



HIDALGO COUNTY PLANNING DEPARTMENT

1304 SOUTH 25TH STREET
EDINBURG TEXAS 78539
Tel. 956-318-2840 Fax. 956-318-2844

T.J. Arredondo, CFM
Director of Planning

HIDALGO COUNTY COMMISSIONERS COURT MEETING

DATE: 10-27-2015

PROPOSED Dos Vientos Estates SUBDIVISION, PRECINCT No. 4.

ENGINEER: KK Engineering DEVELOPER: Kyndel W. Bennett

PRELIMINARY APPROVAL FINAL APPROVAL FINAL APPROVAL WITH FINANCIAL GUARANTEE WITH VARIANCE

NUMBER OF LOTS: 58 *SINGLE FAMILY *MULTI-FAMILY COMMERCIAL INSTITUTIONAL

LOCATION DESCRIPTION: Northeast corner of Sharp Road and Curve Road.

SUBDIVISION LIES WITHIN THE: ETJ of Edinburg and was approved by the P & Z and City Commission of said City

DRAINAGE REPORT WAS APPROVED BY HCDD#1: ON 9-16-2015 PROPERTY LIES WITHIN FLOOD ZONE: "X" AS PER FEMA.

DRAINAGE DESIGN: Storm drainage system and by widening the existing drain ditch.

ROAD R.O.W. DEDICATION: 10 feet on to Sharp Road.

H.C.R.O.W. PRELIMINARY APPROVAL DATE: 9-11-2015 By, Joe Ochoa, Pct. 4 R.O.W. AGENT

H.C.H.D. PRELIMINARY APPROVAL DATE: 10-16-2015 By, Elizardo "Chardo" Ramos Environmental Health Division Manager

SEWER SYSTEM: OSSF & SOIL ANALYSIS WERE CONDUCTED BY: Jose A. Gonzalez

WATER SERVICE PROVIDER: NAWSC LINE SIZE: 8" LOCATION: West of Sharp Road.

H.C.O.E.C. PRELIMINARY APPROVAL DATE: 10-16-2015 : By Martin Ramirez Environmental Compliance Coordinator

LARGE CONSTRUCTION

The applicant has submitted the required NOI as per Part II, Section E of the TPDES General Permit for Construction Activities (TXR150000) along with a copy of the Erosion Control Plan for the proposed project.

REQUEST FOR FINAL APPROVAL WITH: **Cash Deposit:** Amount: \$_____ For: OSSF(S) _____ PAVING DRAINAGE STREET SIGNS

A Letter of Credit Financial Institution: _____ L.O.C No. _____

Amount: \$_____ For: OSSF(S) _____ PAVING DRAINAGE STREET SIGNS

PRELIMINARY APPROVAL FROM THE
HIDALGO COUNTY COMMISSIONERS COURT ON: _____

STAFF RECOMMENDS: **Preliminary Approval** subject to comments and future recommendations by planning,

other departments and the approval of the City of Edinburg.

Final Approval subject to recommendations other departments

Final Approval with financial guarantee.

This subdivision plat has been reviewed and complies with the Hidalgo County Subdivision Rules,

* *Texas Water Development Board Model Subdivision Rules and The Texas Local Government Code.*

PLAT OF DOS VIENTOS ESTATES SUBDIVISION

A 37.53 ACRE TRACT OF LAND BEING OUT OF LOT 13, SECTION 3, R.B. CURRY SURVEY 1, 2 & 4 AS RECORDED IN VOLUME 2, PAGE 30, MAP RECORDS, HIDALGO COUNTY, TEXAS. SAID 37.53 ACRE TRACT IS BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

PREPARED BY: K K ENGINEERING CONSULTANT
DATE: SEPTEMBER, 2015

STATE OF TEXAS COUNTY OF HIDALGO
OWNER'S DEDICATION, CERTIFICATION, AND ATTESTATION

DOS VIENTOS ESTATES, L.P., A TEXAS LIMITED PARTNERSHIP
AS OWNER OF THE 37.53 ACRES TRACT OF LAND ENCOMPASSED WITHIN THE PROPOSED DOS VIENTOS ESTATES SUBDIVISION HEREBY SUBDIVIDE THE LAND AS DEPICTED IN THIS SUBDIVISION PLAT AND DEDICATE TO PUBLIC USE OF STREETS, PARK, AND EASEMENTS SHOWN HEREIN.

- I CERTIFY THAT I HAVE COMPLIED WITH THE REQUIREMENTS OF TEXAS LOCAL GOVERNMENT CODE §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 LOTS MEET, OR WILL MEET, THE MINIMUM STATE STANDARDS; AND
 - (D) GAS CONNECTIONS, IF AVAILABLE, PROVIDED TO THE LOTS MEET, OR WILL MEET, THE MINIMUM STATE STANDARDS.

I ATTEST THAT THE MATTERS ASSERTED IN THIS PLAT ARE TRUE AND COMPLETE.

OWNER: DOS VIENTOS ESTATES, L.P., a TEXAS LIMITED PARTNERSHIP
BY: K K ENGINEERING CONSULTANT, INC. a TEXAS LIMITED LIABILITY COMPANY
ITS: GENERAL PARTNER
BY: KYNDEL W. BENNETT, PRESIDENT
P.O. BOX 365
LA BLANCA, TX 78558

STATE OF TEXAS COUNTY OF HIDALGO

BEFORE ME, THE UNDERSIGNED AUTHORITY ON THIS DAY PERSONALLY APPEARED KYNDEL W. BENNETT KNOWN TO ME TO BE THE PERSON (S) WHOSE NAME (S) IS (ARE) SUBSCRIBED TO THE FOREGOING INSTRUMENT, AND ACKNOWLEDGED TO ME THAT HE (THEY) EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATIONS THEREIN EXPRESSED AND IN THE CAPACITY THEREIN STATED.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, THIS THE _____ DAY OF _____ 20____.

NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS
MY COMMISSION EXPIRES _____

MAYOR'S CERTIFICATION

I, THE UNDERSIGNED, MAYOR OF THE CITY OF EDINBURG, HEREBY CERTIFY THAT THIS SUBDIVISION PLAT CONFORMS TO ALL REQUIREMENTS OF THE SUBDIVISION REGULATIONS OF THE CITY HEREIN MY APPROVAL IS REQUIRED.

ATTEST:
MAYOR'S SIGNATURE _____ DATE _____ CITY SECRETARY _____ DATE _____

PLANNING & ZONING COMMISSION CERTIFICATION

I, THE UNDERSIGNED, CHAIRPERSON OF THE PLANNING AND ZONING COMMISSION OF THE CITY OF EDINBURG, HEREBY CERTIFY THAT THIS SUBDIVISION PLAT KNOWN AS DOS VIENTOS ESTATES CONFORMS TO ALL REQUIREMENTS OF THE SUBDIVISION REGULATIONS OF THIS CITY WHEREIN MY APPROVAL IS REQUIRED AND HAS BEEN APPROVED FOR RECORDING ON THE _____ DAY OF _____ 20____.

HIDALGO COUNTY ENVIRONMENTAL HEALTH DIVISION MANAGER _____ DATE _____ CHAIRPERSON-PLANNING & ZONING COMMISSION _____

HIDALGO COUNTY DRAINAGE DISTRICT No. 1 HEREBY CERTIFIES THAT THE DRAINAGE PLANS FOR THIS SUBDIVISION COMPLY WITH THE MINIMUM STANDARDS OF THE DISTRICT ADOPTED UNDER TEX. WATER CODE §49.21(C). THE DISTRICT HAS NOT REVIEWED AND DOES NOT CERTIFY THAT THE DRAINAGE STRUCTURES DESCRIBED ARE APPROPRIATE FOR THE SPECIFIC SUBDIVISION, BASED ON GENERALLY ACCEPTED ENGINEERING CRITERIA. IT IS THE RESPONSIBILITY OF THE DEVELOPER OF THE SUBDIVISION AND ITS ENGINEER TO MAKE THESE DETERMINATIONS.

HIDALGO COUNTY DRAINAGE DISTRICT No. 1
RAUL SESIN, P.E., C.F.M. GENERAL MANAGER
DATE _____

STATE OF TEXAS COUNTY OF HIDALGO

I, THE UNDERSIGNED, A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, HEREBY CERTIFY THAT PROPER ENGINEERING CONSIDERATION HAS BEEN GIVEN TO THIS PLAT.

I CERTIFY THAT THE WATER AND SEWER SERVICE FACILITIES FOR LOTS INTENDED FOR RESIDENTIAL PURPOSES DESCRIBED ABOVE ARE IN COMPLIANCE WITH THE MODEL RULES ADOPTED UNDER SECTION 16.343, WATER CODE. THE ESTIMATED COST TO INSTALL UNCONSTRUCTED WATER AND SEWER FACILITIES DESCRIBED ABOVE ARE AS FOLLOWS: WATER FACILITIES: THESE FACILITIES WILL BE CONSTRUCTED. SEWER FACILITIES: (SEWER SERVICE CONNECTION/INSTALLATION OF SEPTIC SYSTEMS) ARE ESTIMATED TO COST \$ _____ PER LOT (ALL INCLUSIVE), FOR A LOT # _____ FOR THE SUBDIVISION. THE SUBDIVIDER HAS PAID A TOTAL OF \$ _____ TO CONTRACTOR / ALREADY INSTALLED TO COVER THE COST OF (SEWER SERVICE CONNECTIONS/INSTALLATION OF SEPTIC SYSTEMS).

DATED THIS THE _____ DAY OF _____ 20____.

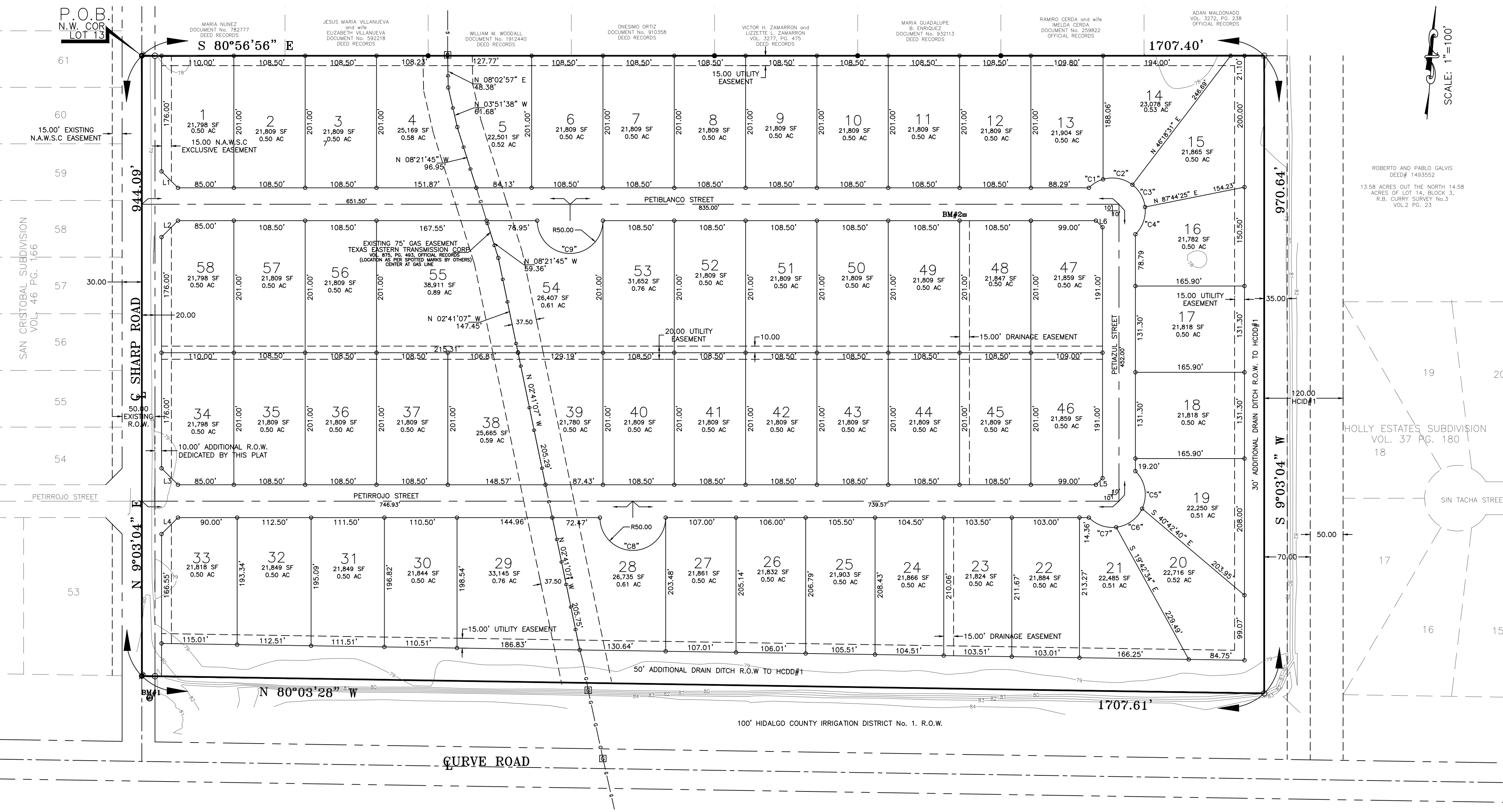
REGISTERED PROFESSIONAL ENGINEER
No. 52726 STATE OF TEXAS
KAMBIZ S. KHADEMI
57767
REGISTERED PROFESSIONAL ENGINEER

STATE OF TEXAS COUNTY OF HIDALGO

I, JOSE MARIO GONZALEZ, REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF TEXAS, DO HEREBY CERTIFY THAT THIS PLAT IS TRUE AND CORRECTLY MADE FROM AN ACTUAL SURVEY MADE ON THE GROUND OF THE PROPERTY LEGALLY DESCRIBED HEREON, AND THAT THERE ARE NO APPARENT DISCREPANCIES, CONFLICTS, OR OVERLAPPING OF IMPROVEMENTS, VISIBLE UPON THIS SURVEY. I HAVE REVIEWED THE ACCOMPANYING PLAT, AND THAT THE CORNER MONUMENTS SHOWN THEREON WERE PROPERLY PACED UNDER MY SUPERVISION IN ACCORDANCE WITH THE SUBDIVISION REGULATIONS OF THE CITY OF EDINBURG, TEXAS.

DATED THIS THE _____ DAY OF _____ 20____.

REGISTERED PROFESSIONAL SURVEYOR
No. 5521 STATE OF TEXAS
JOSE MARIO GONZALEZ
5571
REGISTERED PROFESSIONAL SURVEYOR



METES AND BOUNDS

A 37.53 ACRE TRACT OF LAND BEING OUT OF LOT 13, SECTION 3, R.B. CURRY SURVEY 1, 2 & 4 AS RECORDED IN VOLUME 2, PAGE 30, MAP RECORDS, HIDALGO COUNTY, TEXAS. SAID 37.53 ACRE TRACT IS BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF SAID LOT 13, SET NAIL IN THE RIGHT OF WAY OF SHARP ROAD FOR THE NORTHWEST CORNER OF THIS TRACT OF LAND AND THE POINT OF BEGINNING;

THENCE S 80°56'56" E, WITH THE NORTH LINE OF SAID LOT 13, AT A DISTANCE OF 20.00' PASS A 1/2" IRON ROD SET ON THE EAST RIGHT OF WAY LINE OF SAID SHARP ROAD, CONTINUING A TOTAL DISTANCE OF 1707.40' TO A 1/2" IRON ROD SET ON THE WEST LINE OF HIDALGO COUNTY IRRIGATION DISTRICT NO. 1 R.O.W., FOR THE NORTHEAST CORNER OF THIS TRACT OF LAND;

THENCE S 09°03'04" W, ALONG THE WEST LINE OF SAID HIDALGO COUNTY IRRIGATION DISTRICT NO. 1 R.O.W., AT A DISTANCE OF 970.64' TO A 1/2" IRON ROD SET ON THE NORTH RIGHT OF WAY LINE OF SAID HIDALGO COUNTY IRRIGATION DISTRICT NO. 1 R.O.W., AT A DISTANCE OF 1687.60' PASS A 1/2" IRON ROD SET ON THE EAST RIGHT OF WAY OF SAID SHARP ROAD, CONTINUING A TOTAL DISTANCE OF 1707.61' FEET TO THE WEST LINE OF SAID LOT 13, SET NAIL IN THE RIGHT OF WAY OF SAID SHARP ROAD, FOR THE SOUTHWEST CORNER OF THIS TRACT OF LAND;

THENCE N 09°03'04" E, WITH THE WEST LINE OF SAID LOT 13 AND THE RIGHT OF WAY OF SAID SHARP ROAD, A DISTANCE OF 944.09' TO THE POINT OF BEGINNING, CONTAINING 37.53 ACRES OF LAND MORE OR LESS.

RIGHT OF WAY EASEMENT

KNOW ALL MEN BY THESE PRESENTS, that the undersigned, owners of the property shown on this plat, their successors, assigns, and transferees (hereinafter called "Grantor" whether one or more persons are named), in consideration of one dollar (\$1.00) and other good and valuable consideration paid by North Alamo Water Supply Corporation, (hereinafter called "Grantee"), the receipt and sufficiency of which is hereby acknowledged, does hereby grant, bargain, sell, transfer, and convey to said Grantee, its successors, and assigns, an exclusive perpetual easement with the right to erect, construct, install and on and thereafter use, operate, inspect, repair, maintain, replace, and remove water distribution lines and appurtenances over and across the lands shown on this plat, together with the right of ingress and egress over Grantor's adjacent lands for the purpose for which the above mentioned rights are granted. The easement hereby granted shall not exceed 15' in width, and Grantee is hereby authorized to designate the course of the easement herein conveyed except that when the pipeline is installed, the easement herein granted shall be limited to a strip of land 15' in width, the center line thereof being the pipeline installed.

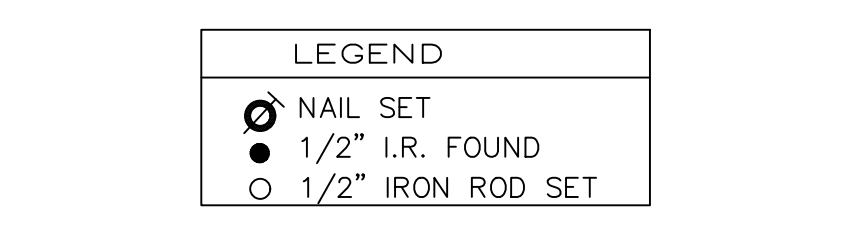
In the event the easement hereby granted abuts on a public road and the city, county or state hereafter widens or relocates the public road so as to require the relocation of this water line as installed, Grantor further grants to Grantee an additional easement over and across the land shown on this plat for the purpose of laterally relocating said water line as may be necessary to clear the road of obstructions, which easement hereby granted shall be limited to a strip of land 15' in width, the center line thereof being the pipeline as relocated.

The consideration recited herein shall constitute payment in full for all damages sustained by Grantor by reason of the installation, maintenance, repair, replacement and relocation of the structures referred to herein. This agreement together with other provisions of this grant shall constitute an easement for the benefit of the Grantee, its successors, and assigns. The Grantor covenants that it is the owner of the above-described lands and that said lands are free and clear of all encumbrances and liens except the following:

The easement conveyed herein was obtained or improved through Federal financial assistance. This easement is subject to the provisions of Title VI of the Civil Rights Act of 1964 and the regulations issued pursuant thereto so long as the easement continues to be used for the same or similar purpose for which financial assistance was extended or for so long as the Grantee owns it, whichever is longer.

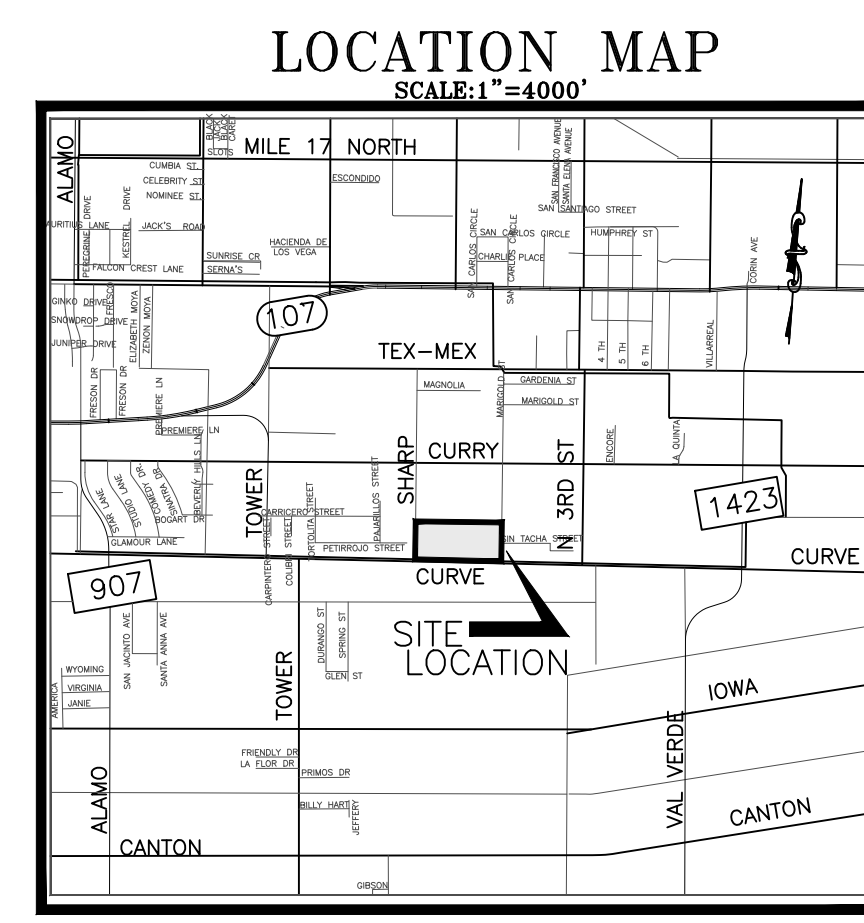
In WITNESS WHEREOF the said Grantor executed this instrument this _____ day of _____ 20____.

KYNDEL W. BENNETT, PRESIDENT
P.O. BOX 365
LA BLANCA ROAD, TX 78558



GENERAL SUBDIVISION PLAT NOTES

- MINIMUM FINISH FLOOR ELEVATION SHALL BE AT 24" ABOVE THE TOP OF THE STREET CURB WHEN MEASURED AT THE CENTER FRONT OF ALL LOTS. ELEVATION CERTIFICATE MAY BE REQUIRED FOR LOTS LOCATED OUTSIDE A DESIGNATED FLOOD ZONE AT THE TIME FOR APPLICATION FOR CONSTRUCTION TO VERIFY PRE AND POST CONSTRUCTION FINISH FLOOR ELEVATIONS. AN ELEVATION CERTIFICATE SHALL BE REQUIRED FOR ALL LOTS WITHIN A DESIGNATED FLOOD ZONE AT THE TIME FOR A DEVELOPMENT PERMIT APPLICATION.
- THIS SUBDIVISION IS LOCATED IN: ZONE "A" (SHADED) FEMA FIRM COMMUNITY PANEL No. 480334 0325 D REVISED JUNE 6, 2000 REVISED TO REFLECT LOMR DATE 05-31-2001
AREAS OF 500-YEAR FLOOD; AREAS OF 100-YEAR FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 100-YEAR FLOODS.
ZONE "B" (MEDIUM SHADED) FEMA FIRM COMMUNITY PANEL No. 480334 0425 C REVISED NOVEMBER 16, 1982.
AREAS BETWEEN LIMITS OF THE 100-YEAR FLOOD AND 500-YEAR FLOOD; OR CERTAIN AREAS SUBJECT TO 100-YEAR FLOODING WITH AVERAGE 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.
CONSTRUCTION OF RESIDENTIAL HOUSING WITHIN ANY AREA OF THE SUBDIVISION THAT IS IN THE 100-YEAR FLOOD PLAIN IS PROHIBITED UNLESS THE HOUSING QUALIFIES FOR INSURANCE UNDER THE NATIONAL FLOOD INSURANCE ACT OF 1968 (42 U.S.C. SECTIONS 4001 THROUGH 4127).
- SETBACKS:
FRONT: 25.00 FEET
REAR: 15.00 FEET OR EASEMENT WHICHEVER IS GREATER
CORNER SIDE: 18.00 FEET
GARAGE FRONT: 18.00 FEET
SIDE: 6.00 FEET OR EASEMENT WHICHEVER IS GREATER
- GENERAL NOTE FOR SINGLE FAMILY RESIDENCES:
NO MORE THAN ONE SINGLE-FAMILY DETACHED DWELLING SHALL BE LOCATED ON EACH LOT. THIS MUST BE STIPULATED ON ALL DEEDS AND CONTRACTS FOR DEEDS (ANY OTHER USE SHALL REQUIRE PLANNING DEPARTMENT, OFFICE OF ENVIRONMENTAL COMPLIANCE, HEALTH DEPARTMENT AND FIRE MARSHALL APPROVAL). APPLICATIONS FOR CONSTRUCTION ARE REQUIRED PRIOR TO OCCUPANCY OF THE LOT.
ONLY LOTS 1, 33, 34, AND 58 ARE ALLOWED FOR POSSIBLE COMMERCIAL USE.
NO COMMERCIAL USE SHALL BE ALLOWED ON ALL INTERNAL LOTS 2 THROUGH 32 AND LOTS 35 THROUGH 52
- CORNER MARKERS, CONSISTING OF A ONE-HALF (1/2) INCH STEEL ROD 18 INCHES IN LENGTH, WITH PLASTIC CAP STAMPED "RIO DELTA SURVEYING", HAVE BEEN DRIVEN FLUSH WITH THE GROUND SURFACE TO MARK THE CORNERS OF ALL LOTS.
- THE FOLLOWING BENCHMARKS ARE IDENTIFIED ON THE FACE OF THE PLAT AND ON THE ATTACHED ENGINEERING PLANS:
---B.M. NO. 1---ELEV. 80.20 ON TOP OF A STORM DRAINAGE MANHOLE ON THE SOUTH WEST CORNER OF SUBDIVISION (NAVD 1988)
---B.M. NO. 2---ELEV. 77.65 ON TOP OF A STORM DRAINAGE TIE AN INLET BETWEEN LOTS 48&49 (NAVD 1988)
- IN ACCORDANCE WITH THE HIDALGO COUNTY DRAINAGE DISTRICT NO. 1 AND HIDALGO COUNTY REQUIREMENTS, THIS DEVELOPMENT WILL BE REQUIRED TO DETAIN A TOTAL OF 55,519 CUBIC-FEET (1.27 ACRE-FEET) OF STORM WATER RUNOFF. DRAINAGE RETENTION IN ACCORDANCE WITH THE LOCAL REQUIREMENTS WILL BE ACCOMPLISHED AS FOLLOWS: (SEE SHEET No.3 FOR STORM SEWER IMPROVEMENTS.)
- NO STRUCTURE SHALL BE PERMITTED OVER ANY EASEMENT. EASEMENTS SHALL BE KEPT CLEAR OF BUILDINGS, SHEDS, SHRUBS TREES, AND OTHER PLANTINGS (EXCEPT LOW, LESS THAN 18 INCHES MATURE HEIGHT, GROUND COVER, GRASS, OR FLOWERS) AND OTHER OBSTRUCTIONS THAT WOULD INTERFERE WITH THE OPERATIONS AND MAINTENANCE OF THE EASEMENT.
- EACH PURCHASED CONTRACT MADE BETWEEN A SUBDIVIDER AND PURCHASER OF A LOT IN THIS SUBDIVISION SHALL CONTAIN A STATEMENT DESCRIBING HOW AND WHEN WATER, SEWER, ELECTRICITY, AND GAS SERVICES WILL BE MADE AVAILABLE TO THE SUBDIVISION.
- ALL PUBLIC UTILITIES EASEMENTS DEDICATED BY THIS PLAT SHALL BE A MINIMUM WIDTH OF 15.00 FEET AS PER THE HIDALGO COUNTY MODEL SUBDIVISION RULES. BY SIGNING THIS PLAT, DEVELOPER AND ENGINEER CERTIFY THAT ALL OTHER EASEMENTS SHOWN COMPLY WITH THE SIZE REQUIRED BY EACH UTILITY PROVIDER OCCUPYING AN EASEMENT.
- THERE ARE NO WATER WELLS WITHIN 150 FEET FROM THE BOUNDARIES ON THIS SUBDIVISION
- AN OFF-STREET PARKING LOT SITE PLAN & DRAINAGE PLAN APPROVED BY THE HIDALGO COUNTY PLANNING DEPARTMENT AND THE OFFICE OF ENVIRONMENTAL COMPLIANCE SHALL BE REQUIRED FOR COMMERCIAL USE AT THE TIME OF APPLICATION FOR CONSTRUCTION PRIOR TO THE ISSUANCE OF A BUILDING AND/OR DEVELOPMENT PERMIT. NO WATER OR LIGHT CLEARANCES SHALL BE ISSUED UNTIL THE SITE PLAN, DRAINAGE PLAN AND OSSF PLAN ARE APPROVED AND PROPOSED IMPROVEMENTS ARE CONSTRUCTED IN ACCORDANCE WITH COUNTY AND STATE STANDARDS.
- ON-SITE SEWAGE FACILITIES (OSSF) NOTE: THIS SUBDIVISION SHALL USE ON-SITE SEWAGE FACILITIES IN ACCORDANCE WITH TCEQ AND HIDALGO COUNTY REGULATIONS FOR SEWAGE DISPOSAL. THE SUBDIVIDER IS RESPONSIBLE FOR PROVIDING AN OSSF ON ALL LOTS.
A. OSSF SYSTEM IS BEING DESIGNED FOR DISPOSAL OF DOMESTIC SEWAGE ONLY. A SEPARATE DESIGN SHALL BE SUBMITTED FOR COMMERCIAL USE.
B. EACH LOT ON THIS PLAT COMPLIES WITH THE MINIMUM 21,780 SQUARE FEET LOT AREA WITH POTABLE WATER SUPPLY.
C. OSSF SYSTEM SHALL REQUIRE INSPECTION AND APPROVAL BY HIDALGO COUNTY AUTHORIZED DEPARTMENT
D. SOIL ANALYSIS HAVE BEEN SUBMITTED TO THE AUTHORIZED HIDALGO COUNTY DEPARTMENT AND EXCERPTS MAY BE ALSO SEEN ON THE UTILITY LAYOUT FOR THIS SUBDIVISION AS SUBMITTED TO THE HIDALGO COUNTY PLANNING DEPARTMENT. THE ENGINEER HAS DETERMINED THAT THE SOIL IS SUITABLE FOR A STANDARD SEPTIC TANK AND ABSORPTIVE DRAINFIELD SYSTEM.
E. APPROVED "OSSF" PERMIT APPLICATION IS REQUIRED INCLUDING INDIVIDUAL LOT PLANNING MATERIALS PRIOR TO OCCUPANCY A LOT.
- THERE ARE NO WATER WELLS WITHIN 150 FEET FROM THE BOUNDARIES ON THIS SUBDIVISION
- KYNDEL W. BENNETT, THE OWNER & SUBDIVIDER OF DOS VIENTOS ESTATES SUBDIVISION, RETAINS A BLANKET EASEMENT UPON EACH LOT FOR THE PURPOSE OF INSTALLING AN APPROVED OSSF ON THE LOT AS DESCRIBED ON SHEET NO.2 OF THIS PLAT.
- ALL CONSTRUCTION SHALL COMPLY WITH STORM WATER POLLUTION PREVENTION PLAN (SWPP) REQUIREMENTS.
- NO ACCESS SHALL BE ALLOWED FROM SHARP ROAD ONTO LOTS 1, 33, 34 & 58. UNLESS THE AFOREMENTIONED LOTS ARE UTILIZED FOR COMMERCIAL USE SUBJECT TO THE HIDALGO COUNTY PLANNING DEPARTMENT SITE PLAN REVIEW AS PER PLAT NOTE NO.11. THE LOT OWNER SHALL BE REQUIRED TO INSTALL A BUFFER FENCE ABUTTING ALL RESIDENTIAL LOTS.
- STREET & STOP SIGNS WILL BE INSTALLED BY THE DEVELOPER.
- A 4.0 FT SIDEWALK IS REQUIRED AT BUILDING PERMIT STAGE, AS PER CITY OF EDINBURG, ALONG ALL INTERNAL STREETS.
- A 5.0 FT SIDEWALK IS REQUIRED AT BUILDING PERMIT STAGE, AS PER CITY OF EDINBURG, ALONG SHARP ROAD.
- FIRE HYDRANTS WILL BE INSTALLED & PAINTED BLACK BY THE DEVELOPER.
- STREET LIGHT WILL BE INSTALLED BY THE DEVELOPER.



| CURVE | LENGTH | RADIUS | DELTA | CHORD |
|-------|---------|--------|------------|---------|
| C1 | 25.37' | 50.00' | 29°09'28" | 25.10' |
| C2 | 47.15' | 50.00' | 54°01'34" | 45.42' |
| C3 | 40.02' | 50.00' | 45°51'46" | 38.96' |
| C4 | 45.54' | 50.00' | 52°11'00" | 43.98' |
| C5 | 61.83' | 50.00' | 70°51'25" | 57.97' |
| C6 | 50.72' | 50.00' | 58°07'14" | 48.57' |
| C7 | 45.53' | 50.00' | 52°10'07" | 43.97' |
| C8 | 157.08' | 50.00' | 180°00'00" | 100.00' |
| C9 | 157.08' | 50.00' | 180°00'00" | 100.00' |

| LINE | LENGTH | DELTA |
|------|--------|---------------|
| L1 | 35.36' | N 35°56'56" W |
| L2 | 35.36' | N 54°03'04" E |
| L3 | 35.36' | N 35°56'56" W |
| L4 | 35.36' | N 54°03'04" E |
| L5 | 14.14' | N 54°03'04" E |
| L6 | 14.14' | N 35°56'56" W |

PRINCIPAL CONTACTS:

| | | | | | | | | | |
|-----------|-----------------------------------|---------|------------------|------------|------------------|-------|----------------|-----|----------------|
| OWNER: | KYNDEL W. BENNETT, BENNETT-FLORES | Address | P.O. BOX 365 | City & Zip | LA BLANCA 78558 | Phone | (956) 464-4431 | Fax | (956) 464-2597 |
| ENGINEER: | KAMBIZ S. KHADEMI, P.E. | Address | 410 E. DOVE AVE. | City & Zip | McALLEN 78504 | Phone | (956) 630-2125 | Fax | (956) 630-2219 |
| SURVEYOR: | JOSE MARIO GONZALEZ, R.P.L.S. | Address | 24593 FM88 | City & Zip | MONTE ALTO 78538 | Phone | (956) 380-5154 | Fax | (956) 380-5156 |

K K Engineering Consultant
GENERAL PROFESSIONAL CIVIL ENGINEERING SERVICES
410 E. DOVE (FIRM REGISTRATION #1334)
P.O. BOX 3422 McALLEN, TEXAS 78502
(956) 630-2125 FAX (956) 630-2219

| REVISION | DATE | BY |
|----------|------|----|
| | | |

FINAL WATER AND SEWER ENGINEERING REPORT

WATER SUPPLY, DESCRIPTION, COST, AND OPERABILITY DATE:
 DOS VIENTOS ESTATES SUBDIVISION HAS BEEN PROVIDED WITH POTABLE WATER BY 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 DOCUMENTATION TO SUFFICIENTLY ESTABLISH THE LONG TERM QUANTITY AND QUALITY OF THE AVAILABLE WATER SUPPLIES TO SERVE THE FULL DEVELOPMENT OF THIS SUBDIVISION. N.A.W.S.C. HAS ONE EXISTING 8" WATER LINE WITHIN THE WEST SIDE OF SHARP ROAD WITHIN AN EXISTING 15 FOOT N.A.W.S.C. EASEMENT. FROM THIS PREVIOUS MENTIONED LINE, TWO PROPOSED 8" WATER LINE WILL INSTALL RUNNING EAST WITHIN THE PROPOSED ROAD ROWS OF (PETREROUJ ST., PETAZUL ST. AND PETIBLANCO ST.)

WATER DISTRIBUTION FOR THE DOS VIENTOS ESTATES SUBDIVISION CONSISTS OF FORTY EIGHT (48)-1" DIAMETER DUAL SERVICE LINES AND TEN (10) 3/4" SINGLE SERVICE LINES. THE 8" WATER LINES, THE METER BOXES & LOCKS HAVE ALREADY BEEN INSTALLED, AT A TOTAL COST OF \$ _____ OR \$ _____ PER LOT. IN ADDITION, THE SUBDIVIDER HAS PAID N.A.W.S.C. THE SUM OF \$ _____ WHICH COVERS THE COST PER LOT AS STATED IN THE 30 YEAR WATER SERVICE AGREEMENT WHICH SUM REPRESENTS THE TOTAL COST OF WATER METER, RIGHTS ACQUISITION FEES, AND ALL MEMBERSHIP OR OTHER FEES ASSOCIATED WITH CONNECTING THE INDIVIDUAL LOTS IN THE SUBDIVISION TO N.A.W.S.C. UPON REQUEST BY THE LOT OWNER, N.A.W.S.C. WILL PROMPTLY INSTALL AT NO CHARGE THE WATER METER FOR THAT LOT. THE SUBDIVIDER HAS INSTALLED _____ FIRE HYDRANTS AT A UNIT COST OF \$3,730.00 FOR A TOTAL COST OF \$14,920.00. THE ENTIRE WATER FACILITIES HAVE BEEN APPROVED AND ACCEPTED BY N.A.W.S.C. AND SAID DISTRIBUTION SYSTEM IS OPERABLE AS OF THE DATE OF THE RECORDING OF THE PLAT.

SEWAGE FACILITIES DESCRIPTION: COST AND OPERABILITY DATES
 SEWAGE FROM DOS VIENTOS ESTATES SUBDIVISION WILL BE TREATED BY INDIVIDUAL ON-SITE SEWAGE FACILITIES ("OSSF") CONSISTING OF A STANDARD DESIGN DUAL COMPARTMENTS SEPTIC TANK AND A DRAIN FIELD ON EACH LOT. JOSE A. GONZALEZ SITE EVALUATOR REG.# 122758, HAS EVALUATED THE SUITABILITY OF THE SUBDIVISION SITE 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. EACH LOT HAS ADEQUATE AREA FOR A REPLACEMENTS DRAIN FIELD.

EACH LOT IN THE PROPOSED SUBDIVISION IS AT LEAST 1/2 ACRE IN SIZE. THE NATURAL RESOURCE CONSERVATION SERVICE SOUL SURVEY BOOK INDICATED A SANDY LOAM SOIL FOR THE AREA. TOTAL OF 6 BORES WERE DONE (ADDITIONAL BORINGS WERE UNNECESSARY BECAUSE THE SOILS ARE VERY UNIFORM WITHIN THIS LIMIT AREA). THE SOIL IS A UNIFORM SANDY LOAM CLASS. EXTENSION UP TO 36" BELOW THE BOTTOM OF ANY PROPOSED EXCAVATIONS. THERE IS NO INDICATION OF GROUNDWATER OR A RESTRICTIVE LAYER WITHIN 24" OF BOTTOM OF THE PROPOSED EXCAVATIONS. THE SUBDIVISION DRAINS WELL.

THE COST OF THE INSTALLATION OF THE SEPTIC SYSTEM ON AN INDIVIDUAL LOT WAS \$1,200.00, INCLUDING THE COST FOR THE REQUIRED PERMIT AND LICENSE. ALL OSSF'S HAVE BEEN INSTALLED AND FINALIZED AT THIS TIME AT A TOTAL COST OF \$69,600.00. THE HIDALGO COUNTY HEALTH DEPARTMENT HAS INSPECTED AND APPROVED THE INSTALLATION OF ALL OSSF'S.

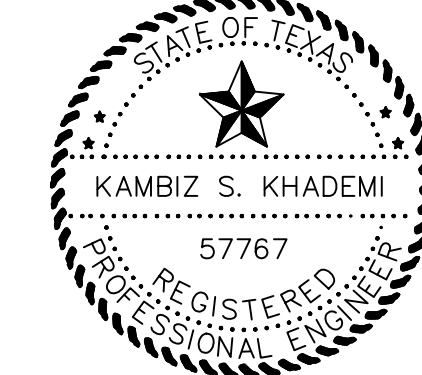
ENGINEER CERTIFICATION:
 BY MY SIGNATURE BELOW, I CERTIFY THAT THE WATER AND SEWAGE SERVICE FACILITIES DESCRIBED ABOVE ARE IN COMPLIANCE WITH THE MODEL RULES ADOPTED UNDER SECTION 16.343, WATER CODE. I CERTIFY THAT THE COST TO INSTALL THE WATER DISTRIBUTION SYSTEM AND ONSITE SEWAGE FACILITIES, DISCUSSED ABOVE, ARE AS FOLLOWS:

WATER FACILITIES - THESE FACILITIES FULLY CONSTRUCTED, WITH THE INSTALLATION OF WATER METERS, WILL COST A GRAND TOTAL OF \$ _____, WHICH EQUALS TO \$ _____ PER LOT.

SEWAGE FACILITIES - SEPTIC SYSTEM HAS BEEN INSTALLED AT A TOTAL COST OF \$1,200.00 PER LOT (ALL INCLUSIVE), FOR A TOTAL OF \$69,600.00 FOR THE ENTIRE SUBDIVISION.

KAMBIZ S. KHADEMI, PE
 P.E. # 57767

DATE



PROVISION DE AGUA: DESCRIPCION, GASTOS Y FECHAS DE INICIO
 DOS VIENTOS ESTATES SUBDIVISION HA SIDO PROVEIDA DE AGUA POTABLE POR NORTH ALAMO WATER SUPPLY CORP. (N.A.W.S.C.). EL DUENO Y N.A.W.S.C. HAN HECHO UN CONTRATO EN CUAL N.A.W.S.C. HA PROMETIDO PROPORCIONAR SUFICIENTE AGUA A LA SUBDIVISION DURANTE AL MENOS 30 AÑOS Y N.A.W.S.C. HA PROPORCIONADO LA DOCUMENTACION PARA ESTABLECER SUFICIENTEMENTE LA CANTIDAD Y LA CALIDAD DE LOS ABASTECIMIENTOS DE AGUA DISPONIBLES PARA SERVIR EL DESARROLLO LLENO DE ESTA SUBDIVISION. N.A.W.S.C. TIENE DOS LINEAS DE 8" A LADO OESTE DE LA CALLE SHARP RD DENTRO DE UN DERECHO DE PASO DE 15 PIES ASIGNADO A N.A.W.S.C. DE ESTA MISMA LINEA, SE INSTALARAN DOS LINEAS DE 8 PULGADAS AL ESTE DE LA CALLE SHARP DENTRO DEL DERECHO DE VELA DE LA CALLES (PETREROUJ, PETAZUL, Y PETIBLANCO)

DISTRIBUCION DE AGUA PARA DOS VIENTOS ESTATES SUBDIVISION CONSISTE EN DIEZ (10) LINEAS DE 3/4" SERVICIO SENCILLO Y CUARETA Y OCHO (8) LINEAS DE 1" DIAMETRO DE SERVICIO DUALES CUALES TERMINAN EN LAS CAJA DEL MEDIDOR CON CANDADOS DE CADA SOLAR. LAS LINEAS DE SERVICIO DUALES Y SENCILLOS DE 3/4" Y LAS CAJAS DEL MEDIDOR HAN SIDO INSTALADAS A UN COSTO TOTAL DE \$ _____ O \$ _____ POR LOTE. EL DUENO DE LA SUBDIVISION TAMBIEN LE HA PAGADO A LA COMPANIA N.E.W.S.C. \$ _____, DE ACUERDO AL CONTRATO DE LA CARTA DE 30 AÑOS LA CUAL CUBRE EL COSTO DEL MEDIDOR MECANICO DE AGUA PARA CADA LOTE, \$ _____, ESTE PRECIO INCLUYE EL COSTO DE LA INSTALACION DE CADA MEDIDOR Y LOS GASTOS DE CONEXION. CUANDO EL DUENO DE CADA LOTE SOLICITE UN MEDIDOR DE AGUA, LA COMPANIA N.E.W.S.C. LO INSTALARA SIN ALGUN GASTO AL DUENO. EL DUENO DE LA SUBDIVISION TAMBIEN HA INSTALADO 4 BOCAS DE REGO (FIRE HYDRANT) A UN COSTO INDIVIDUAL DE \$3,730.00 A UN COSTO TOTAL DE \$14,920.00. EL SISTEMA DE AGUA ESTARA EN FUNCIONAMIENTO COMPLETO ANTES O EN LA FECHA, EN LA CUAL LA SUBDIVISION SEA REGISTRADA EN EL CONDADO DE HIDALGO.

DRENAJE: DESCRIPCION, GASTOS Y FECHA DE INICIO PARA FACILITAR EL DRENAJE PARA LA SUBDIVISION
 SE INSTALARA UNA FOSA SEPTICA EN CADA SOLAR. ESTA FOSA SEPTICA CONSISTE EN UN TANQUE SEPTICO DE MODELO DUAL Y DE UN CAMPO DE DRENAJE PARA EL SOLAR. JOSE A. GONZALEZ EVALUADOR DE SUELOS REG.# 12258 EH AUTOR DE ESTE DOCUMENTO HA EVALUADO EL AREA DONDE SE ENCUENTRA LA SUBDIVISION Y HA PREPARADO UN REPORTE QUE CONCLUYE QUE ESTE TERRENO ES ADECUADO PARA ESAS FOSAS SEPTICAS (OSSF). EL REPORTE FUE APROBADO POR EL DEPARTAMENTO DE SALUBRIDAD DEL CONDADO DE HIDALGO (HIDALGO COUNTY HEALTH DEPARTMENT) SEGUN EL REPORTE.

CADA LOTE EN LA SUBDIVISION MIDE MEDIO ACRE. SE HICIERON 6 EXCAVACIONES DE EVALUACION DE SUELO EN LUGARES OPUESTOS EN LA SUBDIVISION (EXCAVACIONES ADICIONALES NO FUERON NECESARIAS PORQUE EL TERRENO EN ESTA AREA ES SIGNIFICATIVAMENTE UNIFORME). EL TERRENO ES UNIFORME (TERRENO ARCILLOSO Y SUELO FRANCO) Y SE EXTIENDE A 36 PULGADAS BAJO TODAS LAS EXCAVACIONES PROPUESTAS. NO EXISTE EVIDENCIA DE AGUA 24 PULGADAS MAS ARRIBA DE LO MAS BAJO DE LAS EXCAVACIONES PROPUESTAS. EL AGUA EN ESTA AREA FLUYE BIEN.

EL COSTO TOTAL PARA LA INSTALACION DE UN SISTEMA INDIVIDUAL DE FOSAS SEPTICAS POR SOLAR SON \$1,200.00 DOLARES, 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 \$69,600.00. EL DEPARTAMENTO DE SALUBRIDAD DEL CONDADO DE HIDALGO HA INSPECCIONADO TODOS LAS FOSAS SEPTICAS Y HA APROBADO LA INSTALACION DEL SISTEMA DE FOSAS SEPTICAS.

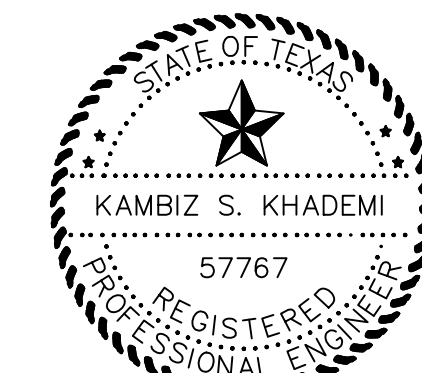
CERTIFICACION:
 CON MI FIRMA, CERTIFICO QUE LOS SERVICIOS Y SISTEMAS DE AGUA Y DE DRENAJE, DESCRITOS EN ESTE DOCUMENTO CUMPLEN CON LAS MODEL SUBDIVISION RULES (LAS REGLAS GOBERNANDO A LAS SUBDIVISIONES), ADOPTADAS EN LA SECCION 16.343 DEL TEXAS WATER CODE (CODIGO DE AGUA DE TEXAS). CERTIFICO QUE LOS GASTOS PARA INSTALAR LOS SISTEMAS DE AGUA Y DE DRENAJE SON:

AGUA: EL SISTEMA/SERVICIO DE AGUA SERA INSTALADO Y COMPLETAMENTE CONSTRUIDO MENOS EL MEDIDOR MECANICO DE AGUA QUE COSTARA UN TOTAL DE \$ _____ O \$ _____ POR LOTE

DRENAJE: SE ESTIMA QUE LA FOSA SEPTICA COSTARA \$1,200.00 POR SISTEMA A UN COSTO TOTAL DE \$69,600.00 TODA LA SUBDIVISION.

KAMBIZ S. KHADEMI, PE
 P.E. # 57767

DATE



SUBDIVIDER CERTIFICATION:
 1.-BY COMPLETING THE IMPROVEMENTS DESCRIBED ON THE PLAT, SUBDIVIDER WILL COMPLY WITH MINIMUM STATE STANDARDS AND THAT (a) WATER QUALITY AND CONNECTIONS INCLUDING WATER METERS TO THE LOTS MEET SUCH STANDARDS AND (b)SEWER CONNECTIONS TO THE LOTS OR SEPTIC TANKS MEET OR WILL MEET SUCH STANDARDS AND WILL BE CONSTRUCTED IN ACCORDANCE WITH STATE AND COUNTY REGULATIONS.

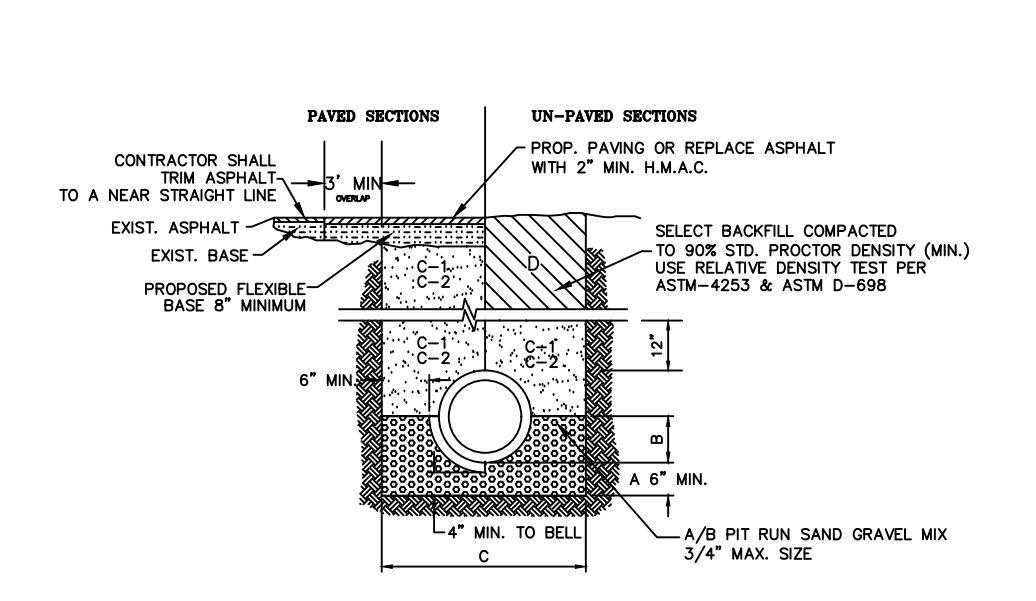
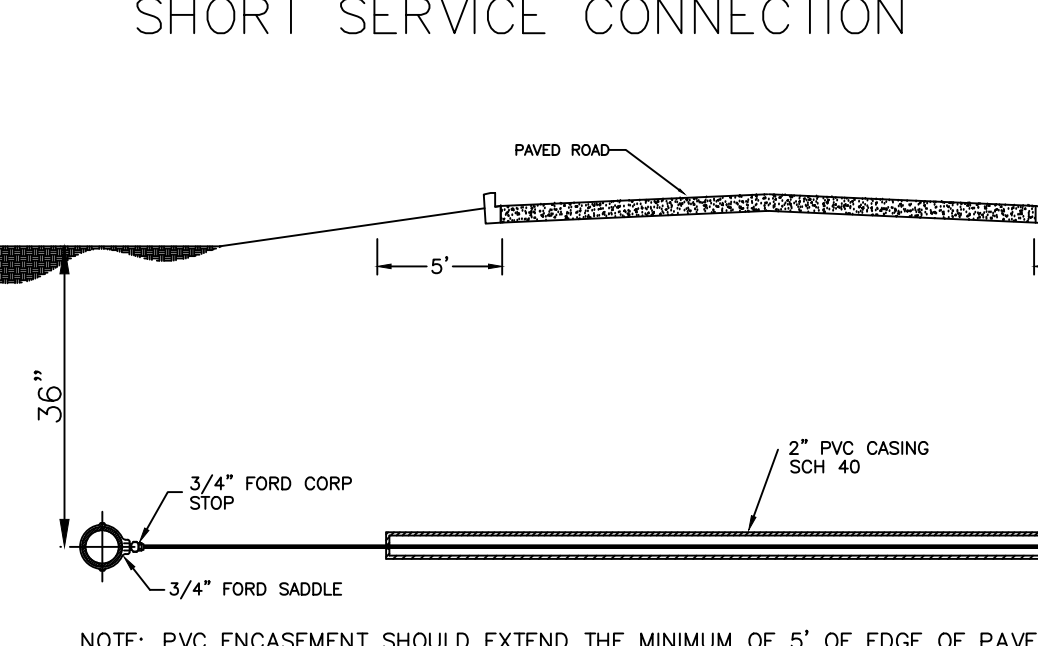
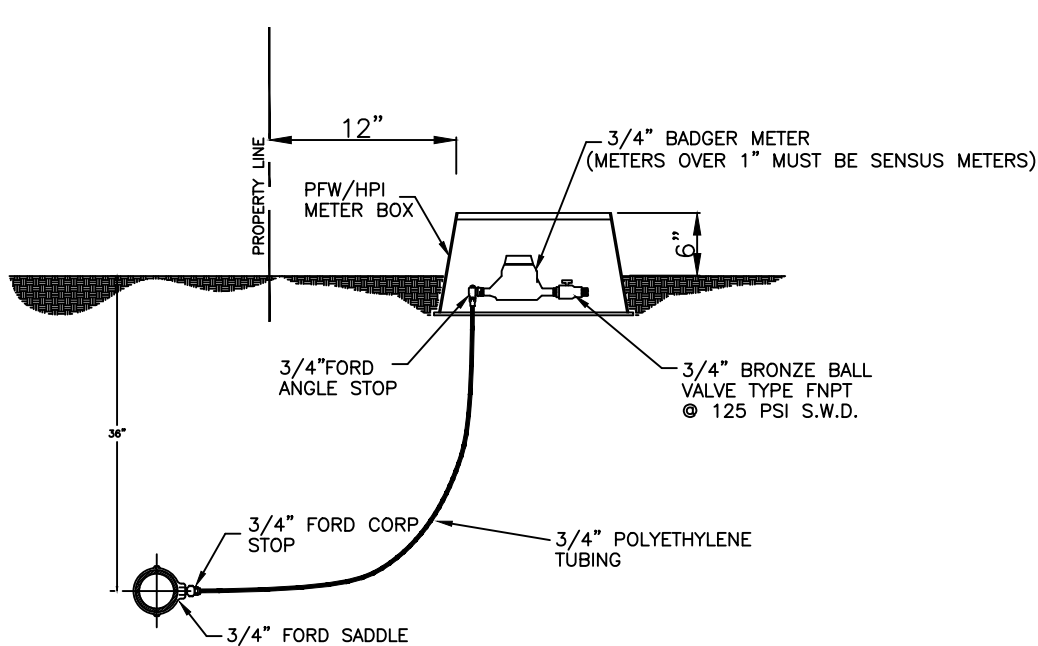
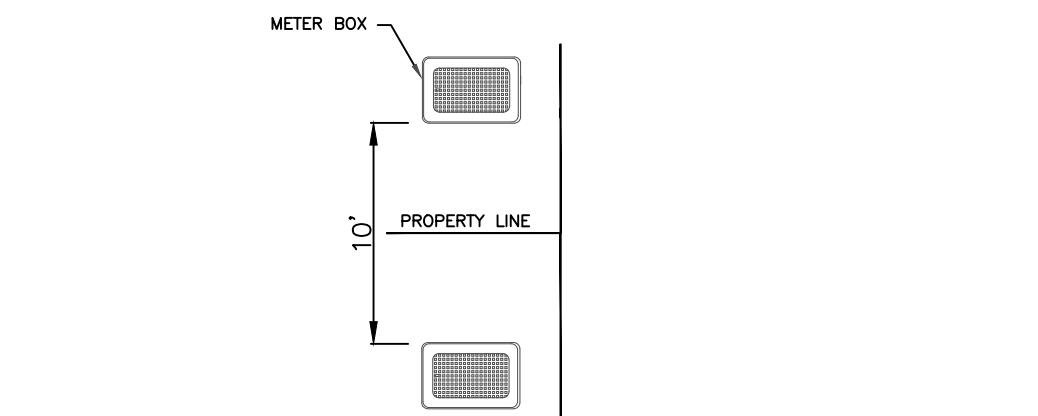
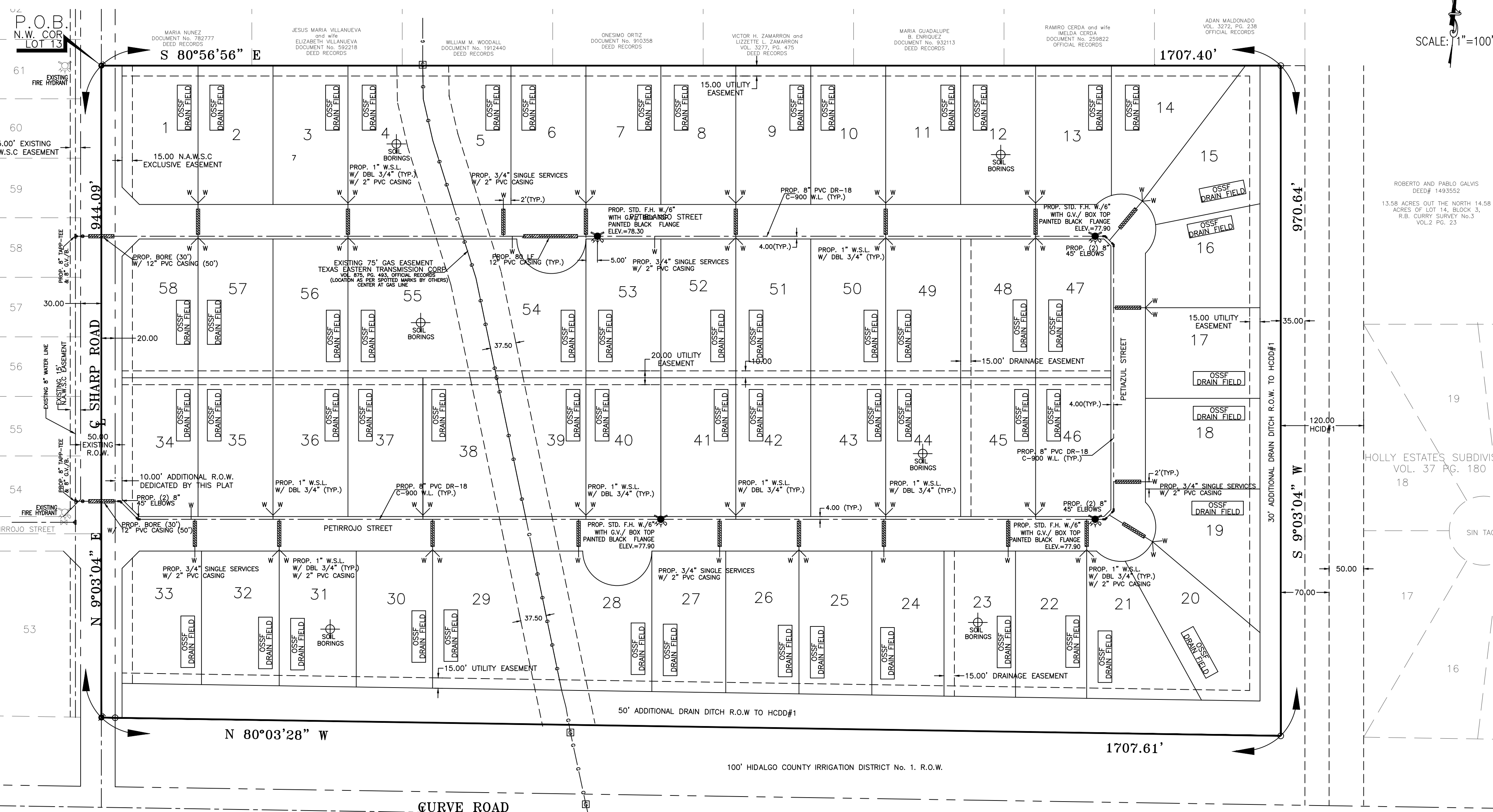
SUBDIVIDER STATEMENT:
 1.-I, KYNDEL W. BENNETT, SUBDIVIDER OF DOS VIENTOS ESTATES SUBDIVISION HEREBY CERTIFY SEWER PERMITS HAVE BEEN PAID AND ARE ON FILE WITH HIDALGO COUNTY HEALTH DEPARTMENT AND THAT AN ADEQUATE DRINKING WATER SOURCE IS IMMEDIATELY AVAILABLE TO EACH LOT OF THE TYPE, QUALITY AND QUANTITY TO ENABLE EACH PERSON PURCHASING A LOT TO HAVE ADEQUATE WATER TO COMPLY WITH THE REGULATIONS AND THE LAWS OF THE STATE REQUIRED BY STATE AND COUNTY REGULATIONS.

OWNER:
 DOS VIENTOS ESTATES, L.P., o
 A TEXAS LIMITED PARTNERSHIP
 KRJ RGV, L.L.C., o
 A TEXAS LIMITED LIABILITY COMPANY
 GENERAL PARTNER
 KYNDEL W. BENNETT, PRESIDENT
 BOX 365
 LA BLANCA, TX 78558

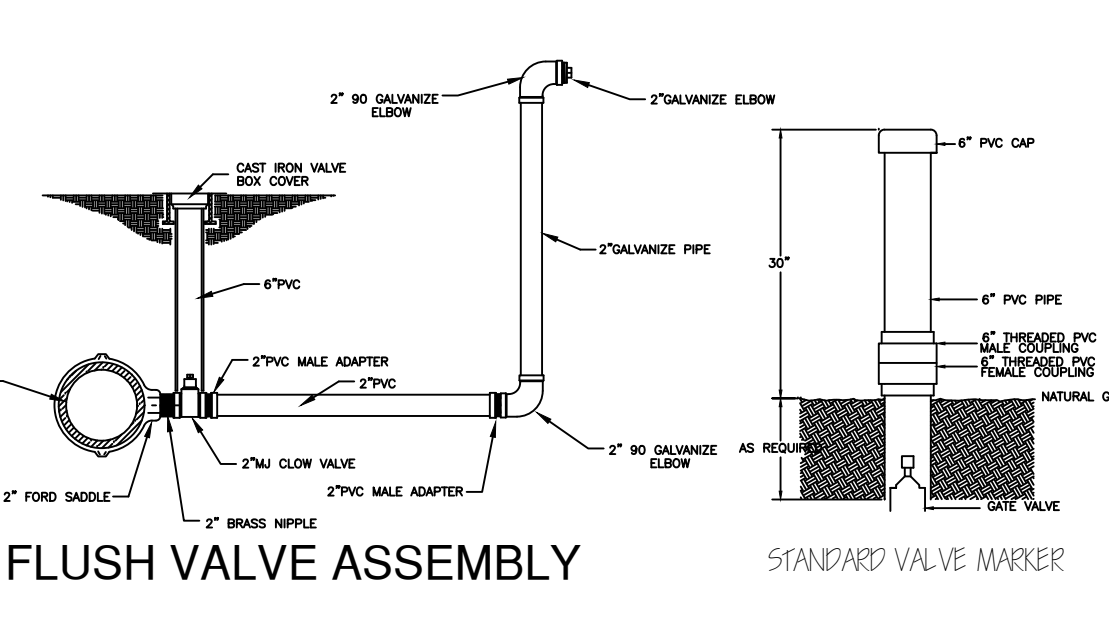
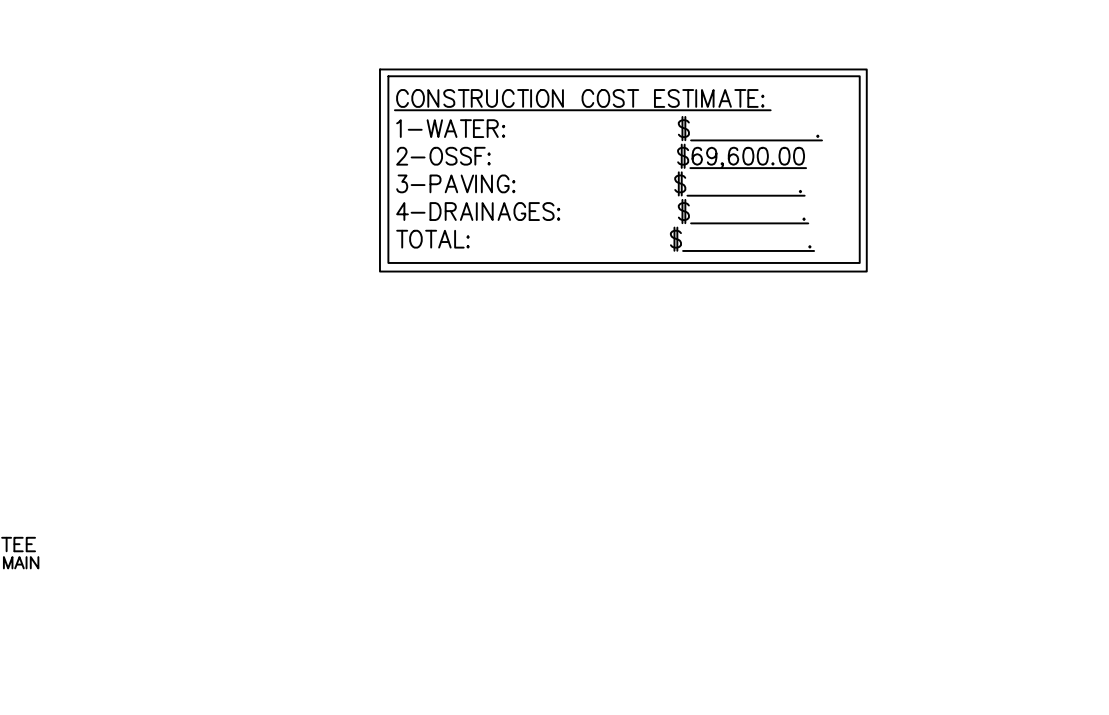
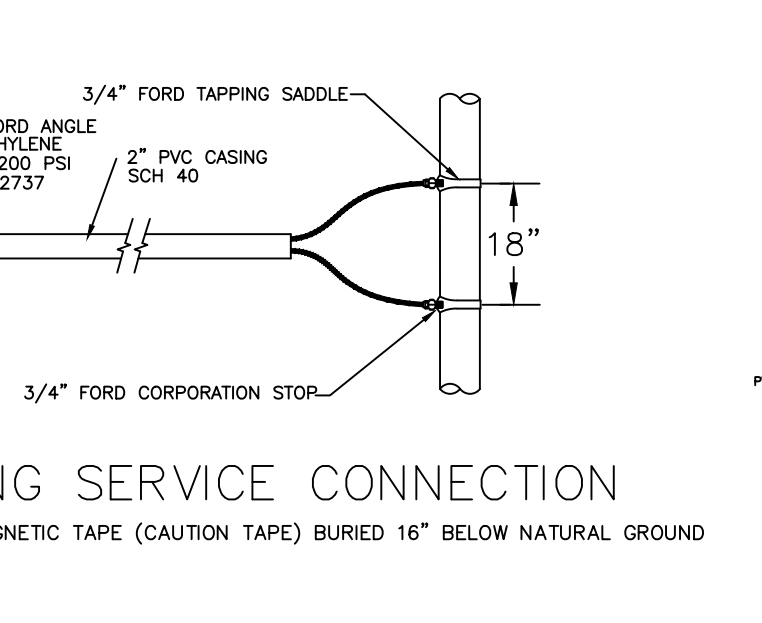
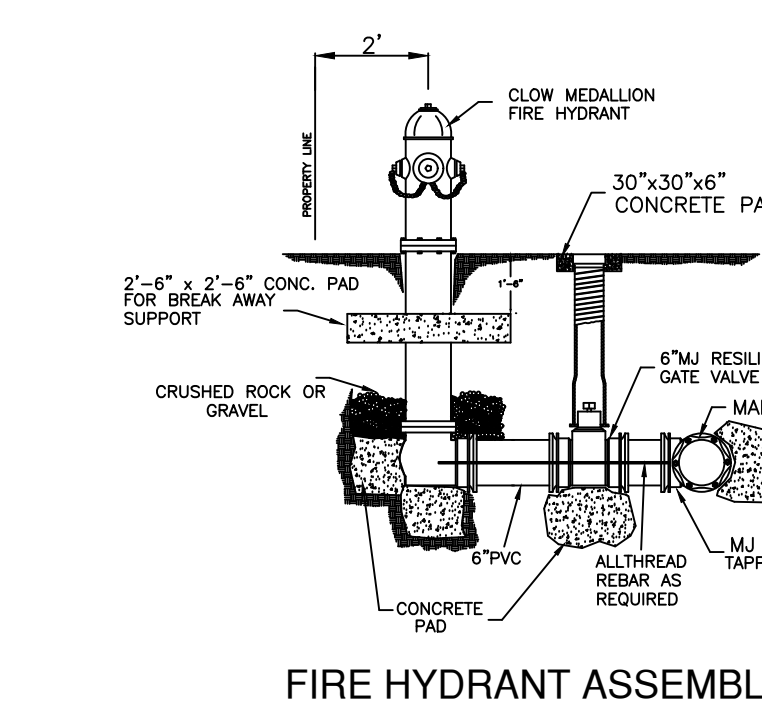
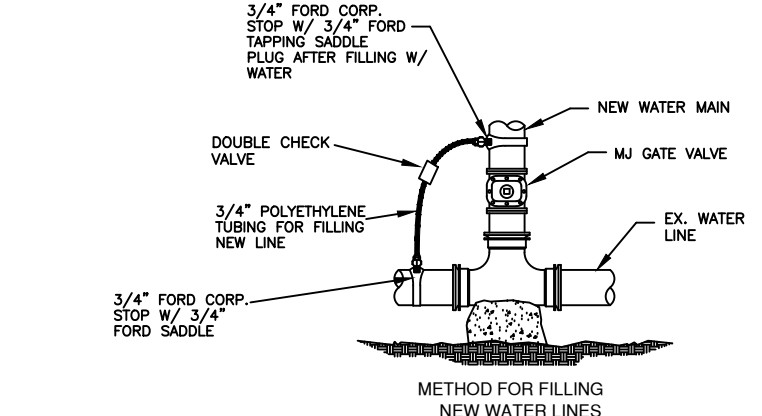
STATE OF TEXAS
 COUNTY OF HIDALGO

BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED KYNDEL W. BENNETT, KNOWN TO ME BY THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR PURPOSED AND CONSIDERATION THEREIN STATED, GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS _____ DAY OF _____, 20____.

NOTARY PUBLIC
 MY COMSTUART EXPIRES _____



- STORM TRENCH BEDDING AND BACKFILL DETAILS**
 N.T.S.
- SAND GRAVEL MIX BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW OF PIPE (MIN. THICKNESS = 6") - PIT RUN GRAVEL 3/4" MAX. SIZE.
 - SAND GRAVEL MIX AFTER PIPE IS LAID, FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. PIT RUN GRAVEL 3/4" MAX. SIZE.
 - TRENCH WIDTHS SHALL BE BELL O.D. x 1.25 + 12".
 - (CITY STREETS, PARKING AREA, DRIVEWAYS, COUNTY ROAD & UNPAVED AREAS) SELECT EXCAVATED BACK FILL SHALL BE SOL. TYPE A1, A2, A3, (AASHTO M145) COMPACTED TO 90% STD. PROCTOR DENSITY (MIN.)
 - (STATE MAINTAINED ROADWAYS) COMPACTED SAND/CEMENT STABILIZED BACK FILL WITH 7% PORTLAND CEMENT COMPACTED AS PER ASTM D-4253 AND ASTM D-698.
 - SELECTED EARTH BACKFILL COMPACTED TO 90% STANDARD PROCTOR DENSITY (12" LIFT, MECHANICAL COMPACTION). FOUNDATION PREPARATION (WELPPONTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTES) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE. BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, STABILIZED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO 90% STANDARD PROCTOR DENSITY (USE RELATIVE DENSITY TEST PER ASTM D-4253 & ASTM D-698). THE THICKNESS OF EACH LOOSE LAYER SHALL NOT EXCEED 8". STRUCTURE BACKFILL MATERIAL SHALL BE SAND, APPROVED SITE SOIL, OR OTHER APPROVED SUBSTITUTE.



CONSTRUCTION COST ESTIMATE:

| | |
|--------------|-------------|
| 1-WATER: | \$ _____ |
| 2-OSSF: | \$69,600.00 |
| 3-PAVING: | \$ _____ |
| 4-DRAINAGES: | \$ _____ |
| TOTAL: | \$ _____ |

BY _____ DATE _____

REVISION _____

K K Engineering Consultant
 GENERAL PROFESSIONAL CIVIL ENGINEERING SERVICES
 (FIRM REGISTRATION # - 1334)
 M-ALLEN, TEXAS 78502
 (956) 630-3125
 FAX (956) 630-2919

K K Engineering Consultant
 GENERAL PROFESSIONAL CIVIL ENGINEERING SERVICES
 (FIRM REGISTRATION # - 1334)
 M-ALLEN, TEXAS 78502
 (956) 630-3125
 FAX (956) 630-2919

STATE OF TEXAS
 REGISTERED PROFESSIONAL ENGINEER
 57767

STATE OF TEXAS
 REGISTERED PROFESSIONAL ENGINEER
 57767

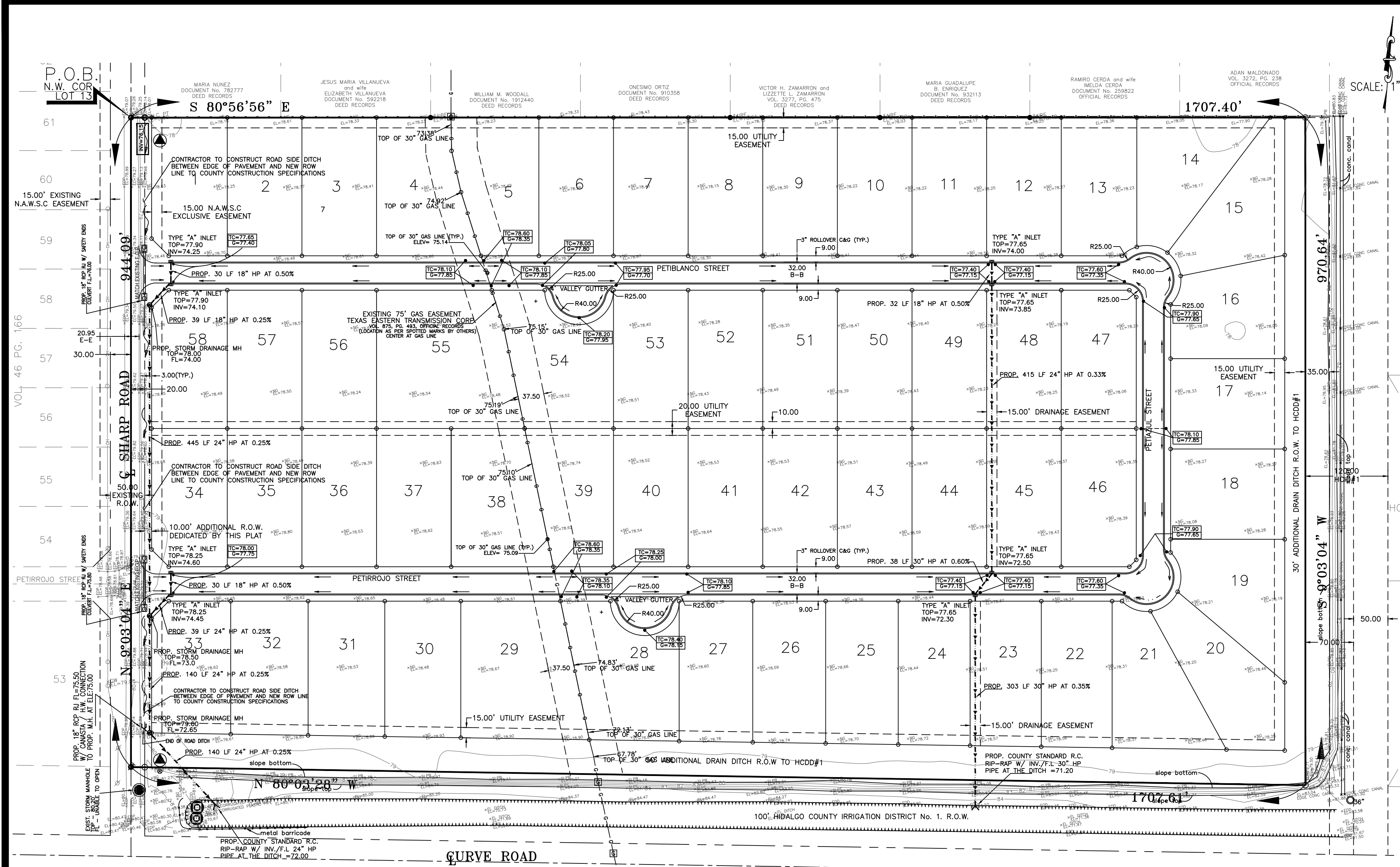
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KAMBIZ S. KHADEMI, P.E. # 57767 SEPTEMBER 2015 ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE LAW

DOS VIENTOS ESTATES SUBDIVISION
 HIDALGO COUNTY ETJ EDINBURG

EXISTING TOPO AND PROPOSED WATER IMPROVEMENTS (NAWSC) AND SEPTIC TANKS
 DOS VIENTOS ESTATES, LLC

Copyright 2015 KK Engineering Consultant
 All Rights Reserved.
 File Name: SEPTIC & WATER

SHEET 2 OF 3



DOS VIENTOS ESTATES SUBD.-DRAINAGE REPORT (37.53 -AC. /GROSS) (34.97-AC.NET)

THE REFERENCED SUBDIVISION IS A 34.97-AC. NET TRACT OF LAND LOCATED ON THE NORTH EAST CORNER OF CURVE AND SHARP ROADS. THIS AREA IS IN 2 1/2 MILE ETJ OF CITY OF EDINBURG.

THE PROPOSED USE IS MOSTLY FOR SINGLE-FAMILY RESIDENTIAL LOTS (58). THE NATURAL DRAINAGE IN THE GENERAL AREA IS TO THE EAST OUT-FALLING INTO THE EXISTING HCDD#1 DRAINAGE DITCH. THE EXISTING RUNOFF FROM THE SITE FOR A 10-YEAR STORM IS 13.67 CUBIC FEET PER SECOND (SEE TABLES I, IA, AND II).

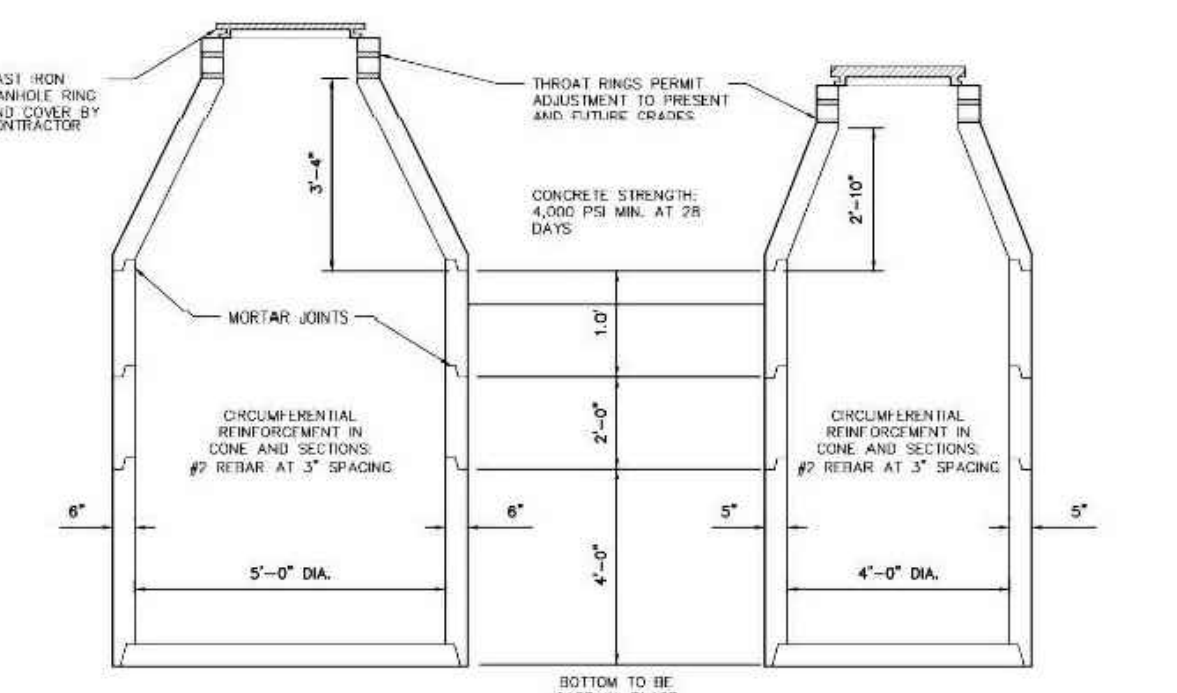
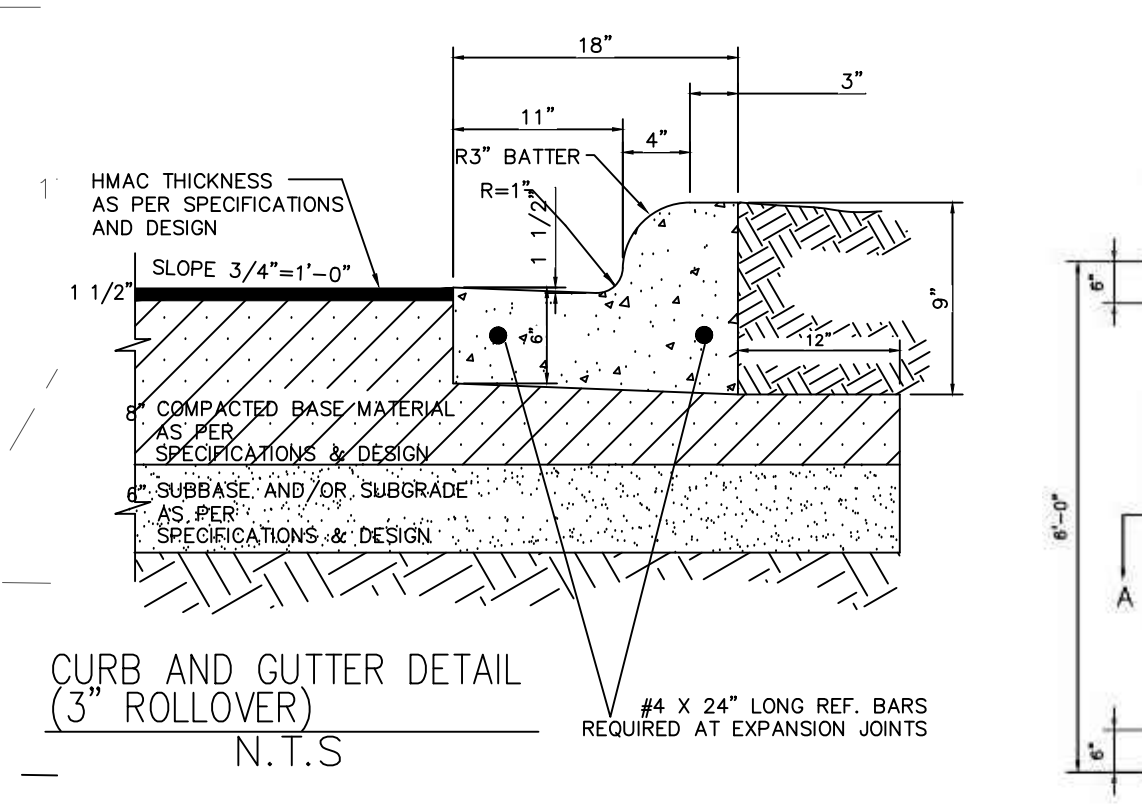
THE PROPOSED DEVELOPMENT (DUE TO LARGE LOTS & SMALL HOMES) WILL VERY SLIGHTLY INCREASE RUNOFF WITHOUT DETENTION TO 23.71 CUBIC FEET PER SECOND BASED ON A 10-YEAR STORM. BASED ON THE COUNTY'S POLICY THAT THERE BE NO ADDITIONAL RUNOFF FROM A 10-YEAR STORM, A 55,169 CUBIC FEET (1.27 ACRE-FEET) OF DETENTION IS REQUIRED, AND THIS WILL BE ACCOMPLISHED BY HCDD#1'S EXISTING DRAINAGE DITCH WIDENING.

ADDITIONAL DRAINAGE IMPROVEMENTS ARE PROVIDED VIA STREET/GUTTER POSITIVE FLOW WITH CURB INLETS AND 18"/24"/30" DRAINAGE PIPES OUT-FALLING IN TO THE EXISTING HCDD#1 DRAINAGE DITCH.

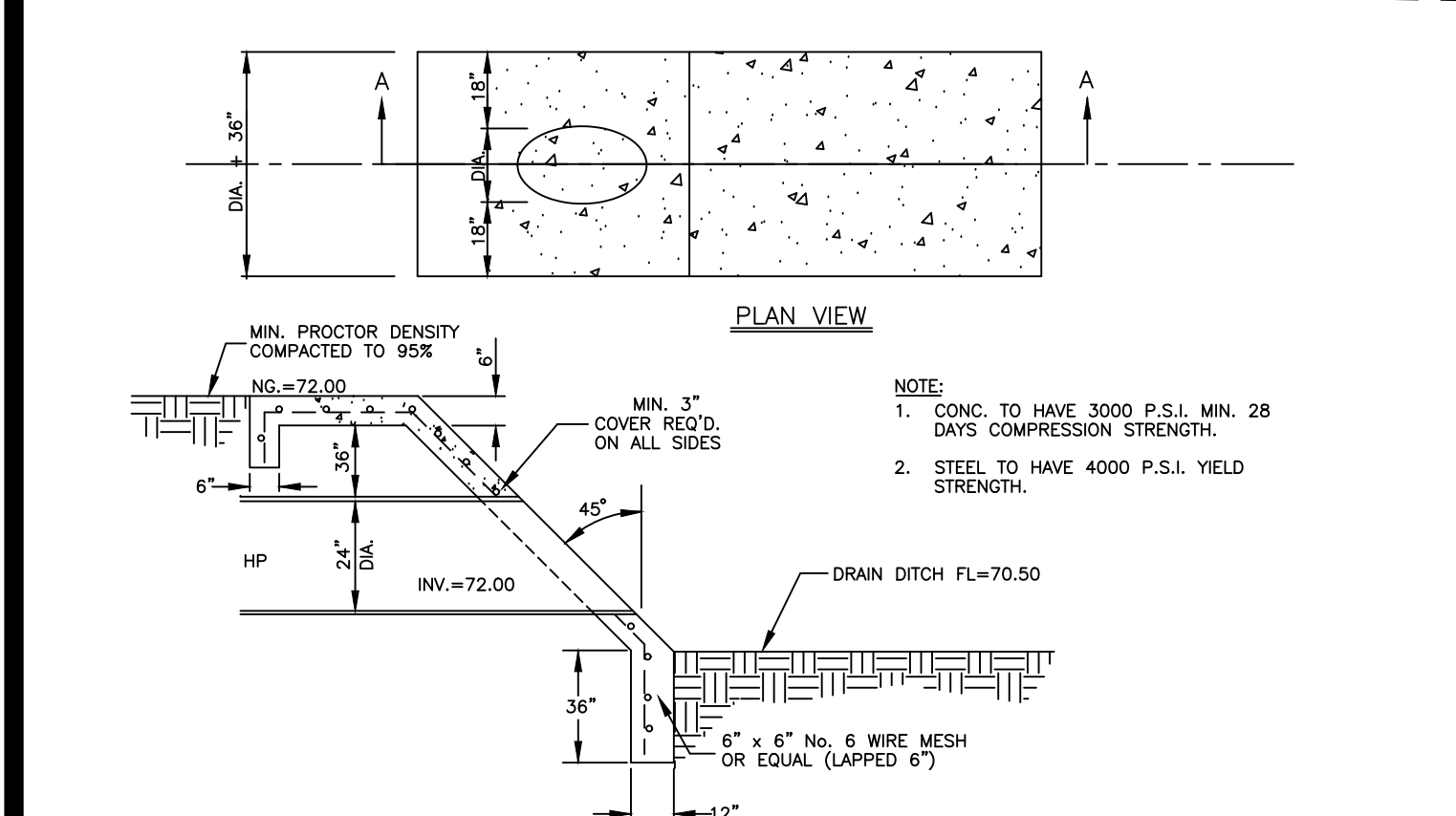
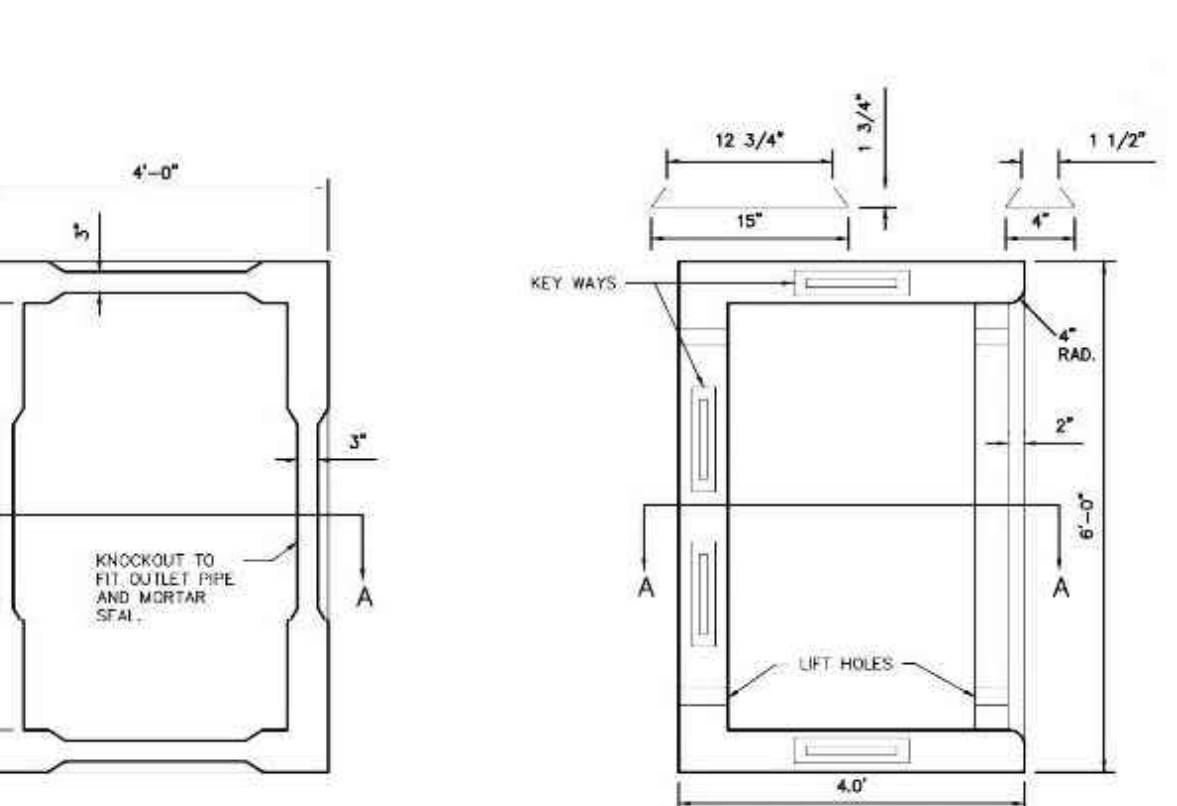
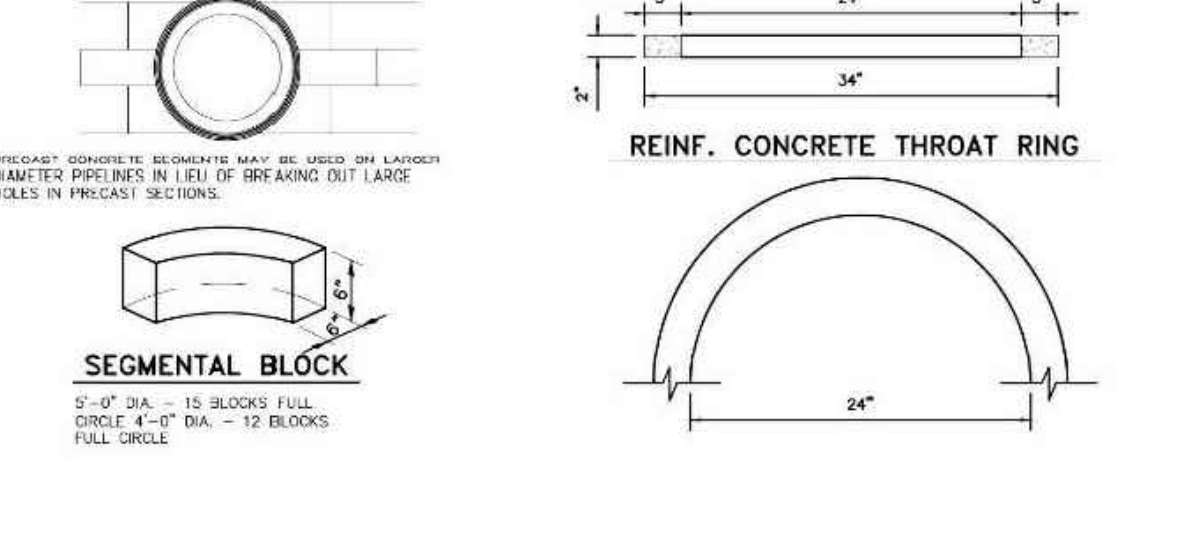
FLOOR ELEV. (SEE PLAT NOTE) WILL BE SET ABOVE THE 100 YR. FLOOD. THIS SUBD. IS IN ZONE X(SHADED) FEMA FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO.480334 0325 D REVISED JUNE 6, 2000 (LOMR 5/17/01), AS WELL AS ZONE "B" C.P.N. 480334 0425 C REVISED NOV. 16, 1982.

IF YOU HAVE ANY QUESTIONS OR NEED ADDITIONAL INFORMATION PLEASE ADVISE.

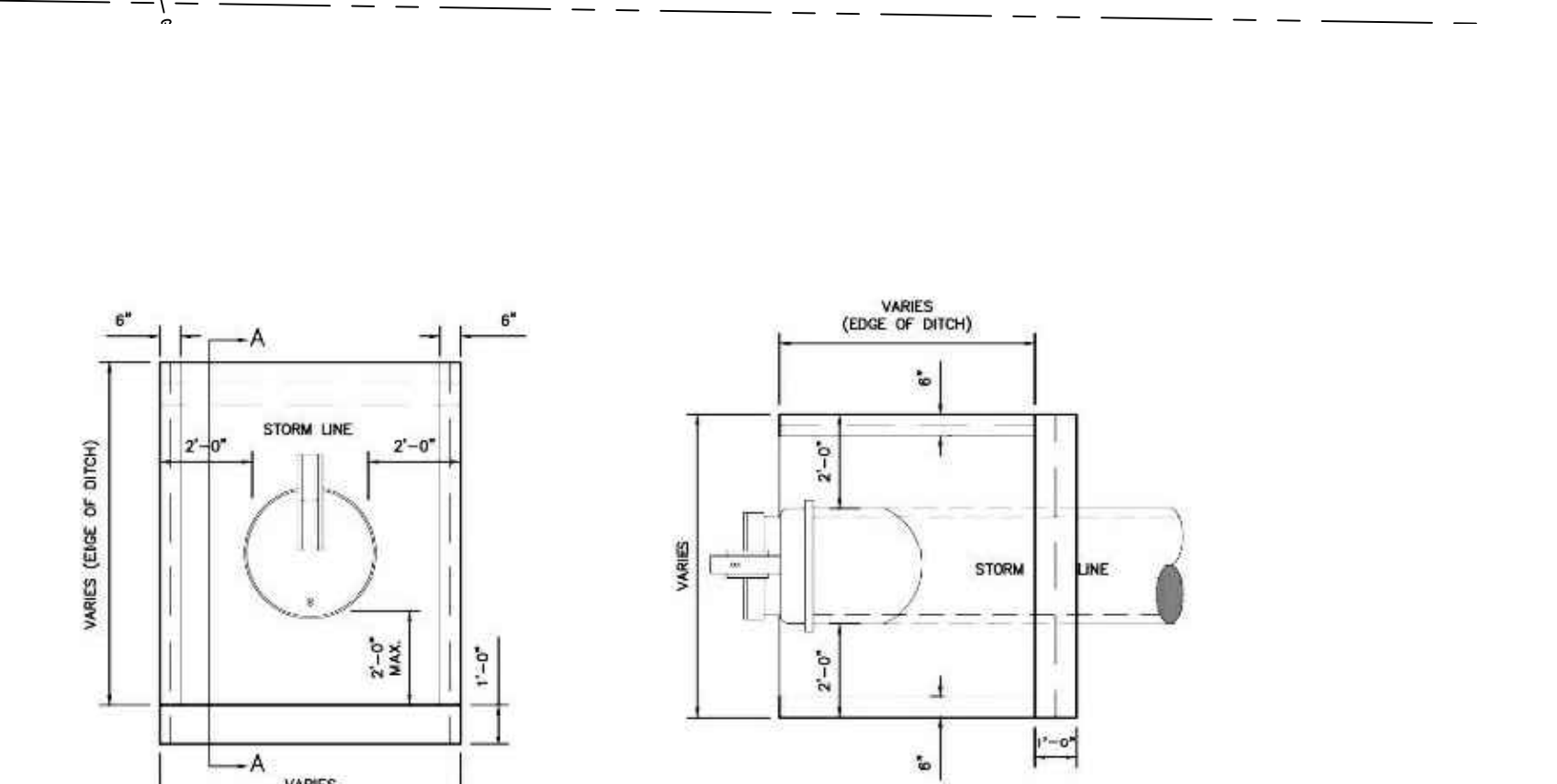
KAMBIZ S. KHADEMI, P.E. DATE:



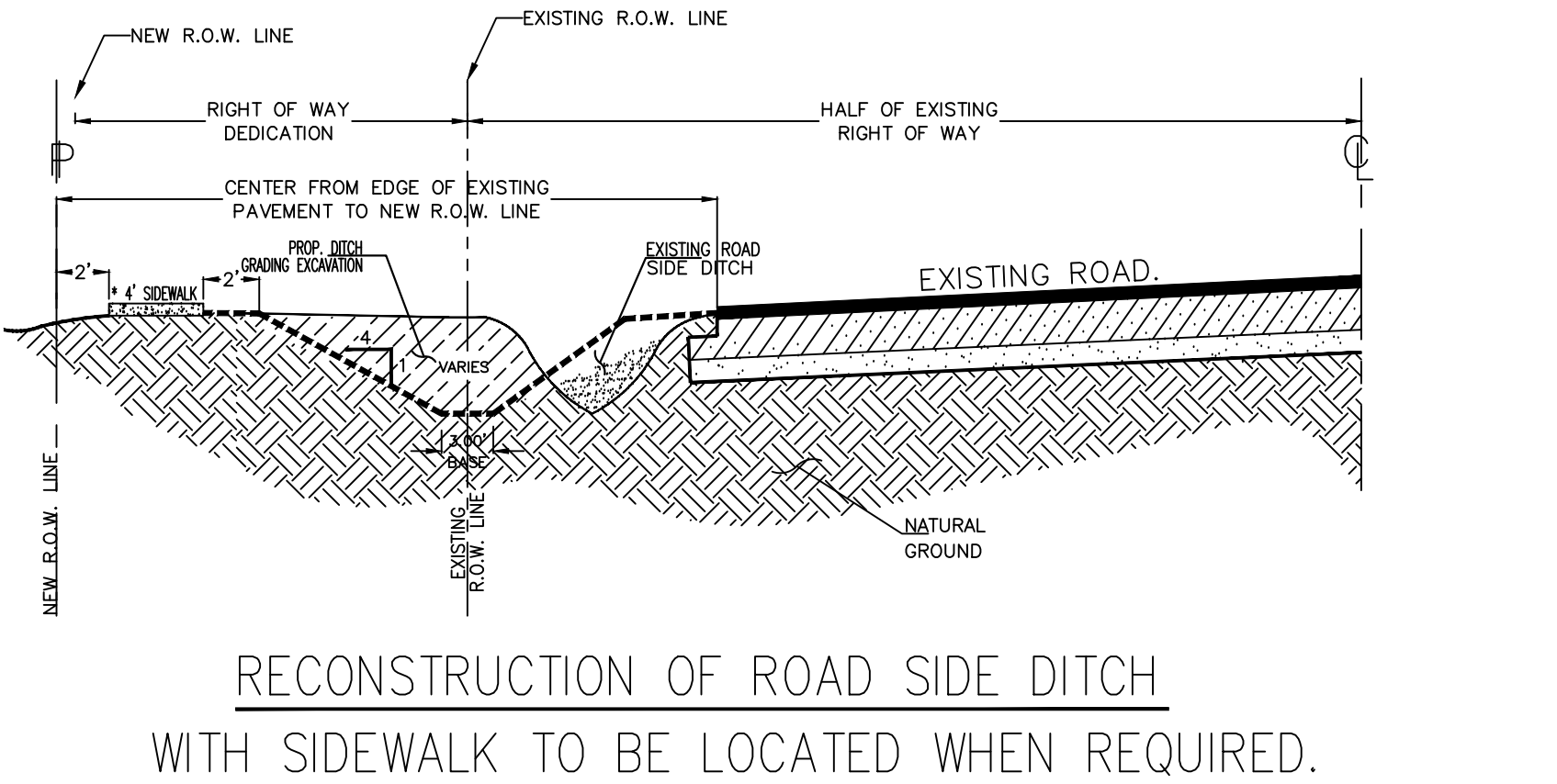
| WEIGHTS OF 5'-0" DIA. MANHOLE | MANHOLES SECTIONS | WEIGHTS OF 4'-0" DIA. MANHOLE |
|-------------------------------|----------------------------------|-------------------------------|
| THROAT RING: 80 LBS. | THROAT RING ARE CAST IN CONCRETE | THROAT RING: 80 LBS. |
| CONC. SECTION: 2800 LBS. | 1'-0" LENGTHS | CONC. SECTION: 1750 LBS. |
| 2'-0" SECTION: 2800 LBS. | 2'-0" LENGTHS | 2'-0" SECTION: 875 LBS. |
| 3'-0" SECTION: 3800 LBS. | 3'-0" LENGTHS | 3'-0" SECTION: 1750 LBS. |
| 4'-0" SECTION: 5300 LBS. | 4'-0" LENGTHS | 4'-0" SECTION: 2825 LBS. |



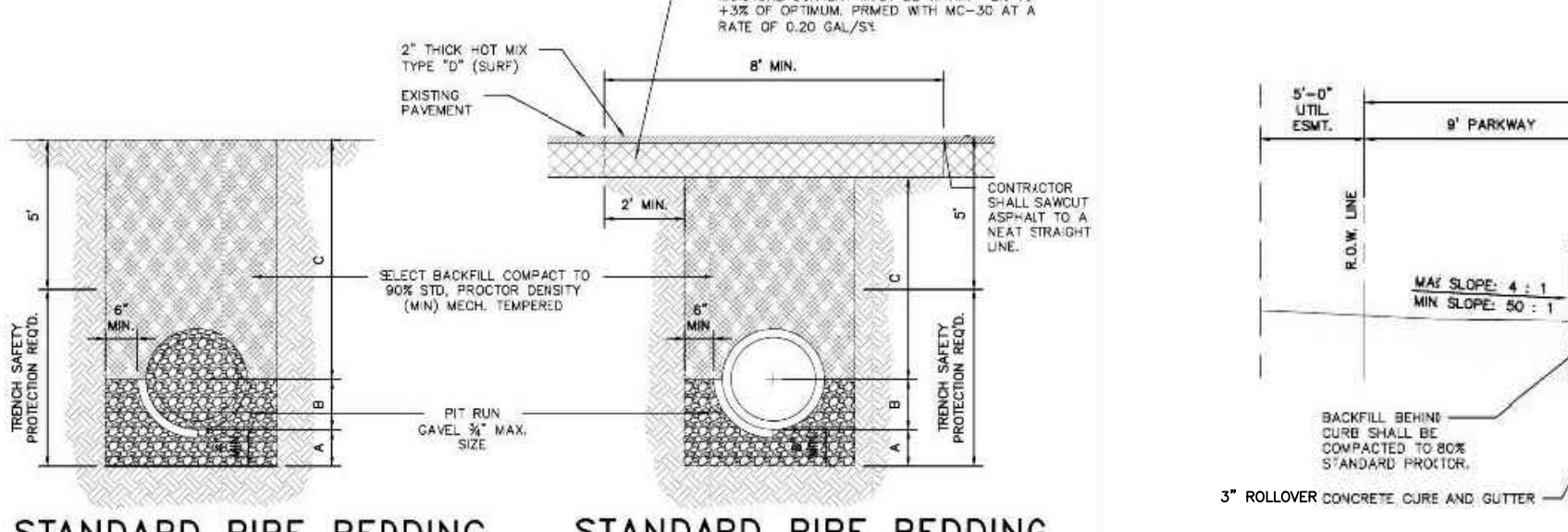
DOS VIENTOS ESTATES, CROSS SECTION 24" OUTFALL AT DRAIN DITCH



DOWN DRAIN STRUCTURE

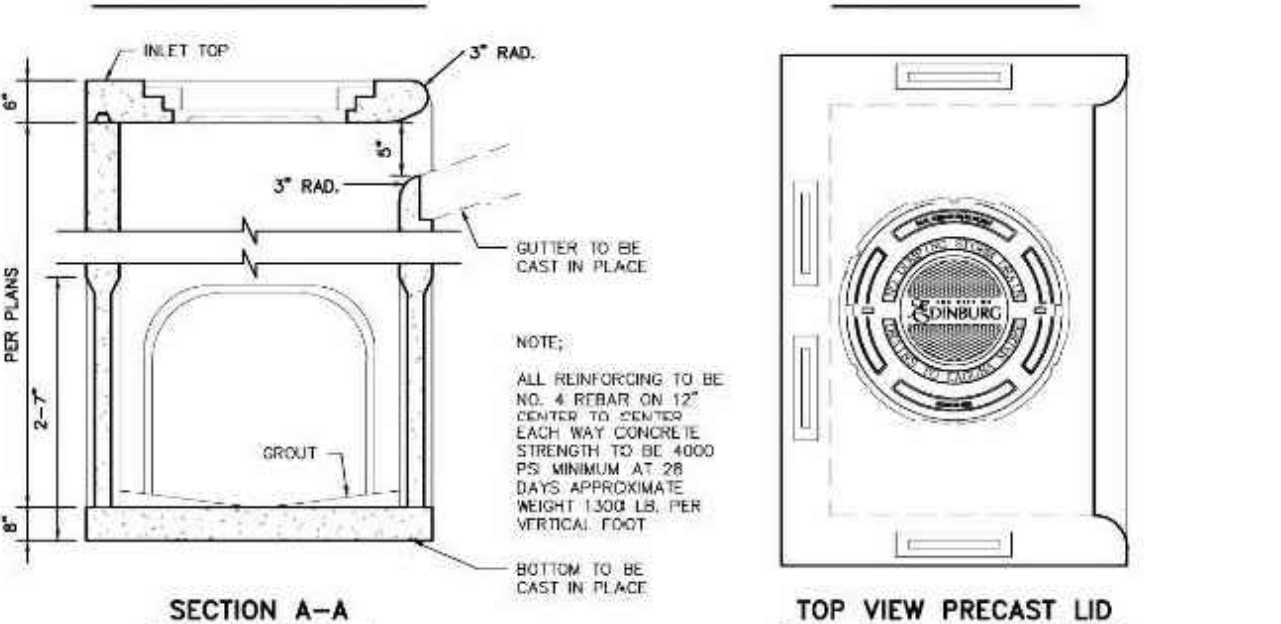


RECONSTRUCTION OF ROAD SIDE DITCH WITH SIDEWALK TO BE LOCATED WHEN REQUIRED.

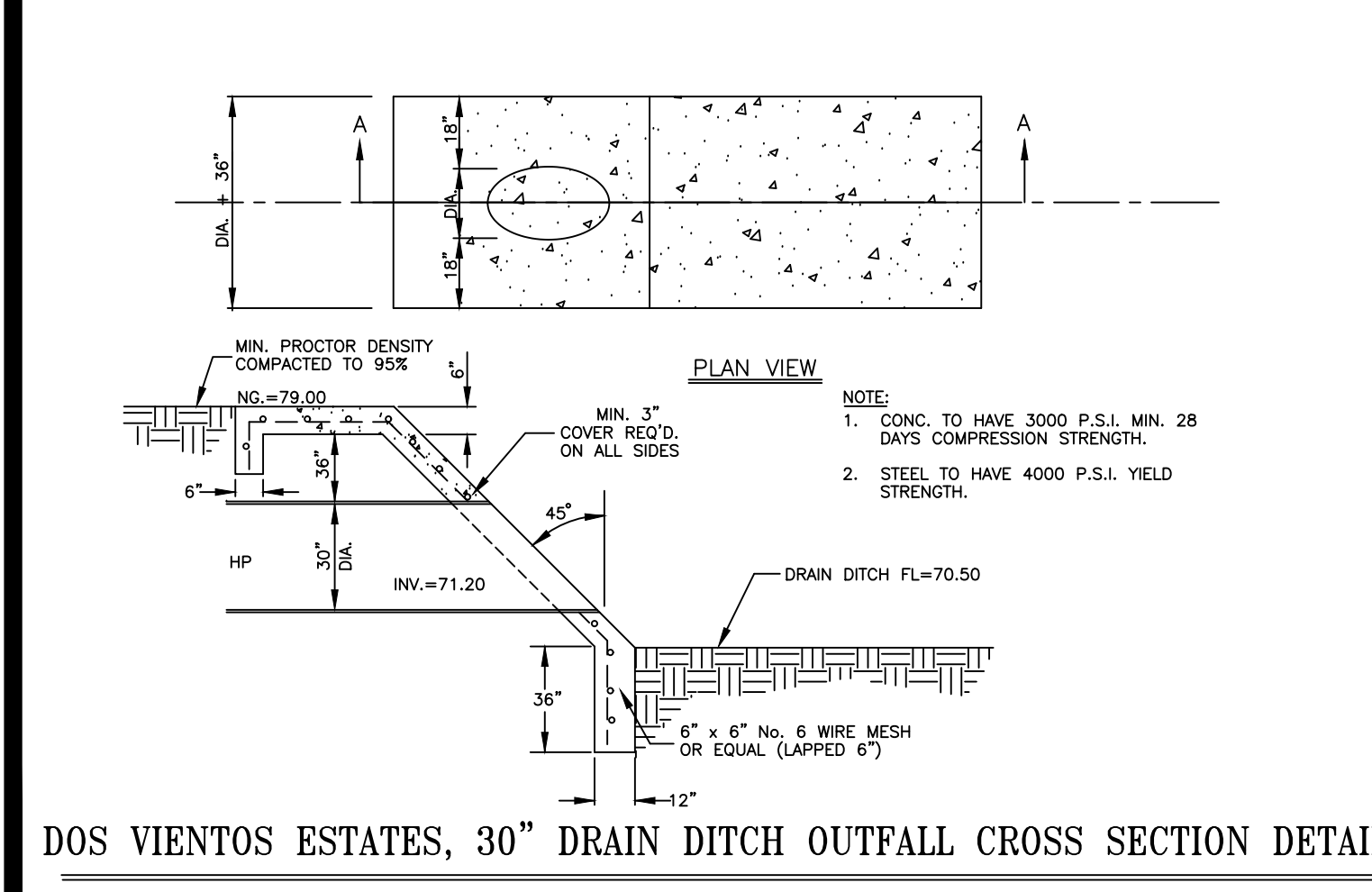


STANDARD PIPE BEDDING

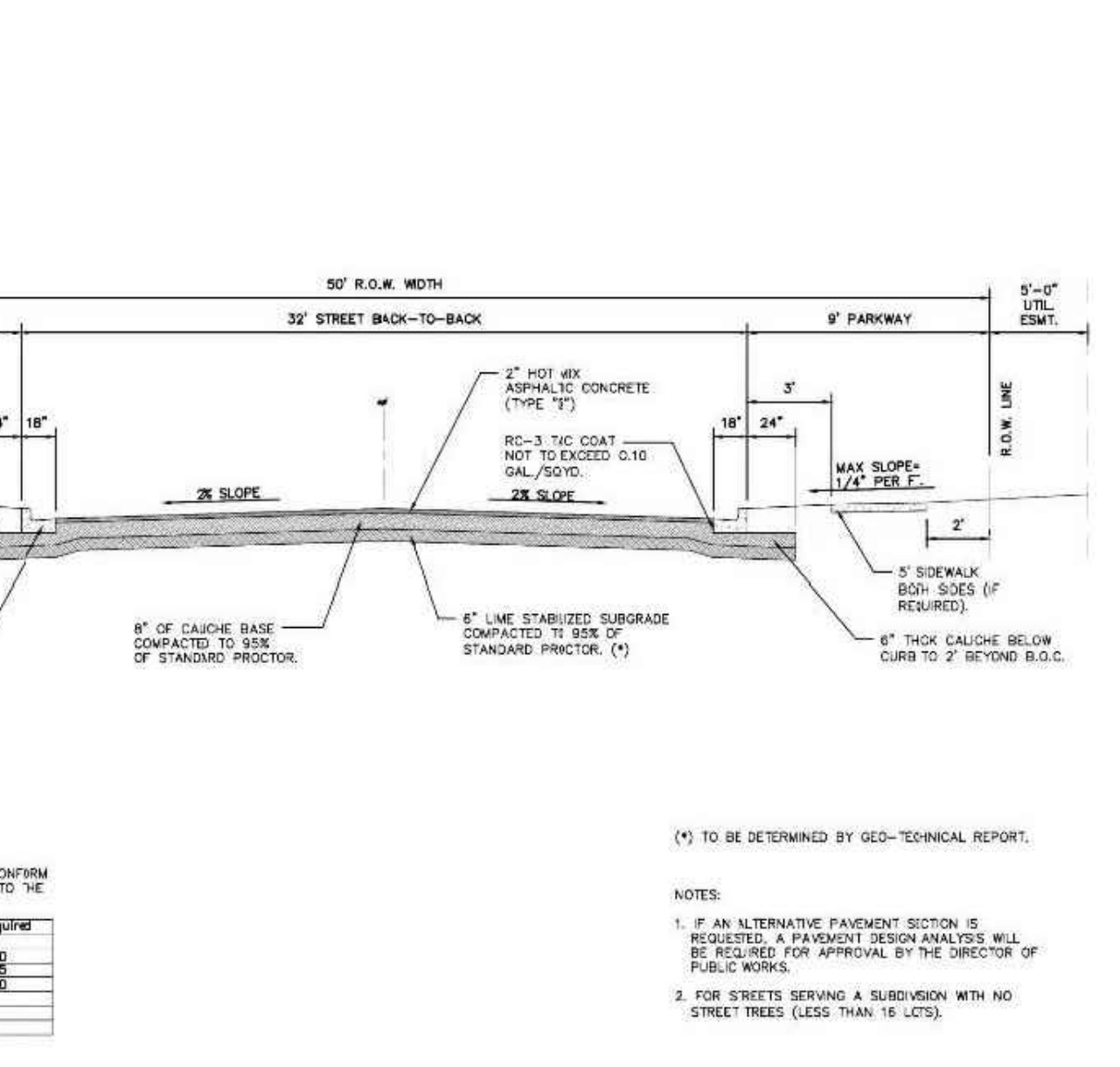
- NOTE: WHEN UTILITY LOCATED WITHIN CITY ROW, ALL BACKFILL IS SUBJECT TO INSPECTION, TESTING AND APPROVAL BY THE CITY ENGINEER'S OFFICE.
- NOTE: 8" THICK FLEXIBLE BASE MATERIAL MEETING 2004 TYPICAL TEN 2411 TYPE 5 GRADE 5 COMPACTED IN MAX. 4" LIFTS TO 100% OF THE MAX. DENSITY DETERMINED BY 15.1-13.1-E. MOISTURE CONTROL MUST BE WITHIN 2% OF USE OF OPTIMUM PRIMER WITH MC-30 AT A RATE OF 0.20 GAL/SY.
- NOTE: CONTRACTOR SHALL SAWCUT ASPHALT TO A NEAT STRAIGHT TRENCH BOTTOM ELEMENTS.
- NOTE: BACK FILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTURE AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY. THE THICKNESS OF EACH LAYER SHALL BE SAND, APPROVED SITE SOIL OR OTHER APPROVED SUBSTITUTE.
- NOTE: BACK FILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTURE AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY. THE THICKNESS OF EACH LAYER SHALL BE SAND, APPROVED SITE SOIL OR OTHER APPROVED SUBSTITUTE.



SECTION A-A TOP VIEW PRECAST LID



DOS VIENTOS ESTATES, 30" DRAIN DITCH OUTFALL CROSS SECTION DETAIL



3" ROLLER CONCRETE CURB AND GUTTER

K K Engineering Consultant
GENERAL PROFESSIONAL CIVIL ENGINEERING SERVICES
(FIRM REGISTRATION # 1334)

410 E. DOWE
P.O. BOX 3422
MCALLEN, TEXAS 78502
(956) 630-2125
FAX (956) 630-2219

DOS VIENTOS ESTATES SUBDIVISION
HIDALGO COUNTY ETJ EDINBURG

EXISTING, TOPO AND PROPOSED PAVING, STORM DRAINAGE AND DETENTION POND

DOS VIENTOS ESTATES, L.P.

Copyright 2015 KK Engineering Consultant All Rights Reserved.
File Name: PAVING & DRAINAGE

SHEET 3 OF 3

62
P.O.B.
N.W. COR.
LOT 13

MARIA NUNEZ
DOCUMENT No. 782777
DEED RECORDS

JESUS MARIA VILLANUEVA
and wife
ELIZABETH VILLANUEVA
DOCUMENT No. 592218
DEED RECORDS

WILLIAM M. WOODALL
DOCUMENT No. 1912440
DEED RECORDS

ONESIMO ORTIZ
DOCUMENT No. 910358
DEED RECORDS

VICTOR H. ZAMARRON and
LIZETTE L. ZAMARRON
VOL. 3277, PG. 475
DEED RECORDS

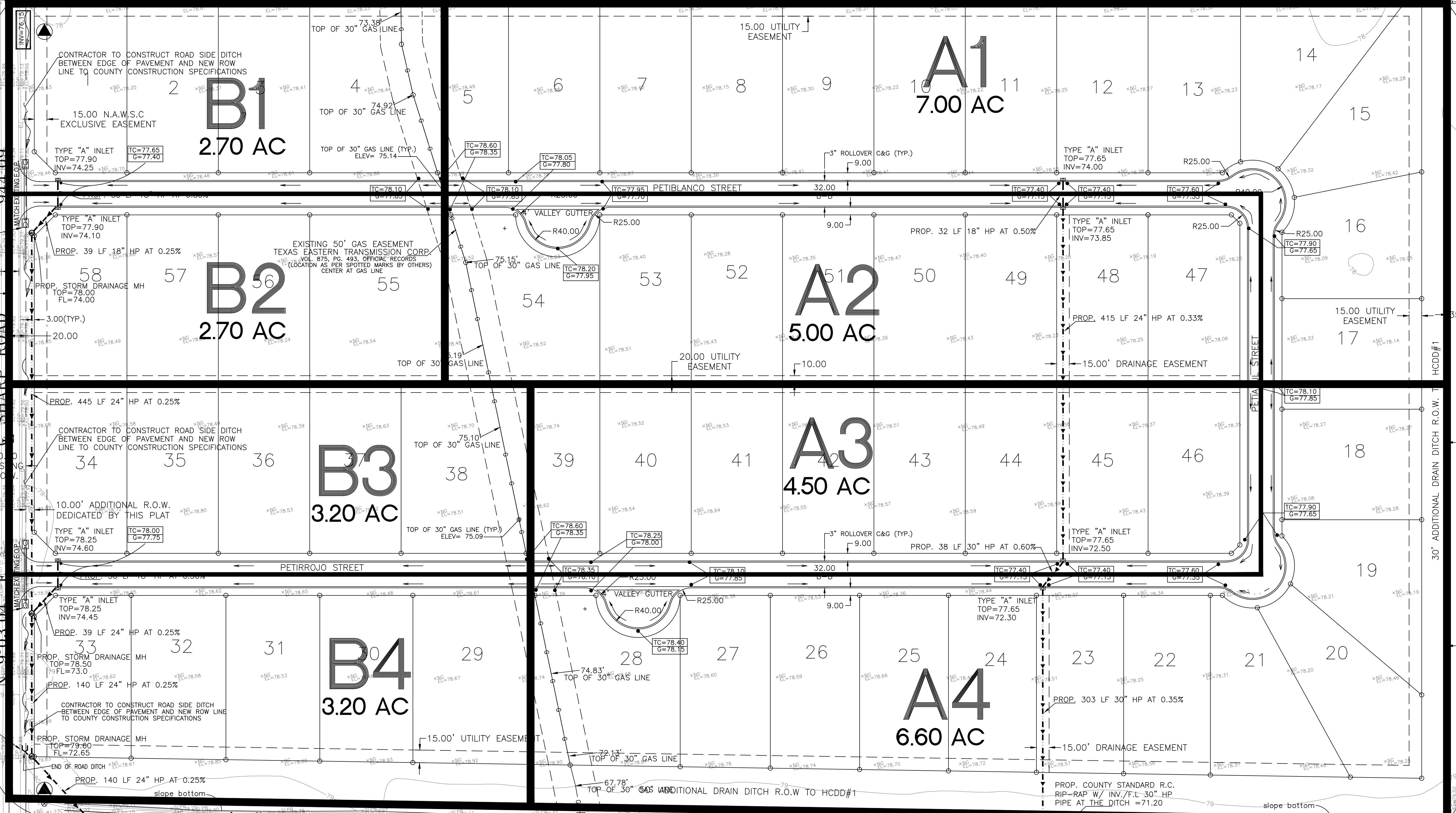
MARIA GUADALUPE
S. ENRIQUEZ
DOCUMENT No. 932113
DEED RECORDS

RAMIRO CERDA and wife
IMELDA CERDA
DOCUMENT No. 259822
OFFICIAL RECORDS

ADAN MALDONADO
VOL. 3272, PG. 238
OFFICIAL RECORDS

S 80°56'56" E

1707.40'



N 80°03'28" W

1707.64'

PROP. COUNTY STANDARD R.C.
RIP-RAP W/ INV./F.L. 24" HP
PIPE AT THE DITCH = 72.00

CURVE ROAD

100' HIDALGO COUNTY IRRIGATION DISTRICT No. 1. R.O.W.

SAN CRISTOBAL SUBDIVISION
VOL. 46 PG. 166

PETIRROJO STREET

SHARP ROAD

30' ADDITIONAL DRAIN DITCH R.O.W. TO HCDD#1

9'03'04" W

50.00

50.00

50.00

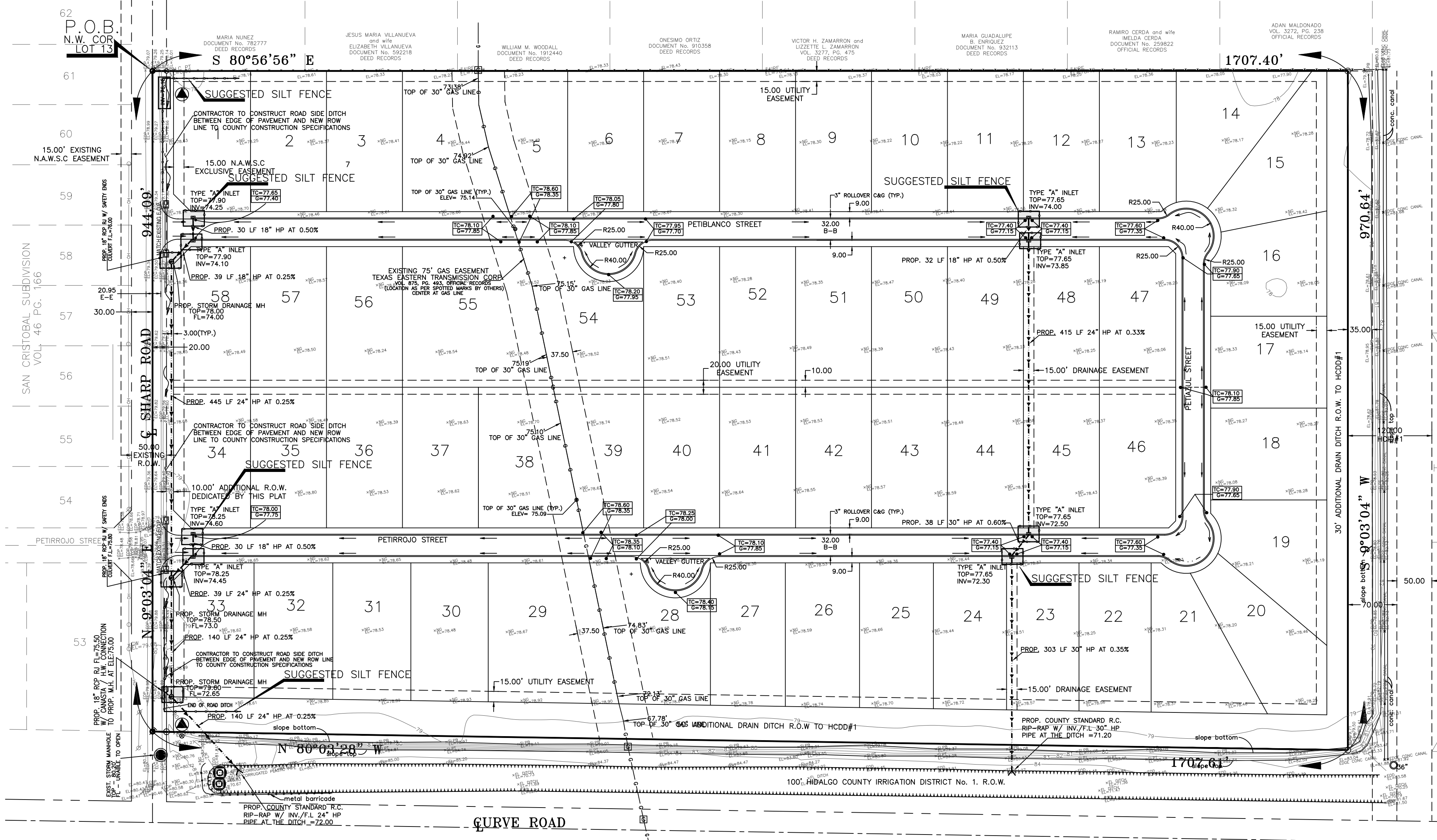
50.00

50.00

50.00

50.00

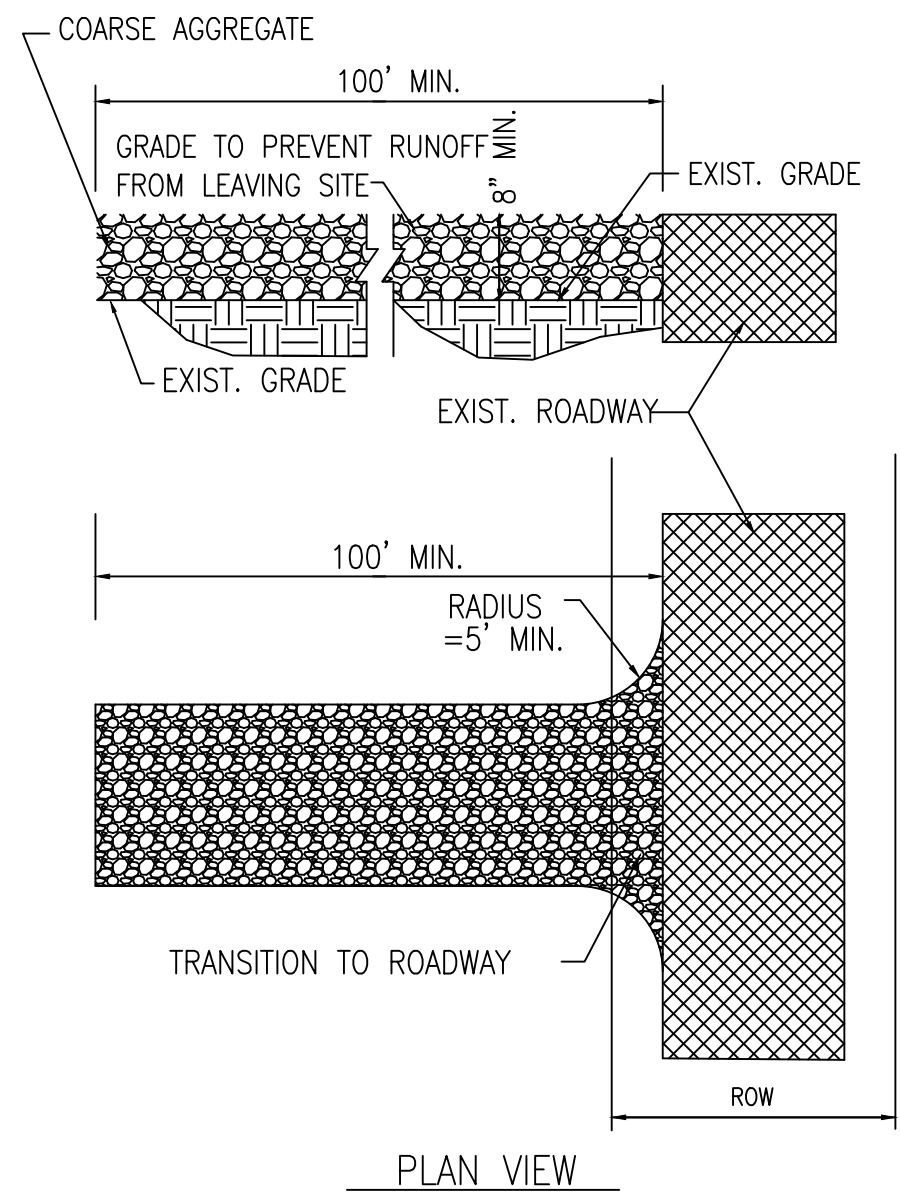
50.00



SCALE: 1"=100'

EROSION GENERAL NOTES:

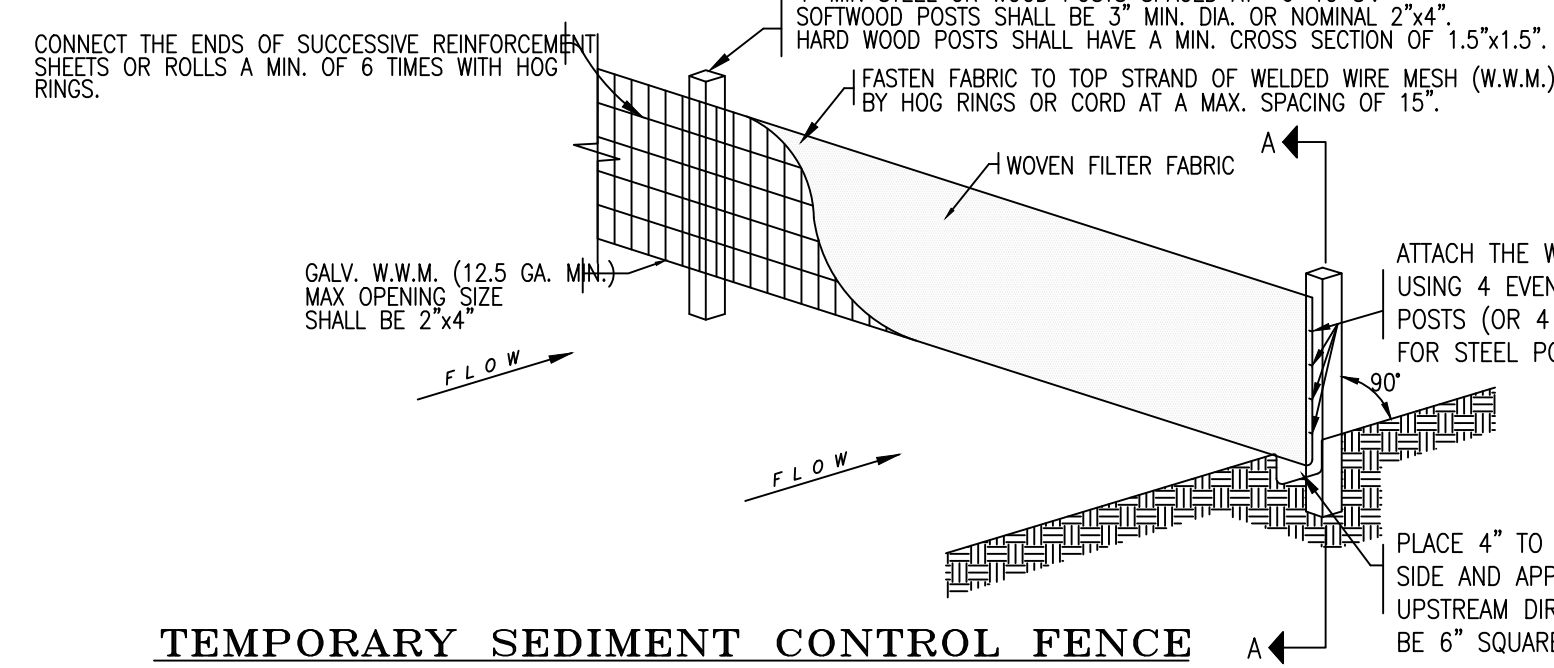
- IT IS THE INTENT OF THE INFORMATION PROVIDED ON THIS SHEET TO BE USED AS THE GENERAL GUIDELINES OF THE STORM WATER OF COMPLIANCE WITH FEDERAL REGULATIONS. THE CONTRACTOR SHALL PREPARE THE STORM WATER POLLUTION PREVENTION PLAN AND BE SOLELY RESPONSIBLE FOR ITS IMPLEMENTATION. THE STORM WATER POLLUTION PREVENTION PLAN SHALL MEET THE REQUIREMENTS SET FORTH BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TPDES) GENERAL PERMIT NO. TXR15000 TO DISCHARGE WASTE FROM CONSTRUCTION SITES ISSUED AND EFFECTIVE MARCH 5, 2003.
- THE STORM WATER POLLUTION PLAN SHOULD ADDRESS THREE GOALS: A) DIVERSION OF UPSLOPE WATER AROUND DISTURBED AREAS OF THE SITE; B) LIMITS THE EXPOSURE OF DISTURBED AREAS TO THE SHORTEST DURATION POSSIBLE; AND C) REMOVAL OF SEDIMENT FROM STORM WATER BEFORE IT LEAVES THE SITE.
- THE CONTRACTOR SHALL MAKE THE STORM WATER POLLUTION PREVENTION PLAN AVAILABLE, UPON REQUEST, TO (EPA).
- THE CONTRACTOR MUST AMEND PLANS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE OF THE PLAN, OR WHEN THE EFFECTIVE PLAN PROVES INEFFECTIVE. MODIFICATIONS INCLUDING DESIGN AND ALL ADDITIONAL MATERIALS AND WORK SHALL BE ACCOMPLISHED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE BY THE OWNER.
- STABILIZATION MEASURES ARE TO BE INSPECTED AT A MINIMUM OF ONCE EVERY 14 DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES. REPAIRS AND INADEQUACIES REVEALED BY THE INSPECTION MUST BE IMPLEMENTED WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.
- AN INSPECTION REPORT THAT SUMMARIZES INSPECTION ACTIVITIES AND IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE RETAINED AND MADE PART OF THE PLAN.
- ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN THE PLAN MUST CERTIFY AS TO AN UNDERSTANDING OF THE TPDES GENERAL PERMIT BEFORE CONDUCTING ANY ACTIVITY IDENTIFIED IN THE POLLUTION PREVENTION PLAN.
- THE CONTRACTOR SHALL ADOPT APPROPRIATE CONSTRUCTION SITE MANAGEMENT PRACTICES TO PREVENT THE DISCHARGE OF OILS, GREASE, PAINTS, GASOLINE, AND OTHER POLLUTANTS TO STORM WATER. APPROPRIATE PRACTICES CAN INCLUDE: DESIGNATING AREAS FOR EQUIPMENT MAINTENANCE AND REPAIR; REGULAR COLLECTION OF WASTE; CONVENIENTLY LOCATED WASTE RECEPTACLES; AND DESIGNATING AND CONTROLLING EQUIPMENT WASHDOWN.
- THE CONTRACTOR SHALL AMEND OR MODIFY THIS PLAN AS REQUIRED BY CONSTRUCTION MEANS, METHODS AND SEQUENCE. MODIFICATIONS SHALL NOT COMPROMISE THE INTENT OF REQUIREMENTS OF LAW AND THIS PLAN. MODIFICATIONS SHALL NOT BE BASIS FOR ADDITIONAL COST TO THE OWNER.
- AREAS OF CONSTRUCTION ELSEWHERE ON THE JOB SITE SHALL CONFORM TO THE DETAILS SHOWN ON THE PLANS.
- BORROW AREAS, IF EXCAVATED, SHALL BE PROTECTED AND STABILIZED UTILIZING THE PLAN DETAILS. ALL WORK SHALL CONFORM TO GOVERNMENTAL REQUIREMENTS AND BECOME PART OF THE STORM WATER POLLUTION PREVENTION PLAN (SWP). THE WORK SHALL BE DONE BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- ALL NON-PAVED AREAS SHALL BE MULCHED AND SEED WITH EROSION PROTECTION IMMEDIATELY UPON COMPLETION OF FINAL GRADING. THIS INCLUDES ALL DITCHED AND EMBANKMENTS. THE CONTRACTOR SHALL MAINTAIN FINAL GRADING AND KEEP SEEDING AREAS WATERED UNTIL FULLY ESTABLISHED AND ACCEPTED BY THE OWNER.
- THE CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION EXIT AT ALL TRAFFIC EXIT POINTS PRIOR TO EXITING ONTO ANY PAVED ROADWAY.



NOTES:

- STONE SHALL BE 3 TO 5 INCH DIA. CRUSHED ROCK OR ACCEPTABLE CRUSHED CEMENT CONCRETE.
- WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
- THE ENTRANCE SHALL BE PROPERLY GRADED OR INCORPORATE DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PAVED SURFACES, MUST BE REMOVED IMMEDIATELY.

STABILIZED CONSTRUCTION EXIT
(CONTRACTOR TO CHOOSE LOCATION)



GENERAL NOTES:

- STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED WITH A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 18".
- THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON UPHILL SIDE, AS NECESSARY, TO PREVENT FLOW UNDER FENCE.
- THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAIN IN THE GROUND AND BACKFILLED.
- SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OF TO BACKING SUPPORT, WITH IS IN TURN ATTACHED TO THE STEEL FENCE POST FABRIC SHALL OVERLAP AT ABUTTING ENDS A MINIMUM OF 3 FEET AND SHALL BE JOINED SUCH THAT NO BYPASS OR LEAKAGE OCCURS.
- INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES. THE SILT SHALL BE DISPOSED OF IN AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

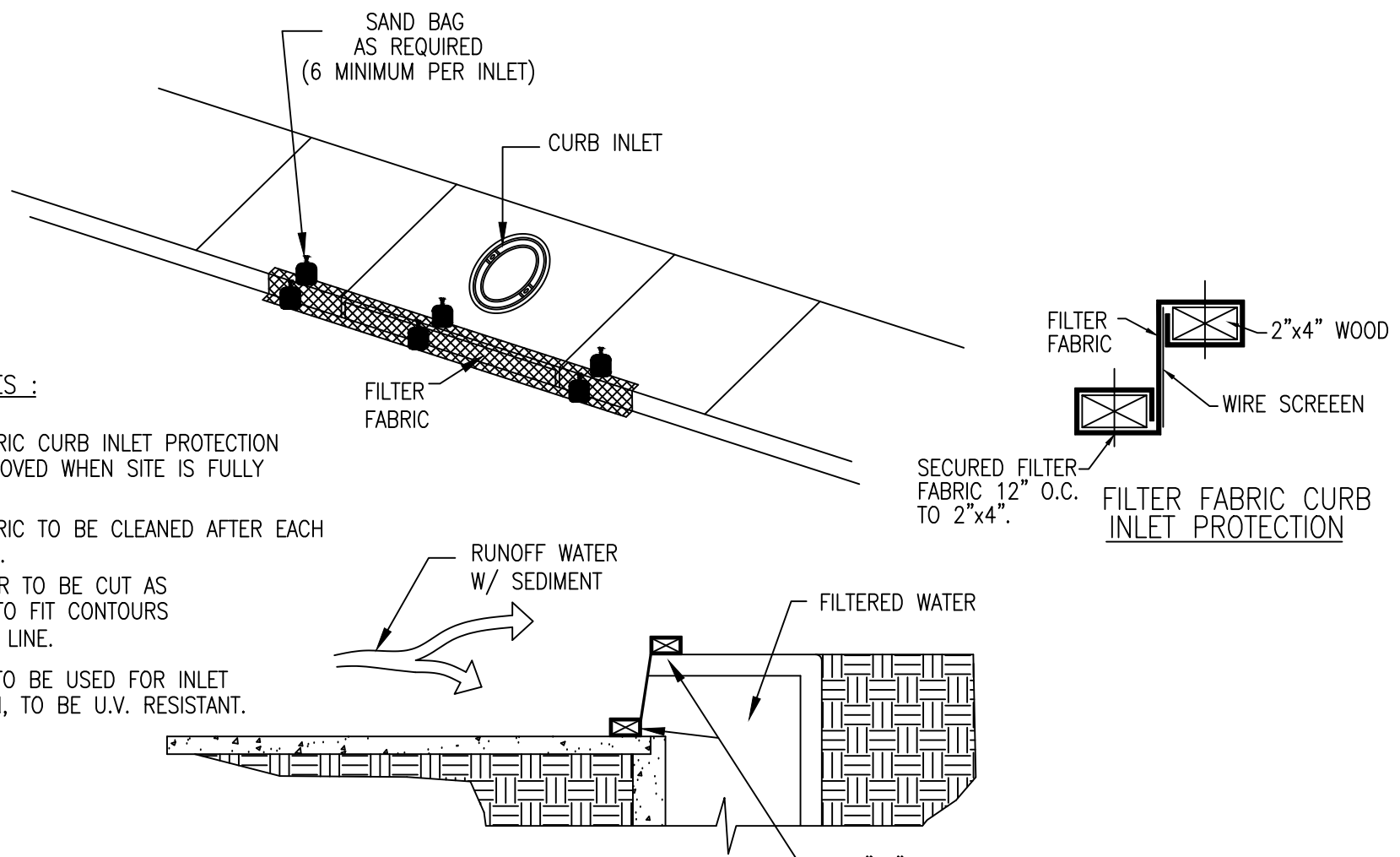
SEDIMENT CONTROL FENCE USAGE GUIDELINES

A SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF. A 2-YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED.

SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAX. FLOW THROUGH RATE OF 100 GPM/FT. SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA LARGER THAN TWO ACRES.

GENERAL NOTES:

- FILTER FABRIC CURB INLET PROTECTION TO BE REMOVED WHEN SITE IS FULLY STABILIZED.
- FILTER FABRIC TO BE CLEANED AFTER EACH RAIN EVENT.
- 2x4 LUMBER TO BE CUT AS REQUIRED TO FIT CONTOURS OF GUTTER LINE.
- ALL BAGS TO BE USED FOR INLET PROTECTION, TO BE U.V. RESISTANT.



FILTER FABRIC CURB INLET PROTECTION

2"x4" WIRE SCREEN & FILTER FABRIC SECURITY FASTENED. ANCHOR 2"x4" AS REQ. EACH END.

| | |
|-------------------------------|-------------------|
| DATE | BY |
| REVISION | |
| DRAWING DATE: SEPTEMBER, 2015 | |
| RELEASE DATE: | DESIGNED BY: K.K. |
| | DRAWN BY: F.D. |
| | CHECKED BY: K.K. |
| | UPDATED DWG. BY: |
| | SCALE: 1"= 100' |

K K Engineering Consultant
GENERAL PROFESSIONAL ENGINEERING SERVICES
(FIRM REGISTRATION #1-1334)
105 E. BOULEVARD
P.O. BOX 9422
MCALLEN, TEXAS 78502
(361) 650-1005
FAX (361) 650-2219

DOS VIENTOS ESTATES SUBDIVISION
HIDALGO COUNTY
Pct. 4

SUGGESTED
EROSION CONTROL PLAN FOR:
DOS VIENTOS ESTATES SUBDIVISION

Copyright 2015 KK Engineering Consultant
All Rights Reserved.
File Name: EROSION CONTROL PLAN
LAST SHEET