

CITY OF WESLACO

A REGULAR MEETING OF THE PLANNING & ZONING COMMISSION JULY 25, 2018, 8:00 A.M. LEGISLATIVE CHAMBERS 255 S. KANSAS AVENUE

David Hernandez, Chairman Lonnie Berry, Vice-Chairman Randy Summers, PZ Commissioner Jose Treviño, PZ Commissioner Jim Forward, PZ Commissioner Adrian Torres, PZ Commissioner Miles Bullion, PZ Commissioner



Planning & Zoning Commission Standardized Agenda Request Form

Date of Meeting:	Agenda Item No. (to be assigned by PCE):			
July 25, 2018	II. A.			
From:	Director/City Franciscon on help of Days Frank			
	Director/City Engineer, on behalf of Reyna Family			
Development.				
Subject/Agenda Item:	oliminan, Diet for the Amended Diet of Let 1 through 22			
	eliminary Plat for the Amended Plat of Lot 1 through 32			
1	s land out of Plaza Diez Quince Subdivision, Weslaco, roximately 400 feet east of FM 1015. Possible Action.			
Discussion/Overview:	TOXITIALETY 400 TEEL EAST OF FINE TO 15. POSSIBLE ACTION.			
1	vision is inside the City of Weslaco city limits. This			
· · ·	by City of Weslaco through an existing 8" waterline and			
1				
1	sewer services through an existing 8" sewer line. The property is within a Flood Zone "B". Owner is requesting variance for drainage dedication requirements and alley paving requirements.			
	· · · · · · · · · · · · · · · · · · ·			
If item requires Publication Notice, provide date and periodical of publication; indicate if				
comments received from letters mail				
Staff recommendation for Commission	· · · · · · · · · · · · · · · · · · ·			
	ance with the ordinance for the variance requests.			
Additional Action Prompted:				
[X] Mayor's Signature [] Public Hearing [] Budget Amendment				
[] Resolution [] Ordinance – First Reading [] Ordinance – Final Reading				
Advisory Review, (if any): (name of board/committee, date of action, recommendation): N/A				
If item previously considered, provide date and action by Commission: N/A				
Attachments,(if any):				
Application for Subdivision platting, Staff's comments, Drainage Report, Subdivision plat and				
Utility layout.				
Responsibilities upon Commission's Action:				
Planning staff will advise applicant.				







SUBDIVISION PLATTING APPLICATION

Planning & Code Enforcement Dept.

The Planning & Zoning Commission meets every 1st Wednesday of each month at $5:30~\mathrm{pm}$.

The City Commission meets every 1st and 3rd Tuesday of each month at 5:30 pm

FILE NO. <u>SUB 18-0</u>0014

This form shall be completed by the Property Owner or Applicant and submitted to the Planning Department along with the required number of copies of the respective plat, review fee and all other required information listed below and in the Subdivision Ordinance. The submittal of an application does not constitute acceptance for processing until the staff reviews and determines the application is complete.

		STAFF U	SE ONLY	
☐Single Lot Variance	☐Minor Plat	□Planned U	nit Development	☐Standard Subdivision
GENERAL INFORM	ATION			
Name of Subdivision:	Amended Pla	t of Lot 1 - L	ot 32 Plaza Diez	z Quince Subdivision
Location: NEC of into	ersection of N	/lile 6 North	and FM1015	
Legal Description: BEII	NG 9.24 ACRES O	UT OF PLAZA D	EZ QUINCE SUBDIVI	SION, AN ADDTITION TO THE CITY
OF WESLACO, HIDALGO	COUNTY, TEXAS	, AS PER MAP F	RECORDED IN VOLU	ME 55, PAGE 103, M.R.H.C., TEXAS
Is subdivision inside cit	y limits?	YES	⊐ NO	
If subdivision is in the	ETJ, indicate?⊏	3.5 Mile	5 Mile	
If no submit letter of A	nnexation (Cont	iguous or Con	sensual)	
Existing Zoning: R-21	Ouplex & Apa			
Existing Land Use: Va	cant	Proposed I	and Use: Single	Family Residential
Number of Lots Propos	ed: <u>32</u>	Gross Acre	age: 9.24 Acres	
Title Report Submitted:	□ YES	■ NO		
OWNER INFORMAT Owner's Name: Reyna Fa	mily Development		Telephone:	(956)477-3962
Address: 702 W. Exp	ressway 83		Fax:	national state of the state of
City: Weslaco	State: TX	Zip: <u>78</u>	596 _{E-mail:}	
ENGINEER INFORM				/
Name: R. Gutierrez I	ngineering C	orp	Telephone:	(956)782-2557
Address: 130 E. Park	Ave		Fax:	
City: Pharr	State: TX	Zip: <u>78</u> 8	577 _{E-mail:} rgu	tierrez@rgec.net
255 S. KANSAS AVF.	WESTACO TEXAS 78	1596-6285 3 956-447	-3401 (Fax) 956-973-31	28 W WWW.WESIACOTX GOV

	Y PROVISIONS posed subdivision connect to:		
	☐ NO Water Provision: City of Weslaco		
■ YES	□ NO Wastewater Provision: City of Weslaco		
® YES	□ NO Electric Company: AEP		
	2 110 Brown Company.		
YES C	NO Phone Utility	■ YES □ NO Gas Utility	YES NO Cable Utility
Proposed	subdivision is in the following districts:		
YES C	NO Drainage District HCDD1	YES NO Irrigation Dis	trict HC&CCID9
Has the p	roperty been assessed as flat rate irrigable	property: □ YES 📙 NO	
Have Wa	ter Rights been conveyed to City/Water Su	ipplier? 💄 YES 🗆 NO)
attach an calculated	rritten proof of such assessment or that it estimate from the irrigation district of lunder Texas Water Code § 49.505.	the proportional water rig	
Tv & g \$33 On Pla	TALS REQUIRED FOR MINOR PLA (2) sets of plats folded and stapled (24 x 36) a rdelafuente@weslacotx.gov 50.00 Planning Review fee 11" X 17" reduced copy of plat tayout Existing & Proposed Easements Existing & Proposed ROW Existing & Proposed Drainage Easements Contours Flood Zones Adjoiners Existing street names ainage plans and calculations with engineer's seal Elevations Flood directional arrows Detention areas Street names of of ownership of the property eptic tank system required, submit soil evaluation a ter Rights associated with the property k Receipt for all taxing entities showing that taxes a	nd forward a copy in PDF forma	at to mhinojosa@weslacotx.gov
* Tw to <u>1</u> \$355.00 \$35 * One * Place	TALS REQUIRED FOR PRELIMINAL edve (12) sets of preliminary plat folded and nhinojosa@weslacotx.gov & rdelafuente@wesla 60.00 (one time fee for preliminary and finale 11" X 17" reduced copy of plat t Layout Existing & Proposed Forements	I stapled (24 x 36) and for cotx.gov	• •
<u>x</u> <u>x</u>	Existing & Proposed Easements Existing & Proposed ROW Existing & Proposed Drainage Easements		
255	S. KANSAS AVE # WESLACO, TEXAS 78596-6285 # 956-4	47-3401 x (Fax) 956-973-3128 x <u>ww</u>	W.WESLACOTX.GOV

	×Contours
	× Flood Zones
	<u>×</u> Adjoiners
	x Existing & Proposed street names
×	Utility Layout
	Existing & Proposed Utilities
	× Proposed Fire Hydrants
	<u>×</u> Adjoiners
	x Street names
×	Drainage plans and calculations with engineer's seal
	× Elevations
	Flood directional arrows
	×Detention areas
	× Street names
×	Proof of ownership of the property
N/A	If septic tank system required, submit soil evaluation report
	Water Rights associated with the property
×	Tax Receipt for all taxing entities showing that taxes are paid in full
N/A	Number of fire hydrants proposed for subdivision
N/A	Trip Generation Worksheet
SUBI	WITTALS REQUIRED FOR FINAL (P & Z) **Will not apply to Single Lot Variance** _Twelve (12) sets of plans FOLDED & STAPLED (24 x 36) & PDF copy with all corrections _Plats to be sealed by Professional Engineer _Approved Drainage Report _Traffic Impact Analysis (If required)
CITO	MITTALS DECLIDED FOR FINAL (City Commission)
SUDI	MITTALS REQUIRED FOR FINAL (City Commission)
	One set of 8 ½ x 11 of plat and utilities with all corrections done
SORI	MITTALS REQUIRED FOR PRE-CONSTRUCTION MEETING
***************************************	_Seven (7) full sets of construction plans 24 x 36 and one (1) 11 x 17 with plan & profile.
	Engineering cost estimates for 3% geotechnical testing fees and 2% inspection fees
	Notice of Intent
	SW3P

STIRN	MITTALS REQUIRED FOR RECORDING OR HIDALGO COUNTY PLANNING
SODI	
	_Electronic file of final plat and as-builds
	_Reproducible plat to be recorded with all required signatures
	_3% geotechnical testing fees or negotiated Material Testing fee by City, whichever is higher
	_2% inspection fee
	Park Fees
	Checks or Receipts: HCCID #9; HCDD #1; County Clerk
***************************************	Tax certificates
	_Memo from engineering inspector releasing subdivision
	Water Rights associated with the property dedicated and assigned to City of Weslaco or
	payment of fees sufficient to meet the needs necessitated and attributable to development
	_30 Year Water and 30 Year Sewer Service Agreements
	Park dedication/Fees in lieu of
	
SUBN	AITTALS REQUIRED FOR RECORDING BY SECURITY
~ ~ ~	Sealed engineering cost estimates
***************************************	Letter of Credit/Performance Bond/Escrow
	Terrer of Clean/Lettormance Doug/Escrow

** Any revisions requested would require resubmission of plats and reduced copy reflecting changes.

AUTHORIZATION AND ACKNOWLEDGEMENTS

I certify that I am the actual owner of the property described above and this application is being submitted with my consent (include corporate name if applicable); and the following person listed below is my authorized agent to act on my behalf.

I certify that the above information is correct and complete to the best of my knowledge. I understand that I must comply with all applicable local, state, and federal regulations.

Owner Printed Name: Reyna Family Deve	Jopment	
Owner Signature:	Date	_{e:} July 17, 2018
R. Gutierrez Engineering Corp / Rami	ro Gutierrez, P.E.	is the authorized agent
Authorized Agent Signature:	£7	Date: July 17, 2018
Authorized Agent Printed Name: Ramiro Gutie	errez	
****************	**********	********
THIS PAGE	E FOR STAFF USE ONLY	
Date Received:Received	d By:Dai	e Paid
P & Z Commission Approval on Preliminary		
P & Z Commission Approval on Final Plat:		
City Commission Approval on Final Plat:		
Preconstruction Meeting Date:		
Pate Recorded:		
(<u> </u>	
-	·	***************************************
CITY OF WESLACD 956-968-3181		
REC#: 02405113 7/17/2018 4:26 PM OPER: LVALD TERM: 036 REF#: 5529 PAID BY:		
TRAN: 235.1000 PROCESSING FEE 9161 101-400-3200 PROCESSING FEE-ONLI 5.00CR		
TRAN: 203.0000 SUBDIVISION INSPECT 9161 101-400-1025		
SUBDIVISION INSPECT 350.00CR	-447-3401 ■ (Fax) 956-973-3128 ■ WM	W.WESLACOTX.GOV
Re TENDERED: 355.00 CHECK APPLIED: 355.00-		Please do not alter this application. Page 4
CHANGE: 0.00		

From: Javier Gutierrez [malto:javier@rgec.net]
Sent: Wednesday, July 18, 2018 8:16 AM
To: Mardoqueo Hinojosa scribinojosa@weslacotx.gov>, Rebekah M. De La Fuente < rdelafuente@weslacotx.gov>
Cc: raul.tessing.bddd.org: dannyreyna2148@gmail.com; rgutierrez@rgec.net; jorge.gonzalez@hcdd1.org; randall@hccid9.org; blanca@hccid9.org
Subject: FW: plaza 1015

Mr. Hinojosa,

Please see email below. It is a response from Mr. Randy Winston, HCCID9 General Manager, where he states that he will not be asking for additional right-of-way where the road/alley is already constructed. Please let us know if you will be needing anything else.

Regards. Javier Gutiérsez R. Gutlerrez Engineerin Firm Number; F-436 130 East Park Avenue Pharr, Texas 78577 (956)762-2557 Email: javier@resc.net

His emal and any life a monanter with a commander which to common belonging to the office of R. Guterrer Engineering Corporation which to confidenced and on legally printinged. This information is animated only for the medical information of a summer of the natural in subtractive. If you are not the natural information for any me whitesever is strictly probabiled. If you receive this message in error, please notify the sender at 0.00782 MeV or by email at affectivening and delete this emessage innoceasion from your computer. Thank you.

From: Blanca Garza https://discource-bent: Wednesday, July 18, 2018 7:59 AM
To: regularrez@spec.net; revier@repo.net Subject: FW; plaza 1015

Mr. Gutterrez.

Please sections

Thanks, Blanca Saraa



Blanca Normi Gavia
GIS Specialist
Eddigo & Cameron Countes Impation District #9
P.O. Ber 137
Mirrodea, Testa (1970)
976-975-0017 Far
blanca Bernoll ber

From: Randall Winston, P.E. [mailto:cardal@shccid9.org] Sent: Thursday, May 17, 2018 11:17 AM To: 'Blanca Garza' Subject: plaza 1015

Good Moring Blanca:

They are re-subdividing the section with the roads and alleys already installed. Ditch was widened previously for the detention. I would ask for additional ditch ROW on the West side were there is no road, but the section were the road and alley exists, no additional ROW needed.



Randall Winston, P.E. General Manager

Hidalgo & Cameron Counties Irrigation District #9

P.O. Box 237 Mercedes, Texas 78570 (956)565-2411

Randall@hccid9.org

This email has been checked for viruses by AVG notivities software away avg.com

DRAINAGE STATEMENT FOR AMENDED PLAT OF LOT 1 – LOT 32 PLAZA DIEZ QUINCE SUBDIVISION (9.24-ACRE RESIDENTIAL DEVELOPMENT) HIDALGO COUNTY, TEXAS

Prepared by



130 East Park Pharr, Texas 78577 Tel: 956-782-2557 Fax: 956-782-2558



Prepared April 25, 2018

R. Gutierrez Engineering Corporation T.B.P.E. FIRM: F486

I. PROJECT LOCATION1
II. FLOOD PLAIN
III. SOIL CONDITIONS
IV. PREDEVELOPMENT CONDITIONS
V. DEVELOPED CONDITIONS2
EXHIBITS
A. Subdivision Plat
B. FEMA Flood Insurance Map
C. Soil Survey of Hidalgo County
D. Storm Water Calculations

DRAINAGE STATEMENT FOR

Amended Plat of Lot 1 - Lot 32, Plaza Diez Quince Subdivision

I. PROJECT LOCATION

Amended Plat of Lot 1 – Lot 32 of Plaza Diez Quince Subdivision is a 9.24 acres of land out of Plaza Diez Quince Subdivision, Hidalgo County, Texas, as per map recorded in Volume 55, Page 103, Map Records of Hidalgo County, Texas. The subject property is located in the northeast intersection of FM-1015 (International Blvd) and Mile 6 North Road, approximately 429-ft east of FM 1015. Said property is currently located in the within the city limits of the City of Weslaco. The proposed subdivision will consist of thirty-two (32) residential lots. (Refer to Exhibit A)

II. FLOOD PLAIN

In accordance with F.E.M.A.-F.I.R.M. Map No. 480334 0525 B, Effective Date January 2, 1981, the subject tract lays in "Zone B", defined by FEMA as areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths of less than 1 foot or where the contributing drainage area is less than 1 square mile; or areas protected by levees from base. (Refer to Exhibit B).

III. SOIL CONDITIONS

A review of the Soil Survey of Hidalgo County (Refer to Exhibit C) indicates that about 68% of the tract lies in Hidalgo sandy clay loam (Map Unit #28) with a Plasticity Index between 11 and 22, the soil is well drained, permeability is at a moderate high to high, and it is within Hydrological Group "B". This area is also known to have a depth to water table of more than 80-inches. The rest of the tract lies in Racombes sandy clay loam (Map Unit #48) with a Plasticity Index between 8 and 22, the soil is moderately well drained, permeability is at a moderate high to high, and it is within Hydrological Group "B". This area is also known to have a depth to water table of about 42 to 72 inches (Refer to Exhibit C)

IV. PREDEVELOPMENT CONDITIONS

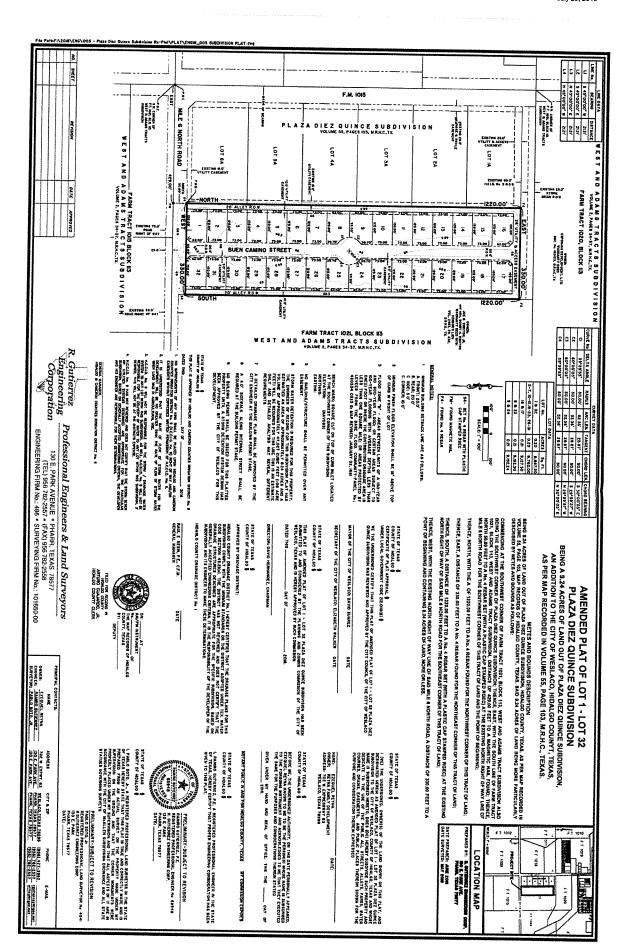
The runoff of the subject tract at the predevelopment conditions consisted of overland flow in a northerly direction with a terrain has a grade of approximately 0.15%. The excess runoff leaving the property was captured by Hidalgo County Irrigation District No. 9 drain ditch located north and adjacent of the subject tract of land. The total contributing 10-year existing storm water runoff from this site is approximately <u>9.57-cfs.</u> (Refer to Exhibit D).

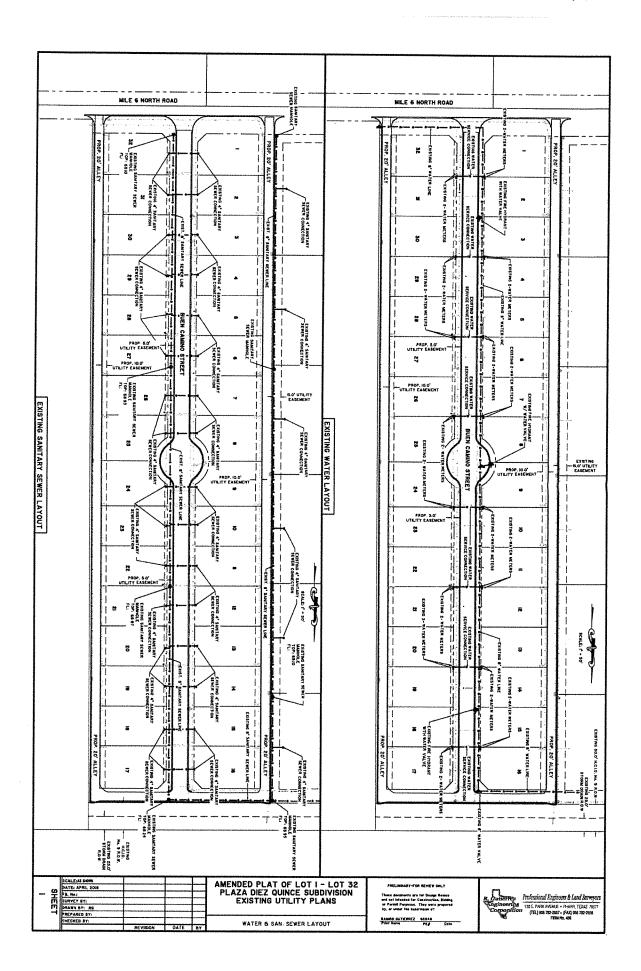
V. DEVELOPED CONDITIONS

The developed conditions for this subject tract will consist of thirty-two (32) lots residential lots subdivision. Development in the form of impervious pavement and buildings will increase the ultimate storm water runoff. The additional runoff will be conveyed by an existing storm drainage conveyance system consisting of curb and gutter roadway section, curb inlets and storm drainage pipes which will capture and convey the storm water runoff offsite and into the Hidalgo County Irrigation District No. 9 drain ditch. In accordance with the City of Weslaco and Hidalgo County Drainage District No. 1 (HCDD1), the peak runoff shall be maintained at the predevelopment conditions rate of <u>9.57-cfs.</u> The total developed 10-year runoff will be approximately <u>41.51-cfs</u> with an increase of 31.94-cfs. All of the excess runoff volume for the entire development is approximately <u>1.080 acre-feet (47.027 c.f.)</u> or 0.034 acre-feet (1,470 cf) per lot. Said volume will be detained offsite in the Hidalgo County Irrigation District No. 9 drain ditch which was widened to provide approximately 47,000 cf of storage volume for this development (Refer to Exhibit D).

EXHIBIT A
Subdivision Plat
&
Existing Improvements

R. Gutierrez Engineering Corporation T.B.P.E. FIRM: F486





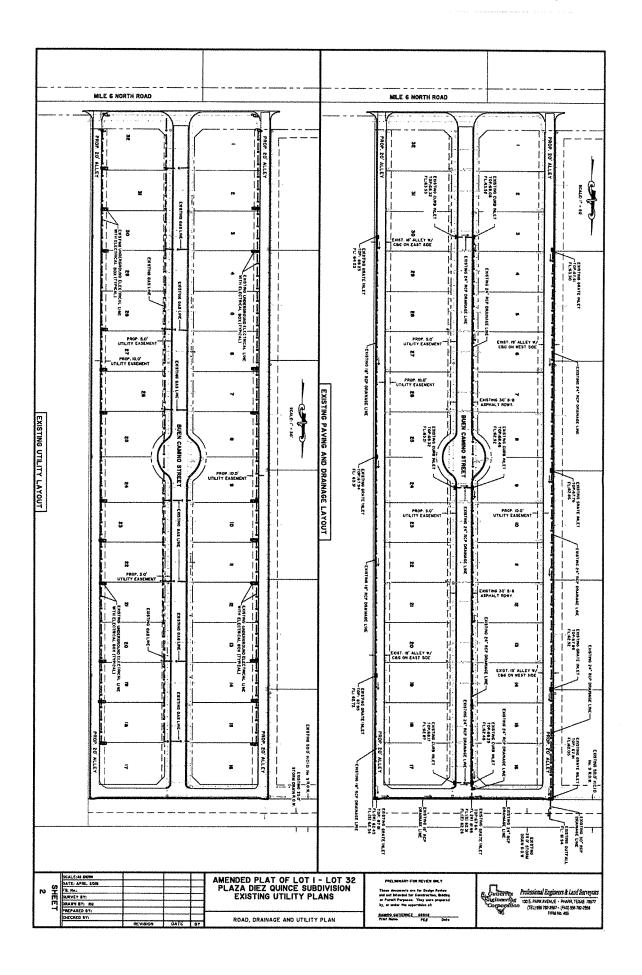
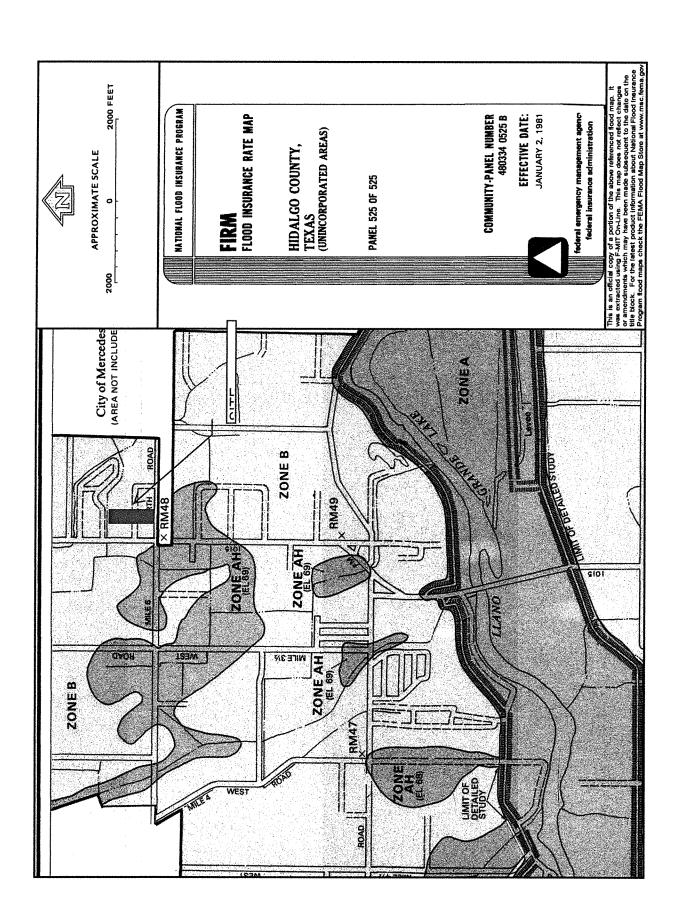


EXHIBIT B FEMA Flood Insurance Map (FIRM)



This is an official copy of a porton or the map does not reflect changes over extracted using F-MIT On-Line. This map does not reflect changes over amorphisms which may have been made subsequent to the date on the fittle block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gc 2000 FEET NATIONAL FLOOD INSURANCE PROGRAM **FIRM** FLOOD INSURANCE RATE MAP 480334 0525 B EFFECTIVE DATE: ederal emergency management agenc COMMUNITY-PANEL NUMBER JANUARY 2, 1981 federal insurance administration TEXAS (UNINCORPORATED AREAS) HIDALGO COUNTY, APPROXIMATE SCALE PANEL 525 OF 525 2000 Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with vertage depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading) Areas of 100-year flood; base flood elevations and flood hazard factors not determined. Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined. Areas of 100-year flood; base flood elevations and flood hazard factors determined. Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined. Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined. Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined. This map is for flood insurance purposes only; it does not neces-For adjoining map panels, see separately printed Index To Map Panels. Areas of undetermined, but possible, flood hazards. Certain areas not in the special flood hazard areas (zones A and V) sarily show all areas subject to flooding in the community or *EXPLANATION OF ZONE DESIGNATIONS **Referenced to the National Geodetic Vertical Datum of 1929 all planimetric features outside special flood hazard areas. Areas of minimal flooding. (No shading) INITIAL IDENTIFICATION: MAY 23, 1978 **EXPLANATION** may be protected by flood control structures. NOTES TO USER are determined. A1-A30 V1-V30 ZONE A99 8 ¥ ⋖ υ a >

EXHIBIT C Soil Survey of Hidalgo County



USDA United States Department of Agriculture

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Hidalgo County, **Texas**

REPLAT OF PLAZA DIEZ QUINCE SUBD.



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

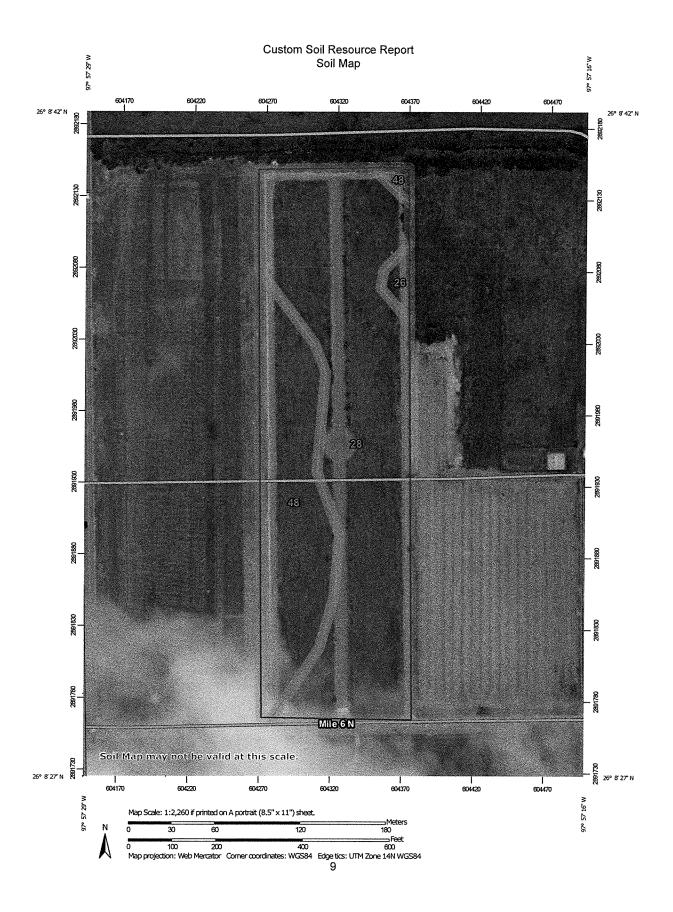
Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



MAP LEGEND

Soils Area of Interest (AOI) Soil Map Unit Polygons Area of Interest (AOI) C30 M Stony Spot Very Stony Spot Spoil Area

1 Soil Map Unit Lines

Special Point Features Soil Map Unit Points

X Closed Depression Clay Spot

Borrow Pit Blowout

Water Features

Streams and Canals

Gravel Pit







20



Saline Spot Rock Outcrop

Sandy Spot

Ć, 0 0

43 Sinkhole

Severely Eroded Spot

Sodic Spot

Slide or Slip

D 0 CZ Special Line Features Other Wet Spot

Fransportation | Ī

Background

Local Roads US Routes Interstate Highways Major Roads

State State of the (

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed

Please rely on the bar scale on each map sheet for map measurements.

Coordinate System: Web Mercator (EPSG:3857) Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Albers equal-area conic projection, should be used if more distance and area. A projection that preserves area, such as the projection, which preserves direction and shape but distorts accurate calculations of distance or area are required. Maps from the Web Soil Survey are based on the Web Mercator

of the version date(s) listed below. This product is generated from the USDA-NRCS certified data as

Soil Survey Area: Hidalgo County, Texas Survey Area Data: Version 15, Nov 7, 2017

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 5, 2012—Nov 15, 2016

imagery displayed on these maps. As a result, some minor The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
26	Hidalgo fine sandy loam, 1 to 3 percent slopes	0.2	1.6%
28	Hidalgo sandy clay loam, 0 to 1 percent slopes	6.8	67.8%
48	Racombes sandy clay loam	3.1	30.7%
Totals for Area of Interest		10.1	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The

delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An undifferentiated group is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Hidalgo County, Texas

26—Hidalgo fine sandy loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2sxvp

Elevation: 20 to 500 feet

Mean annual precipitation: 20 to 27 inches Mean annual air temperature: 72 to 74 degrees F

Frost-free period: 300 to 365 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Hidalgo and similar soils: 85 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Hidalgo

Setting

Landform: Terraces

Landform position (three-dimensional): Tread

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Calcareous loamy alluvium

Typical profile

Ap - 0 to 17 inches: fine sandy loam Bk1 - 17 to 28 inches: sandy clay loam Bk2 - 28 to 38 inches: clay loam Ck - 38 to 80 inches: clay loam

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to

high (0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 35 percent

Salinity, maximum in profile: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 10.0

Available water storage in profile: Moderate (about 7.8 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: B

Ecological site: GRAY SANDY LOAM 20-25" PZ (R083DY501TX)

Hydric soil rating: No

Minor Components

Willacy

Percent of map unit: 10 percent

Landform: Terraces

Landform position (three-dimensional): Tread

Down-slope shape: Convex Across-slope shape: Linear

Ecological site: SANDY LOAM 25-35" PZ (R083DY519TX)

Hydric soil rating: No

Brennan

Percent of map unit: 5 percent

Landform: Terraces

Landform position (three-dimensional): Tread

Down-slope shape: Convex Across-slope shape: Linear

Ecological site: SANDY LOAM 20-30" PZ (R083EY702TX)

Hydric soil rating: No

28-Hidalgo sandy clay loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2sxvl

Elevation: 20 to 500 feet

Mean annual precipitation: 20 to 27 inches Mean annual air temperature: 72 to 74 degrees F

Frost-free period: 300 to 365 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Hidalgo and similar soils: 85 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Hidalgo

Setting

Landform: Terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Calcareous loamy alluvium

Typical profile

Ap - 0 to 17 inches: sandy clay loam Bk1 - 17 to 28 inches: sandy clay loam Bk2 - 28 to 38 inches: clay loam

Ck - 38 to 80 inches: clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to

high (0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 35 percent

Salinity, maximum in profile: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 10.0

Available water storage in profile: Moderate (about 7.8 inches)

Interpretive groups

Land capability classification (irrigated): 1 Land capability classification (nonirrigated): 2c

Hydrologic Soil Group: B

Ecological site: GRAY SANDY LOAM 20-25" PZ (R083DY501TX)

Hydric soil rating: No

Minor Components

Raymondville

Percent of map unit: 7 percent

Landform: Terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: CLAY LOAM 20-25" PZ (R083DY493TX)

Hydric soil rating: No

Racombes

Percent of map unit: 6 percent

Landform: Terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: CLAY LOAM 20-25" PZ (R083DY493TX)

Hydric soil rating: No

Willacy

Percent of map unit: 2 percent

Landform: Terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: SANDY LOAM 25-35" PZ (R083DY519TX)

Hydric soil rating: No

48—Racombes sandy clay loam

Map Unit Setting

National map unit symbol: dblw

Elevation: 20 to 400 feet

Mean annual precipitation: 23 to 30 inches Mean annual air temperature: 70 to 73 degrees F

Frost-free period: 280 to 350 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Racombes and similar soils: 80 percent

Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Racombes

Setting

Landform: Delta plains
Down-slope shape: Linear
Across-slope shape: Concave

Parent material: Calcareous loamy alluvium

Typical profile

H1 - 0 to 13 inches: sandy clay loam H2 - 13 to 49 inches: sandy clay loam H3 - 49 to 72 inches: sandy clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches Natural drainage class: Moderately well drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to

high (0.57 to 1.98 in/hr)

Depth to water table: About 42 to 72 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 15 percent

Salinity, maximum in profile: Nonsaline to slightly saline (1.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 6.0

Available water storage in profile: High (about 10.6 inches)

Interpretive groups

Land capability classification (irrigated): 2w Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: B

Ecological site: CLAY LOAM 20-25" PZ (R083DY493TX)

Hydric soil rating: No

Minor Components

Unnamed

Percent of map unit: 15 percent Ecological site: CLAY LOAM 20-25" PZ (R083DY493TX)

Hydric soil rating: No

Rio

Percent of map unit: 5 percent Landform: Depressions Hydric soil rating: Yes

Soil Information for All Uses

Soil Reports

The Soil Reports section includes various formatted tabular and narrative reports (tables) containing data for each selected soil map unit and each component of each unit. No aggregation of data has occurred as is done in reports in the Soil Properties and Qualities and Suitabilities and Limitations sections.

The reports contain soil interpretive information as well as basic soil properties and qualities. A description of each report (table) is included.

Soil Physical Properties

This folder contains a collection of tabular reports that present soil physical properties. The reports (tables) include all selected map units and components for each map unit. Soil physical properties are measured or inferred from direct observations in the field or laboratory. Examples of soil physical properties include percent clay, organic matter, saturated hydraulic conductivity, available water capacity, and bulk density.

Engineering Properties (Replat of Plaza Diez Quince Subd)

This table gives the engineering classifications and the range of engineering properties for the layers of each soil in the survey area.

Hydrologic soil group is a group of soils having similar runoff potential under similar storm and cover conditions. The criteria for determining Hydrologic soil group is found in the National Engineering Handbook, Chapter 7 issued May 2007(http://directives.sc.egov.usda.gov/OpenNonWebContent.aspx?content=17757.wba). Listing HSGs by soil map unit component and not by soil series is a new concept for the engineers. Past engineering references contained lists of HSGs by soil series. Soil series are continually being defined and redefined, and the list of soil series names changes so frequently as to make the task of maintaining a single national list virtually impossible. Therefore, the criteria is now used to calculate the HSG using the component soil properties and no such national series lists will be maintained. All such references are obsolete and their use should be discontinued. Soil properties that influence runoff potential are those that influence the minimum rate of infiltration for a bare soil after prolonged wetting and when not frozen. These

properties are depth to a seasonal high water table, saturated hydraulic conductivity after prolonged wetting, and depth to a layer with a very slow water transmission rate. Changes in soil properties caused by land management or climate changes also cause the hydrologic soil group to change. The influence of ground cover is treated independently. There are four hydrologic soil groups, A, B, C, and D, and three dual groups, A/D, B/D, and C/D. In the dual groups, the first letter is for drained areas and the second letter is for undrained areas.

The four hydrologic soil groups are described in the following paragraphs:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

Depth to the upper and lower boundaries of each layer is indicated.

Texture is given in the standard terms used by the U.S. Department of Agriculture. These terms are defined according to percentages of sand, silt, and clay in the fraction of the soil that is less than 2 millimeters in diameter. "Loam," for example, is soil that is 7 to 27 percent clay, 28 to 50 percent silt, and less than 52 percent sand. If the content of particles coarser than sand is 15 percent or more, an appropriate modifier is added, for example, "gravelly."

Classification of the soils is determined according to the Unified soil classification system (ASTM, 2005) and the system adopted by the American Association of State Highway and Transportation Officials (AASHTO, 2004).

The Unified system classifies soils according to properties that affect their use as construction material. Soils are classified according to particle-size distribution of the fraction less than 3 inches in diameter and according to plasticity index, liquid limit, and organic matter content. Sandy and gravelly soils are identified as GW, GP, GM, GC, SW, SP, SM, and SC; silty and clayey soils as ML, CL, OL, MH, CH, and OH; and highly organic soils as PT. Soils exhibiting engineering properties of two groups can have a dual classification, for example, CL-ML.

The AASHTO system classifies soils according to those properties that affect roadway construction and maintenance. In this system, the fraction of a mineral soil that is less than 3 inches in diameter is classified in one of seven groups from A-1 through A-7 on the basis of particle-size distribution, liquid limit, and plasticity index. Soils in group A-1 are coarse grained and low in content of fines (silt and clay). At the other extreme, soils in group A-7 are fine grained. Highly organic soils are classified in group A-8 on the basis of visual inspection.

If laboratory data are available, the A-1, A-2, and A-7 groups are further classified as A-1-a, A-1-b, A-2-4, A-2-5, A-2-6, A-2-7, A-7-5, or A-7-6. As an additional refinement, the suitability of a soil as subgrade material can be indicated by a group index number. Group index numbers range from 0 for the best subgrade material to 20 or higher for the poorest.

Percentage of rock fragments larger than 10 inches in diameter and 3 to 10 inches in diameter are indicated as a percentage of the total soil on a dry-weight basis. The percentages are estimates determined mainly by converting volume percentage in the field to weight percentage. Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

Percentage (of soil particles) passing designated sieves is the percentage of the soil fraction less than 3 inches in diameter based on an ovendry weight. The sieves, numbers 4, 10, 40, and 200 (USA Standard Series), have openings of 4.76, 2.00, 0.420, and 0.074 millimeters, respectively. Estimates are based on laboratory tests of soils sampled in the survey area and in nearby areas and on estimates made in the field. Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

Liquid limit and plasticity index (Atterberg limits) indicate the plasticity characteristics of a soil. The estimates are based on test data from the survey area or from nearby areas and on field examination. Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

References:

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Absence of an entry indicates that the data were not estimated. The asterisk '*' denotes the representative texture; other possible textures follow the dash. The criteria for determining the hydrologic soil group for individual soil components is found in the National Engineering Handbook, Chapter 7 issued May 2007(http://directives.sc.egov.usda.gov/OpenNonWebContent.aspx?content=17757.wba). Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

			Hidalgo	28—Hidalgo sandy clay loam, 0 to 1 percent slopes	The management of the control of the		And all the control of the control o	Hidalgo	26—Hidalgo fine sandy loam, 1 to 3 percent slopes	The contraction of the contracti		Map unit symbol and soil name	
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CL, SC	CL, SC	CL, SC	CL, SC		CL, SC	CL, SC	CL, SC	CL, SC- SM, SM, SC			Unified	Classi	Engineering Properties-Hidalgo County, Texas
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82-94-1 00	81-93-1 00	85-96-1 00	86-96-1 00		82-94-1 00	81-93-1 00	85-96-1 00	84-94-1 00		L-R-H	40	Percentage passing sieve number-	
57-72- 84	54-68- 81	50-60- 75	44-54- 63		57-72- 84	54-68- 81	50-60- 75	35-47- 56		L-R-H	200	umber-	
30-38 -44	30-38 -44	30-35 -44	25-30 -39		30-38 -44	30-38 -44	30-35 -44	15-23 -25	PRINCIPLE AND LINE AN	L-R-H		Liquid	
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48—Racombes sandy clay loam														
Racombes	80 B		0-13	Sandy clay loam	CL, SC	A-4, A-6	0-0-0 0-0-0		100-100 -100	100-100 s	95-98-1 00	45-55- 65	27-31 -35	8-12-15
			13-49	Sandy clay loam, clay loam	CL, SC	A-6, A-7	0-0-0	0- 0- 0	100-100 -100	00 95-98-1 0 00	90-95-1 00	45-55- 65	34-39 -43	15-19-2 2
			49-72	Sandy clay loam, clay loam	CL, SC	A-6	0-0-0-0-0-0		90-95-1 00)5-1 80-90-1 80-88- 4) 00 95	80-88- 95	10-53- 65	30-35 -40	5 11-16-2

Physical Soil Properties (Replat of Plaza Diez Quince Subd)

This table shows estimates of some physical characteristics and features that affect soil behavior. These estimates are given for the layers of each soil in the survey area. The estimates are based on field observations and on test data for these and similar soils.

Depth to the upper and lower boundaries of each layer is indicated.

Particle size is the effective diameter of a soil particle as measured by sedimentation, sieving, or micrometric methods. Particle sizes are expressed as classes with specific effective diameter class limits. The broad classes are sand, silt, and clay, ranging from the larger to the smaller.

Sand as a soil separate consists of mineral soil particles that are 0.05 millimeter to 2 millimeters in diameter. In this table, the estimated sand content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

Silt as a soil separate consists of mineral soil particles that are 0.002 to 0.05 millimeter in diameter. In this table, the estimated silt content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

Clay as a soil separate consists of mineral soil particles that are less than 0.002 millimeter in diameter. In this table, the estimated clay content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

The content of sand, silt, and clay affects the physical behavior of a soil. Particle size is important for engineering and agronomic interpretations, for determination of soil hydrologic qualities, and for soil classification.

The amount and kind of clay affect the fertility and physical condition of the soil and the ability of the soil to adsorb cations and to retain moisture. They influence shrink-swell potential, saturated hydraulic conductivity (Ksat), plasticity, the ease of soil dispersion, and other soil properties. The amount and kind of clay in a soil also affect tillage and earthmoving operations.

Moist bulk density is the weight of soil (ovendry) per unit volume. Volume is measured when the soil is at field moisture capacity, that is, the moisture content at 1/3- or 1/10-bar (33kPa or 10kPa) moisture tension. Weight is determined after the soil is dried at 105 degrees C. In the table, the estimated moist bulk density of each soil horizon is expressed in grams per cubic centimeter of soil material that is less than 2 millimeters in diameter. Bulk density data are used to compute linear extensibility, shrink-swell potential, available water capacity, total pore space, and other soil properties. The moist bulk density of a soil indicates the pore space available for water and roots. Depending on soil texture, a bulk density of more than 1.4 can restrict water storage and root penetration. Moist bulk density is influenced by texture, kind of clay, content of organic matter, and soil structure.

Saturated hydraulic conductivity (Ksat) refers to the ease with which pores in a saturated soil transmit water. The estimates in the table are expressed in terms of micrometers per second. They are based on soil characteristics observed in the field, particularly structure, porosity, and texture. Saturated hydraulic conductivity

(Ksat) is considered in the design of soil drainage systems and septic tank absorption fields.

Available water capacity refers to the quantity of water that the soil is capable of storing for use by plants. The capacity for water storage is given in inches of water per inch of soil for each soil layer. The capacity varies, depending on soil properties that affect retention of water. The most important properties are the content of organic matter, soil texture, bulk density, and soil structure. Available water capacity is an important factor in the choice of plants or crops to be grown and in the design and management of irrigation systems. Available water capacity is not an estimate of the quantity of water actually available to plants at any given time.

Linear extensibility refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. It is an expression of the volume change between the water content of the clod at 1/3- or 1/10-bar tension (33kPa or 10kPa tension) and oven dryness. The volume change is reported in the table as percent change for the whole soil. The amount and type of clay minerals in the soil influence volume change.

Linear extensibility is used to determine the shrink-swell potential of soils. The shrink-swell potential is low if the soil has a linear extensibility of less than 3 percent; moderate if 3 to 6 percent; high if 6 to 9 percent; and very high if more than 9 percent. If the linear extensibility is more than 3, shrinking and swelling can cause damage to buildings, roads, and other structures and to plant roots. Special design commonly is needed.

Organic matter is the plant and animal residue in the soil at various stages of decomposition. In this table, the estimated content of organic matter is expressed as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter. The content of organic matter in a soil can be maintained by returning crop residue to the soil.

Organic matter has a positive effect on available water capacity, water infiltration, soil organism activity, and tilth. It is a source of nitrogen and other nutrients for crops and soil organisms.

Erosion factors are shown in the table as the K factor (Kw and Kf) and the T factor. Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of six factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and Ksat. Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

Erosion factor Kw indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments.

Erosion factor Kf indicates the erodibility of the fine-earth fraction, or the material less than 2 millimeters in size.

Erosion factor T is an estimate of the maximum average annual rate of soil erosion by wind and/or water that can occur without affecting crop productivity over a sustained period. The rate is in tons per acre per year.

Wind erodibility groups are made up of soils that have similar properties affecting their susceptibility to wind erosion in cultivated areas. The soils assigned to group 1

are the most susceptible to wind erosion, and those assigned to group 8 are the least susceptible. The groups are described in the "National Soil Survey Handbook."

Wind erodibility index is a numerical value indicating the susceptibility of soil to wind erosion, or the tons per acre per year that can be expected to be lost to wind erosion. There is a close correlation between wind erosion and the texture of the surface layer, the size and durability of surface clods, rock fragments, organic matter, and a calcareous reaction. Soil moisture and frozen soil layers also influence wind erosion.

Reference:

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. (http://soils.usda.gov)

Custom Soil Resource Report

Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

	Control and the second		Hidalgo	28—Hidalgo sandy clay loam, 0 to 1 percent slopes				Hidalgo	26—Hidalgo fine sandy loam, 1 to 3 percent slopes	and the state of t		Map symbol and soil name	
38-80	28-38	17-28	0-17		38-80	28-38	17-28	0-17		ln		Depth	
25-30- 70	25-35- 70	25-48- 70	45-55- 70		25-30- 70	25-35- 70	25-48- 70	53-63- 75		Pct		Sand	
10-40- 50	10-35- 50	10-25- 50	5-18- 28		10-40- 50	10-35- 50	10-25- 50	5-19- 35		Pct		Silt	
23-30- 35	23-30- 35	23-27- 35	20-27- 30		23-30- 35	23-30- 35	23-27- 35	5-18- 20		Pct		Clay	
1.40-1.50- 1.80	1.20-1.40- 1.60	1.20-1.40- 1.50	1.35-1.50- 1.65		1.40-1.50- 1.80	1.20-1.40- 1.60	1.20-1.40- 1.50	1.35-1.45- 1.65		g/cc	density	Moist bulk	Physic
4.00-9.00-14.00	4.00-9.00-14.00	4.00-9.00-14.00	4.00-9.00-14.00		4.00-9.00-14.00	4.00-9.00-14.00	4.00-9.00-14.00	14.00-28.00-42. 00		micro m/sec	conductivity	Saturated hydraulic	Physical Soil Properties–Hidalgo County, Texas
0.10-0.13-0.1 1.0- 2.2- 5.0 8	0.10-0.13-0.1 8	0.10-0.13-0.1 8	0.10-0.13-0.1 1.5-2.7-5.0 8		0.10-0.13-0.1 8	0.10-0.13-0.1 1.2- 2.3- 5.9 8	0.10-0.13-0.1 8	0.10-0.13-0.1 0.3- 1.4- 1.7 5		ln/ln	capacity	Available water	s–Hidalgo Cou
1.0- 2.2- 5.0	1.2- 2.3- 5.9	1.2-2.1-5.0	1.5- 2.7- 5.0		1.0- 2.2- 5.0	1.2- 2.3- 5.9	1.2-2.1-5.0	0.3- 1.4- 1.7		Pct		Linear extensibility	ınty, Texas
0.1- 0.2- 0.3	0.1- 0.3- 0.5	0.3- 0.6- 1.0	1.0- 1.5- 2.0	The state of the s	0.1- 0.2- 0.3	0.1- 0.3- 0.5	0.3- 0.6- 1.0	0.5- 1.0- 1.5		Pct		Organic matter	
.32	.32	.28	.17		.32	.32	.28	.24			Κw	→ m	
.32	.32	.28	.17		.32	.32	.28	.24			₹	Erosion factors	
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					Physica	Physical Soil Properties-Hidalgo County, Texas	s-Hidalgo Cou	nty, Texas						
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk	Saturated hydraulic	Available water	Linear extensibility	Organic matter	m	Erosion factors	σš	Wind erodibility	Wind erodibility
					uclisity	Conduction	capacity			X	쥬		group	index
Martina de la militar de la martina de l	'n	Pct	Pct	Pct	g/cc	micro m/sec	ln/ln	Pat	Pct					
48—Racombes sandy clay loam							The state of the s							
Racombes	0-13	-60-	-18-	16-22- 28	1.40-1.53- 1.65	16-22- 28 1.40-1.53- 4.00-9.00-14.00 0.14-0.17-0.1 0.0-1.5-2.9	0.14-0.17-0.1 9	0.0- 1.5- 2.9	1.0- 2.0- 3.0	.15	.15	5	5	56
	13-49	-56-	-15-	26-30- 34	1.45-1.58- 1.70	26-30- 34 1.45-1.58- 4.00-9.00-14.00 0.15-0.18-0.2 3.0- 4.5- 5.9 1.70	0.15-0.18-0.2 0	3.0- 4.5- 5.9	1.0- 1.5- 2.0	.17	.17	THE PARTY NAMED OF THE PARTY NAMED IN		According to the second
	49-72	-56-	-15-	25-30- 34	1.50-1.60- 1.70	25-30- 34	0.15-0.18-0.2 0	3.0- 4.5- 5.9	0.5- 0.8- 1.0	.17	.17			

Water Features

This folder contains tabular reports that present soil hydrology information. The reports (tables) include all selected map units and components for each map unit. Water Features include ponding frequency, flooding frequency, and depth to water table.

Hydrologic Soil Group and Surface Runoff (Replat of Plaza Diez Quince Subd)

This table gives estimates of various soil water features. The estimates are used in land use planning that involves engineering considerations.

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The four hydrologic soil groups are:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas.

Surface runoff refers to the loss of water from an area by flow over the land surface. Surface runoff classes are based on slope, climate, and vegetative cover. The concept indicates relative runoff for very specific conditions. It is assumed that the surface of the soil is bare and that the retention of surface water resulting from irregularities in the ground surface is minimal. The classes are negligible, very low, low, medium, high, and very high.

Report—Hydrologic Soil Group and Surface Runoff (Replat of Plaza Diez Quince Subd)

Absence of an entry indicates that the data were not estimated. The dash indicates no documented presence.

Hydrologic Soil Grou	p and Surface Runof	f–Hidalgo County,	Texas
Map symbol and soil name	Pct. of map unit	Surface Runoff	Hydrologic Soil Group
26—Hidalgo fine sandy loam, 1 to 3 percent slopes	70 000		
Hidalgo	85	Low	В
28—Hidalgo sandy clay loam, 0 to 1 percent slopes			
Hidalgo	85	Negligible	В
48—Racombes sandy clay loam		***************************************	
Racombes	80	Negligible	В

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Exhibit D

Detention Storage Requirements
for

Replat of Plaza Diez Quince Subdivision
10-Year Return Frequency

Time	ı	0	Vol. _{TOTAL}	Q _{ALLOWED}	Vol. DISCH.	Vol. STORED	Vol. STORED
(minutes)	(in./hr.)	Q _{DEVELOPED} (c.f.s.)	(c.f.)	(c.f.s.)	(c.f.)	(c.f.)	(Ac-Ft)
5	11.04	76.52	22,956	9.57	2,872	20,084	0.461
10	8.73	60.51	36,307	9.57	5,744	30,564	0.702
15	7.29	50.54	45,487	9.57	8,615	36,872	0.846
20	6.30	43.67	52,404	9.57	11,487	40,917	0.939
25	5.57	38.62	57,926	9.57	14,359	43,567	1.000
30	5.01	34.73	62,510	9.57	17,231	45,279	1.039
35	4.56	31.63	66,425	9.57	20,103	46,323	1.063
40	4.20	29.10	69,842	9.57	22,974	46,867	1.076
45	3.89	26.99	72,873	9.57	25,846	47,027	1.080
50	3.64	25.20	75,598	9.57	28,718	46,880	1.076
55	3.41	23.66	78,074	9.57	31,590	46,484	1.067
60	3.22	22.32	80,344	9.57	34,462	45,882	1.053
65	3.05	21.14	82,441	9.57	37,333	45,108	1.036
70	2.90	20.09	84,391	9.57	40,205	44,185	1.014
75	2.76	19.16	86,213	9.57	43,077	43,136	0.990
80	2.64	18.32	87,924	9.57	45,949	41,976	0.964
85	2.53	17.56	89,539	9.57	48,820	40,718	0.935
90	2.43	16.86	91,067	9.57	51,692	39,375	0.904
95	2.34	16.23	92,518	9.57	54,564	37,954	0.871
100	2.26	15.65	93,900	9.57	57,436	36,464	0.837
105	2.18	15.11	95,220	9.57	60,308	34,913	0.801
110	2.11	14.62	96,484	9.57	63,179	33,304	0.765
115	2.04	14.16	97,696	9.57	66,051	31,644	0.726
120	1.98	13.73	98,860	9.57	68,923	29,937	0.687



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WESLACO FIRE MARSHAL'S OFFICE 255 S. Kansas Weslaco, Texas 78596 (956) 447-3415 Fax (956) 969-4921

DATE: <u>05/04/18</u>	OCCUPANCY CLASS: Subdivision
FACILITY NAME:	Plaza Diez Quince
PHYSICAL & MAILING ADDRESS:	Mile 6 North by FM 1015
DUONE #	

PL/	AN R	REVIEW - CHECK OFF LIST PHONE #: OWNER/MANAGER:							
Х		Approved as submitted X with notes							
	Α	Illuminated exit signs and emergency lighting shall be combination with 90 minute battery pack back-up.							
	В	All restrooms shall have emergency lighting with 90 minute battery pack back-up.							
	С	Shall provide minimum 5 lb. ABC dry chemical extinguisher at 50' intervals for non-sprinklered building, 75' intervals for sprinklered building, annually							
		inspected & tagged by a licensed agency and mounted no higher than 48" from top to ground. NFPA 10, Latest Edition & IFC 2015 Edition, Section 906.							
	D	Shall have fire alarm company submit plans for proposed fire alarm.							
	E	Shall have fire alarm system installed in accordance with the latest editions of NFPA 70 & 72, by a licensed agency and monitored 24/7 by an outside							
		agency. Shall call our office 24 hours in advance for trip test. NFPA 101, Life Safety Code, 2015 Edition							
	F	Shall have fire alarm system tied into the sprinkler system to monitor flow and tamper switches. Shall also be tied into the suppression system for the							
	<u> </u>	kitchen hood. NFPA 101, Life Safety Code, 2015 Edition.							
	G	Shall have automatic sprinkler system installed by a licensed agency and in accordance with the latest edition of NFPA 13. Sprinkler company shall							
		submit plans to our office and ISO for review. Shall contact our office 24 hours in advance for underground & aboveground hydrostatic tests. IFC, 2015							
	ļ	Edition, Section 903 & 912 and latest edition of NFPA 13. No ceiling shall be in place until aboveground hydrostatic test has been approved.							
	Н	If cooking that releases grease latent vapors, shall provide hood suppression system installed by a licensed agency; hood shall vent to exterior of							
		building. NFPA 96, Latest edition. An approved method shall be provided that will ensure that the appliance(s) is returned to an approved design							
<u> </u>		location, NFPA 96, Section 12.1.2.3.1 Shall call our office 24 hours in advance for trip test. IFC, 2015 Edition, Section 904.							
 	1	Shall have 1 – K extinguisher for kitchen annually inspected by a licensed agency. IFC, 2015 Edition, Section 904.11.5							
X	J	Shall have fire hydrant within 400'. Shall have 4 ½" outlet facing the street with 18" to 24" clearance from bottom of outlet to grade level for hydrant							
		wrench. Hydrants shall be marked on the streets with reflective blue marker to show location of hydrants. Hydrants shall have 3' clearance from any							
	К	fences, poles, brush, etc. Fire Hydrants shall be checked to ensure they are functioning due to length of time since installation.							
	"	Fire department connection shall be free-standing, away from the building, minimum 1 ½ times the building height, out of the collapse zone, and within 100' of a fire hydrant. FDC shall be protected from impact with 4" diameter concrete filled bollards, cemented 4' into the ground with 3' above ground.							
		Shall be spaced 3' apart. Shall have a reflective sign indicating "FDC" with 6" high letters, ½" wide. IFC, 2015 Edition, Section 903.3.7 and all of section							
		912, IFC, 2015 Edition, and latest edition of NFPA 13. The FDC connection shall be the 5 inch storz with a 30 to 40 degree downward deflection angle							
		adapter. Tamper protection for backflow preventer shall be of an approved type and approved by Authority Having Jurisdiction.							
Х	L	Access roads shall be 26' minimum with hydrant unobstructed, 20' without hydrant unobstructed. All weather surface road that supports the imposed							
		loads of fire apparatus shall be in place (concrete or asphalt).							
Х	М	Fire apparatus access road shall comply with IFC 2015 Edition, Appendix D. (Cul-de-sac, wye, hammerhead)							
	N	Shall have evacuation routes, with primary & secondary exits marked, in place. IFC, 2015 Edition, Section 404.							
	0	Shall maintain a clear path for means of egress in the following areas:							
	Р	Shall have all exit doors open in the direction of egress travel. If equipped with a locking device, it shall be of an approved type.							
	Q	Every room or space that is an Assembly occupancy shall have the occupant load posted in a conspicuous place.							
	R	Shall maintain 44" clearance between aisles.							
Х	S	Gated community shall submit specs on gate and shall maintain a 20' clearance on each side of island prior to installation of gate. Shall provide							
		combination for access to subdivision. Shall provide Knox Box Gate Entry System.							
	Т	Shall post address in front of building plainly visible from the street with 6" x ½" stroke letters or numbers.							
	U	Shall have Knox Box, 3200 Series, with hinged door, installed for fire department access. www.KnoxBox.com							
	V	Shall have Knox FDC 5 inch Storz Caps in place. www.KnoxBox.com							
	W	Shall have an exterior door to Riser Room. Shall label Riser Room with a white reflective sign to read "Riser Room" with 6" x ¾" stroke red letters.							
Х	Х	Shall provide fire lane painted with 6" red striping, with white lettering 4" x ¾" stroke to read "No Parking Fire Lane" spaced every 10 to 12 feet.							
	Υ	Shall submit a complete set of plans for construction to my office for further requirements.							
	Z	Shall pay appropriate fees for the following: Plan review Fire alarm plan review Fire alarm trip test							
		Sprinkler system plan review Aboveground hydro test Underground hydro test Suppression system trip test							
į									



Planning & Zoning Commission Standardized Agenda Request Form

	II. B.						
From:	Director/City Engineer on hehalf of Dayne Family						
Development.	Director/City Engineer, on behalf of Reyna Family						
Subject/Agenda Item:							
	nal Plat for the Amended Plat of Lot 1 through 32 Plaza						
_	ut of Plaza Diez Quince Subdivision, Weslaco, Hidalgo ly 400 feet east of FM 1015. Possible Action.						
Discussion/Overview:							
subdivision is being serviced with water sewer services through an existing 8" sev	vision is inside the City of Weslaco city limits. This by City of Weslaco through an existing 8" waterline and wer line. The property is within a Flood Zone "B". Owner cation requirements and alley paving requirements.						
If item requires Publication Notice, pr comments received from letters mails	rovide date and periodical of publication; indicate if						
Staff recommendation for Commission's Action:							
	ance with the ordinance for the variance requests.						
Additional Action Prompted:							
[X] Mayor's Signature [] Public He	aring [] Budget Amendment						
[] Resolution [] Ordinance – Firs	st Reading [] Ordinance – Final Reading						
Advisory Review, (if any): (name of bo	pard/committee, date of action, recommendation): N/A						
If item previously considered, provide date and action by Commission: N/A							
Attachments,(if any):	Attachments,(if any):						
Application for Subdivision platting, Staff	f's comments, Drainage Report, Subdivision plat and						
Utility layout.							
Responsibilities upon Commission's	Action:						
Planning staff will advise applicant.							