_p \text{ in minutes}) = V/(1.39*60*Q_p)$

Where: $V = \text{volume of runoff } [ft^3]$

The total volume of runoff generated by the design storm event is the amount of rain that falls upon the watershed minus loses attributable to surface storage, soil infiltration, evaporation & transpiration, etc. For the purposes of projects within County jurisdiction, designers shall use a cumulative depth of excess rainfall consistent with the nearest station from NOAA for a 100-year, 24-hr event. For example, the Katy area is 16.00 and the Hempstead area is 14.8 inches.

Therefore, the total runoff volume is calculated by multiplying the cumulative depth of excess rainfall for the design storm event by the watershed area. In no case shall the detention storage rate be less than 0.55 ac-ft per acre.

DETENTION FACILITY OUTFLOW HYDROGRAPHS

Outflow hydrographs are constructed by determining the capacity of the outfall structure under incremental surcharge conditions. A table is generated that contains the estimated outfall rate for the proposed structure given increasing depths of ponding in the detention facility. To determine appropriate detention design, the engineer will provide a mass-balance for water in the detention facility (i.e. change in storage of the system equals the volume of water flowing in minus the volume of water flowing out) for several incremental time steps covering the duration of the storm event. The minimum storage requirement will equal the maximum cumulative storage determined in the time step analysis; however, the minimum shall not be less than 0.55 ac-ft per acre.

The Small Watershed Method is dependent upon the Rational Method for estimation of the peak flow rate, so it should only be used for basins of less than 200 acres where there is no well defined channel and any flow routing can be considered negligible.

HEC-HMS / HEC-RAS Computer Modeling

For basins over 640 acres in size, Waller County will require a HEC-HMS hydrograph analysis covering the site and the adjacent parts of the watershed utilizing Atlas 14 rates. This analysis should verify that the proposed improvements will not increase runoff rates anywhere in the system and therefore will have no negative impacts on adjacent properties. The engineer must submit a complete design report with sufficient detail (program input, program output and discussion of methods and assumptions used) for Waller County staff to review. Before beginning this type of analysis, please check with Waller County to receive the most current baseline HEC-HMS model of the area for development (if one is available). In no case shall the detention storage rate be less than 0.55 ac-ft per acre. Hydrograph timing will not be accepted as a substitution for detention.

Outfall Restrictor Design

The outfall structure is an important design component of the detention facility. The design of the outfall structure can be as simple as a single pipe segment, and can be as complex as multiple pipes with differing diameters at staggered elevations with overflow weirs and flow orifices. The following paragraphs describe ways to estimate flow conveyance of several flow control structures.

Outflow Rate and design

To comply with Waller County policy to avoid increasing flood risks or flood hazards, maximum allowable outflow rates from

detention basins are restricted to the pre-development flows from the 100-year, 25-year and 10-year Storm, 24-hour events.

If a downstream channel has less capacity than a 10 year event, also restrict the outflow to the amount the pre-development project site contributes to the channel when it is flowing full or at its flooding threshold.

When detention basin modifications are necessary to accommodate a proposed storm sewer outfall or a proposed development, design the modifications such that the 100-year, 25-year and 10-year Storm, 24-hour events water surface profiles in the detention basin and downstream channels are not increased above existing conditions.

If the outflow is into a roadside ditch or storm sewer, restrict the maximum allowable outflow to the rate allowed from the proposed site development using criteria adopted by the jurisdiction responsible for the roadside ditch or storm sewer.

Orifice

One of the most simple flow control structures is an orifice. An orifice is a two-dimensional flow structure (i.e., a drilled hole in a concrete wall, a hole in plate steel or a very short section of pipe) with an estimated conveyance capacity dependent upon the difference in water elevations from one side of the orifice to the other and the orifice opening area. The general equation for estimating flow through an orifice is as follows:

$$Q = C * A * (2 * q * H)^{1/2}$$

Where:

Q = Orifice flow capacity (cfs)

C = Orifice coefficient (unitless) [use 0.8]

A = Orifice opening area (sf) g = Gravitational acceleration constant (32.2 ft/s²) H = Differential head across the orifice (ft)

For the design head differential (H) use the 100-year water surface elevation in the detention facility minus the 25-year water surface elevation in the receiving ditch (if known). If discharging directly into a roadside ditch or a storm sewer, use the difference between the 100-year water surface elevation at the entrance and the centroid of the orifice in feet when orifice is partially submerged. The orifice should generally be greater than 6" diameter to reduce problems with clogging and blockage.

Outfall Pipe

The engineer may use one or more a pipe sections as flow control devices. The conveyance capacity of the pipe(s) can be estimated using the Chezy-Manning equation discussed earlier. In using this method, the slope of the hydraulic grade line is equal to the head differential across the structure divided by the length of the pipe section. For the design head differential use the 100-year water surface elevation in the detention facility minus the 25-year water surface elevation in the receiving ditch (if known). If discharging directly into a roadside ditch or a storm sewer, use the difference between the 100-year water surface elevation at the entrance and the centroid of the orifice in feet when orifice is partially submerged. The restrictor pipe shall not be less than 6" in diameter.

Overflow Weir

An overflow weir can be used on an outfall structure to restrict and regulate outflow. One of the biggest advantages of this outfall structure is that they do not have a finite conveyance capacity, and can therefore be used for emergency overflows to control larger than 100-year flows.

There are many types of weir designs to choose from when designing an outfall structure, and each has a slightly different equation for estimating flow capacity. One of the simplest to design and construct is a Cipoletti weir consisting of a horizontal weir (of width B) with triangular weirs on either side (at 4:1 slopes) and a depth of flow of H feet. Capacity of a Cipoletti weir can be estimate by the following equation:

Q = 3.367 * B * H^{3/2}

Where:

Q = Weir capacity (cfs)

B = Weir length (ft)

H = Depth of flow across weir (ft)

VII. DESIGN PARAMETERS

The proper hydraulic design of channels is of primary importance to insuring that nuisance drainage conditions, flooding, sedimentation and erosion problems do not occur or the frequency of their occurrence is at an acceptably low rate. The following minimum design standards shall be applied to construction of new or reconstruction of facilities.

Design Frequency

New facilities shall be designed and constructed to contain and safely convey runoff from the 100-year frequency storm when at all feasible to do so. Consideration must be made for the capacity of existing channels downstream, and no improvement shall be made that increase the frequency of downstream flooding.

Design Flow Velocities

Excessive flow velocity can cause erosion problems, may pose a threat to bank stability and may create safety problems. Additionally, velocities that are too low may allow sediment deposition resulting in loss of channel capacity. Generally, design flow velocities in unlined open channels (for 100-year flows) should be between 2 and 5 fps. Flow velocities in concrete lined channels may increase to be between 5 and 8 fps.

Ditch Channel Slope

Ditches shall have a minimum constructed channel slope of 0.05% to provide for the minimum velocities noted earlier. Excessive slopes may unnecessarily increase the potential for erosion of banks and undermining of bridge and culvert structures, therefore maximum slopes should generally not exceed 1.00%. In areas of steep topography, channel drop structures may be required to limit channel invert slopes.

Ditch Side Slopes

In grass lined channels, maximum side slopes shall be 4:1 (horizontal:vertical). Variance from these criteria may be granted by the County Engineer to accommodate site specific issues, but 3:1 slopes should be the absolute steepest unlined slope proposed. Side slopes for concrete lined channels shall be based on field conditions and shall be site specific.

Ditch Bottom Width

The bottom width for ditches should generally be no less than 2 feet. A larger bottom width may be required to meet other parameter requirements including ditch capacity, design velocity, etc.

Ditch Horizontal Curves

In general, centerline curves for grass channels should be as gradual as possible and should have a radius greater than three times the ultimate ditch top width. Smaller curvature radii can be allowed with adequate slope paving as approved by the County Engineer.

Ditch Confluences

The angle of intersection between the tributary and main channel should be between 15° and 45° (with an optimal value of 30°). Angles in excess of 90° will not be permitted.

Ditch Transitions

Expansions and contractions should be designed to create minimal flow disturbance and thus minimal energy loss. Design consideration must be given to reducing erosion potential and turbulent flow characteristics at ditch transitions.

Ditch Drop Structures

When introducing flow into ditch main channel from shallow surface swales, the designer must include drop pipes to reduce the erosion potential at the confluence. Drop structures shall be appropriately sized for the area being served; with a discharge elevation of 12" above the main channel flowline.

Ditch Depth

Roadside ditches shall designed such that the maximum depth from pavement edge to the flowline of the ditch is no more than four (4) feet at any point.

Concrete Lined Channels

As field conditions necessitate, concrete lined channels may be required to provide adequate capacity or erosion protection for less than optimum drainage easement widths. Design of concrete lined channels will be considered by Waller County on a case-by-case basis.

Detention Facilities

Detention facilities shall

have:

- Minimum 30-foot wide maintenance berm on all sides.
- Maximum side slopes no steeper than 4:1(h:v).
- Bottom of facility shall have a Minimum 1% cross slope.
- Facility shall have a concrete pilot channel.

Variance from these criteria may be granted by the County Engineer to accommodate site specific issues, but 3:1 side slopes should be the absolute steepest unlined slope proposed.

Table D
Rational Method 'C' Values

Land Use or Land Cover	Rational Coefficient 'C'
Raw, undeveloped acreage	0.20
Improved, undeveloped acreage	0.30
(i.e., mowed, filled, graded,	
etc.)	
Park Land	0.40
Residential - 1 acre lots or	0.40
larger	
Residential - ½ to 1 acre lots	0.45
Residential - less than ½ acre	0.55
lots	
Multi-Family	0.75
Commercial/Industrial	0.90

Channel/Pipe Material	Manning's 'n'
Plastic Pipe (PVC & HDPE)	0.013
Clean Cast Iron	0.014
Concrete	0.013
Corrugated Metal	0.025
Smooth Bare Earth	0.018
Natural Channels (good	0.025
condition)	
Natural Channels (stones &	0.035
weeds)	
Natural Channels (poor	0.060
condition)	
Rip-rap	0.035

 $I = b/(T_c + d) e$

Storm Frequency	е	b	d
2-year	0.7962	63.3769	12.3799
5-year	0.7737	71.4160	12.0518
10-year	0.7521	75.9155	11.7528
25-year	0.7252	81.2936	11.4671
50-year	0.7012	82.4987	10.9481
100-year	0.6829	86.2332	11.1001

Exhibit K

Executive Summary

The Plow Tract development is proposed on the northwest corner of Bartlett Road and Franz Road in Waller County, Texas. 2028 Projected Conditions (50% Build Out) will include 1,500 single-family homes and is assumed to be completed in 2028. 2033 Projected Conditions will include 3,000 single-family homes and is assumed to be completed in 2033. Access to the proposed site is provided by via existing Bartlett Road, Morton Road, FM 2855 and via proposed extension of Franz Road and Schlipf Road. Bartlett Road is planned to be abandoned from proposed Roadway 1 to Franz Road.

There is a planned TxDOT project to widen FM 2855 from FM 529 to US 90 from a two-lane roadway to a five-lane roadway with a two-way left-turn lane (TWLTL). Construction is planned to begin in 2030; therefore, FM 2855 widening is assumed to be completed for all 2033 and 2038 analysis conditions.

There is a planned TxDOT project to widen US 90 from I-10 (west of the site) to FM 1463 from a two-lane roadway to a four-lane roadway with a raised median. Construction is planned to begin in 2031; therefore, the US 90 project is assumed to be completed for all 2033 and 2038 analysis conditions.

There is a planned City of Katy project to complete Franz Road from Cane Island Parkway to Innovation Drive. The project includes building a full boulevard and installing a traffic signal at the intersection of Franz Road and Cane Island Parkway. The Franz Road project is assumed to be completed for all 2028, 2033, and 2038 analysis conditions.

There is a planned City of Katy Project to extend Cane Island Parkway to the north to intersect with Bartlett Road. The project is still in the planning phase and no completion date is available. The Cane Island Parkway project is not assumed to be completed for any analysis conditions for the purposes of this TIA.

Capacity Analysis

Capacity Analysis was performed at the study intersections for 2023 Existing Conditions, 2028 Background Conditions, 2028 Projected Conditions, 2033 Background Conditions, 2033 Projected Conditions, 2033 Mitigated Conditions, 2038 Background Conditions, and 2038 Projected Conditions using Synchro 11, a traffic modeling and capacity analysis software. Trip generation software, Online Traffic Impact Study Software (OTISS), and the ITE Trip Generation Manual, 11th Edition were utilized in the analysis of the proposed development to predict the number of trips generated by the proposed development. Seconds of Delay for each approach at the study intersections were used to determine a Level of Service (LOS).

Traffic Signal Warrant Analysis

The 2011 Texas Manual on Uniform Traffic Control Devices (TMUTCD) defines warrants for the installation of a Traffic Signal. A Traffic Signal Warrant Analysis (TSWA) was performed for various build out conditions and includes Warrant 1: Eight Hour and Warrant 2: Four Hour. A TSWA was performed at the intersections of FM 2855 and Morton Road, Morton Road at Schlipf Road, Franz Road at Schlipf Road, and Franz Road at FM 2855. Traffic signals are warranted at the following intersections: Franz Road at Morton Road, Morton Road at Schlipf Road, Franz Road at Schlipf Road and FM 2855 at Franz Road.



Exhibit K

Access Management

Right turn lane analysis was performed on TxDOT roadways for proposed roadway connections in accordance with Table 2-3 of the *Texas Department of Transportation's Access Management Manual* for 2033 Projected Conditions. Right turn lanes were warranted on FM 2855 at Franz Road and at Roadway 3.

Left turn lane analysis was performed on TxDOT roadways for proposed roadway connections in accordance with Figure 3-8: Suggested Left-Turn Warrants Based on Results from Benefit-Cost Evaluations for Intersections on Two-Lane Highways in Rural Areas, in the TxDOT Roadway Design Manual. Left turn lanes were warranted on FM 2855 at Morton Road, at Franz Road, at Roadway 3 and at Roadway 4.

Left turn lane analysis was performed on county roadways for proposed roadway connections in accordance with NCHRP Report 348. Left turn lanes were warranted on Morton Road at Schlipf Road, at Bartlett Road, at Roadway 2, and at Roadway E.

Recommendations

Approval is recommended with the following recommendations for the Plow Tract Development:

Node #	Recommendation	Responsible Party	Suggested Time of Implementation
1	A traffic signal at the intersection of FM 2855 and Morton Road is warranted in 2023 Existing Conditions; convert the existing flashing beacon to a full operational signal once a development roadway connection is made to Morton Road.	Waller County	At time of first connection to Morton Road
n/a	Construct Franz Road as a boulevard section including left turn lanes at median opening for development roadway connections.	Developer	N/A
n/a	Construct Schlipf Road as a boulevard section including left turn lanes at median opening for development roadway connections.	Developer	N/A
2	Install eastbound and westbound left turn lanes in accordance with Waller County standards on Morton Road at Schlipf Road when the Schlipf Road connection is made.	Waller County	At time of connection construction
3	Install eastbound and westbound left turn lanes in accordance with Waller County standards on Morton Road at Bartlett Road once a development roadway connection is made to Bartlett Road.	Waller County	At time of connection construction
14	Install a westbound left turn lane in accordance with Waller County standards on Morton Road at Roadway 2 when the connection is made.	Developer	At time of connection construction
15	Install eastbound and westbound left turn lanes in accordance with Waller County standards on Morton Road at Roadway E when the Roadway E connection is made.	Developer	At time of connection construction
16	Install a northbound right turn lane and a southbound left turn lane in accordance with TxDOT standards on FM 2855 at Franz Road when the connection is made.	Developer	At time of connection construction



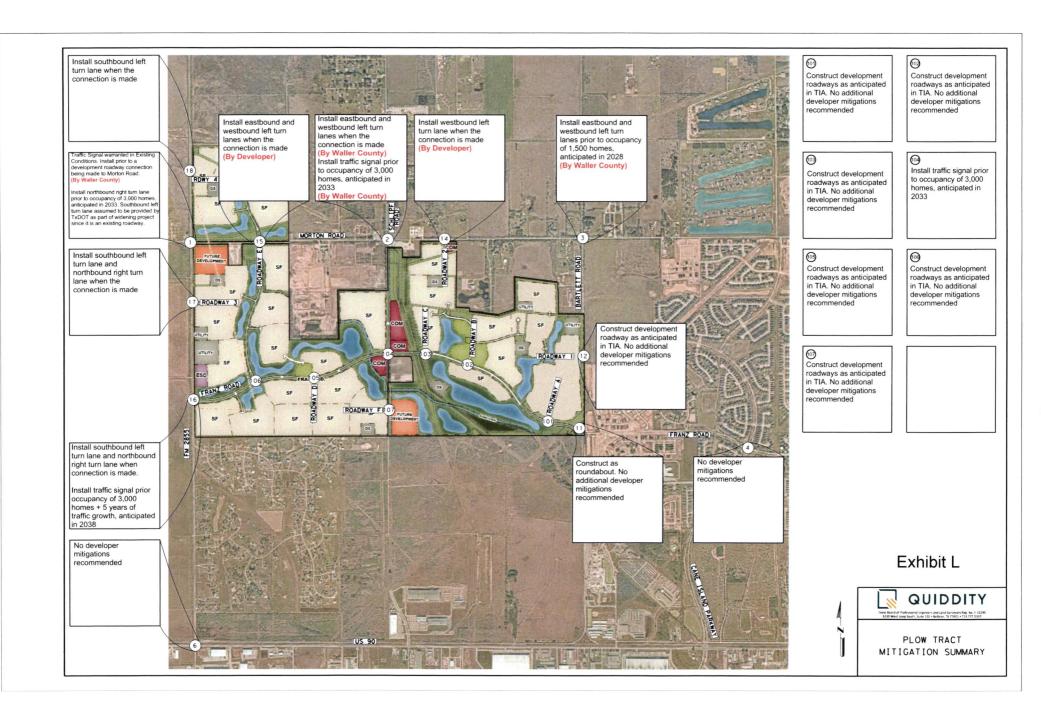
Exhibit K

17	Install a northbound right turn lane and a southbound left turn lane in accordance with TxDOT standards on FM 2855 at Roadway 3 when the connection is made.	Developer	At time of connection construction
18	Install a southbound left turn lane in accordance with TxDOT standards on FM 2855 at Roadway 4 when the Roadway 4 connection is made.	Developer	At time of connection construction
1	Install a northbound right turn lane in accordance with TxDOT standards on FM 2855 at Morton Road prior to occupation of 3,000 homes which is anticipated in 2033.	Developer	2033
2	A traffic signal at the intersection of Morton Road and Schlipf Road is warranted in 2033 Projected Conditions; install a traffic signal at the intersection prior to occupation of 2,700 homes, which is anticipated in 2032.	Waller County	2032
104	A traffic signal at the intersection of Franz Road and Schlipf Road is warranted in 2033 Projected Conditions; install a traffic signal at the intersection prior to occupation of 3,000 homes which is anticipated in 2033.	Developer	2033
16	A traffic signal at the intersection of FM 2855 and Franz Road is warranted in 2038 Projected Conditions; install a traffic signal at the intersection after occupation of 3,000 homes and 5 years of additional growth has occurred in the project area, which is anticipated in 2038.	Developer	2038

It is recommended that TxDOT consider including a westbound right turn at the intersection with FM 2855 lane as part of the US 90 widening project.

All improvements associated with TxDOT roadways should be coordinated with TxDOT prior to permitting and construction to determine if applicable ROW could be donated and the recommended improvements constructed as part of the FM 2855 widening project.





1. ALLEY-LOADED HOME



AERIAL VIEW



- *DRIVEWAY ACCESS FROM ALLEY ONLY *REDUCED SETBACKS
- SIMILAR PRODUCT: CROSS CREEK RANCH

2. URBAN HOME



AERIAL VIEW



- *FRONT OR REAR ACCESS
 TO GARAGE
- *REDUCED SETBACKS
- *ZERO LOT SIDE SETBACKS
 *NARROW LOTS

SIMILAR PRODUCT: IMPERIAL

an exhibit for

GRANGE ±1,129.77 ACRES OF LAND

repared for

KATY 2855 DEVELOPMENT LLC

META

24285 Katy Freeway, Ste. 525 Katy, Texas 77494 Tel: 281-810-1422

> MTA-54007 DECEMBER 6, 2023

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TAPAG DESIGN W



RESIDENTIAL SPECIALTY EXAMPLES

3. DUPLEX

TANAGE PESSON



AERIAL VIEW



- *SEPARATED DRIVEWAY ACCESS TO GARAGE
- *REDUCED SETBACKS
 *SHARED LOT LINE
- COMMON WALL

SIMILAR PRODUCT: CROSS CREEK RANCH

4. PATIO HOME



AERIAL VIEW



- *INDIVIDUAL DRIVEWAY ACCESS TO GARAGE *REDUCED SETBACKS *ZERO LOT SIDE SETBACK
- (ONE SIDE ONLY)
 SIMILAR PRODUCT:
 CROSS CREEK RANCH

an exhibit for

GRANGE ±1,129.77 ACRES OF LAND

prepared for

KATY 2855 DEVELOPMENT LLC

META

24285 Katy Freeway, Ste. 525 Katy, Texas 77494 Tel: 281-810-1422

> MTA-54007 DECEMBER 6, 2023



RESIDENTIAL SPECIALTY EXAMPLES

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5. QUADS / CLUSTER



AERIAL VIEW



- *GARAGE ACCESS FROM MOTORCOURT ONLY
- *REDUCED SETBACKS
- *HOME ORIENTATIONS MAY DIFFER BY BUILDER

SIMILAR PRODUCT: ELYSON

6. TOWNHOME



AERIAL VIEW



- FRONT OR REAR
 GARAGE ACCESS
- *REDUCED SETBACKS
 *ZERO LOT SIDE SETBACK
 *SHARED WALLS
- *SHARED WALLS
 *NARROW LOTS

SIMILAR PRODUCT: BRIDGELAND

an exhibit for

GRANGE ±1,129.77 ACRES OF LAND

prepared for

KATY 2855 DEVELOPMENT LLC

TA K

24285 Katy Freeway, Ste. 525 Katy, Texas 77494 Tel: 281-810-1422

> MTA-54007 DECEMBER 6, 2023



RESIDENTIAL SPECIALTY EXAMPLES

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