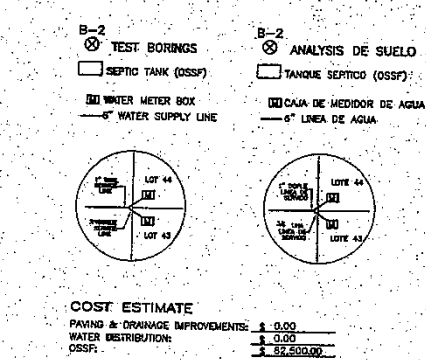
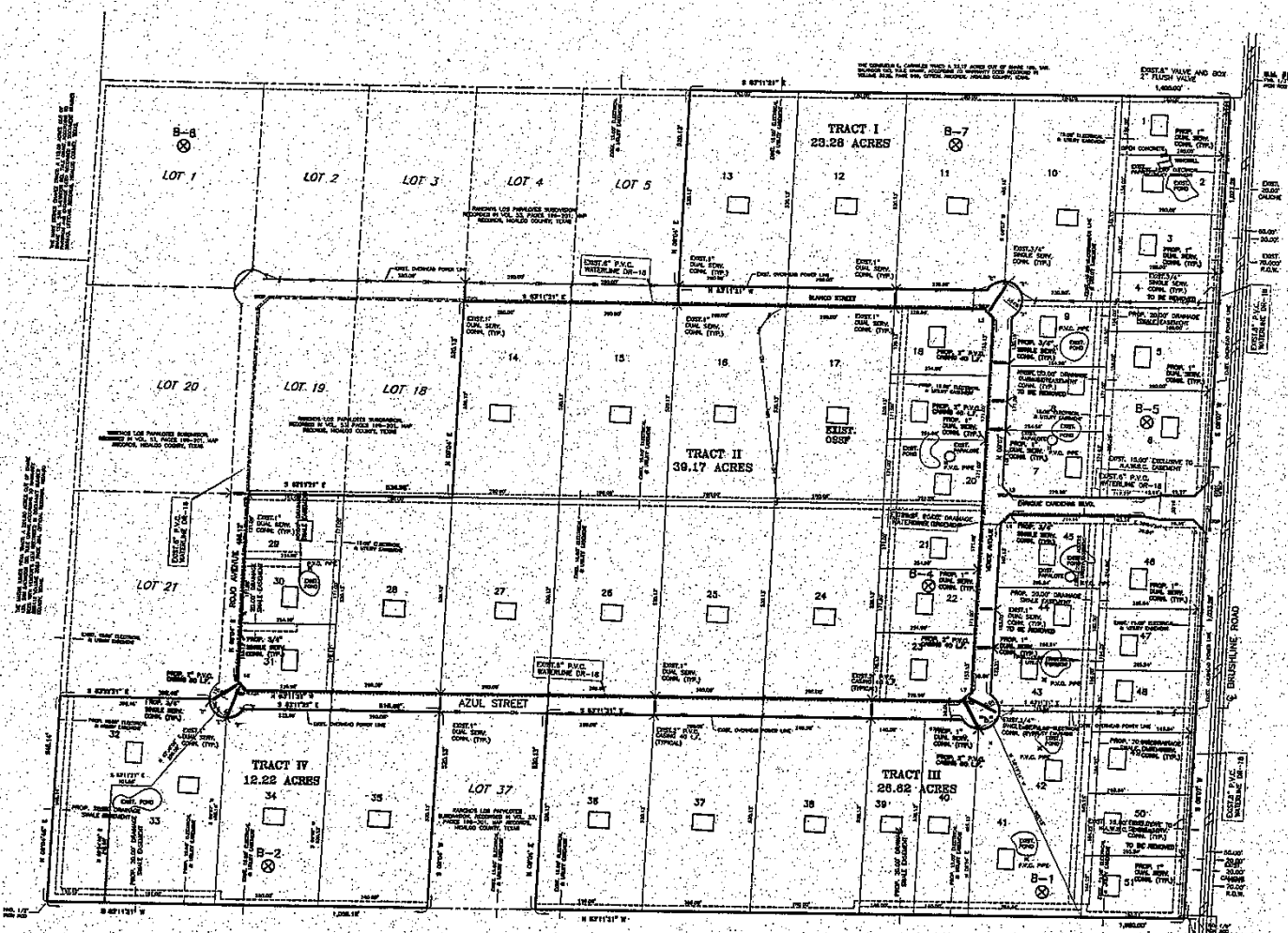


MAP OF WATER DISTRIBUTION SYSTEM/ MAPA DE DISTRIBUCION DE AGUA

TIERRA SANTA CRUZ SUBDIVISION

A 101.23 ACRE TRACT OF LAND BEING ALL OF LOTS 6 THRU 17, 22 THRU 36, AND 38 THRU 40, RANCHOS LOS PAPALOTES SUBDIVISION No. 1, HIDALGO COUNTY, TEXAS, ACCORDING TO THE MAP OR PLAN THEREOF RECORDED IN VOLUME 53, PAGES 199 THRU 201, MAP RECORDS, HIDALGO COUNTY, TEXAS, AND ACCORDING TO WARRANTY DEED RECORDED UNDER COUNTY CLERK'S DOCUMENT NUMBER . OFFICIAL RECORDS, HIDALGO COUNTY, TEXAS.



FILED FOR RECORD IN
HIDALGO COUNTY
ARTURO GUJARDO, JR.
HIDALGO COUNTY CLERK

ON: _____ AT _____ AM/PM
INSTRUMENT NUMBER _____
OF THE MAP RECORDS OF HIDALGO COUNTY, TEXAS
BY: _____ DEPUTY

QUINTANILLA, HEADLEY AND ASSOCIATES, INC.
CONSULTING ENGINEERS
124 E. STUBBS ST.
EDINBURG, TEXAS 78839
ENGINEERING REGISTRATION NUMBER F-1513
SURVEYING REGISTRATION NUMBER 100411-00

LAND SURVEYORS
PHONE 956-381-6480
FAX 956-381-0527
quintanillaheadley@abcglobal.net

SHEET NO. 4 OF 5

PREPARED BY	APPROVED BY
DATE	DATE
REVISION BY	APPROVED BY
DATE	DATE

FINAL ENGINEERING REPORT FOR TIERRA DE SANTA CRUZ SUBDIVISION:
BY: ALFONSO QUINTANILLA, P.E.
WATER SUPPLY: Description and Costs.

TIERRA DE SANTA CRUZ SUBDIVISION IS PROVIDED WITH POTABLE WATER BY THE NORTH ALAMO WATER SUPPLY CORPORATION (N.A.W.S.C.). THE SUBDIVIDER AND N.A.W.S.C. HAVE ENTERED INTO A CONTRACT IN WHICH N.A.W.S.C. HAS PROMISED TO PROVIDE SUFFICIENT WATER TO THE SUBDIVISION FOR AT LEAST 30 YEARS AND N.A.W.S.C. HAS PROVIDED GUARANTEES TO SUFFICIENTLY EXCEED THE LONG TERM QUANTITY AND QUALITY OF THE AVAILABLE WATER SUPPLY TO SERVE THE FULL DEVELOPMENT OF THIS SUBDIVISION. N.A.W.S.C. HAS AN EXISTING 8" WATERLINE ON THE WEST SIDE OF BRINSDALE ROAD THAT ENDS WITH A 2" FLUSH VALVE ON THE NORTHEAST CORNER OF LOT 1 OF TIERRA DE SANTA CRUZ SUBDIVISION.

THE WATER SYSTEM FOR TIERRA DE SANTA CRUZ SUBDIVISION CONSISTS OF AN EXISTING 8" WATERLINE AND A EXISTING 6" WATERLINE. THE EXISTING 8" WATERLINE RUNS INTO THE EXISTING 8" WATERLINE THAT RUNS NORTH ALONG THE WEST SIDE OF BRINSDALE ROAD. THE EXISTING 6" WATERLINE RUNS SOUTH ALONG THE SOUTH SIDE OF ENRIQUE CARDENAS BLVD. AND TEE OFF ON THE WEST SIDE OF VERDE AVENUE. THE EXISTING 6" WATERLINE RUNS NORTH ALONG THE WEST SIDE OF VERDE AVENUE, WHICH RUNS WEST ALONG THE NORTH SIDE OF AZUL STREET, THEN THE EXISTING 6" WATERLINE TURNS NORTH ALONG THE EAST SIDE OF ROAD AVENUE, AND THEN TURNS EAST ALONG THE SOUTH SIDE OF BLANCO STREET AND THEN TURNS SOUTH ALONG THE WEST SIDE OF VERDE AVENUE BACK TO THE SOUTH SIDE ENRIQUE CARDENAS BLVD.

FROM THE 8" WATERLINES, THERE ARE ELEVEN (11) NEW 1" DUAL SERVICE LINES RUNNING TO PAIR OF LOTS 1, 2, 3 & 4; 5, 6, 7 & 8; 19 & 20; 21 & 22; 40 & 41; 42 & 44; 46 & 47; 48 & 49; 50 & 51 BEFORE SPLITTING INTO TWO 3/4" DIAMETER SINGLE SERVICE LINES THAT RUN INTO THE WATER METER BOXES FOR EACH LOT, AND FIVE (5) 3/4" SINGLE SERVICE LINES THAT RUN TO THE WATER BOXES ON LOTS 9, 30, 31, 32 AND 42. THERE ARE AN EXISTING TWENTY FOUR (24) WATER SERVICES CURRENTLY LOCATED ON LOTS 10-18, 22-28, 33-39, AND 42.

THE 8" WATERLINES, THE DUAL SERVICE LINES, THE SINGLE SERVICE LINES, AND THE METER BOXES WILL BE INSTALLED, AT A TOTAL COST OF \$ 0.00 OR \$ 0.00 PER LOT. IN ADDITION, THE SUBDIVIDER HAS PAID N.A.W.S.C. THE SUM OF \$ 0.00 OR \$0.00 PER LOT FOR THE 30 YEAR WATER SERVICE AGREEMENT WHICH COVERS WATER METER, METER BOXES, WATER SUPPLY TEE AND ALL OTHER FEES ASSOCIATED WITH WATER SUPPLY, UNLESS REQUEST BY THE LOT OWNER OF A LOT. N.A.W.S.C. WILL PROMPTLY INSTALL AT NO CHARGE THE WATER METER FOR THAT LOT, IF THE OWNER OF A LOT HAS NOT REQUESTED INSTALLATION OF A METER BY AUGUST 2011. N.A.W.S.C. WILL PROCEED TO INSTALL THE WATER METER ON THE LOT, THOSE, BY ANY OTHER, ALL THE WATER METERS WILL BE INSTALLED AND THE ENTIRE WATER FACILITIES WILL BE OPERABLE AS OF THE DATE OF THE RECORDING OF THE PLAN.

SEWAGE FACILITIES: Description and Costs.
SEWAGE FROM TIERRA DE SANTA CRUZ SUBDIVISION IS TREATED BY INDIVIDUAL ON-SITE SEWAGE FACILITIES ("OSSF") CONSISTING OF A STANDARD DESIGN DUAL COMPARTMENT SEPTIC TANK AND A DRAIN FIELD ON EACH LOT. THE UNDERSIGNED PROFESSIONAL ENGINEER HAS EVALUATED THE SUITABILITY OF THE SUBDIVISION FOR OSSF AND SUBMITTED A REPORT CONCLUDING THAT THE SITE IS SUITABLE FOR OSSF. THE REPORT WAS REVIEWED AND APPROVED BY THE HIDALGO COUNTY HEALTH DEPARTMENT. HIGHLIGHTS OF THE REPORT ARE AS FOLLOWS:

EACH LOT IN THE SUBDIVISION IS AT LEAST ONE (1) ACRES IN SIZE. THE U.S.D.A. SOIL CONSERVATION SERVICE SOIL SURVEY BOOK INDICATES A FINE SANDY LOAM AND SANDY CLAY LOAM, AND (5) TEST BORINGS WERE MADE AT OPPOSITE CORNERS OF THE SUBDIVISION - THE CORNERS OF LOTS 6, 11, 22, 34 AND 41. (ADDITIONAL BORINGS WERE UNNECESSARY BECAUSE THE SOILS ARE VERY UNIFORM WITHIN THESE LIMITED AREAS). THE SOIL IS A UNIFORM SANDY CLAY LOAM EXTENDING MORE THAN 24 INCHES BELOW THE BOTTOM OF ANY PROPOSED EXCAVATIONS. THERE IS NO INDICATION OF GROUND WATER OR A RESTRICTIVE LAYER WITHIN 24 INCHES OF THE BOTTOM OF THE PROPOSED EXCAVATIONS.

THE COST TO INSTALL A SEPTIC SYSTEM ON AN INDIVIDUAL LOT IS \$ 1,250.00, INCLUDING THE COST FOR THE REQUIRED PERMIT AND LICENSE, ALL OSSF'S HAVE BEEN INSTALLED AS OF THE TIME OF APPLICATION FOR FINAL PLAN APPROVAL. AT A TOTAL COST OF \$ 2,000.00, LOT 17 IS CURRENTLY SERVED BY AN EXISTING OSSF.

CERTIFICATION:
BY MY SIGNATURE BELOW, I CERTIFY THAT THE WATER AND SEWAGE SERVICE FACILITIES DESCRIBED ABOVE ARE IN COMPLIANCE WITH THE MODEL RULES ADOPTED UNDER SECTION 163.043 WATER CODE. I CERTIFY THAT THE ESTIMATED COSTS TO INSTALL UNCONSTRUCTED WATER AND ON-SITE SEWAGE FACILITIES, DISCUSSED ABOVE, ARE AS FOLLOWS:

WATER FACILITIES: THESE FACILITIES FULLY CONSTRUCTED, WITH THE INSTALLATION OF WATER METERS, WILL COST A GRAND TOTAL OF \$20,000 WHICH EQUALS TO \$200 PER LOT.
SEWAGE FACILITIES: SEPTIC SYSTEMS ARE ESTIMATED TO COST \$1,000.00 PER LOT (ALL INCLUSIVE), FOR A TOTAL OF \$ 20,000.00 FOR THE ENTIRE SUBDIVISION ON LETTER OF CREDIT.

REPORTE FINAL DE INGENIERIA PARA TIERRA DE SANTA CRUZ SUBDIVISION:
POR: ALFONSO QUINTANILLA, P.E.
PROVISION DE AGUA: Descripción y Gastos.

TIERRA DE SANTA CRUZ SUBDIVISION ESTA PROVEIDA DE AGUA POTABLE POR LA COMPANIA DE AGUA DE NORTH ALAMO (N.A.W.S.C.). EL DUEÑO DE LA SUBDIVISION Y LA COMPANIA DE AGUA N.A.W.S.C. SE HA COMPROMETIDO A PROVEER DE AGUA SUFICIENTE A LA SUBDIVISION POR UN PERIODO DE 30 AÑOS. LA COMPANIA DE AGUA N.A.W.S.C. HA PRESENTADO LA DOCUMENTACION DEMOSTRANDO LA DISPONIBILIDAD DE CANTIDAD Y CALIDAD DE AGUA A LARGO PLAZO QUE SERIRA PARA EL FUTURO DESARROLLO DE LA SUBDIVISION. N.A.W.S.C. CUENTA CON UNA LINEA DE AGUA EXISTENTE DE 8" EN EL LADO OESTE DE LA CALLE BRINSDALE.

EL SISTEMA DE AGUA PARA TIERRA DE SANTA CRUZ SUBDIVISION, CONSISTE DE UNA LINEA DE AGUA DE EXISTENTE 8" DE DIAMETRO Y OTRA EXISTENTE 6" DE DIAMETRO. LA LINEA DE EXISTENTE 8" DE DIAMETRO SE CONECTA CON LA LINEA DE AGUA EXISTENTE 8" DE DIAMETRO QUE CORRE AL NORTE EN EL LADO OESTE DE LA CALLE DE BRINSDALE ROAD. EXISTENTE 6" DE DIAMETRO CORRE OESTE EN EL LADO SUR DE LA CALLE DE ENRIQUE CARDENAS BLVD. Y ASE VUELTA EN EL LADO OESTE DE LA CALLE VERDE AVENUE. LA LINEA EXISTENTE 6" DE DIAMETRO CORRE SUR EN EL LADO OESTE DE LA CALLE VERDE AVENUE, Y CORRE OESTE EN EL LADO NORTE DE LA CALLE AZUL STREET, Y LA EXISTENTE 6" DE DIAMETRO CORRE NORTE EN EL LADO ESTE DE LA CALLE ROAD AVENUE, Y LA LINEA DE EXISTENTE 6" DE DIAMETRO CORRE ESTE EN EL LADO SUR DE LA CALLE BLANCO STREET Y ASE VUELTA AL SUR EN EL LADO OESTE DE LA CALLE VERDE AVENUE HASTA CONECTAR CON LA LINEA DE EXISTENTE 8" DE DIAMETRO A DONDE CONECTA EN EL LADO SUR DE LA CALLE ENRIQUE CARDENAS BLVD.

DE LA LINEAS DE 8" DE DIAMETRO SE DESPRENDEN ONCE (11) SERVICIOS DOBLES DE 1" DE DIAMETRO QUE CORREN EN PARES HACIA LOS LOTES 1, 2, 3 & 4; 5 & 6; 7 & 8; 19 & 20; 21 & 22; 40 & 41; 42 & 44; 46 & 47; 48 & 49; 50 & 51 PARA DESPUES DIVIDIRSE EN DOS SERVICIOS SENCILLOS DE 3/4" DE DIAMETRO Y CINCO (5) SERVICIOS SENCILLOS 3/4" QUE VAN HACIA EL MEDIOR DE LOTES 9, 30, 31, 32, AND 42. HAY VEINTICUATRO (24) SERVICIOS SENCILLOS EXISTENTES EN LOTES 10-18, 22-28, 33-39, Y 42.

LA LINEA DE AGUA DE 8" DE DIAMETRO, LAS LINEAS DE SERVICIOS DOBLES DE 1" Y LAS LINEAS DE SERVICIOS SENCILLOS DE 3/4" Y LAS CAJAS DE LOS MEDIDORES, FUERON INSTALADOS A UN COSTO TOTAL DE US\$0.00 POR LOTE. EL DUEÑO DE LA SUBDIVISION HA PAGADO ACCIONARIAMENTE A N.A.W.S.C. LA CANTIDAD DE US\$0.00, EL CUAL CUBRE EL COSTO DE US\$0.00 POR SOLAR DE ADQUIRIR AL CONTRATO Y DOCUMENTO DE 30 DE SERVICIO DE AGUA POTABLE POR EL MEDIDOR DE AGUA, (INCLUYENDO COSTOS DE LA INSTALACION DE CADA MEDIDOR, LOS GASTOS DE CONDICION Y MEDIDAS), CUANDO EL DUEÑO DEL SOLAR SOLICITE UN MEDIDOR DE AGUA. LA COMPANIA N.A.W.S.C. LO INSTALARA SIN COSTO ALGUNO AL DUEÑO. EL SISTEMA DE AGUA ESTARA EN FUNCIONAMIENTO COMPLETO ANTES O EN LA FECHA, EN LA CUAL LA SUBDIVISION SEA REGISTRADA EN EL CONDOMIO DE HIDALGO.

SERVICIO DE DRENAJE: Descripción y Costos.
EL DRENAJE DE TIERRA DE SANTA CRUZ SUBDIVISION, TIENDE FOSAS SEPTICAS INDIVIDUALES (OSSF) CONSISTENDO EN UN DISEÑO NORMAL, CON DOBLE COMPARTIMIENTO DE FOSA SEPTICA (OSSF) Y UN CAMPO DE DRENAJE EN CADA SOLAR. EL INGENIERO (QUE ABASO FIRMA) HA INSPECCIONADO, EVALUADO Y REPORTADO QUE LA UBICACION DE LA SUBDIVISION ES CONVENIENTE PARA FOSAS SEPTICAS (OSSF). EL REPORTE FUE DEMANDADO Y APROBADO POR EL DEPARTAMENTO DE SALUD DEL CONDOMIO DE HIDALGO.

CADA SOLAR EN LA SUBDIVISION SERA DE AL MENOS DE UN(1) ACRES DE TAMAÑO. EL LIBRO DE SERVICIOS Y CONSERVACION DEL SUELO DEL DEPARTAMENTO DE AGRICULTURA DE LOS ESTADOS UNIDOS (USDA) MUESTRA UNA MEZCLA DE BARRIO ARENOSO, DE REDAZARON (S) PRUEBAS CON AGUIJEROS EN EL CENTRO DE LOS LOTES 6, 11, 22, 34, Y 41 (PRUEBAS ADICIONALES NO FUERON NECESARIAS PORQUE EL SUELO ES MUY UNIFORME DENTRO DEL AREA DELIMITADA). EL SUELO ES UNIFORME DE BARRIO ARENOSO EXTENDIENDO A MAS DE 24 PULGADAS BAJO EL FONDO DE CUALQUIER EXCAVACION, NO HAY PRESENCIA DE AGUA SUBTERRANEA BAJO LA CAPA DE 24 PULGADAS DE FONDO DE LAS EXCAVACIONES.

EL COSTO TOTAL PARA LA INSTALACION DE UN SISTEMA INDIVIDUAL DE FOSAS SEPTICAS POR SOLAR SON US\$ 1,250.00, INCLUYENDO EL COSTO DEL PERMISO, REQUERIDO Y LICENCIA. EN ESTOS MOMENTOS TODAS LAS FOSAS SEPTICAS HAN SIDO INSTALADAS EN EL PROCESO DE LA APROBACION FINAL. A UN COSTO TOTAL DE US\$ 20,000.00. EL DEPARTAMENTO DE SALUD DEL CONDOMIO DE HIDALGO HA INSPECCIONADO TODOS LAS FOSAS SEPTICAS Y HA APROBADO LA INSTALACION DE LAS FOSAS SEPTICAS DESDE . LOTE 17 TIENE UNA FSA SEPTICA EXISTENTE.

SANTA CRUZ PROPERTIES, LTD.
BY: GENERAL PARTNER
RUPPERT COMPANY, LLC
BY: RICHARD RUPPERT, PRESIDENT

STATE OF TEXAS
COUNTY OF HIDALGO

SANTA CRUZ PROPERTIES, LTD.
BY: GENERAL PARTNER
RUPPERT COMPANY, LLC
BY: RICHARD RUPPERT, PRESIDENT

BEFORE ME, the undersigned notary public, on this day personally appeared _____, who, being by me first duly sworn, acknowledged that the statements therein are true and correct and acknowledged that she executed the same for the purposes and consideration thereby expressed.

Given under my hand and seal of office this _____ day of _____, 20____.

ALFONSO QUINTANILLA
P.E. No. 95524

ALFONSO QUINTANILLA
P.E. No. 95524

2-7-11

LILA A. QUINTANILLA
NOTARY PUBLIC

STATE OF TEXAS
COUNTY OF HIDALGO

SANTA CRUZ PROPERTIES, LTD.
BY: GENERAL PARTNER
RUPPERT COMPANY, LLC
BY: RICHARD RUPPERT, PRESIDENT

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Given under my hand and seal of office this _____ day of _____, 20____.

LILA A. QUINTANILLA
NOTARY PUBLIC

STATE OF TEXAS
COUNTY OF HIDALGO

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BY: GENERAL PARTNER
RUPPERT COMPANY, LLC
BY: RICHARD RUPPERT, PRESIDENT

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LILA A. QUINTANILLA
NOTARY PUBLIC

STATE OF TEXAS
COUNTY OF HIDALGO

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BY: GENERAL PARTNER
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BY: RICHARD RUPPERT, PRESIDENT

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Given under my hand and seal of office this _____ day of _____, 20____.

LILA A. QUINTANILLA
NOTARY PUBLIC

REVISION NOTES

No.	Date	REVISION	Done	Approved