



# HIDALGO COUNTY PLANNING DEPARTMENT

T.J. Arredondo, CFM  
Director of Planning

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

## HIDALGO COUNTY COMMISSIONERS COURT MEETING

DATE: 4-20-2021

PROPOSED LA HOMA CROSSING PHASE II SUBDIVISION PRECINCT No. 3.

ENGINEER: QUINTANILLA HEADLEY & ASSOCIATES DEVELOPER: RED ROCK REAL ESTATE DEVELOPMENT GROUP, LTD.

PRELIMINARY APPROVAL     FINAL APPROVAL     FINAL APPROVAL WITH FINANCIAL GUARANTEE     WITH VARIANCE

NUMBER OF LOTS: 41  \*SINGLE FAMILY     \*MULTI-FAMILY    8  COMMERCIAL     INDUSTRIAL

ESTIMATED NUMBER OF STREETLIGHTS: 8

FILLING STATIONS: 3

LOCATION DESCRIPTION: EAST OF LA HOMA ROAD APPROXIMATELY 640 FEET SOUTH FROM MILE 7 NORTH ROAD.

SUBDIVISION LIES WITHIN THE:  ETJ OF MISSION AND WAS APPROVED BY THE P&Z AND CITY COMMISSION OF SAID CITY

DRAINAGE REPORT WAS APPROVED BY HCDD#1: ON 9-04-2020 PROPERTY LIES WITHIN FLOOD ZONE: "X" (UNSHADED) AS PER FEMA.

DRAINAGE DESIGN: DRAINAGE WILL BE PROVIDED BY STORM SEWER SYSTEM THAT WILL DISCHARGE TO DETENTION AREAS AND ULTIMATELY DISCHARGING INTO TXDOT SYSTEM.

ROAD R.O.W. DEDICATION: 20.00 FEET ONTO LA HOMA ROAD.

H.C.R.O.W. PRELIMINARY APPROVAL DATE: 1-04-2021 BY, VICTOR GALLARDO, PCT. 3 R.O.W. AGENT

H.C.H.D. PRELIMINARY APPROVAL DATE: 1-04-2021 BY, ENVIRONMENTAL HEALTH DIVISION

SEWER SYSTEM:  OSSF'S

WATER SERVICE PROVIDER: SWSC EXISTING LINE SIZE: 8" LOCATION: MILE 7 NORTH ROAD & 8" ON COYOTE DRIVE.

H.C.E.O.C. PRELIMINARY APPROVAL DATE: 1-04-2021; BY 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.

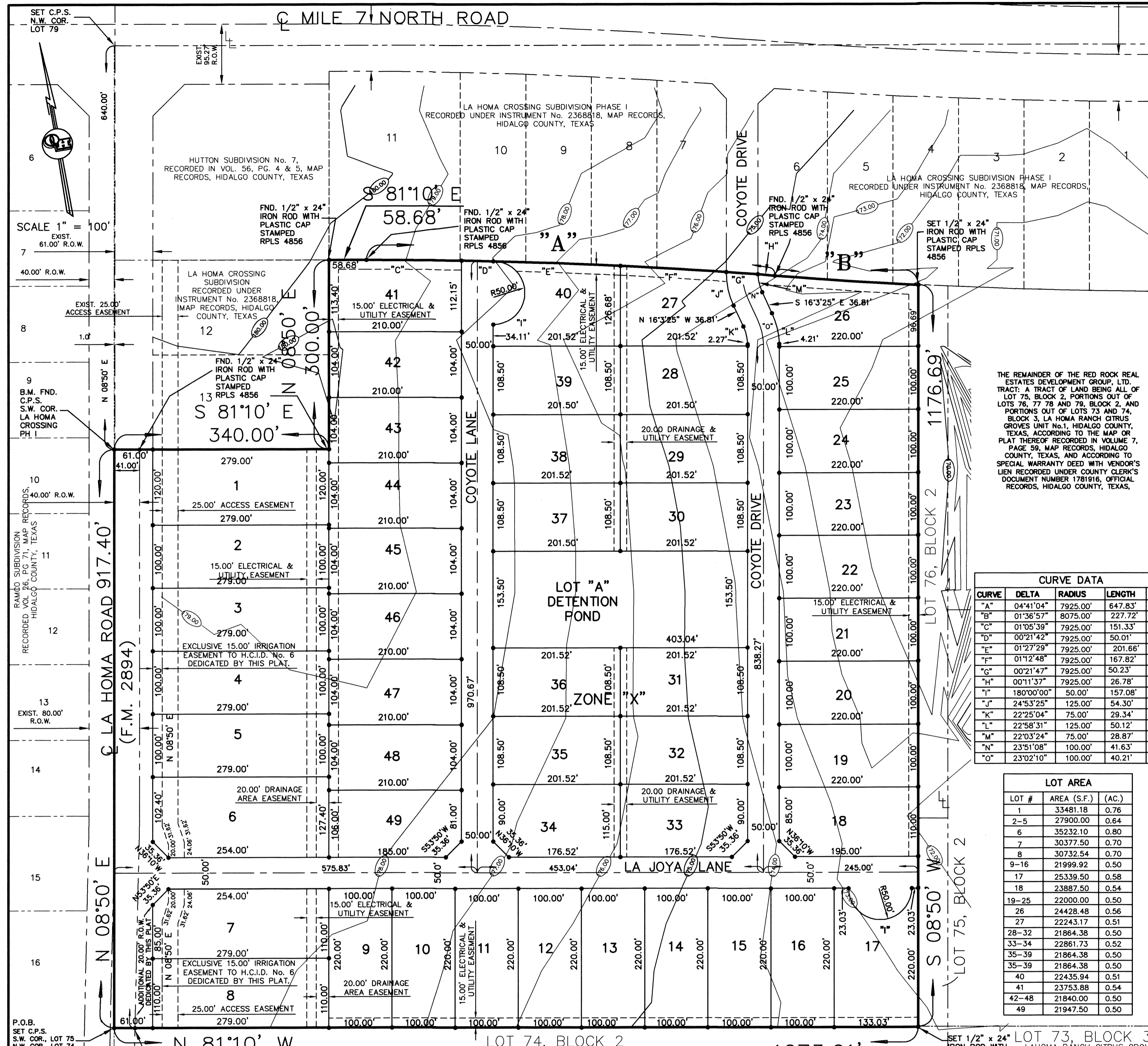
PRELIMINARY APPROVAL FROM THE  
HIDALGO COUNTY COMMISSIONERS COURT ON: \_\_\_\_\_

STAFF RECOMMENDS:  **Preliminary Approval** *subject comments and future recommendations by planning, other departments and the approval of the City of MISSION.*

**Final Approval** *subject to recommendations other departments*

*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.*

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**SUBDIVISION PLAT OF:  
LA HOMA CROSSING SUBDIVISION PHASE II**

A 32.94 ACRE TRACT OF LAND BEING PORTIONS OUT OF LOTS 75, 76, 77 AND 78, BLOCK 2, LA HOMA RANCH CITRUS GROVES UNIT No. 1, HIDALGO COUNTY, TEXAS, ACCORDING TO THE MAP OR PLAT THEREOF RECORDED IN VOLUME 7, PAGE 59, MAP RECORDS, HIDALGO COUNTY, TEXAS, AND ACCORDING TO SPECIAL WARRANTY DEED WITH VENDOR'S LIEN RECORDED UNDER COUNTY CLERK'S DOCUMENT NUMBER 1781916, OFFICIAL RECORDS, HIDALGO COUNTY, TEXAS.

THESE ARE THE METES AND BOUNDS:

32.94 ACRES OF LAND BEING A PORTION OF LOTS 75, 76, 77 AND 78, BLOCK 2, AND PORTIONS OF LOTS 74 AND 77, BLOCK 3, LA HOMA RANCH CITRUS GROVES UNIT No. 1, HIDALGO COUNTY, TEXAS, ACCORDING TO THE MAP OR PLAT THEREOF RECORDED IN VOLUME 7, PAGE 59, MAP RECORDS, HIDALGO COUNTY, TEXAS, AND ACCORDING TO SPECIAL WARRANTY DEED WITH VENDOR'S LIEN RECORDED UNDER COUNTY CLERK'S DOCUMENT NUMBER 1781916, OFFICIAL RECORDS, HIDALGO COUNTY, TEXAS, REFERENCE TO WHICH IS HERE MADE FOR ALL PURPOSES AND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING AT A COTTON PICKER SPINDLE SET WITHIN THE RIGHT OF WAY OF LA HOMA ROAD (F.M. 2894) FOR THE SOUTHWEST CORNER OF LOT 75 AND THE SOUTHWEST CORNER OF THIS TRACT.

THENCE: N 08°50' E, ALONG THE WEST LINE OF LOTS 75 AND 78 AND WITHIN THE RIGHT OF WAY OF LA HOMA ROAD (F.M. 2894), A DISTANCE OF 917.40 FEET TO A COTTON PICKER SPINDLE FOUND FOR THE SOUTHWEST CORNER OF LA HOMA CROSSING SUBDIVISION PHASE I (RECORDED IN INSTRUMENT NUMBER 2368818, MAP RECORDS, HIDALGO COUNTY, TEXAS) AND AN EXTERIOR CORNER OF THIS TRACT.

THENCE: S 81°10' E, ALONG THE SOUTH LINE OF LA HOMA CROSSING SUBDIVISION PHASE I, PASSING A 1/2" IRON ROD WITH CAP STAMPED RPLS 4856 FOUND AT 41.00 FEET FOR THE EAST RIGHT OF WAY LINE OF LA HOMA ROAD (F.M. 2894), A TOTAL DISTANCE OF 340.00 FEET TO A 1/2" IRON ROD WITH CAP STAMPED RPLS 4856 FOUND FOR THE MOST EASTERLY SOUTHWEST CORNER OF LA HOMA CROSSING SUBDIVISION PHASE I, AND AN INTERIOR CORNER OF THIS TRACT.

THENCE: N 08°50' E, ALONG THE SOUTH LINE OF LA HOMA CROSSING SUBDIVISION PHASE I, A DISTANCE OF 300.00 FEET TO A 1/2" IRON ROD FOUND FOR THE SOUTHWEST CORNER OF THE HUTTON SUBDIVISION No. 7 (RECORDED IN VOLUME 56, PAGES 4 AND 5, MAP RECORDS, HIDALGO COUNTY, TEXAS), AND AN INTERIOR CORNER OF LA HOMA CROSSING SUBDIVISION PHASE I, AND THE NORTHWEST CORNER OF THIS TRACT.

THENCE: S 81°10' E, ALONG THE SOUTH LINE OF LA HOMA CROSSING SUBDIVISION PHASE I, A DISTANCE OF 58.68 FEET TO A 1/2" IRON ROD WITH CAP STAMPED RPLS 4856 FOUND FOR AN EXTERIOR CORNER OF THIS TRACT.

THENCE: ALONG THE SOUTH LINE OF LA HOMA CROSSING SUBDIVISION PHASE I, AND THE ARC OF A CURVE TO THE RIGHT (CURVE DATA: DELTA = 01°36'57", RADIUS = 7,825.00 FEET), A DISTANCE OF 647.83 FEET TO A 1/2" IRON ROD WITH CAP STAMPED RPLS 4856 FOUND FOR AN INTERIOR CORNER OF THIS TRACT.

THENCE: ALONG THE SOUTH LINE OF LA HOMA CROSSING SUBDIVISION PHASE I, AND THE ARC OF A CURVE TO THE LEFT (CURVE DATA: DELTA = 01°36'57", RADIUS = 8,075.00 FEET), A DISTANCE OF 227.72 FEET TO THE NORTHEAST CORNER OF THIS TRACT.

THENCE: S 08°50' W, A DISTANCE OF 1,176.69 FEET TO A 1/2" IRON ROD WITH CAP STAMPED RPLS 4856 SET ON THE SOUTH LINE OF LOT 76 FOR THE SOUTHEAST CORNER OF THIS TRACT.

THENCE: N 81°10' W, ALONG THE SOUTH LINE OF LOTS 75 AND 76, BLOCK 2, PASSING AT 1,232.01 FEET A 1/2" IRON ROD WITH CAP STAMPED RPLS 4856 SET FOR THE EAST RIGHT OF WAY LINE OF LA HOMA ROAD (F.M. 2894), A TOTAL DISTANCE OF 1,273.01 FEET TO THE POINT OF BEGINNING AND CONTAINING 32.94 ACRES OF LAND MORE OR LESS.

BEARINGS ARE IN ACCORDANCE WITH HUTTON SUBDIVISION, RECORDED IN VOLUME 56, PAGES 4 AND 5, MAP RECORDS, HIDALGO COUNTY, TEXAS.

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

MANUEL CANTU, JR. MEMBER,  
RED ROCK REAL ESTATE  
DEVELOPMENT GROUP, LTD.

AS OWNER OF THE 32.94 ACRES TRACT OF LAND ENCOMPASSED WITHIN THE PROPOSED LA HOMA CROSSING SUBDIVISION PHASE II, HEREBY SUBDIVIDE THE LAND AS DEPICTED IN THIS SUBDIVISION PLAT AND DEDICATE TO PUBLIC USE THE STREET, 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 TO THE LOTS MEET, OR WILL MEET, THE MINIMUM STATE STANDARDS;  
(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.

RED ROCK REAL ESTATE  
DEVELOPMENT GROUP, LTD.  
MANUEL CANTU, JR. MEMBER  
2912 S. JACKSON ROAD  
MCALLEN, TX 78503  
PH. (956) 821-8180  
FAX (956) 682-3302

STATE OF TEXAS  
COUNTY OF HIDALGO

BEFORE ME, the undersigned notary public, on this day personally appeared  
MANUEL CANTU, JR. MEMBER, RED ROCK REAL ESTATE DEVELOPMENT GROUP, LTD.

proved to me through his Texas Department of Public Safety Driver License to be the person whose name is subscribed to the foregoing instrument, who, being by me first duly sworn, declared 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\_\_\_\_.

BLANCA E. MARTINEZ  
Notary Public, State of Texas  
Comm. Expires 01-28-2025  
Notary ID 130827444

BLANCA E. MARTINEZ - NOTARY PUBLIC

THE REMAINDER OF THE RED ROCK REAL ESTATES DEVELOPMENT GROUP, LTD. TRACT A TRACT OF LAND BEING ALL OF LOT 75, BLOCK 2, PORTIONS OUT OF LOTS 76, 77 AND 78, BLOCK 2, AND PORTIONS OUT OF LOTS 74 AND 77, BLOCK 3, LA HOMA RANCH CITRUS GROVES UNIT No. 1, HIDALGO COUNTY, TEXAS, ACCORDING TO THE MAP OR PLAT THEREOF RECORDED IN VOLUME 7, PAGE 59, MAP RECORDS, HIDALGO COUNTY, TEXAS, AND ACCORDING TO SPECIAL WARRANTY DEED WITH VENDOR'S LIEN RECORDED UNDER COUNTY CLERK'S DOCUMENT NUMBER 1781916, OFFICIAL RECORDS, HIDALGO COUNTY, TEXAS.

**CURVE DATA**

CURVE	DELTA	RADIUS	LENGTH	CHORD
"A"	04°41'04"	7925.00'	647.83'	647.65'
"B"	01°36'57"	8075.00'	227.72'	227.71'
"C"	01°05'39"	7925.00'	151.33'	151.33'
"D"	02°21'42"	7925.00'	50.01'	50.01'
"E"	01°27'29"	7925.00'	201.66'	201.65'
"F"	01°12'48"	7925.00'	167.82'	167.82'
"G"	00°21'47"	7925.00'	50.23'	50.23'
"H"	00°11'37"	7925.00'	26.78'	26.78'
"I"	18°00'00"	50.00'	157.08'	100.00'
"J"	24°53'25"	125.00'	54.30'	53.88'
"K"	22°25'04"	75.00'	29.34'	29.16'
"L"	22°58'31"	125.00'	50.12'	49.79'
"M"	22°03'24"	75.00'	28.87'	28.69'
"N"	23°51'08"	100.00'	41.63'	41.33'
"O"	23°02'10"	100.00'	40.21'	39.94'

**LOT AREA**

LOT #	AREA (S.F.)	(AC.)
1	33481.18	0.76
2-5	27900.00	0.64
6	35232.10	0.80
7	30377.50	0.70
8	30732.54	0.70
9-16	21999.92	0.50
17	25339.50	0.58
18	23887.50	0.54
19-25	22000.00	0.50
26	24428.48	0.56
27	22243.17	0.51
28-32	21864.38	0.50
33-34	22861.73	0.52
35-39	21864.38	0.50
40	22435.94	0.51
41	23753.88	0.54
42-48	21840.00	0.50
49	21947.50	0.50



ALFONSO QUINTANILLA  
R.P.L.S. No. 4856

7-12-2019



EULALIO RAMIREZ  
P.E. No. 77082

3-11-21

**INDEX TO SHEETS**

- SHEET 1  
HEADING INDEX: LOCATION MAP AND E.T.; PRINCIPAL CONTRACTS: MAP, LOT, STREETS, AND EASEMENT LAYOUT; DESCRIPTION (METES AND BOUNDS); ENGINEER'S & SURVEYOR'S CERTIFICATION; PLAT NOTES AND RESTRICTIONS; OWNER'S ACKNOWLEDGMENT; CITY APPROVAL; THE SOIL EVALUATOR (LICENSE NO. 025225) HAS DETERMINED THAT THE SOIL IS SUITABLE FOR A STANDARD SEPTIC TANK AND ABSORPTIVE DRAINFIELD SYSTEM.
- SHEET 2  
ENGINEERING REPORT, INCLUDING DESCRIPTION OF WATER AND SANITARY SEWER AND ENGINEER'S CERTIFICATION (ENGLISH AND SPANISH VERSION), COUNTY CLERK'S RECORDING CERTIFICATE.
- SHEET 3  
DRAINAGE REPORT INCLUDING DESCRIPTION OF DRAINAGE AND MAP OF TOPOGRAPHY AND DRAINAGE, AND ENGINEERING CERTIFICATION; REVISION NOTES; COUNTY CLERK'S RECORDING CERTIFICATE.

HIDALGO COUNTY  
CERTIFICATE OF PLAT APPROVAL  
UNDER LOCAL GOVERNMENT CODE § 232.028(a)

WE, THE UNDERSIGNED CERTIFY that this plat of the LA HOMA CROSSING SUBDIVISION PHASE II, was reviewed and approved by the Hidalgo County Commissioners Court on \_\_\_\_\_

Hidalgo County Judge \_\_\_\_\_ Date \_\_\_\_\_  
Attest: Hidalgo County Clerk \_\_\_\_\_ Date \_\_\_\_\_

CITY OF MISSION  
PLANNING AND ZONING

THIS PLAT OF LA HOMA CROSSING SUBDIVISION HAS BEEN SUBMITTED TO AND CONSIDERED BY THE PLANNING AND ZONING COMMISSION OF THE CITY OF MISSION TEXAS AND IS HEREBY APPROVED BY SUCH COMMISSION.

CHAIRMAN PLANNING COMMISSION \_\_\_\_\_ DATE \_\_\_\_\_  
CITY SECRETARY \_\_\_\_\_ DATE \_\_\_\_\_

HIDALGO COUNTY  
IRRIGATION DISTRICT No. 6 CERTIFICATION

THIS PLAN IS HEREBY APPROVED BY THE HIDALGO COUNTY IRRIGATION DISTRICT No. 6 SUBJECT TO THE CONDITION THAT IF IRRIGATION FROM THE SAID DISTRICT IS DESIRED TO THE INDIVIDUAL LOTS IN SAID SUBDIVISION, PROVISION SHALL BE MADE FOR APPROPRIATE EASEMENT FOR THE INSTALLATION OF NECESSARY IRRIGATION FACILITIES TO SUCH LOT FROM INDIVIDUAL LOTS IN SAID SUBDIVISION, PROVISION SHALL BE MADE APPROPRIATE EASEMENT FOR THE INSTALLATION OF NECESSARY IRRIGATION FACILITIES TO SUCH LOTS FROM THE CLOSEST WATER DISTRICT DELIVERY POINT AND IT SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY TO INSTALL SUCH NECESSARY FACILITIES.

MAYOR OF CITY OF MISSION \_\_\_\_\_ DATE \_\_\_\_\_  
ATTEST: CITY SECRETARY \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED BY DRAINAGE DISTRICT:

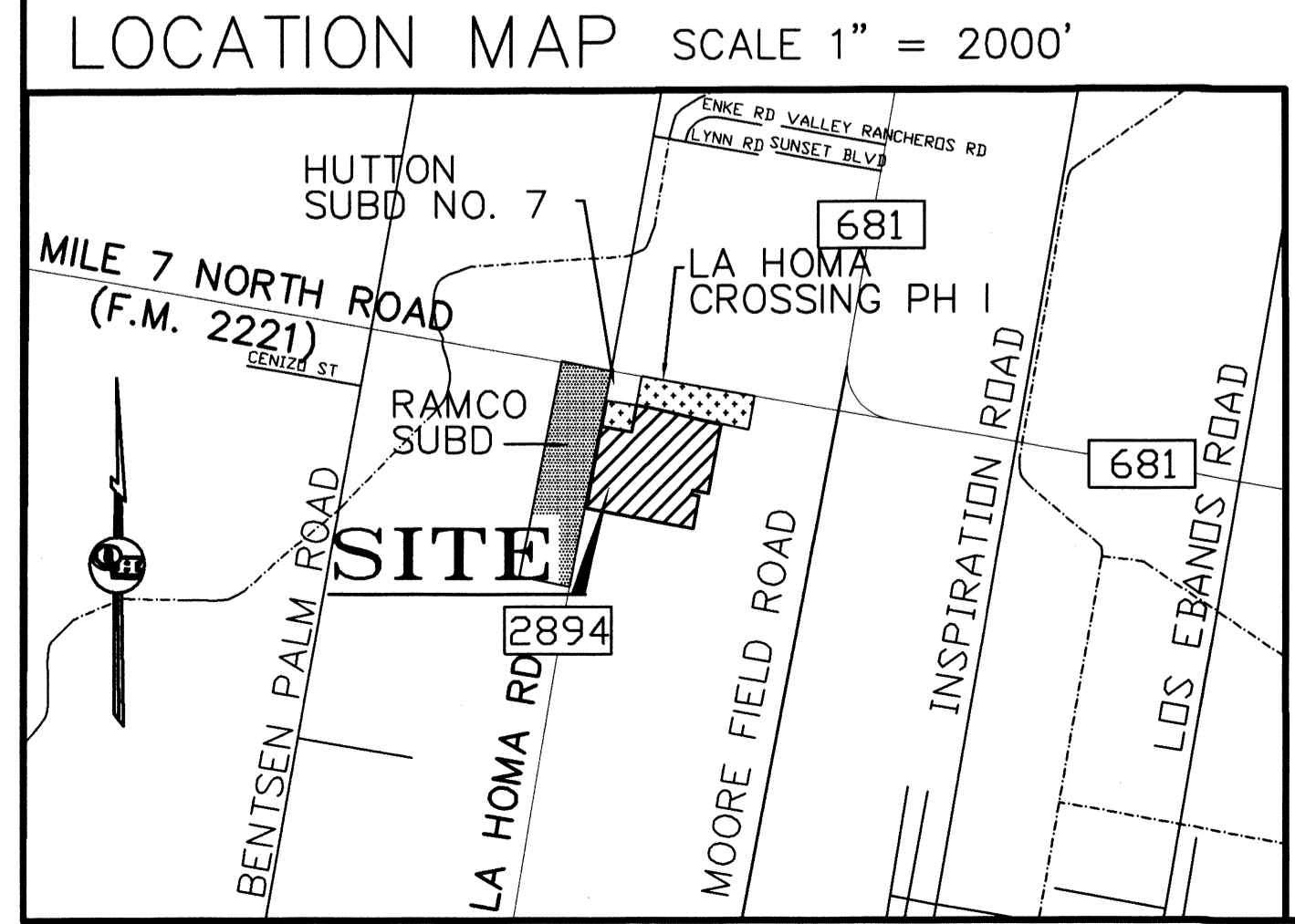
HIDALGO COUNTY DRAINAGE DISTRICT No. 1 HEREBY CERTIFIES THAT THE DRAINAGE PLANS FOR THIS SUBDIVISION COMPLY WITH THE MINIMUM STANDARDS OF THE DISTRICT ADOPTED UNDER THE TEXAS WATER CODE 49.211 (C). THE DISTRICT HAS NOT REVIEWED AND DOES NOT CERTIFY THAT THE DRAINAGE STRUCTURES DESCRIBED ARE APPROPRIATE FOR THE SPECIFIC SUBDIVISION BASED ON GENERALLY ACCEPTED ENGINEERING CRITERIA. IT IS THE RESPONSIBILITY OF THE DEVELOPER AND HIS ENGINEER TO MAKE THEIR DETERMINATIONS.

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

HIDALGO COUNTY  
CERTIFICATE OF PLAT APPROVAL

I, THE UNDERSIGNED, CERTIFY THAT THIS LA HOMA CROSSING SUBDIVISION PHASE II WAS REVIEWED AND APPROVED BY THE HIDALGO COUNTY HEALTH DEPARTMENT.

ENVIRONMENTAL HEALTH DIVISION MANAGER \_\_\_\_\_ DATE \_\_\_\_\_  
ON: \_\_\_\_\_ AT \_\_\_\_\_ AM/PM  
INSTRUMENT NUMBER \_\_\_\_\_ OF THE MAP RECORDS OF HIDALGO COUNTY, TEXAS  
BY: \_\_\_\_\_ DEPUTY



**PLAT NOTES AND RESTRICTIONS:**

- FLOOD ZONE STATEMENT: FLOOD ZONE DESIGNATION: ZONE "X" AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN.
- SETBACKS: FRONT 15.00 FEET LOTS 1 THRU 8 60.00 FEET REAR 25.00 FEET LOTS 1 THRU 8 35.00 FEET SIDE 6.00 FEET
- MINIMUM FINISH FLOOR NOTE: MINIMUM FINISHED FLOOR ELEVATION SHALL BE 18" TOP OF CURB OR 18" ABOVE NATURAL GROUND, WHICHEVER IS GREATER. ELEVATION CERTIFICATE MAY BE REQUIRED FOR LOTS LOCATED OUTSIDE A DESIGNATED FLOOD ZONE AT THE TIME OF APPLICATION FOR CONSTRUCTION TO VERIFY PRE AND POST CONSTRUCTION FINISHED FLOOR ELEVATIONS. AN ELEVATION CERTIFICATE SHALL BE REQUIRED FOR ALL LOTS WITHIN A DESIGNATED FLOOD ZONE AT THE TIME FOR A DEVELOPMENT PERMIT APPLICATION.
- NO STRUCTURE SHALL BE PERMITTED OVER ANY EASEMENT. EASEMENTS SHALL BE KEPT CLEAR OF FENCES, 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.
- DRAINAGE AREA EASEMENT FOR LOTS OF 1 THRU 8 TO BE MAINTAINED BY THE LOT OWNERS.
- NO INDIVIDUAL LOT ACCESS WILL BE ALLOWED FOR LOTS 1 THROUGH 8. A 2400 FOOT DRIVEWAY ENTRANCE SHALL BE CONSTRUCTED BY DEVELOPER ON LOTS 1 THROUGH 8 TO PROVIDE INGRESS AND EGRESS TO ALL LOTS FROM LA JOYA LANE.
- DEVELOPER MUST PAVE ALL 25.00' ACCESS EASEMENTS PRIOR TO RECORDING OR ISSUING ANY BUILDING PERMITS. THE MAINTENANCE OF THE PAVED ACCESS EASEMENTS SHALL BE THE RESPONSIBILITY OF EACH PROPERTY OWNER.
- NO-ON SITE SEWAGE FACILITIES (OSSF) NOTE: A. OSSF SYSTEM IS BEING DESIGNED FOR DISPOSAL OF COMMERCIAL SEWAGE ONLY. A SEPARATE DESIGN SHALL BE SUBMITTED FOR MULTIFAMILY USE. B. EACH LOT ON THIS PLAT COMPLES 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 ANALYSES 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 SOIL EVALUATOR (LICENSE NO. 025225) 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.
- EACH PURCHASE 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 SHALL BE DEEMED TO HAVE AGREED TO COMPLY WITH THE SIZE REQUIRED BY EACH UTILITY PROVIDER OCCUPANCY AN EASEMENT.
- NO INDIVIDUAL LOT ACCESS WILL BE ALLOWED FOR LOTS 1 THROUGH 8. A 2400 FOOT DRIVEWAY ENTRANCE SHALL BE CONSTRUCTED BY DEVELOPER ON LOTS 1 THROUGH 8 TO PROVIDE INGRESS AND EGRESS TO ALL LOTS FROM LA JOYA LANE.
- DEVELOPER MUST PAVE ALL 25.00' ACCESS EASEMENTS PRIOR TO RECORDING OR ISSUING ANY BUILDING PERMITS. THE MAINTENANCE OF THE PAVED ACCESS EASEMENTS SHALL BE THE RESPONSIBILITY OF EACH PROPERTY OWNER.

**PRINCIPAL CONTACTS:**

Name	Address	City & Zip	Phone	Fax
OWNER: MANUEL CANTU, JR. MEMBER, RED ROCK REAL ESTATE DEVELOPMENT GROUP, LTD.	2912 S. JACKSON ROAD	MCALLEN, TX 78503	(956)821-8180	682-3302
ENGINEER: EULALIO RAMIREZ	124 E. STUBBS	EDINBURG, TX 78539	(956)381-6480	381-0527
SURVEYOR: ALFONSO QUINTANILLA	124 E. STUBBS	EDINBURG, TX 78539	(956)381-6480	381-0527

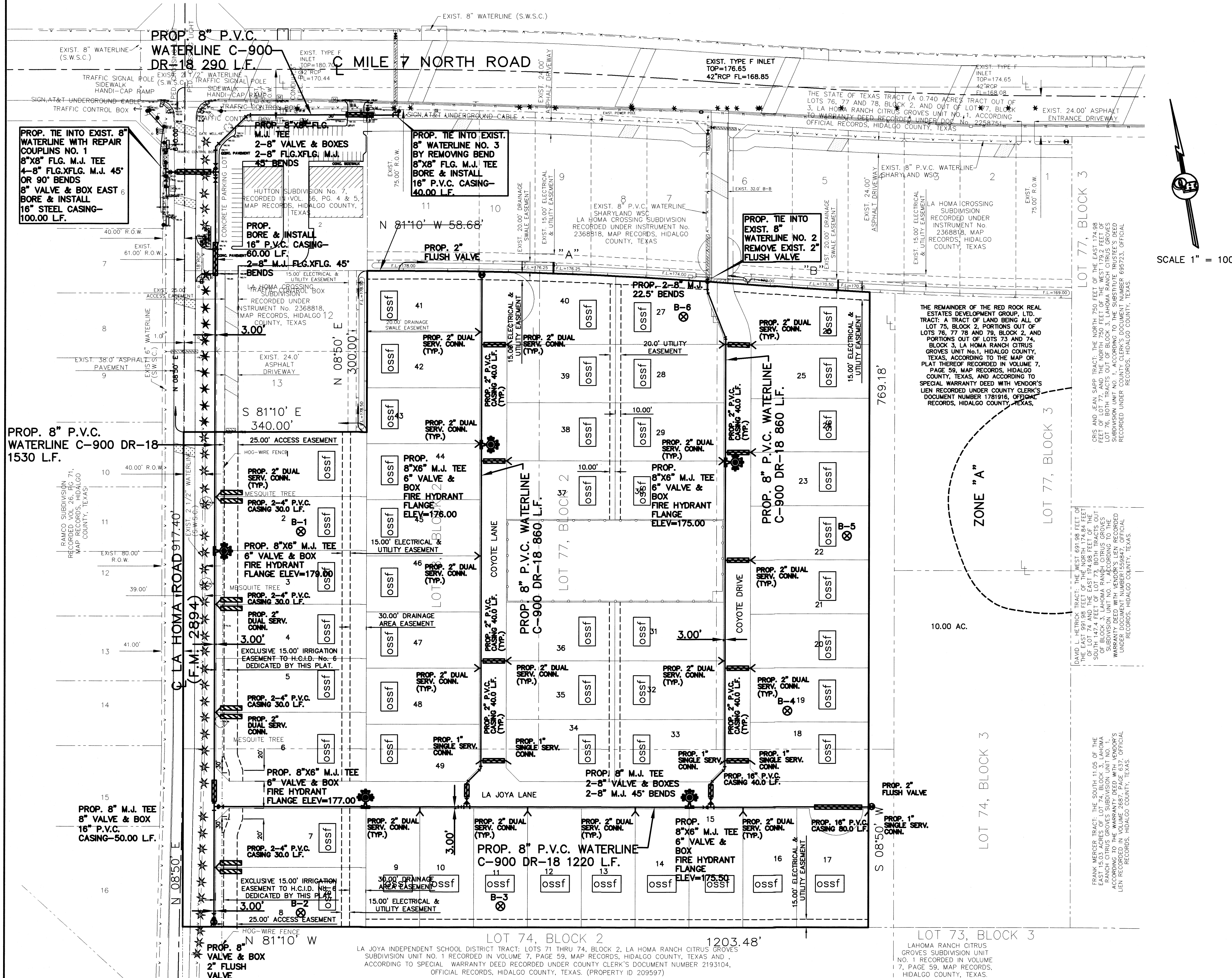
**QUINTANILLA, HEADLEY AND ASSOCIATES, INC.**

CONSULTING ENGINEERS • LAND SURVEYORS

124 E. STUBBS ST. EDINBURG, TEXAS 78539  
PHONE 956-381-6480 FAX 956-381-0527  
ENGINEERING REGISTRATION NUMBER F-1513 ALFONSO@QHA-ENG.COM  
SURVEYING REGISTRATION NUMBER 100411-00

FILENAME	DATE PREPARED	PREPARED BY	CHECKED BY	APPROVED BY
F:\DATA\SUBDIVISION\MISSION\LA HOMA CROSSING SUBD\LA HOMA-PLAT	08-12-2019	JM	GC	GC
SHEET No. 1 OF 2 SHEETS	DATE REVISION	REVISION BY	CHECKED BY	APPROVED BY
	10-20-2020	JG, JCV	GC	GC

MAP OF WATER DISTRIBUTION SYSTEM AND SEWER SYSTEM/ MAPA DE DISTRIBUCION DE AGUA Y SISTEMA DE DRENAJE



**FINAL ENGINEERING REPORT FOR LA HOMA CROSSING SUBDIVISION PHASE II:**  
**WATER SUPPLY: Description and Costs.**  
 LA HOMA CROSSING SUBDIVISION PHASE II HAS BEEN PROVIDED WITH POTABLE WATER BY THE SHARYLAND WATER SUPPLY CORPORATION. THE SUBDIVIDER AND THE SHARYLAND WATER SUPPLY CORPORATION HAVE ENTERED INTO A CONTRACT IN WHICH SHARYLAND WATER SUPPLY CORPORATION HAS PROMISED TO PROVIDE SUFFICIENT WATER TO THE SUBDIVISION FOR AT LEAST 30 YEARS AND SHARYLAND WATER SUPPLY CORPORATION 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.  
 SHARYLAND WATER SUPPLY CORPORATION HAS AN EXISTING 6" DIAMETER WATERLINE ALONG THE WEST SIDE OF LA HOMA ROAD (FM 2894), AN EXISTING 8" WATER LINE RUNNING ALONG THE NORTH AND SOUTH SIDE OF MILE 7 NORTH ROAD.  
 THE WATER SYSTEM FOR LA HOMA CROSSING SUBDIVISION PHASE II CONSISTS OF A PROPOSED 8" WATERLINE THAT TAPS INTO THE EXISTING 8" WATERLINE LOCATED ON WEST SIDE OF LA HOMA ROAD AND EXISTING 8" WATERLINE LOCATED ON THE WEST SIDE OF COYOTE DRIVE. THE PROPOSED 8" WATERLINE WILL RUN SOUTH ALONG ON THE WEST SIDE OF COYOTE DRIVE, THEN WEST ALONG THE NORTH SIDE OF LA JOYA LANE, THEN NORTH ALONG THE EAST SIDE OF LA HOMA ROAD AND THEN WEST TO THE INTO AN EXISTING 8" WATERLINE RUNNING NORTH ALONG THE WEST SIDE OF COYOTE LANE ENDING WITH A 2" FLUSH VALVE.  
 THERE ARE FORTY FOUR (44) 2" DUAL SERVICE LINES RUNNING TO PAIR OF LOTS BEFORE SPLITTING INTO TWO 1" DIAMETER SINGLE SERVICE LINES, AND FIVE (5) 1" DIAMETER SINGLE SERVICE LINES.  
 THE PROPOSED 8" WATERLINE, 1" SINGLE SERVICE LINES AND THE METER BOXES WILL BE INSTALLED, AT A TOTAL COST OF \$ \_\_\_\_\_ OR \$ \_\_\_\_\_ PER LOT. THE SUBDIVIDER HAS IN ADDITION PAID TO SHARYLAND WATER SUPPLY CORPORATION THE SUM OF \$ \_\_\_\_\_ OR \$ \_\_\_\_\_ PER LOT, WHICH REPRESENTS THE TOTAL COST OF WATER METERS AND ALL MEMBERSHIPS OR OTHER FEES ASSOCIATED WITH CONNECTING THE INDIVIDUAL LOTS IN THE SUBDIVISION TO SHARYLAND WATER SUPPLY CORPORATION. THE SUBDIVIDER WILL INSTALL THREE (3) FIRE HYDRANTS AT A UNIT COST OF \$ \_\_\_\_\_ OR A TOTAL COST OF \$ \_\_\_\_\_. THE ENTIRE WATER FACILITIES WILL BE APPROVED AND ACCEPTED BY SHARYLAND WATER SUPPLY CORPORATION AND SAID DISTRIBUTION SYSTEM WILL BE OPERABLE AS OF THE DATE OF THE RECORDING OF THE PLAT.

**SEWAGE FACILITIES: Description and Costs.**  
 SEWAGE FROM LA HOMA CROSSING PHASE II, IS TREATED BY INDIVIDUAL ON-SITE SEWAGE FACILITIES (OSSF) CONSISTING OF A STANDARD DESIGN DUAL COMPARTMENT SEPTIC TANK AND A DRAINFIELD ON EACH LOT. THE SITE EVALUATOR (LICENSE NUMBER OS 12258) 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. HIGHLIGHTS OF THE REPORT ARE AS FOLLOWS:  
 EACH LOT IN THE SUBDIVISION IS AT LEAST 1/2 ACRE IN SIZE. THE UNITED STATES OF AGRICULTURE SOIL CONSERVATION SERVICE SOIL SURVEY BOOK INDICATED A FINE SANDY LOAM (TYPE 1) SOIL (LICENSE NUMBER OS 12258) HAS BEEN TREATED AT OPPOSITE AREAS OF THE SUBDIVISION AT THE CENTERS OF LOTS 2, 8, 11, 19, 22 & 27. (ADDITIONAL BORINGS WERE UNNECESSARY BECAUSE THE SOILS ARE VERY UNIFORM WITHIN THIS LIMITED AREA.) THE SOIL REPORT AS PREPARED BY THE SITE EVALUATOR (LICENSE NUMBER OS 12258) INDICATES A UNIFORM SANDY LOAM (WITH TEXTURE CLASS II) EXTENDING MORE THAN 24" BELOW THE BOTTOM OF ANY EXIST. EXCAVATIONS. THE SUBDIVISION DRAINS WELL. THE 50-YEAR FLOODPLAIN BEING CONTAINED WITHIN THE STREETS, THE STORM DRAINAGE SYSTEM AND DETENTION POND.  
 THE COST TO INSTALL A SEPTIC SYSTEM ON AN INDIVIDUAL LOT IS \$ \_\_\_\_\_. INCLUDING THE COST FOR THE REQUIRED PERMIT AND LICENSE. ALL OSSF'S HAVE BEEN INSTALLED AS OF THE TIME OF APPLICATION FOR FINAL PLAT APPROVAL AT A TOTAL COST OF \$ \_\_\_\_\_. THE HIDALGO COUNTY HEALTH DEPARTMENT HAS INSPECTED AND APPROVED THE INSTALLATION OF ALL OSSF ON \_\_\_\_\_ 2021.  
**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 COSTS TO INSTALL THE UNCONSTRUCTED WATER AND ON-SITE SEWAGE FACILITIES, DISCUSSED ABOVE, ARE AS FOLLOWS:  
**WATER FACILITIES**—THESE FACILITIES ARE FULLY CONSTRUCTED, AND WITH THE INSTALLATION OF WATER METERS, WILL COST A GRAND TOTAL OF \$ \_\_\_\_\_ WHICH EQUALS TO \$ \_\_\_\_\_ PER LOT.  
**SEWAGE FACILITIES**—OSSF SYSTEM COST \$ \_\_\_\_\_ PER LOT (ALL INCLUSIVE), FOR A TOTAL OF \$ \_\_\_\_\_ FOR THE ENTIRE SUBDIVISION.

**FINAL ENGINEERING REPORT FOR LA HOMA CROSSING SUBDIVISION PHASE II:**  
**WATER SUPPLY: Description and Costs.**  
 LA HOMA CROSSING SUBDIVISION PHASE II SERA PROVISTA DE AGUA POTABLE POR LA COMPANIA DE AGUA SHARYLAND WATER SUPPLY CORPORATION (S.W.S.C.). EL DUEÑO DE LA SUBDIVISION Y LA COMPANIA DE AGUA S.W.S.C. SE HAN COMPROMETIDO A PROVEER AGUA SUFICIENTE A LA SUBDIVISION POR UN PERIODO DE 30 AÑOS. LA COMPANIA DE AGUA S.W.S.C. HA PRESENTADO LA DOCUMENTACION DEMOSTRANDO LA DISPONIBILIDAD DE CANTIDAD Y CALIDAD DE AGUA A LARGO PLAZO QUE SERVIRA PARA EL FUTURO DESARROLLO DE LA SUBDIVISION. S.W.S.C. TIENE UNA LINEA DE AGUA EXISTENTE DE 6" DE DIAMETRO QUE CORRE POR EL LADO OESTE DE LA CALLE TROSPER ROAD.  
 SHARYLAND WATER SUPPLY CORPORATION (S.W.S.C.) CONTIENE UNA LINEA DE 6" DE DIAMETRO EN EL LADO OESTE DE LA CALLE LA HOMA ROAD (FM 2894), UNA LINEA DE 8" DE DIAMETRO EN EL LADO NORTE Y SUR DE LA CALLE MILE 7 NORTH ROAD Y UNA LINEA DE 8" DE DIAMETRO EN EL LADO OESTE DE LA CALLE COYOTE DRIVE.  
 EL SISTEMA DE AGUA PARA LA HOMA CROSSING SUBDIVISION PHASE II CONSISTE DE UNA LINEA DE AGUA DE 8" DE DIAMETRO QUE SE CONECTA CON LA LINEA DE 8" DE DIAMETRO EXISTENTE EN EL LADO OESTE DE LA CALLE COYOTE DRIVE. LA LINEA DE AGUA DE 8" DE DIAMETRO CONTINUA A LA DIRECCION SUR, DESPUES A LA DIRECCION OESTE Y DESPUES A LA DIRECCION NORTE Y TERMINA AL LADO OESTE DE LA CALLE LA HOMA ROAD QUE TIENE UNA LINEA DE AGUA DE 8" DE DIAMETRO. OTRA LINEA DE AGUA CORRE HACIA EL NORTE POR EL LADO OESTE DE LA CALLE COYOTE LANE TERMINANDO CON UNA VALVULA DE DESCARGA DE 2" PULGADAS.  
 CUARENTA Y CUATRO (44) DOBLE-CONDUCTOS DE AGUA DE UNA (1) PULGADA ANTES QUE SEPARARSE EN DOS CONDUCTOS DE AGUA PARA CADA LOTE. Y CINCO (5) SENCILLOS-CONDUCTOS DE AGUA QUE CORREN ASIA CADA LOTE.  
 LA LINEA DE AGUA DE 8" DE DIAMETRO, LAS LINEAS DE 2" DE DIAMETRO SERVICIO DOBLE Y LAS DE 1" DE DIAMETRO, SERVICIO SENCILLOS Y LAS CAJAS DE LOS MEDIDORES DE AGUA HAN SIDO INSTALADAS A UN COSTO TOTAL DE US\$ \_\_\_\_\_ O US\$ \_\_\_\_\_ POR LOTE. ADICIONALMENTE, EL DUEÑO DE LA SUBDIVISION PAGARA A S.W.S.C. LA CANTIDAD DE US\$ \_\_\_\_\_ POR SOLAR DE ADQUIERIDO AL CONTRATO Y DOCUMENTO DE 30 AÑOS DE SERVICIO DE AGUA POTABLE EL CUAL CUBRE LOS MEDIDORES DE AGUA, INSTALACION, CONEXION Y MEMBRASIAS. CUANDO EL DUEÑO DE CADA LOTE SOLICITE UN MEDIDOR DE AGUA, LA COMPANIA S.W.S.C. LO INSTALARA SIN ALGUN GASTO AL DUEÑO. EL DUEÑO DE LA SUBDIVISION TAMBIEN PAGO PARA TRES (3) BOCAS DE RIEGO (FIRE HYDRANT) A UN COSTO DE US\$ 3,200.00 POR CADA UNO CUAL GASTA UNA CANTIDAD TOTAL US\$ 9,600.00. EL SISTEMA DE AGUA ESTARA EN FUNCIONAMIENTO COMPLETO ANTES O EN LA FECHA, EN LA CUAL LA CUAL LA SUBDIVISION SE REGISTRARA EN EL CONDADO DE HIDALGO.  
**DRENAJE: Description, Gastos y Fecha de Inicio**  
 EL DRENAJE DE LA HOMA CROSSING, TENDRA FOSAS SEPTICAS INDIVIDUALES (OSSF) CONSISTIENDO EN UN DISEÑO NORMAL, CON DOBLE COMPARTIMIENTO DE FOSA SEPTICA (OSSF) Y UN CAMPO DE DRENAJE EN CADA SOLAR. EL EVALUADOR (LIC# OS 12258) DE ENSUEÑO HA INSPECCIONADO, EVALUADO Y REPORTADO QUE LA UBICACION DE LA SUBDIVISION ES CONVENIENTE PARA FOSAS SEPTICAS (OSSF). EL REPORTE FUE EXAMINADO Y APROBADO POR EL DEPARTAMENTO DE SALUD DEL CONDADO DE HIDALGO.  
 CADA SOLAR EN LA SUBDIVISION MEDIO ACRE DE TAMARZO. EL LIBRO DE SERVICIOS Y CONSERVACION DEL SUELO DEL DEPARTAMENTO DE AGRICULTURA DE LOS ESTADOS UNIDOS (USDA) INDICA UNA MEZCLA DE BARRO ARENOSO. EL EVALUADOR (LIC# OS 12258) HIZO SEIS (6) PRUEBAS CON AGUJEROS EN EL CENTRO DE LOS LOTES 2, 8, 11, 19, 22 Y 27. (PRUEBAS ADICIONALES NO FUERON NECESARIAS PORQUE EL SUELO ES MUY UNIFORME DENTRO DEL AREA DELIMITADA). EL SUELO ES UNIFORME, DE BARRO ARENOSO (CON TEXTURA CLASE II) EXTENDIDO A MAS DE 24 PULGADAS BAJO EL FONDO DE CUALQUIER EXCAVACION POR EL EVALUADOR (LIC# OS 12258), 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\$ \_\_\_\_\_. INCLUIDO 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\$ \_\_\_\_\_. EL DEPARTAMENTO DE SALUBRIDAD DEL CONDADO DE HIDALGO HA INSPECCIONADO TODAS LAS FOSAS SEPTICAS Y AH APROBADO LA INSTALACION DE LAS FOSAS SEPTICAS DESDE **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 ESTA TOTALMENTE CONSTRUIDO, CON LA INSTALACION DE LOS MEDIDORES DE AGUA, EL GRAN COSTO TOTAL ES DE US\$ \_\_\_\_\_ LO CUAL EQUIVALE A US\$ \_\_\_\_\_ POR LOTE.  
**DRENAJE:** LAS FOSAS SEPTICAS COSTARAN US\$ \_\_\_\_\_ A UN COSTO TOTAL DE US\$ \_\_\_\_\_ PARA TODA LA SUBDIVISION.

**LA JOYA INDEPENDENT SCHOOL DISTRICT TRACT:** LOTS 71 THRU 74, BLOCK 2, LA HOMA RANCH CITRUS GROVES SUBDIVISION UNIT NO. 1, RECORDED IN VOLUME 7, PAGE 59, MAP RECORDS, HIDALGO COUNTY, TEXAS, AND ACCORDING TO SPECIAL WARRANTY DEED RECORDED UNDER COUNTY CLERK'S DOCUMENT NUMBER 2193504, OFFICIAL RECORDS, HIDALGO COUNTY, TEXAS. (PROPERTY ID 2059597)

**LA HOMA RANCH CITRUS GROVES SUBDIVISION UNIT NO. 1:** RECORDED IN VOLUME 7, PAGE 59, MAP RECORDS, HIDALGO COUNTY, TEXAS, AND ACCORDING TO SPECIAL WARRANTY DEED RECORDED UNDER COUNTY CLERK'S DOCUMENT NUMBER 2193504, OFFICIAL RECORDS, HIDALGO COUNTY, TEXAS.

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**LA HOMA CROSSING SUBDIV**

MAP OF TOPOGRAPHY AND DRAINAGE / MAPA DE TOPOGRAFIA Y DRENAJE

SUBDIVISION PLAT OF: **LA HOMA CROSSING SUBDIVISION PHASE II**

A 32.73 ACRE TRACT OF LAND BEING PORTIONS OUT OF LOTS 75, 76, 77, 78 AND 79, BLOCK 2, LA HOMA RANCH CITRUS GROVES UNIT No. 1, HIDALGO COUNTY, TEXAS, ACCORDING TO THE MAP OR PLAT THEREOF RECORDED IN VOLUME 7, PAGE 59, MAP RECORDS, HIDALGO COUNTY, TEXAS, AND ACCORDING TO SPECIAL WARRANTY DEED WITH VENDOR'S LIEN RECORDED UNDER COUNTY CLERK'S DOCUMENT NUMBER 1781916, OFFICIAL RECORDS, HIDALGO COUNTY, TEXAS.

**DRAINAGE REPORT FOR: LA HOMA CROSSING SUBDIVISION PHASE II BY EULALIO RAMIREZ P.E.**

A 32.73 acre tract of land being portions out of lots 75, 76, 77, 78 and 79, block 2, La Homa Ranch Citrus Groves Unit No. 1, Hidalgo County, Texas, according to the map or plat thereof recorded in volume 7, page 59, map records, Hidalgo County, Texas, and according to special warranty deed with vendor's lien recorded under county clerk's document number 1781916, official records, Hidalgo County, Texas. This subdivision is located on the east side of La Homa Road, approximately 640 feet south of Mile 7 North road. It is in the City of MISSION, E.T.U. The proposed subdivision will consist of 19 residential lots and 8 commercial lots.

The tract is Zone "X" (Unshaded), areas determined to be outside 500-year floodplain, as per FEMA Flood Insurance Rate Map, Community Panel No. 480334 0295 D, and 480334 0290 D, dated June 6, 2000.

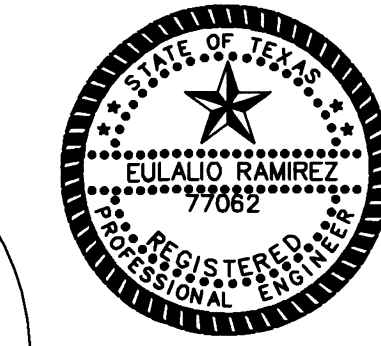
The majority of the soil is Hidalgo (25& 28) and Rio (60). It is in soil group "A" & "B" and with fine sandy loam (SM-SC), sandy clay loam (SC), clay loam (CL) and clay loam. This soil is well drained. Permeability is moderate. Plasticity index has a range of 4-32. See attached Soil Survey of Hidalgo County, Texas tables.

Presently, the site has very minimal runoff in an easterly direction with an approximate 1.0% slope. The existing runoff for the proposed subdivision is Q = 6.42 cubic feet per second based on a 10-year storm.

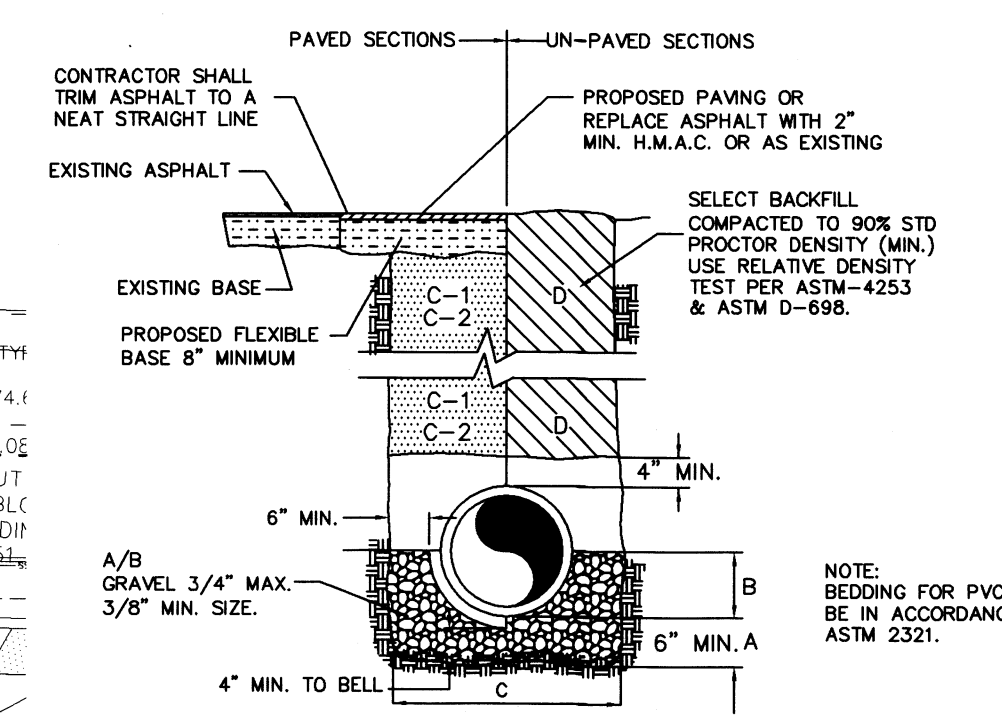
After development the runoff will be Q = 25.47 cubic feet per second for an increase of Q = 25.47 cubic feet per second. Detention based on an 8" release rate of 1.05cfs will be 179,791.00 cubic feet (4,127 acre feet) in accordance with the city's drainage regulations. Detention will be provided by the proposed detention area, Lot "A", which are located on the northwest corner of the subdivision. The street runoff will be collected by a storm system consisting of 24" and 30" pipes and Type "A" inlets that will discharge into the proposed detention area. One 8" bleeder line will discharge into the existing TxDOT Type "F" inlet located along the south side of Mile 7 North Road.

At building permit stage for the 8 commercial lots (Lots 1-8), runoff collected by their development will be collected by grading proposed paving areas to the detention areas located on the east side of the lots. During subdivision construction, an 18" bleeder storm line has been installed to connect the proposed detention area to Lot "A". A drainage plan to be approved by the City of Mission or County of Hidalgo will be required at time of issuance of building permit for the 8 commercial lots.

**CERTIFICATION:**  
BY MY SIGNATURE BELOW, I CERTIFY THAT THE 100-YEAR FLOODPLAIN FOR ZONE "X" (UNSHADED) AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN, AS DESCRIBED IN COMMUNITY PANEL NUMBER 480334 0295 D (JUNE 6, 2000) IS CONTAINED WITHIN THE RIGHT-OF-WAY OF STREET AND WITHIN THE DRAINAGE OF THE SUBDIVISION, AS SHOWN BELOW.

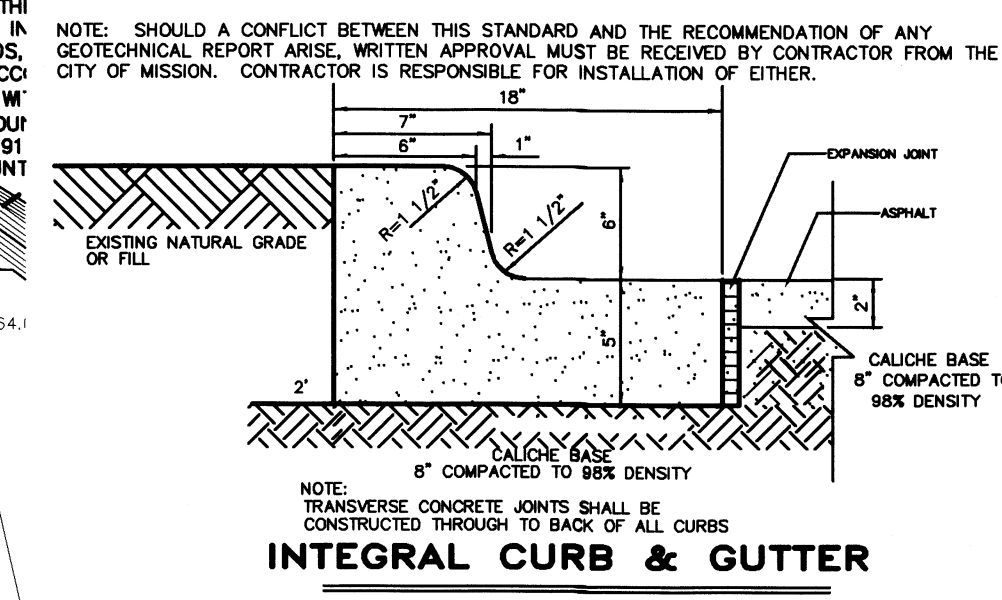


*Eulalio Ramirez*  
EULALIO RAMIREZ  
P.E. No. 77062  
DATE: 7-11-21

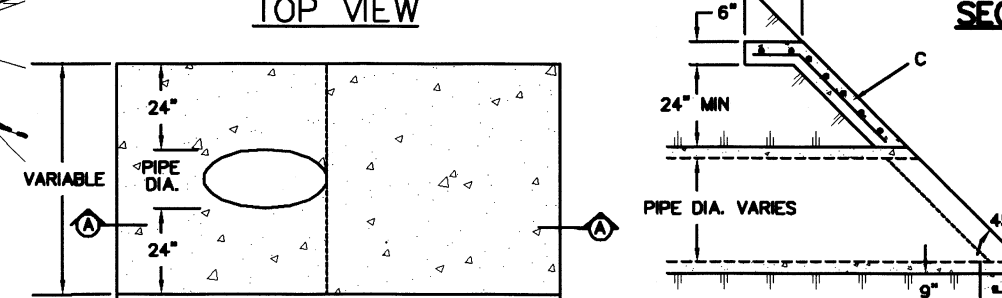


- A. GRAVEL BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE (MIN. THICKNESS=6") - PIT RAMP GRAVEL 3/4" MAX. SIZE.
- B. GRAVEL PLACED AFTER PIPE IS LAID, FROM BOTTOM OF PIPE TO SPRING LINE.
- C. TRENCH WIDTHS SHALL BE PIPE BELL O.D. + 12" OR IN ACCORDANCE WITH ASTM 2321 FOR PVC PIPE AND ASTM C12 (LATEST) FOR METALLIC GLAY PIPE.
- C-1. (CITY STREETS, PARKING AREA, DRIVEWAYS) SELECT EXCAVATED BACK FILL COMPACTED TO 95% STD. 8" LIFTS, MECHANICAL COMPACTION.
- C-2. (STATE MAINTAINED ROADWAYS) COMPACTED SAND/CEMENT STABILIZED BACK FILL WITH 7% PORTLAND CEMENT COMPACTED AS PER ASTM D-4253 AND ASTM D-698.
- D. SELECT EARTH BACK FILL COMPACTED TO 90% STD. PROCTOR DENSITY (12" LIFTS, MECHANICAL COMPACTION) FOUNDATION PREPARATION (WELLPONTS, GRAVEL OR CEMENT STABILIZATION OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE. BACK FILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROPRIATE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO 95% STD. PROCTOR DENSITY (USE RELATIVE DENSITY TEST PER ASTM D-4253 & ASTM D-698). THE THICKNESS OF EACH LOOSE LAYER SHALL NOT EXCEED 6". STRUCTURE BACK FILL MATERIAL SHALL BE SAND, APPROVED SITE SOIL, OR OTHER APPROVED SUBSTITUTE.

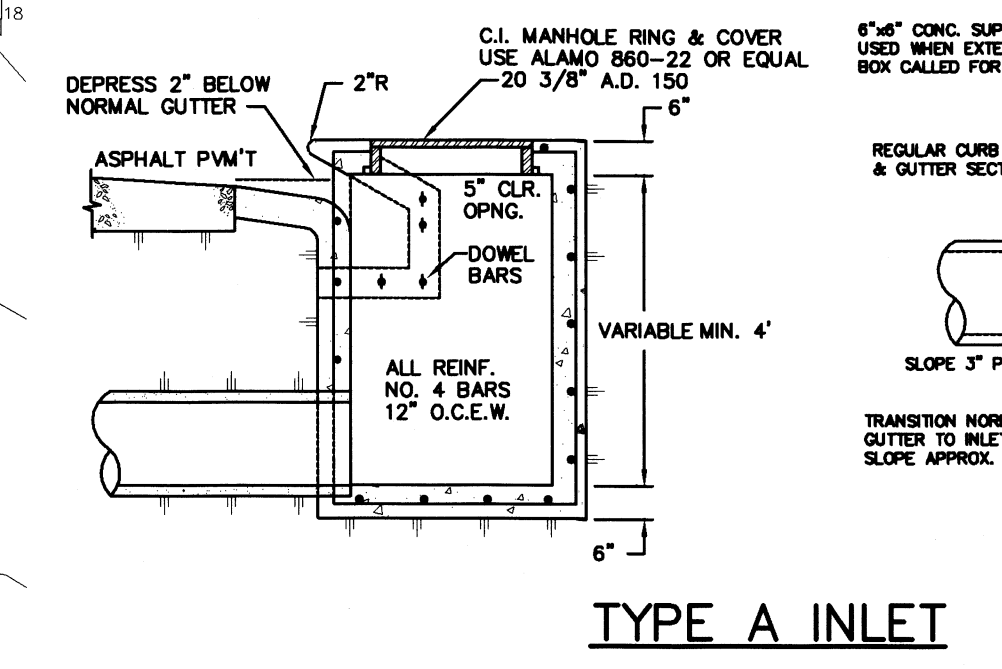
**STORM SEWER (LOW PRESSURE PIPE)**  
SCALE: N.T.S.



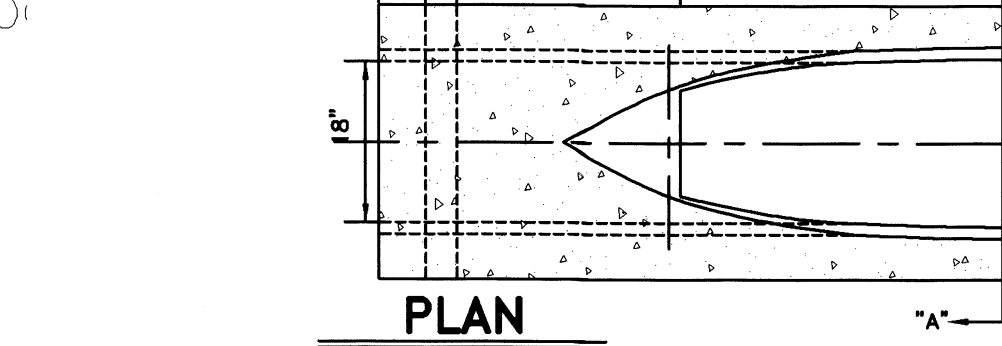
**CONCRETE HEADWALL DETAIL (POURED IN PLACE)**  
TOP VIEW



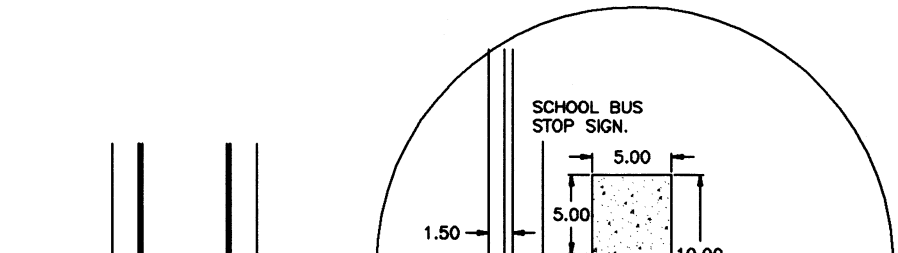
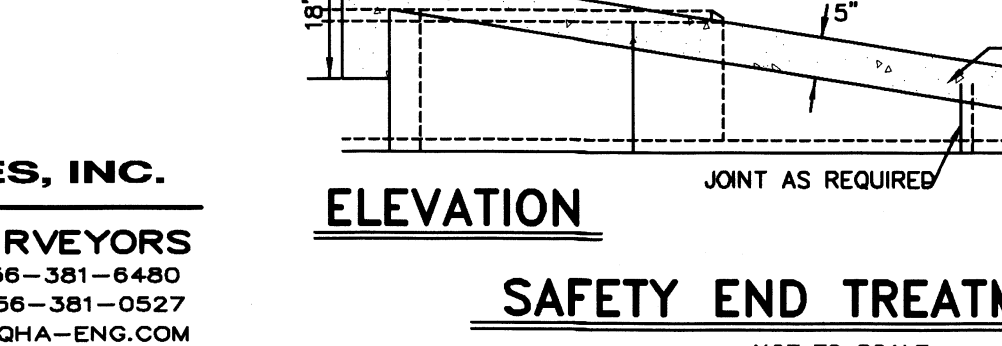
**TYPE A INLET**



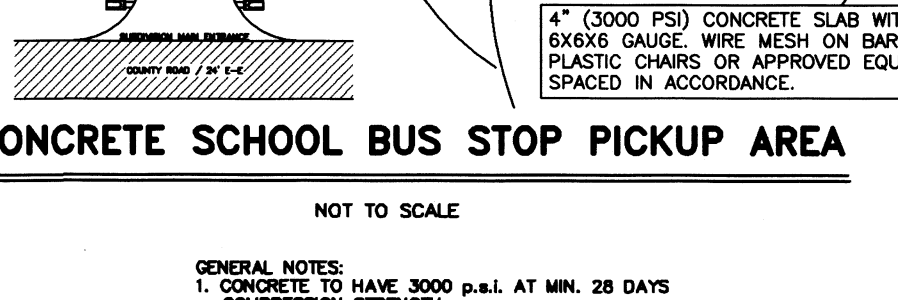
**PLAN**



**ELEVATION**



**CONCRETE SCHOOL BUS STOP PICKUP AREA**  
NOT TO SCALE



**20.0' DRAINAGE AREA EASEMENT SECTION**



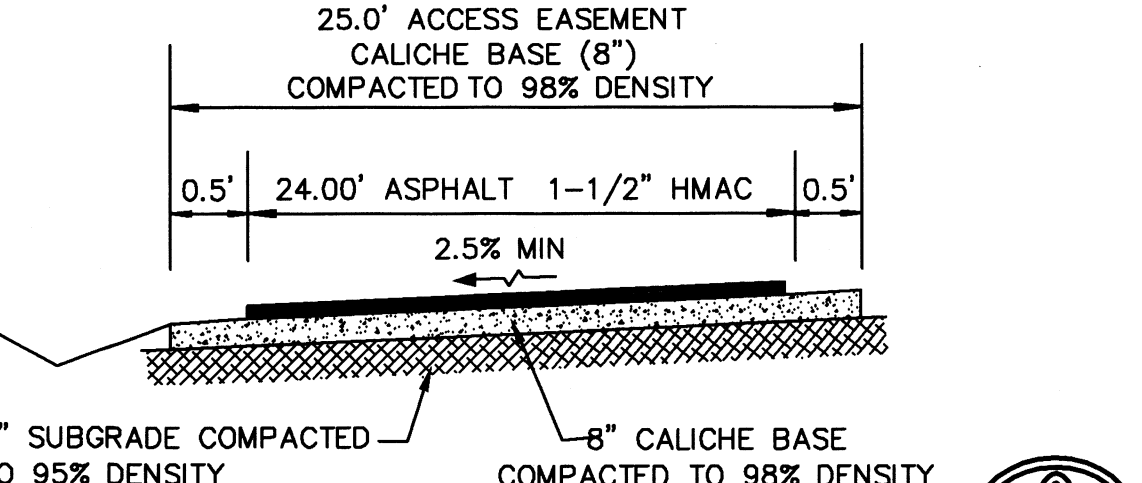
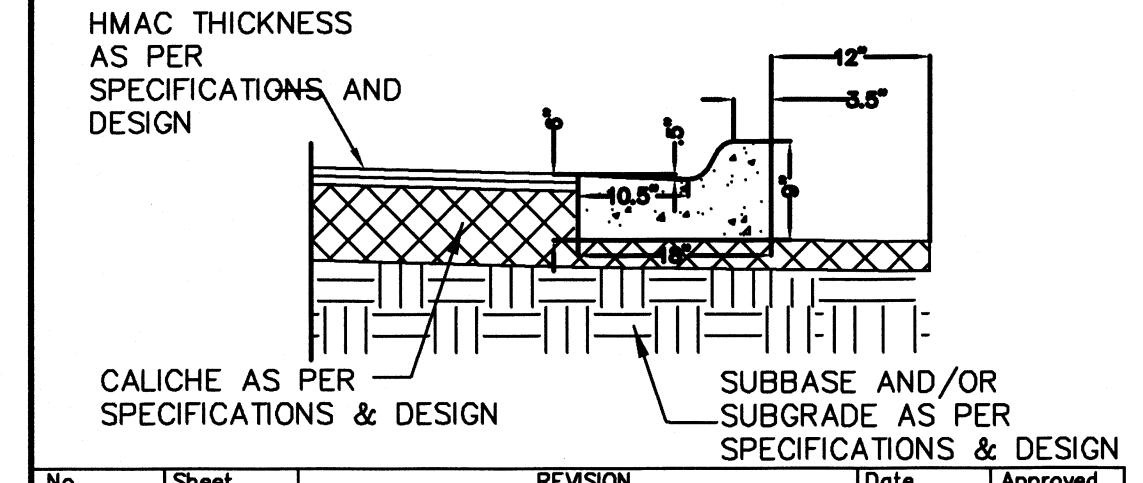
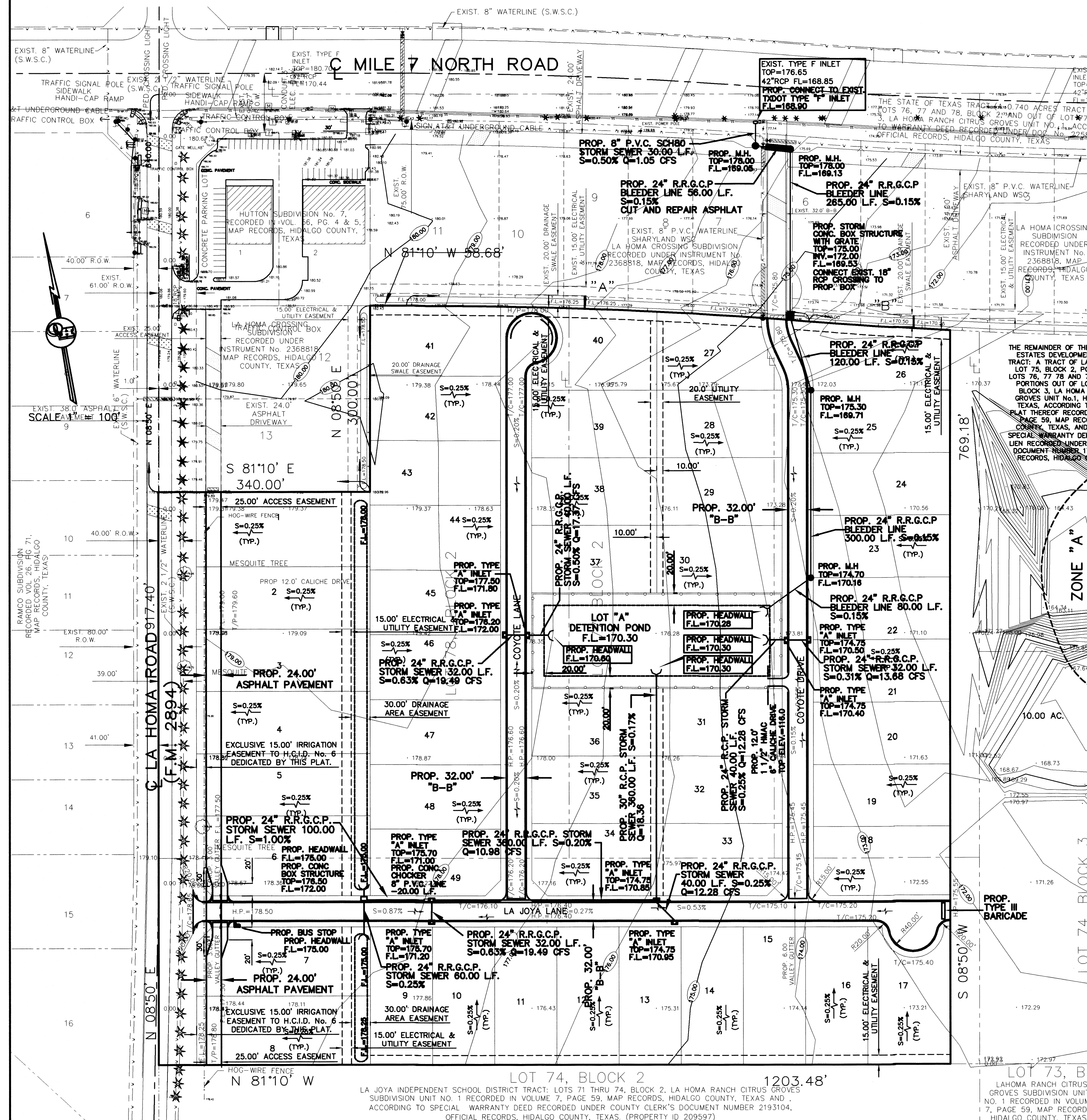
**COST ESTIMATE**

WATER DISTRIBUTION:	\$
OSFS FACILITIES:	\$
PAVING IMPROVEMENTS:	\$
DRAINAGE IMPROVEMENTS:	\$

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

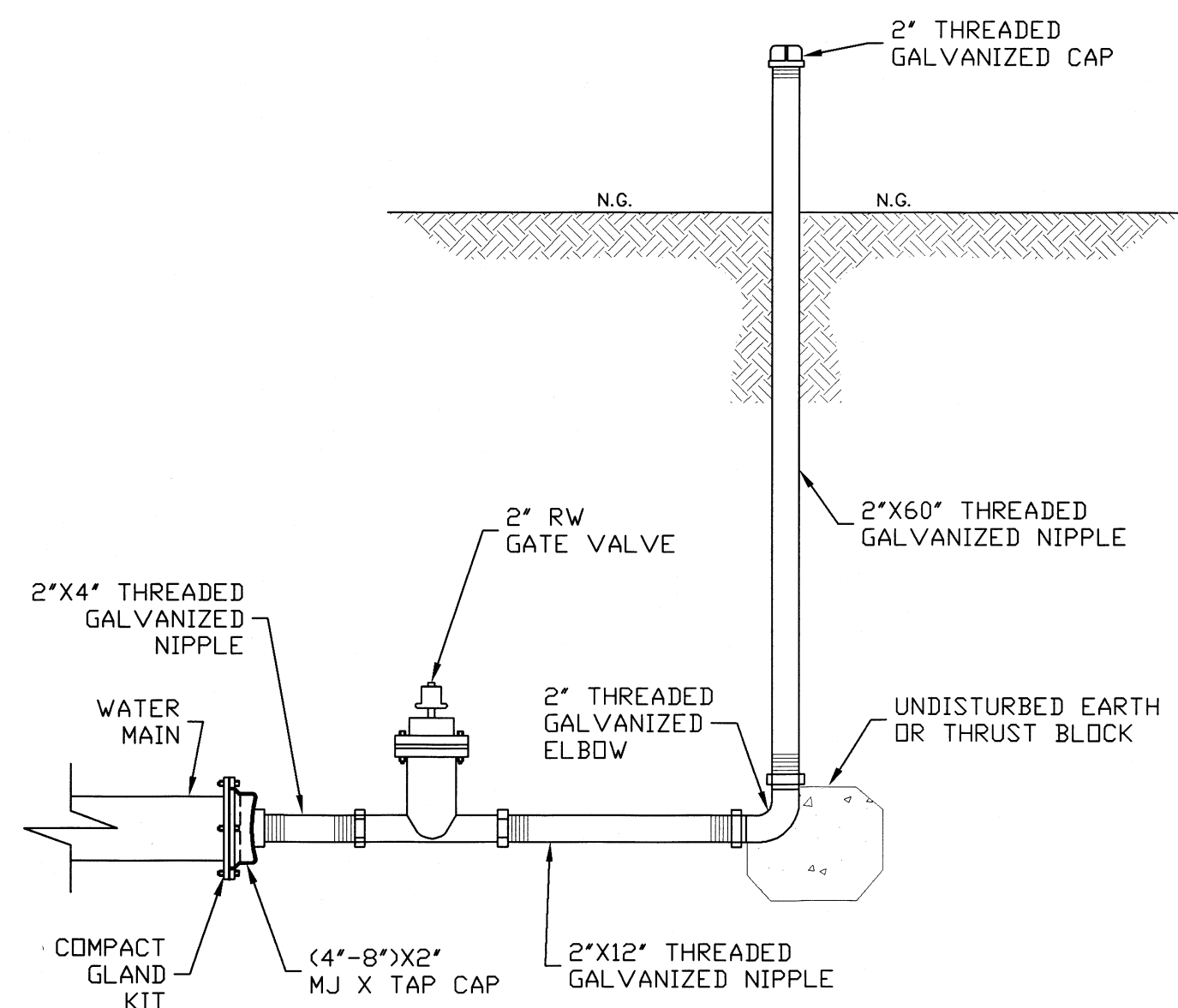
ON: \_\_\_\_\_ AT \_\_\_\_\_ AM/PM  
INSTRUMENT NUMBER \_\_\_\_\_  
OF THE MAP RECORDS OF HIDALGO COUNTY, TEXAS  
BY: \_\_\_\_\_ DEPUTY

SHEET NO. 3 OF 3	FILENAME: F:\DATA\SUBDIVISION\LA HOMA CROSSING PHASE II WATER PAVING
DATE PREPARED 12-08-20	DATE CHECKED 06-08-21
DATE REVISION 3-9-2021	DATE APPROVED 06-08-21
	APPROVED BY JUS CVES



No.	Sheet	REVISION	Date	Approved

**QUINTANILLA, HEADLEY AND ASSOCIATES, INC.**  
CONSULTING ENGINEERS • LAND SURVEYORS  
124 E. STUBBS ST. • PHONE 956-381-6480  
EDINBURG, TEXAS 78839 • FAX 956-381-0527  
ENGINEERING REGISTRATION NUMBER 81-1315 • ALFONSO@QHA-ENG.COM  
SURVEYING REGISTRATION NUMBER 100411-00

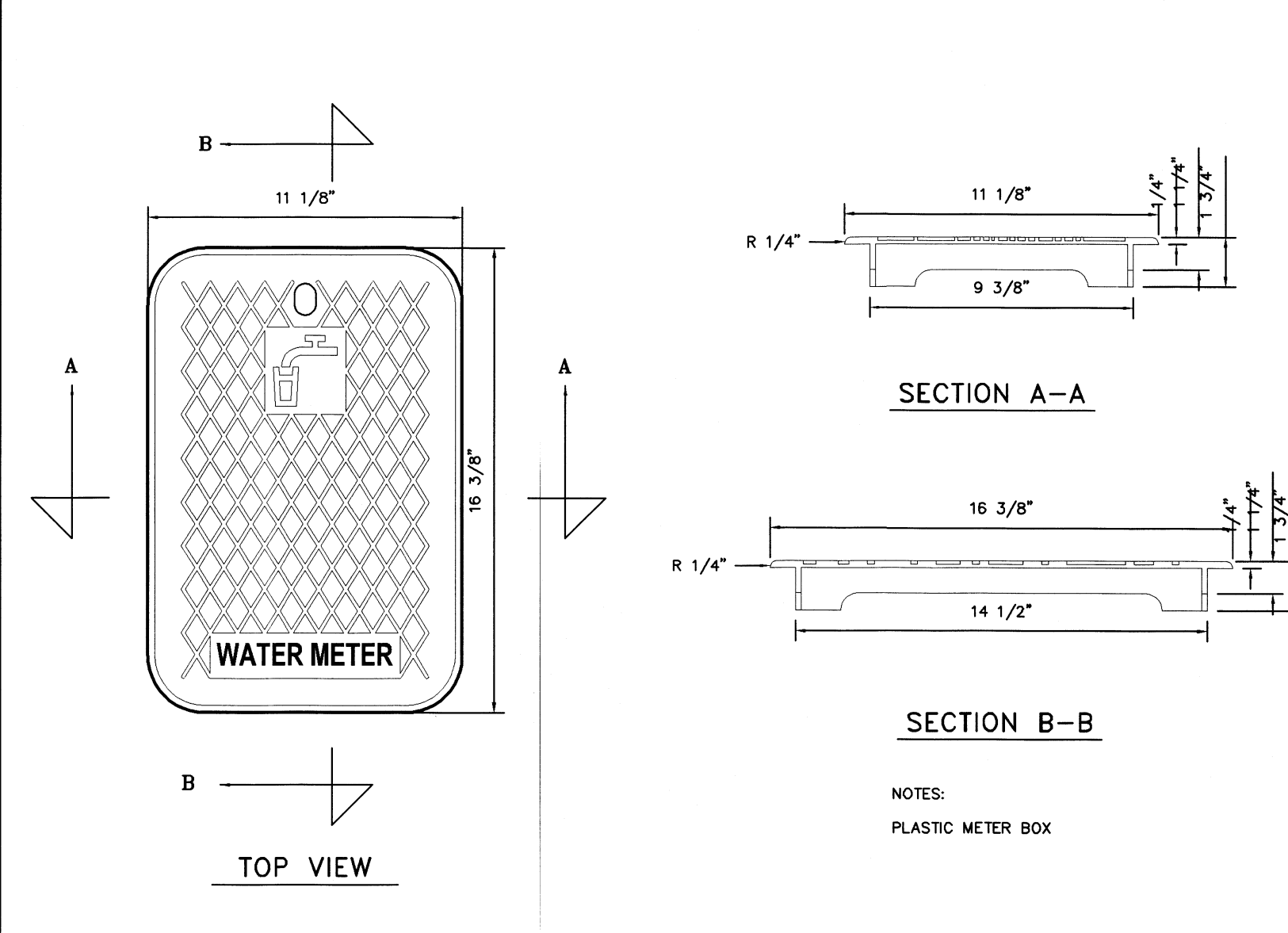


**W-9**

OMIT  
(FUTURE DETAIL USE)

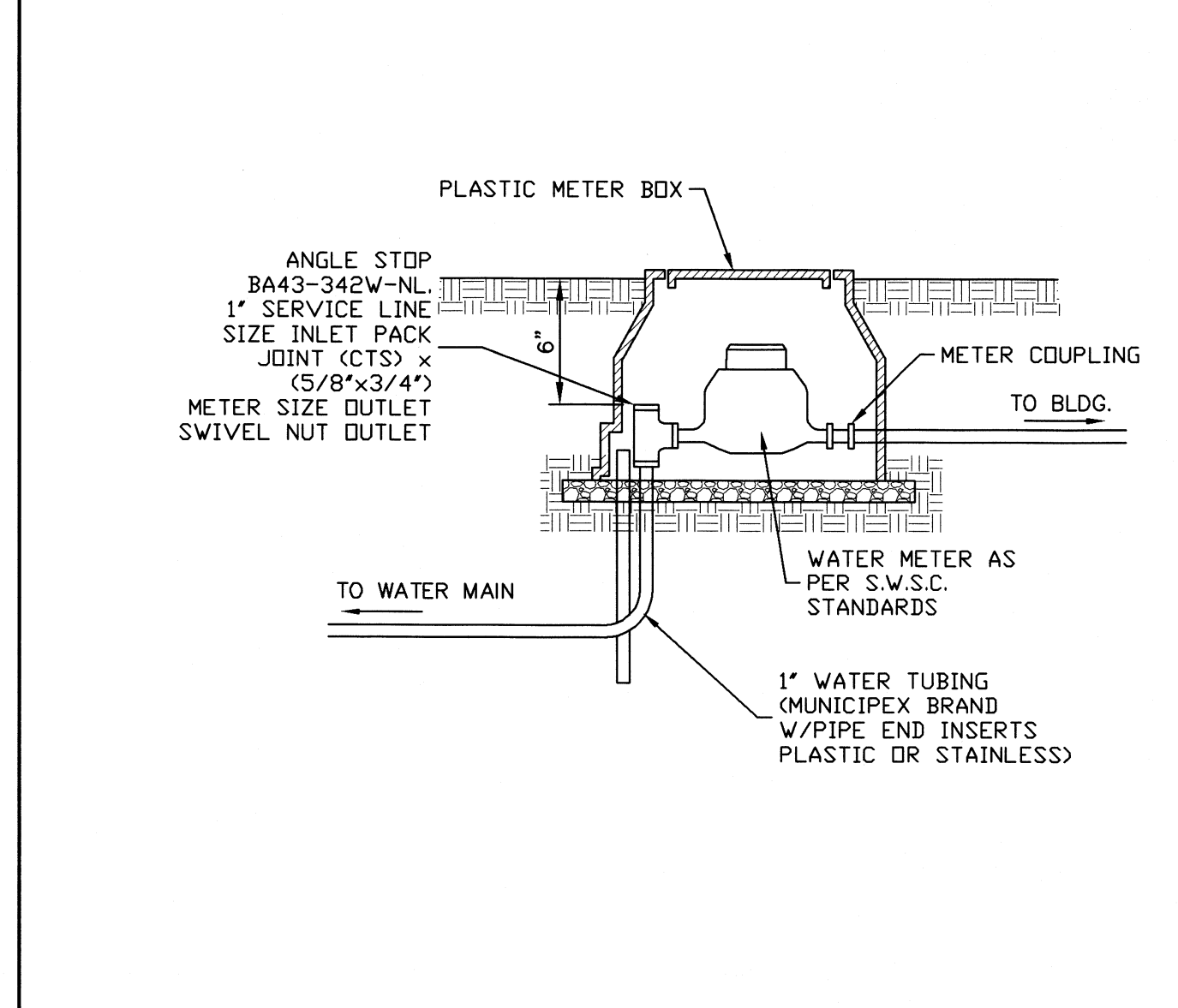
**W-10**

FLUSH VALVE  
DETAIL



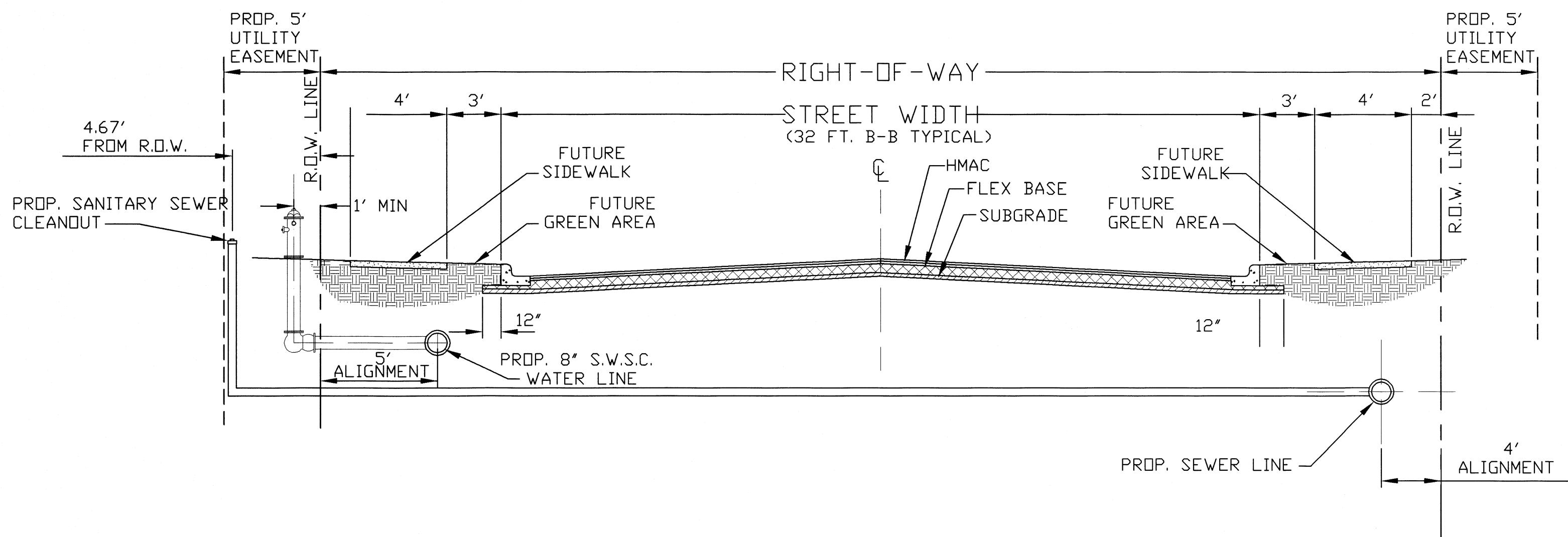
**W-11**

METER COVER  
DETAIL



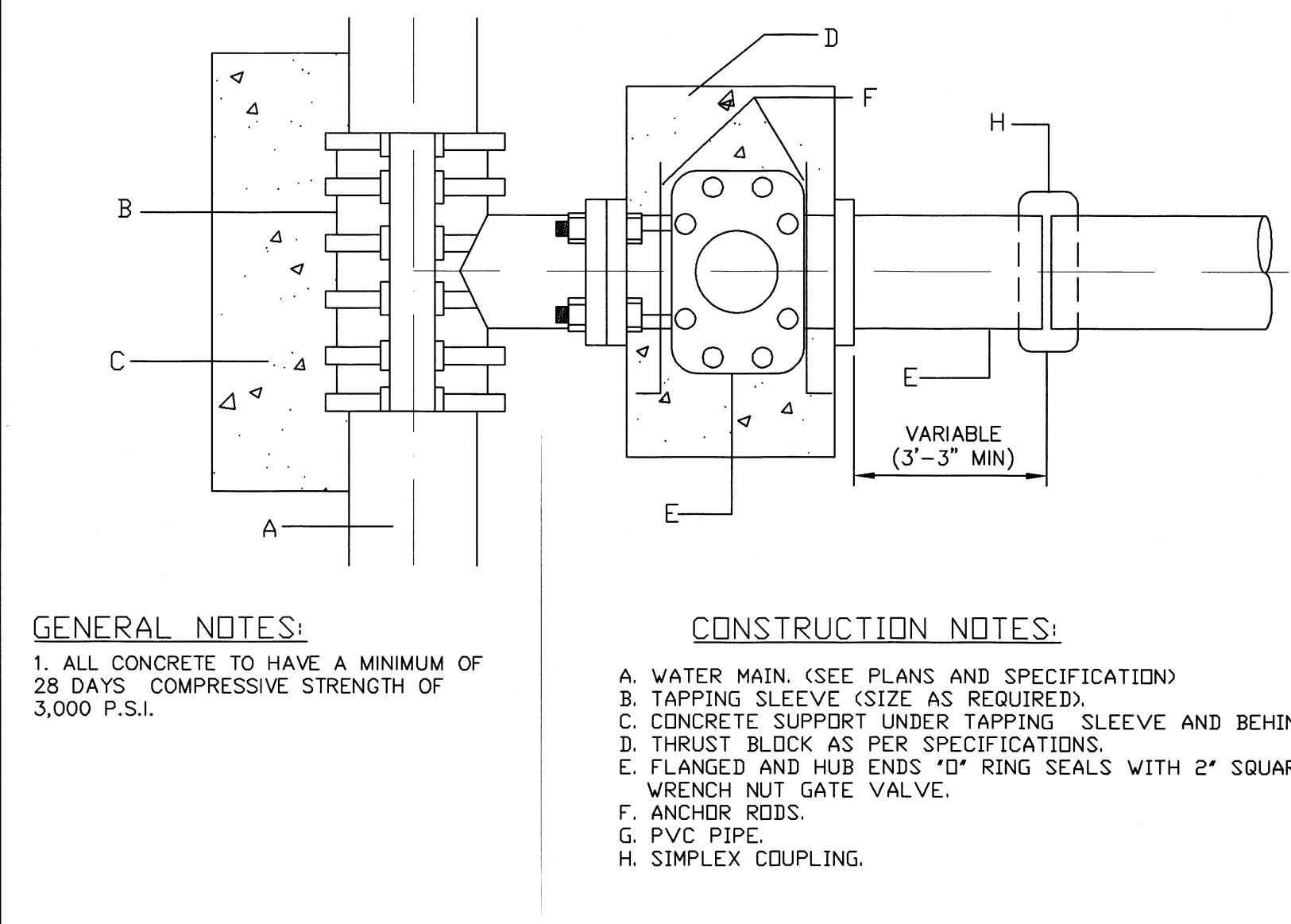
**W-12**

TYPICAL WATER METER  
INSTALLATION



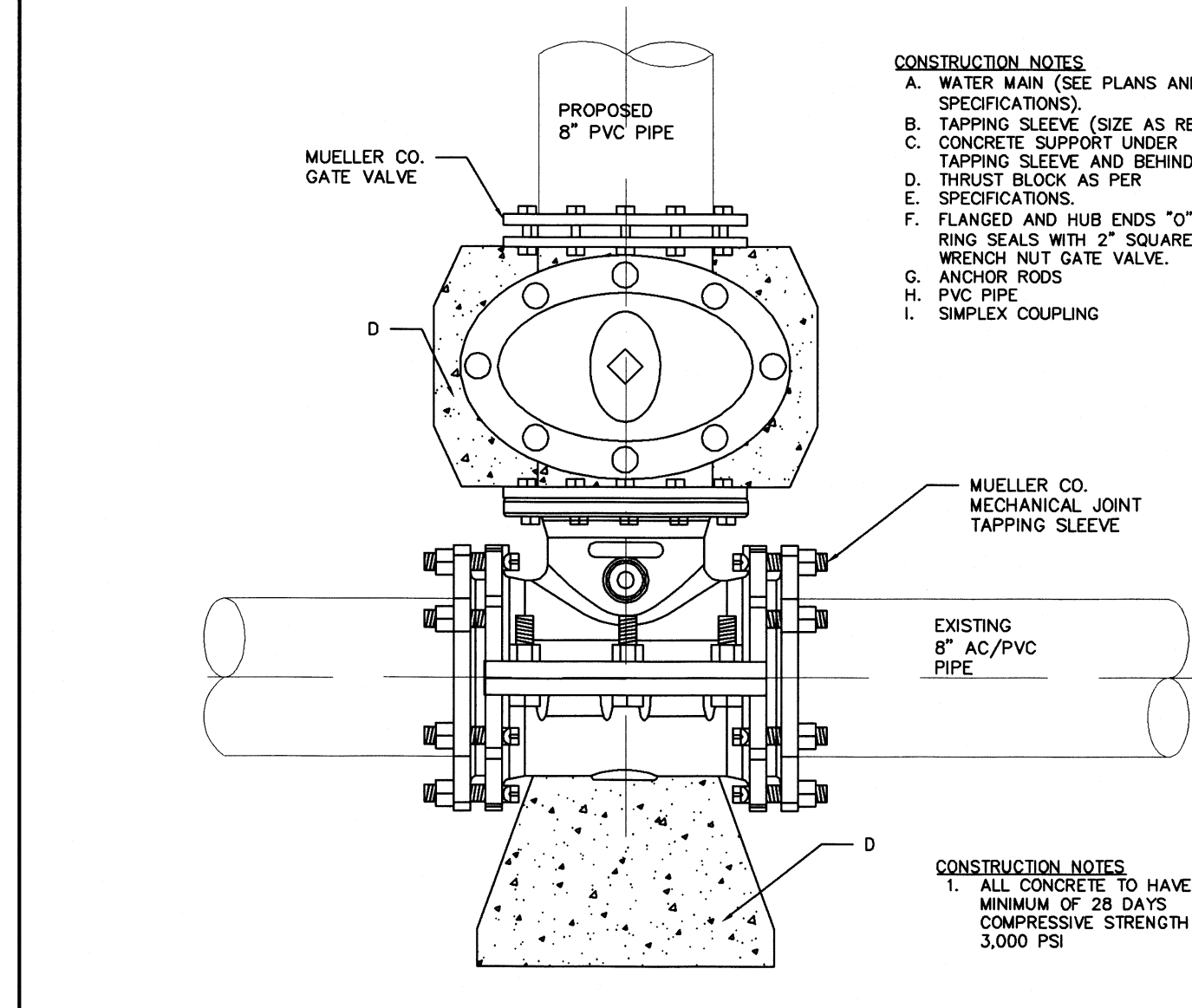
**W-13**

TYPICAL LOCAL STREET SECTION



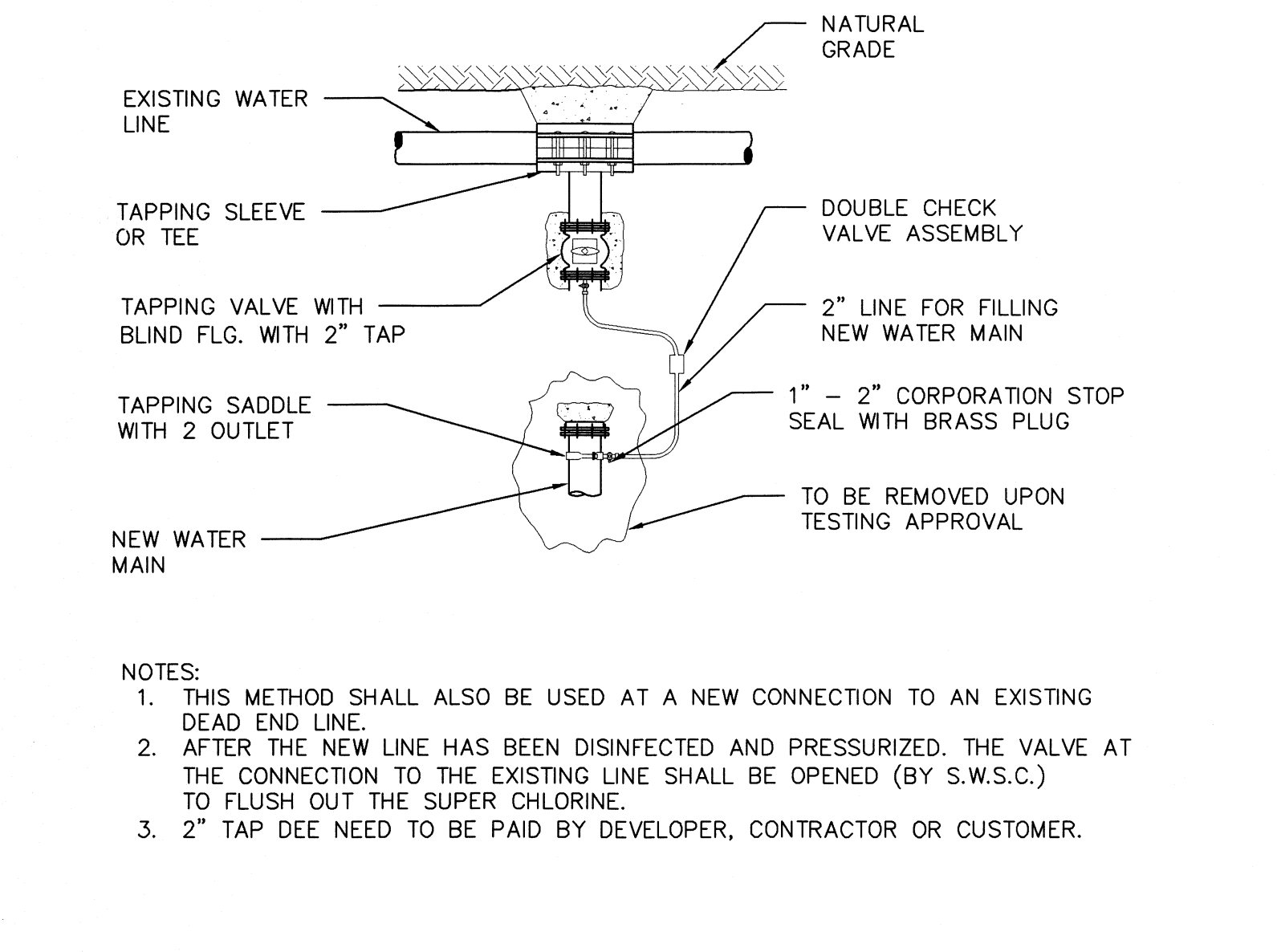
**W-14**

WATER TAPPING SLEEVE & VALVE  
INSTALLATION



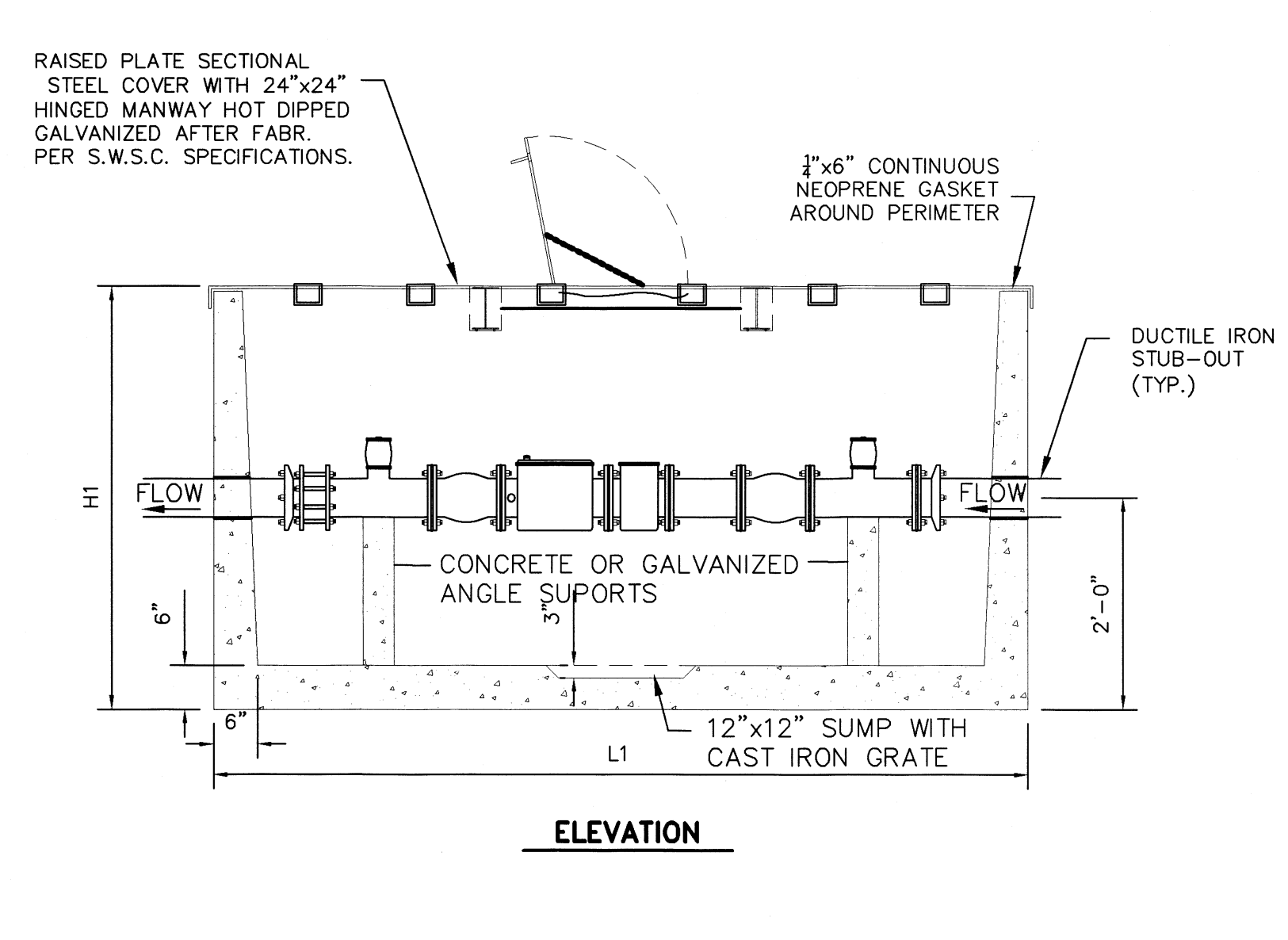
**W-15**

SAME SIZE WATER TAPPING SLEEVE  
AND VALVE INSTALLATION



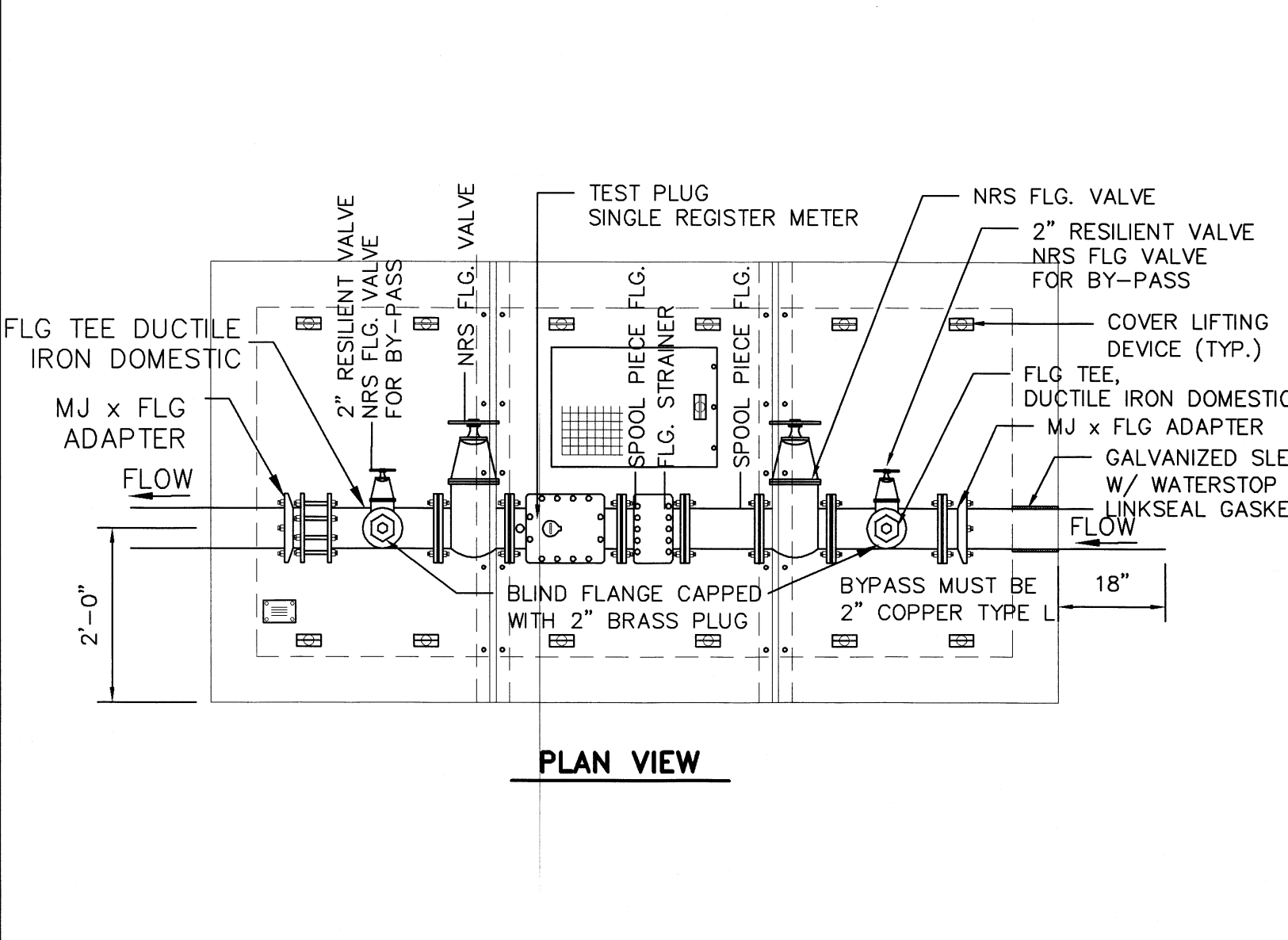
**W-16**

METHOD FOR FILLING NEW WATER LINES  
PRIOR TO CHLORINATION AND TESTING



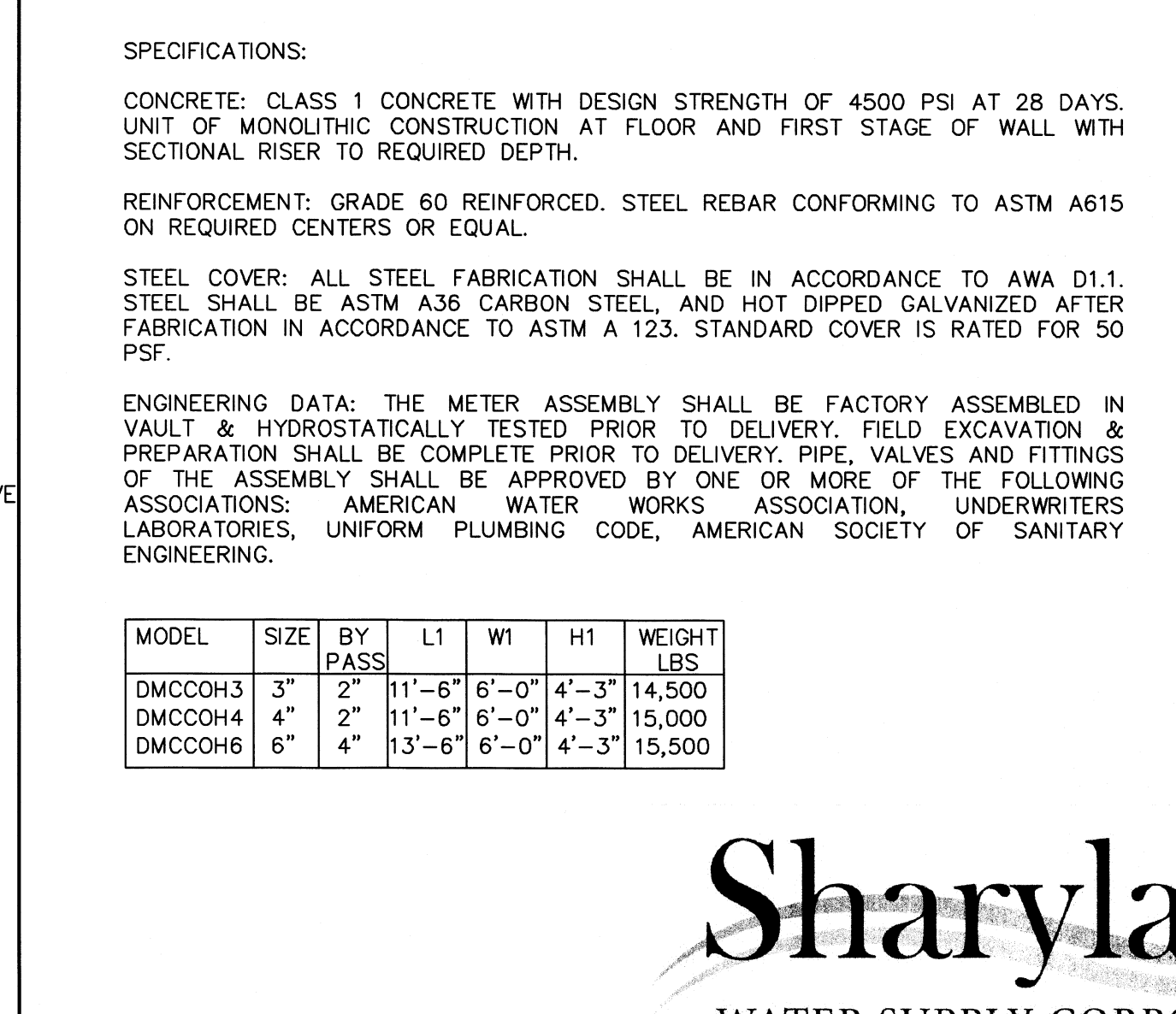
**W-17A**

METER VAULT  
DETAILS



**W-17B**

METER VAULT  
DETAILS



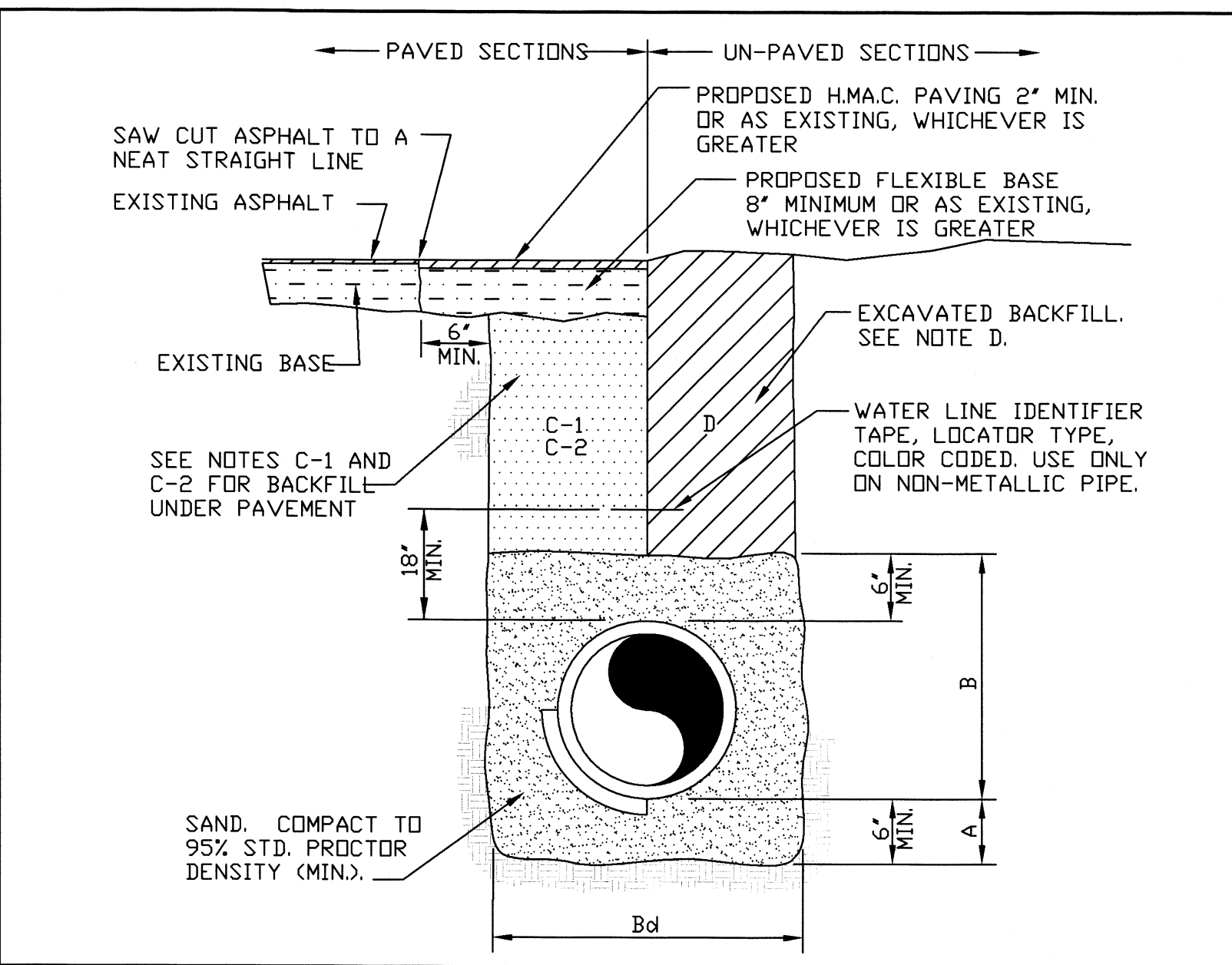
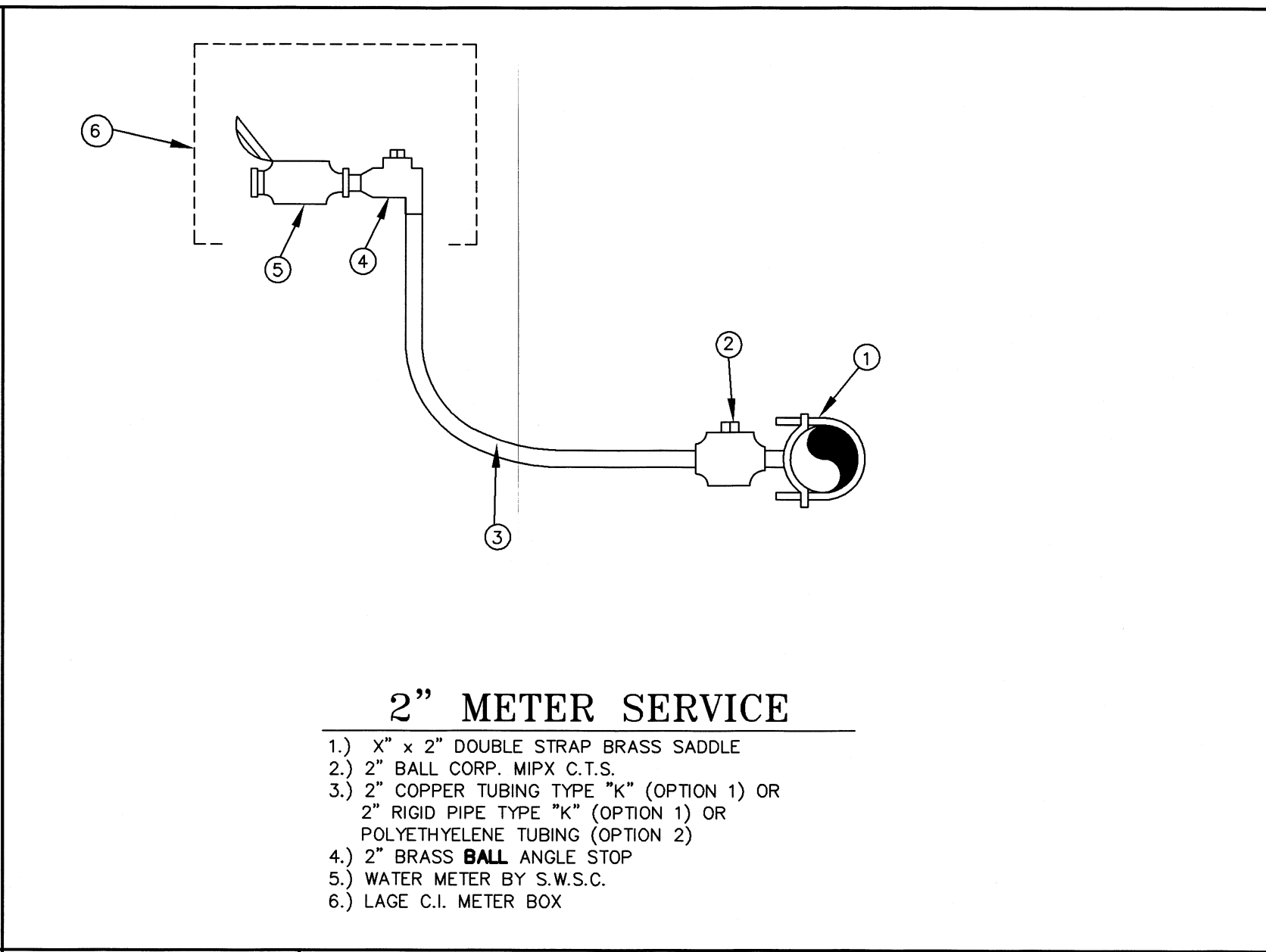
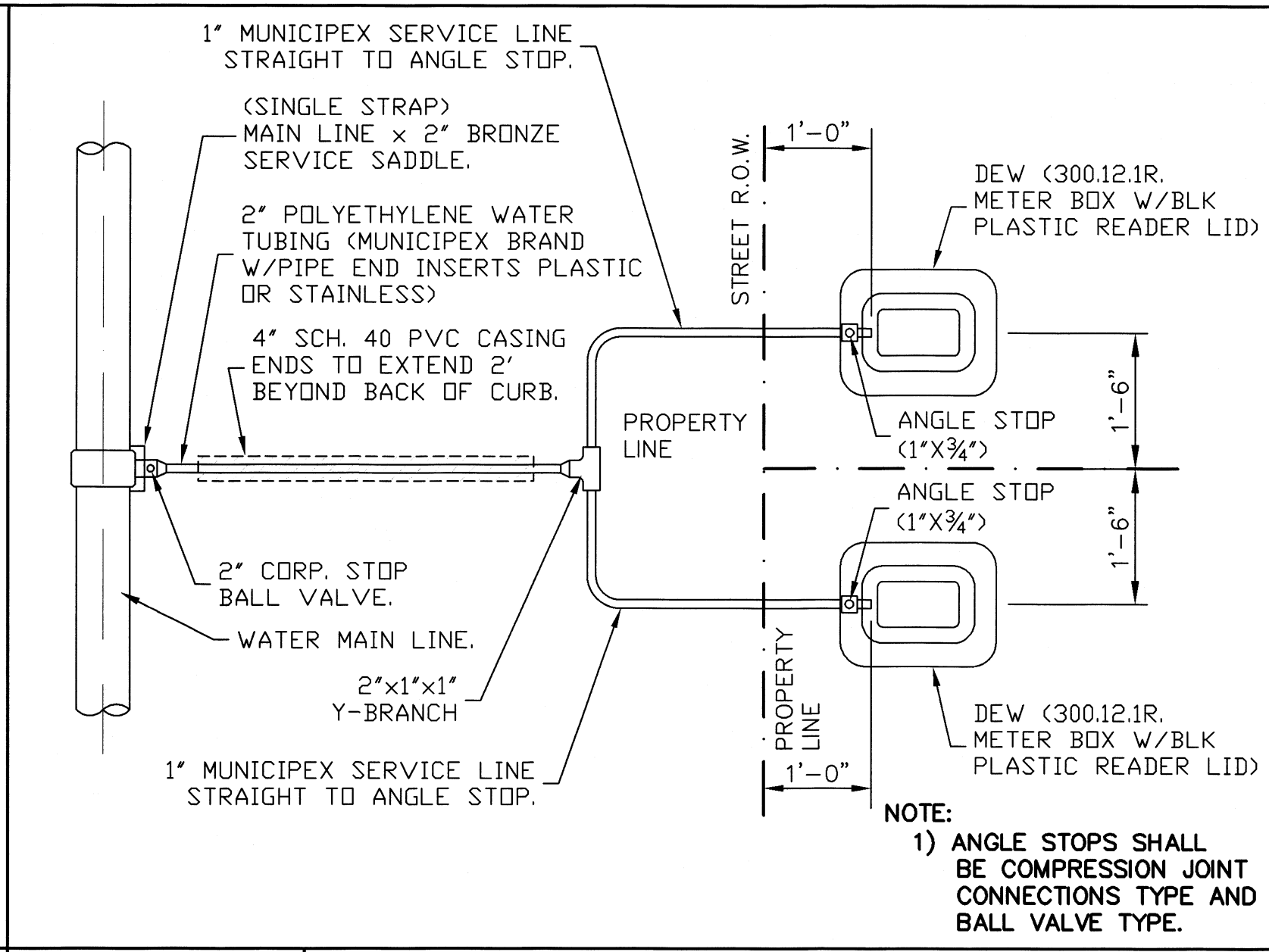
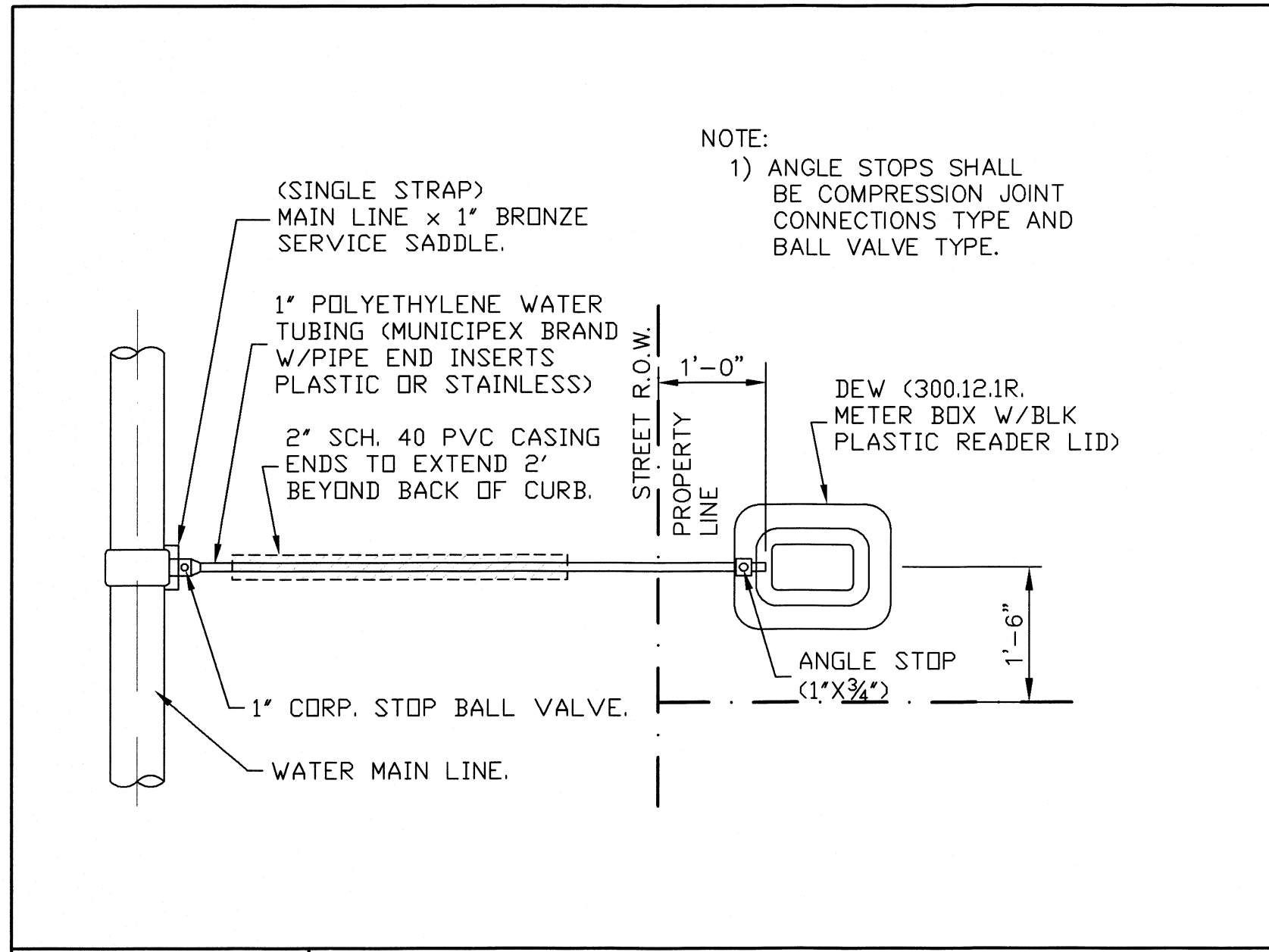
**W-17C**

METER VAULT  
GENERAL NOTES

**SPECIFICATIONS:**  
CONCRETE: CLASS 1 CONCRETE WITH DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER TO REQUIRED DEPTH.  
REINFORCEMENT: GRADE 60 REINFORCED. STEEL REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL.  
STEEL COVER: ALL STEEL FABRICATION SHALL BE IN ACCORDANCE TO AWA D1.1. STEEL SHALL BE ASTM A36 CARBON STEEL, AND HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE TO ASTM A 123. STANDARD COVER IS RATED FOR 50 PSF.  
ENGINEERING DATA: THE METER ASSEMBLY SHALL BE FACTORY ASSEMBLED IN VAULT & HYDROSTATICALLY TESTED PRIOR TO DELIVERY. FIELD EXCAVATION & PREPARATION SHALL BE COMPLETE PRIOR TO DELIVERY. PIPE, VALVES AND FITTINGS OF THE ASSEMBLY SHALL BE APPROVED BY ONE OR MORE OF THE FOLLOWING ASSOCIATIONS: AMERICAN WATER WORKS ASSOCIATION, UNDERWRITERS LABORATORIES, UNIFORM PLUMBING CODE, AMERICAN SOCIETY OF SANITARY ENGINEERING.

MODEL	SIZE	BY PASS	L1	W1	H1	WEIGHT LBS.
DMCCH3	3"	2"	11'-6"	6'-0"	4'-3"	14,500
DMCCH4	4"	2"	11'-6"	6'-0"	4'-3"	15,000
DMCCH6	6"	4"	13'-6"	6'-0"	4'-3"	15,500

**Sharyland**  
WATER SUPPLY CORPORATION



**W-1 RESIDENTIAL SINGLE WATER SERVICE CONNECTION**

NOTES:  
 A. SAND BEDDING PLACED, HAND LEVELED, AND COMPACTED BEFORE PIPE IS LAID, UP TO BOTTOM OF PIPE (MIN. THICKNESS = 5").  
 B. SAND BACKFILL PLACED AND COMPACTED AFTER PIPE IS LAID, FROM BOTTOM OF PIPE TO 6" ABOVE THE TOP OF PIPE. WORK IN UNDER PIPE HAUNCHES AND COMPACT BY HAND TO SPRING LINE. USE VIBRATORY-TYPE COMPACTORS FOR LIFTS ABOVE THE SPRING LINE. MAXIMUM 6" LIFTS.  
 C-1. (CITY STREETS, PARKING AREA, AND DRIVEWAYS) SELECT EXCAVATED BACKFILL MECHANICALLY COMPACTED TO 95% STANDARD PROCTOR DENSITY IN 6" MAX. LIFTS.  
 C-2. (STATE MAINTAINED ROADWAY) SAND/CEMENT STABILIZED BACKFILL WITH 7% PORTLAND CEMENT COMPACTED TO 95% STANDARD PROCTOR DENSITY.  
 D. EXCAVATED EARTH BACKFILL MECHANICALLY COMPACTED IN 12" MAX. LIFTS. MINIMUM STANDARD PROCTOR DENSITY: 90% OUTSIDE RIGHT OF WAY, 95% INSIDE RIGHT OF WAY.  
 EMBEDMENT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM D 2321. EMBEDMENT MATERIAL SHALL BE CLASS II OR III WITH < 50R PASSING A No. 200 SIEVE AND PLASTICITY INDEX < 7.  
 WHERE THIS STANDARD CONFLICTS WITH THE RECOMMENDATION OF ANY GEOTECHNICAL REPORT, OBTAIN WRITTEN CLARIFICATION FROM THE UTILITY ENGINEER PRIOR TO CONSTRUCTION.  
 FOUNDATION PREPARATION USING COBBLES, GRAVEL, CEMENT STABILIZATION, OR OTHER METHODS AS DIRECTED BY THE ENGINEER SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE.  
 BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, AND COMPACTED TO 95% STANDARD PROCTOR DENSITY IN 6" MAXIMUM LIFTS. STRUCTURE BACKFILL MATERIAL SHALL BE SAND.

GENERAL NOTES:  
 1.) THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING WITH ALL APPROPRIATE UTILITY COMPANIES FOR THE LOCATION OF ALL UTILITIES WITHIN CONSTRUCTION AREA.  
 2.) ALL EXIST. UTILITIES ARE AT APPROXIMATE LOCATIONS.  
 3.) THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE BASED ON OBSERVATION OF ABOVEGROUND STRUCTURES, LINES SPOTTED BY THE OWNER, AND UTILITY SPOTTING. ACTUAL LOCATION OF THESE UTILITIES MAY VARY, AND ADDITIONAL BURIED UTILITIES MAY BE ENCOUNTERED UPON EXCAVATION.  
 4.) BEFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL CALL FOR HIS UTILITY SPOTTING BY THE APPROPRIATE AGENCY AND VERIFY THE LOCATION OF THESE UTILITIES TO HIS SATISFACTION.  
 5.) ANY DAMAGE CAUSED TO EXISTING STRUCTURES AND/OR UTILITIES BY THE CONTRACTOR SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CORRECT AT HIS EXPENSE.  
 6.) ANY DAMAGE TO PROPERTY, OUTSIDE THE CONSTRUCTION ZONE, CAUSED BY THE CONTRACTOR, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CORRECT AT HIS EXPENSE.

**W-2 RESIDENTIAL DUAL WATER SERVICE CONNECTION**

THRUST BLOCK SIZE			
HORIZONTAL BENDS		AT VERTICAL BENDS-LBS.	
DIAMETER OF PIPE IN INCHES	SURFACE AREA SQ. FT.	THICKNESS IN INCHES	WEIGHT
22-1/2" BEND			
6 OR LESS	2	8	1,700
8	3	12	3,000
10	3.5	12	4,500
12	4	14	6,600
14	5	18	9,000
16	6	18	11,800
45° BEND			
6 OR LESS	4	12	3,200
8	5	14	5,800
10	6	18	9,000
12	7	18	13,000
14	8	24	17,000
16	11.5	24	23,200
90° BEND			
6 OR LESS	6	12	6,000
8	8	15	10,700
10	10	18	16,700
12	12	18	24,000
14	18	24	32,600
16	21	24	42,700
TEES & DEAD ENDS			
6 OR LESS	3	12	---
8	4	15	---
10	6	18	---
12	8.5	18	---
14	11.5	24	---
16	15	24	---

NOTE: ALL VALUES SHOWN ARE MIN. FOR A HYDROSTATIC PRESSURE OF 150 P.S.I. AND A SOL RESISTANCE OF 2,000 LBS. PER SQ. FT. WITH PIPELINE HAVING A MIN. OF 3 FT. OF COVER WITH CURB & GUTTER AND A 5 FT. MIN. WITHOUT CURB & GUTTER.

THRU BLOCKS DETAILS  
 NOTE: SEE THRU BLOCK SIZE CHART FOR PROPER THICKNESS AND SURFACE AREAS

**W-3 2" METER SERVICE**

1.) 2" x 2" DOUBLE STRAP BRASS SADDLE  
 2.) 2" BALL CORP. MIPX C.T.S.  
 3.) 2" COPPER TUBING TYPE "K" (OPTION 1) OR 2" RIGID PIPE TYPE "K" (OPTION 2) OR POLYETHYLENE TUBING (OPTION 2)  
 4.) 2" BRASS BALL ANGLE STOP  
 5.) WATER METER BY S.W.S.C.  
 6.) LARGE C.I. METER BOX

**WATERLINE CROSSING OVER SEWER LINE**

**WATERLINE CROSSING UNDER SEWER LINE**

PLAN  
 PROFILE

**W-4A TYPICAL WATER LINE AND SEWER FORCEMAIN BEDDING DETAIL**

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY PAGE 3 CHAPTER 217- DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEMS

(1) COLLECTION SYSTEM PIPES MUST BE INSTALLED IN TRENCHES SEPARATE FROM WATER SUPPLY TRENCHES.  
 (2) WHEREVER POSSIBLE, A COLLECTION SYSTEM PIPE MUST BE LOCATED BELOW A WATER SUPPLY PIPE. IF A COLLECTION SYSTEM PIPE CANNOT BE LOCATED BELOW A WATER SUPPLY PIPE, THE OWNER MUST JUSTIFY IN THE ENGINEERING REPORT WHY IT IS NOT POSSIBLE TO LOCATE THE COLLECTION SYSTEM PIPE BELOW THE PUBLIC WATER SUPPLY PIPE.  
 (3) WHEREVER POSSIBLE, COLLECTION SYSTEM PIPES AND MANHOLES MUST BE LOCATED AT LEAST NINE FEET FROM ALL WATER SUPPLY PIPES. IF A COLLECTION SYSTEM PIPE OR MANHOLE CANNOT BE LOCATED AT LEAST NINE FEET AWAY FROM A WATER SUPPLY PIPE, THE OWNER MUST JUSTIFY IN THE ENGINEERING REPORT WHY IT IS NOT POSSIBLE TO PROVIDE AT LEAST NINE FEET OF SEPARATION. TABLE C.L. IN FIGURE 30 TAC §217.53(D)(3) PROVIDES A REFERENCE TO PARAGRAPHS IN THIS SUBSECTION THAT APPLY IF A COLLECTION SYSTEM PIPE OR MANHOLE CANNOT BE LOCATED AT LEAST NINE FEET AWAY FROM A WATER SUPPLY PIPE TO THE WATER SUPPLY PIPE. EACH PORTION OF THE COLLECTION SYSTEM PIPE WITHIN NINE FEET OF THE WATER SUPPLY PIPE MUST BE ENCASED. THE CASING PIPE MUST BE CONSTRUCTED OF AT LEAST 150 PER SQUARE INCH (PSI) PRESSURE CLASS PIPE THAT:  
 (A) ENCASES THE ENTIRE LENGTH OF COLLECTION SYSTEM PIPE THAT IS WITHIN NINE FEET OF THE WATER SUPPLY PIPE;  
 (B) IS SEALED AT BOTH ENDS WITH CEMENT GROUT OR A MANUFACTURED SEAL;  
 (C) IS AT LEAST TWO NOMINAL SIZES LARGER THAN THE WASTEWATER COLLECTION PIPE; AND  
 (D) IS SUPPORTED BY SPACERS BETWEEN THE COLLECTION SYSTEM PIPE AND THE ENCASED PIPE AT A MAXIMUM OF FIVE-FOOT INTERVALS.  
 (5) IF A COLLECTION SYSTEM PIPE CROSSES ABOVE A WATER SUPPLY PIPE, EACH PORTION OF THE COLLECTION SYSTEM PIPE WITHIN NINE FEET OF THE WATER SUPPLY PIPE MUST EITHER BE ENCASED IN A CASING PIPE ACCORDING TO SUBPARAGRAPH (A) OF THIS PARAGRAPH, OR MUST BE CONSTRUCTED USING AT LEAST 150 PSI PRESSURE CLASS PIPE ACCORDING TO SUBPARAGRAPH (B) OF THIS PARAGRAPH. (A) A CASING PIPE FOR A COLLECTION SYSTEM PIPE THAT CROSSES ABOVE A WATER SUPPLY PIPE MUST BE CONSTRUCTED OF AT LEAST 150 PSI PRESSURE CLASS PIPE THAT IS: (I) SEALED AT BOTH ENDS WITH CEMENT GROUT OR A MANUFACTURED SEAL; TEXAS COMMISSION ON ENVIRONMENTAL QUALITY PAGE 5 CHAPTER 217-DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEMS (II) AT LEAST TWO NOMINAL SIZES LARGER THAN THE WASTEWATER COLLECTION PIPE; AND (III) SUPPORTED BY SPACERS BETWEEN THE COLLECTION SYSTEM PIPE AND THE ENCASED PIPE AT A MAXIMUM OF FIVE-FOOT INTERVALS.  
 (6) A COLLECTION SYSTEM PIPE THAT CROSSES ABOVE A WATER SUPPLY PIPE MUST BE CONSTRUCTED OF AT LEAST 150 PSI PRESSURE CLASS, CORROSION-RESISTANT, NON-BRITTLE PIPE AND MUST USE MANUFACTURER-APPROVED ADAPTERS, GASKETED JOINTS, COMPRESSION JOINTS, AND OTHER NON-BONDED JOINTS MUST BE DESIGNED TO SEAL AT ATMOSPHERIC PRESSURE.  
 (6) IF A COLLECTION SYSTEM PIPE IS LOCATED BELOW A WATER SUPPLY PIPE AND RUNS PARALLEL TO THE WATER SUPPLY PIPE, EACH PORTION OF THE COLLECTION SYSTEM PIPE WITHIN NINE FEET OF THE WATER SUPPLY PIPE MUST EITHER BE CONSTRUCTED USING AT LEAST 150 PSI PRESSURE CLASS PIPE ACCORDING TO SUBPARAGRAPH (A) OF THIS PARAGRAPH, OR MUST BE ENCASED IN A CASING PIPE ACCORDING TO SUBPARAGRAPH (B) OF THIS PARAGRAPH.

**W-4B STANDARD WATER PIPE BEDDING DETAILS**

(A) A COLLECTION SYSTEM PIPE THAT RUNS PARALLEL TO AND BELOW A WATER SUPPLY PIPE MUST BE CONSTRUCTED OF AT LEAST 150 PSI PRESSURE CLASS, CORROSION-RESISTANT, NON-BRITTLE PIPE THAT:  
 (I) IS LOCATED AT LEAST TWO HORIZONTAL FEET BELOW THE WATER SUPPLY PIPE;  
 (II) IS LOCATED AT LEAST FOUR HORIZONTAL FEET AWAY FROM THE WATER SUPPLY PIPE; AND  
 (III) INCLUDES JOINTS THAT ARE DESIGNED TO SEAL AT ATMOSPHERIC PRESSURE.  
 (B) A CASING PIPE FOR A COLLECTION SYSTEM PIPE THAT RUNS PARALLEL BELOW A WATER SUPPLY PIPE MUST BE CONSTRUCTED OF AT LEAST 150 PSI PRESSURE CLASS PIPE THAT:  
 (I) IS SEALED AT BOTH ENDS WITH CEMENT GROUT OR A MANUFACTURED SEAL;  
 (II) IS AT LEAST TWO NOMINAL SIZES LARGER THAN THE WASTEWATER COLLECTION PIPE; AND  
 (III) IS SUPPORTED BY SPACERS BETWEEN THE COLLECTION SYSTEM PIPE AND THE ENCASED PIPE AT A MAXIMUM OF FIVE-FOOT INTERVALS.

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(7) IF A COLLECTION SYSTEM PIPE CROSSES BELOW A WATER SUPPLY PIPE, EACH PORTION OF THE COLLECTION SYSTEM PIPE WITHIN NINE FEET OF THE WATER SUPPLY PIPE MUST EITHER BE ENCASED IN A CASING PIPE ACCORDING TO SUBPARAGRAPH (A) OF THIS PARAGRAPH, OR MUST BE CONSTRUCTED USING AT LEAST 150 PSI PRESSURE CLASS PIPE ACCORDING TO SUBPARAGRAPH (B) OF THIS PARAGRAPH. (A) A CASING PIPE FOR A COLLECTION SYSTEM PIPE THAT CROSSES BELOW A WATER SUPPLY PIPE MUST BE CONSTRUCTED OF AT LEAST 150 PSI PRESSURE CLASS, CORROSION-RESISTANT, NON-BRITTLE PIPE THAT:  
 (I) IS SEALED AT BOTH ENDS WITH CEMENT GROUT OR A MANUFACTURED SEAL;  
 (II) AT LEAST TWO NOMINAL SIZES LARGER THAN THE WASTEWATER COLLECTION PIPE; AND  
 (III) SUPPORTED BY SPACERS BETWEEN THE COLLECTION SYSTEM PIPE AND THE ENCASED PIPE AT A MAXIMUM OF FIVE-FOOT INTERVALS.  
 (B) A COLLECTION SYSTEM PIPE THAT CROSSES BELOW A WATER SUPPLY PIPE AND IS CONSTRUCTED OF ANY MATERIAL OTHER THAN AT LEAST 150 PSI PRESSURE CLASS, CORROSION-RESISTANT, NON-BRITTLE PIPE MUST:  
 (I) HAVE AT LEAST TWO FEET OF SEPARATION BETWEEN THE OUTSIDES OF THE PIPES; AND  
 (II) BE CENTERED ON THE CROSSING; (III) BE AT LEAST 18 FEET LONG; AND  
 (IV) TERMINATE AT JOINTS THAT ARE DESIGNED TO SEAL AT ATMOSPHERIC PRESSURE.  
 (C) A COLLECTION SYSTEM PIPE THAT CROSSES BELOW A WATER SUPPLY PIPE AND IS CONSTRUCTED OF ANY MATERIAL OTHER THAN AT LEAST 150 PSI PRESSURE CLASS, CORROSION-RESISTANT, NON-BRITTLE PIPE MUST:  
 (I) HAVE AT LEAST TWO FEET OF SEPARATION BETWEEN THE OUTSIDES OF THE PIPES; AND  
 (II) BE ENCASED IN CEMENT-STABILIZED SAND BACKFILL THAT MEETS THE REQUIREMENTS OF SUBPARAGRAPH (D) OF THIS PARAGRAPH.  
 (C) A CASING PIPE FOR A COLLECTION SYSTEM PIPE THAT CROSSES BELOW A WATER SUPPLY PIPE MUST BE CONSTRUCTED OF AT LEAST 150 PSI PRESSURE CLASS PIPE THAT IS:  
 (I) SEALED AT BOTH ENDS WITH CEMENT GROUT OR A MANUFACTURED SEAL;  
 (II) AT LEAST TWO NOMINAL SIZES LARGER THAN THE WASTEWATER COLLECTION PIPE; AND  
 (III) SUPPORTED BY SPACERS BETWEEN THE COLLECTION SYSTEM PIPE AND THE ENCASED PIPE AT A MAXIMUM OF FIVE-FOOT INTERVALS.

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(D) CEMENT-STABILIZED SAND FOR ENCASED COLLECTION SYSTEM PIPES MUST:  
 (I) INCLUDE AT LEAST 160 POUNDS OF CEMENT FOR EVERY CUBIC YARD OF SAND;  
 (II) BE INSTALLED BEGINNING ONE-QUARTER PIPE DIAMETER BELOW THE CENTERLINE OF THE COLLECTION SYSTEM PIPE;  
 (III) BE INSTALLED ENDING ONE FULL PIPE DIAMETER ABOVE THE TOP OF THE COLLECTION SYSTEM PIPE, OR 12 INCHES ABOVE THE TOP OF THE COLLECTION SYSTEM PIPE, WHICHEVER IS GREATER.

**W-5 THRUST BLOCKS DETAILS**

NOTE: ALL VALUES SHOWN ARE MIN. FOR A HYDROSTATIC PRESSURE OF 150 P.S.I. AND A SOL RESISTANCE OF 2,000 LBS. PER SQ. FT. WITH PIPELINE HAVING A MIN. OF 3 FT. OF COVER WITH CURB & GUTTER AND A 5 FT. MIN. WITHOUT CURB & GUTTER.

THRU BLOCKS DETAILS  
 NOTE: SEE THRU BLOCK SIZE CHART FOR PROPER THICKNESS AND SURFACE AREAS

STANDARD FIRE HYDRANT INSTALLATION

NOTE:  
 1.) OIL SHALL BE PLACED IN HYDRANT AT THE TIME OF INSTALLATION.  
 2.) PUMPER NOZZLE SHALL FACE ROADWAY. (5 1/2" N.S.T.)  
 3.) IN CERTAIN INSTANCES, WHERE DISTANCES PERMITS, A PARALLEL TEE OR UNION-TITE 90° ELBOW W/RESTRAINING LUGS MAY BE USED IN LIEU OF A STANDARD TEE. FINAL APPROVAL BY S.W.S.C. REQUIRED.  
 4.) IF AMERICAN DARLING IS USED MODEL B-84-B w/EPOXY COAT VALVE PLATE AND INTERIOR SHOE.  
 5.) TAPPING SLEEVES TO HAVE STAINLESS STEEL BOLTS AND NUTS.  
 6.) ALL VALVES, FITTINGS & HYDRANTS & ACCESSORIES TO BE GREASED WRAPPED IN PLASTIC.  
 7.) ALL VALVES, FITTINGS AND ACCESSORIES, VALVE BOXES, METER BOXES AND COVERS MUST BE APPROVED BY S.W.S.C.

FIRE HYDRANT INSTALLATION  
 CONSIST OF FIRE HYDRANT, VALVE AND VALVE BOX  
 FIRE HYDRANT UNIT SHALL INCLUDE:  
 1.) FIRE HYDRANT w/ (4 1/2" PUMPER NOZZLE)  
 2.) VALVE BOX (DOMESTIC)  
 3.) 3 CU. FT. GRAVEL  
 4.) 3 CU. FT. CONCRETE 1" BELOW HYDRANT WEEP HOLES)  
 5.) 1" OR BETTER PVC SPOOLS  
 6.) 6" RESILIENT SEAT GATE VALVE (FLANGED X M.I.)  
 7.) X" 6" CAST IRON TEE (FLANGED X M.I.) X" WATER MAIN DIA.

1) MECHANICAL JOINT  
 2) FLANGE

**W-6A WATER / SANITARY SEWER CROSSING DETAILS**

**W-6B WATER / SANITARY SEWER CROSSING DETAILS**

INSTALL 6" CONC. COLLAR WHEN VALVE FALL INSIDE PAVEMENT

PAVEMENT OR FLUSH W/ FINISH GRADE

EARTH UNDER FLANGE TO BE FIRM & WELL TAMPED TO INSURE AGAINST VALVE BOX SETTLING

VALVE BOX COVER SHALL BE FOR A 4" ALAMO IRON WORKS B13-05-2, FOR A 6" - 12" ALAMO IRON WORKS B13-10-2 OR APPROVED EQUAL

GATE VALVE SHALL BE RESILIENT SEAT GATE VALVE WITH RING-TIE ENDS OR APPROVED EQUAL

NOTE: MUELLER (A-2360 SERIES) OR AMERICAN FLOW CONTROL (AFC-2500) ONLY NOTE: ALL FITTINGS TO BE GREASED AND WRAPPED IN PLASTIC.

CONCRETE BLOCK POURED IN PLACE

**W-6C WATER / SANITARY SEWER CROSSING DETAILS**

**W-7 STANDARD WATER PIPE BEDDING DETAILS**

**W-8 TYPICAL VALVE AND VALVE BOX INSTALLATION ON MAIN LINE**

**W-8 TYPICAL VALVE AND VALVE BOX INSTALLATION ON MAIN LINE**