



**Planning
Department**

Anthony Uresti
Director of Planning

Main Office

2818 S. Business Hwy 281
Edinburg, Texas 78539
Phone (956) 318-2840

Precinct No. 1 Substation

1900 Joe Stephens Ave. Ste. A
Weslaco, TX 78596
Phone (956) 968-4734

Precinct No. 3 Substation

2401 N. Moorefield Road
Mission, Texas 78572
Phone (956) 205-7045

PIPELINE AND UTILITY PERMIT APPLICATION PACKET

THE STATE OF TEXAS

COUNTY OF HIDALGO

PRECINCT _____

**APPLICATION AND AGREEMENT FOR PIPELINE OR
UTILITY PERMIT**

Date: 09/13/24

The 5125 Company

_____ (hereinafter referred to as
"Applicant") does hereby make application to the Hidalgo County
through the Hidalgo County Planning Department (hereinafter referred
to as "HCPD") to construct, maintain and repair pipelines or utilities
across the easements, right-of-ways, property or property interest as
described below.

Information required:

1. Name, Address and Phone number of Applicant:

The 5125 Company

3914 Rio Grande Care Road Edinburg, TX 78541 (956) 583-5125

2. Name, Address and Phone number of company or agency owning
Pipeline or Utility (please indicate if same as Applicant):

Isidrio Gutierrez, S.W.S.C.

321 S. Shary Blvd Mission, TX 78573 (956) 585-6081

3. Name, Address and Phone number of operator of Pipeline or
Utility (please indicate if same as Applicant):

Sharyland Watter Supply Corporation

321 S. Shary Blvd Mission, TX 78573 (956) 585-6081

4. Name, Address and Phone number of contractor to install Pipeline
or Utility:

The 5125 Company

3914 Rio Grande Care Road Edinburg, TX 78541 (956) 583-5125



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5. Is this a common carrier pipeline or utility? If yes, please submit the Applicant's Texas Railroad Commission Form "T-4" or similar form designating the facility:

No. _____

6. Does Applicant have the Power of Eminent Domain?

No. _____

7. Will the product be carried for hire or by the owner of the goods?

Yes. _____

8. Name and Legal description of property owner requesting utility services if applicable:

Being a 3.00 acre tract of land out Lot 36-2 , W.A.S, Vol. 1, Page 56, H.C.M.R.T.

9. Type of utility work within county road right-of-way:

Bore Crossing Line Extension Along R.O.W. Other _____

10. Where is the origin of the line?

The proposed waterline will be located in the East side of Los Ebanos Rd, starting by connecting to the existing waterline on the west side of Los Ebanos Road.

11. Where is the destination of the line?

The proposed waterline will cross Los Ebanos and connect to the existing waterline on 4 Mile Road.



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16624999.9923 1037941.9869

12. Utility Crossing Coordinate X: 16625386.7818 Y: 1038000.0363
(NAD 83 Texas South FIPS 4205 feet)

13. Number and size of lines:
8" PVC Waterline

14. Pressure (each line):
+ - 40 psi

15. Content (each line):
Water

16. Estimated date of installation of Pipeline or Utility:
Upon approval of County Commissioners Court



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If requested permit is granted by HCPD, Applicant, in consideration thereof, agrees and binds itself as follows:

1. All pipelines or utilities herein will be horizontally placed within the right-of-way as determined by HCPD and at a minimum depth of five (5) feet below natural ground. Depth, horizontal, and vertical location shall be confirmed by HCPD Inspectors.
2. Location map, profile, and plans concerning the proposed pipeline or utility crossing will be furnished with this application.
3. HCPD will be notified in writing ten days prior to the beginning date of construction under this permit.
4. Applicant will bear the entire expense of all future relocations of any pipelines or utilities should such relocation, at the sole discretion of the Hidalgo County Commissioners Court, be necessary for improvements, alteration, or maintenance of Hidalgo County's easement or property of interest.
5. Applicant will notify the HCPD at least 48 hours prior to covering work and or completion of its work and removal of its equipment from the job site to permit HCPD to make an inspection.
6. Upon notification by the HCPD, the Applicant will promptly repair or rectify any deficiency or condition caused by the Applicant's operations or installations under this permit. Applicant will leave easement in as near the same condition or better, in the HCPD's sole judgment, as it existed prior to the commencement of the operations under this permit.
7. Hidalgo County shall not be liable or responsible for, and shall be saved and held harmless by Applicant, and further shall be indemnified by Applicant, from and against any and all suits, actions, losses, damages, claims, or liability of any character, type, or description, including all expenses of litigation, court costs, attorney's fees, and engineering fees for injury or death to any person, or injury to any property, received or sustained by any person or persons or property, arising out of, or occasioned by, directly or indirectly, the performance of Applicant under this agreement, including claims and damages arising in part from the negligence of Hidalgo County.



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It is the expressed intent of the parties to this agreement that the indemnity provided for in this section is extended by Applicant to indemnify and protect Hidalgo County from the consequences of Hidalgo County's own negligence, whether that negligence is the sole or contributory cause of the resultant injury death, or damage.

Applicant further agrees to defend, at its own expense, with attorneys acceptable to Hidalgo County and on behalf of Hidalgo County, and in the name of Hidalgo County, any claim or litigation brought against Hidalgo County in connection with any such injury, death or damage.

Before construction is begun on such pipeline or utility crossings, Applicant will furnish to the HCPD a certificate of insurance (or other security approved by the HCPD) payable to Hidalgo County and protecting Hidalgo County (as an additional named insured) against any claims for personal injuries or damages to property resulting from the operations of Applicant, its agents, servants, employees, and contractors under this permit. Insurance is to be supplied in accordance with the attached Schedule A.

8. Hidalgo County makes no warranties, expressed or implied, in the granting of this permit; nor does Hidalgo County purport to grant any property interest or exclusive privileges whatsoever by granting such permit. It is specifically understood that Hidalgo County is not the agent for, nor does it act for, the fee owners or any persons or entities having any right, or title to possession of the land upon which Hidalgo County's easement or other property interest is located. Furthermore, in granting this permit Hidalgo County makes no representation or warranty that it has any property interest, including, but not limited to, an easement or right of way, in the land upon which Applicant constructs, maintains, repairs, or modifies the pipelines or utilities, made the subject of this application, nor does Hidalgo County make any representation or warranty as to the validity, quality or extent of such property interest, if any. Applicant acknowledges its understanding that Hidalgo County in granting this permit, does not convey or grant to Applicant any rights, title or interest for which is has no legal authority to grant or convey.
9. Applicant binds itself to comply with all federal, state, and local laws or regulations and will obtain all necessary permits from all local and federal agencies required by law before installation or construction is begun.



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10. Applicant will install its pipelines and utilities in a manner and location as shown in the plans and specifications filed with HCPD in support of this application for permit. Hidalgo County Planning Department's representative may at any time make such inspection as such engineer or other representation may deem necessary to assure that the construction of the pipeline or utilities is in accordance with the plans and specifications submitted, and said engineer or representative shall have the right to temporarily suspend Applicant's work if necessary, while such inspection is being made. Should Applicant not install the pipelines or utilities in accordance with the terms and conditions of this permit, Applicant agrees that Hidalgo County shall have the right to require, at Applicant's expense, the removal of the pipelines and utilities and its replacement in conformance to said plans and specifications and conditions of this permit. Hidalgo County may revoke this permit and suspend all work hereunder if it is determined by Hidalgo County that the pipelines or utilities are not being installed in accordance with such plans and specifications and conditions of this permit. The suspension or revocation of this permit shall not be a basis for a claim for damages against Hidalgo County.

11. Except in emergency situations where it is necessary to protect life and property, Applicant will not make any change, modification, or alteration in or to the pipelines or utilities without first securing a new or amended permit from Hidalgo County prior to the making of any such change. Applicant will maintain the pipelines or utilities hereby authorized in good and safe condition, and in accordance with plans, specifications, and this permit.

12. Applicant agrees to pay HCPD a permit fee to cover administrative costs in the amount of **\$500.00**, plus a reimbursement to HCPD for any necessary engineering fees which may be incurred for the study and processing of the Application. This fee will permit a single pipeline or utility to be within County right-of-way. Applicant further agrees to pay an additional fee of **\$500.00** for each additional line included in permit application at the same location; however, more than one location may be included in a single application.

Requests to lay additional line or lines, not included in an initial permit application, must be made by separate application, with new permit fees paid accordingly and support data provided.



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Permit fees may be waived where Applicant is a state, county, municipality, or a special political subdivision.

13. The Applicant is allowed one hundred twenty days (120) from the granting of the permit to start construction of the pipelines or utilities crossings. Once started, the Applicant is allowed ninety (90) days to complete all work under such permit. All construction must be completed within two hundred ten (210) days from the date of issuance of permit. Upon application, extension of the time periods set forth in this paragraph may be granted by the Hidalgo County Commissioners Court. Such applications for extension must be received by HCPD at least thirty days before the expiration of the two hundred ten (210) days period. A new permit fee, in accordance with Paragraph 12 hereof, will be charged for each extension granted.

Construction of any pipeline or utility crossing will not begin until written approval has been given by HCPD.

14. All provisions of the Pipeline and Utility Permit Administration Policy of Hidalgo County, if any, and all amendments thereto, are hereby incorporated herein as part of the terms and conditions of this permit for all purposes.

15. Applicant warrants and represents that it has secured from all fee owners of the involved property an easement or other property rights to construct, repair or modify the pipeline or utility in the manner set forth herein.

16. This Pipeline and Utility Permit if granted by Hidalgo County is subject to any and all other requirements, specifications and conditions listed in Exhibit A attached hereto.

17. Hidalgo County requires all coordinates of all utility crossings. Horizontal datum to be in NAD 83 State Plane Texas South 4205 feet and vertical datum in NAVD 88 Geoid 12a.



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**APPROVAL OF APPLICATION BY
HIDALGO COUNTY PLANNING DEPARTMENT**

Came on for consideration this _____ day of _____,
20____. The above and foregoing Application for Pipeline and Utility
Permit, and after consideration of the same by the Hidalgo County
Commissioners Court, said Application and Agreement for Pipeline or
Utility Permit is hereby APPROVED.

HIDALGO COUNTY:

Richard F. Cortez, County Judge



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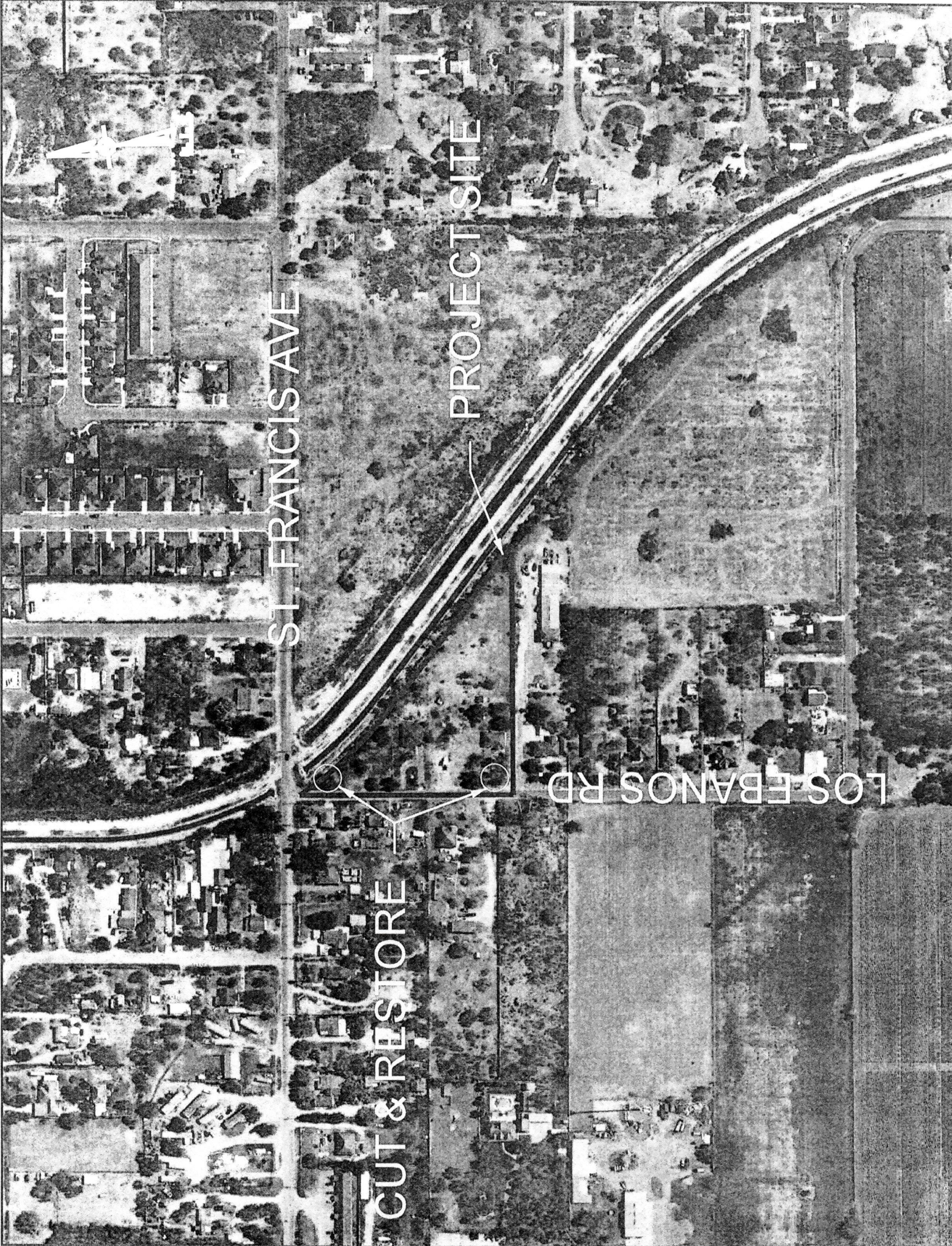
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EXHIBIT A

(Please insert description of project location and supporting documents for proposed utility work)



ST. FRANCIS AVE.

PROJECT SITE

CUT & RESTORE

LOS EBANOS RD.

MORALES LAND SUBDIVISION

A 3.00 ACRE TRACT OF LAND OUT OF LOT 36-2, WEST
ADDITION TO SHARYLAND, HIDALGO COUNTY, TEXAS, AS PER
MAP THEREOF RECORDED VOLUME 1 PAGE 56, MAP
RECORDS, HIDALGO COUNTY, TEXAS

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- 4. SWPPP
- 5. WATER DISTRIBUTION SYSTEM DETAILS
- 6. WATER DISTRIBUTION SYSTEM DETAILS (CONT.)



LOCATION MAP
N.T.S.



VICTOR H. TREVINO, P.E.
LICENSED PROFESSIONAL
ENGINEER, TEXAS LIC. NO. 128195

04/06/2023

PRINCIPAL CONTACTS:

| | NAME | ADDRESS | CITY & ZIP | PHONE | FAX |
|-----------|--------------------------|-----------------------------|----------------------|----------------|----------------|
| OWNER: | PENA CHAPA DEVELOPMENT | P.O. BOX 1958 | MISSION, TEXAS 78572 | (956) 581-3918 | |
| ENGINEER: | VICTOR H. TREVINO, P.E. | 900 S. STEWART RD., STE. 13 | MISSION, TEXAS 78572 | (956) 424-3335 | (956) 424-3132 |
| SURVEYOR: | JUAN E. GALVAN, R.P.L.S. | 900 S. STEWART RD., STE. 13 | MISSION, TEXAS 78572 | (956) 424-3335 | (956) 424-3132 |

SOUTH TEXAS INFRASTRUCTURE GROUP
900 S. STEWART, SUITE 13
MISSION, TEXAS 78572
PH: (956) 424-3335
FAX: (956) 424-3132
TBPE REG. # 1500



TITLE SHEET

0

DEMOLITION PLAN NOTES

"CAUTION" - NOTICE TO CONTRACTOR:

THE CONTRACTOR IS PUT ON NOTICE THAT THERE ARE NUMEROUS UNDERGROUND UTILITIES IN THE LINE OF WORK, INCLUDING WATER, SEWER, GAS, TELEPHONE AND ELECTRIC. THERE MAY BE OTHER UTILITIES INCLUDING CABLE TELEVISION, TELECOMMUNICATIONS AND OTHERS, SOME OF THESE UTILITIES MAY BE ABANDONED, WHILE MANY ARE ACTIVE.

THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN CONDUCTING EXCAVATION OPERATIONS, AND IF ANY EXISTING UTILITIES ARE DAMAGED, THEY SHALL BE REPAIRED IMMEDIATELY AT NO COST TO THE OWNER. THE CONTRACTOR IS TO BE AWARE THAT IF ANY EXISTING UTILITIES ARE SHOWN ON THE PLANS THEY ARE SHOWN IN THEIR APPROXIMATE LOCATION ONLY AND THAT THE EXISTING UTILITIES SHOWN REPRESENT ONLY A DILIGENT EFFORT TO SHOW THE APPROXIMATE LOCATION OF SOME OF THE UTILITIES.

THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST FILED LOCATION OF UTILITIES.

"NOTICE TO CONTRACTOR" - TEXAS ONE CALL SYSTEM:

AS REQUIRED BY THE "TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT" TEXAS ONE CALL SYSTEM MUST BE CONTACTED (800-245-4545) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OPERATIONS PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM.

GENERAL DEMOLITION NOTES:

- NO EARTH DISTURBING ACTIVITIES SHALL COMMENCE UNTIL ALL PERIMETER EROSION CONTROL MEASURES ARE IN PLACE IN ACCORDANCE WITH THE EROSION & SEDIMENT CONTROL PLAN.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH ALL REGULATIONS GOVERNING THE DEMOLITION, REMOVAL, TRANSPORTATION AND DISPOSAL OF ALL DEMOLITION DEBRIS.
- THE CONTRACTOR SHALL LOCATE AND REMOVE ALL UNDERGROUND UTILITY PIPING, IRRIGATION PIPING, AND CONDUIT ON EXISTING SITE AS PART OF THE BASE BID, UP TO A DEPTH OF 24 INCHES BELOW EXISTING GRADES.
- CONTRACTOR SHALL LOCATE AND REMOVE ALL UNDERGROUND UTILITY CABLES (ELECTRIC, TELEPHONE, ETC.) ON THIS SITE UP TO A DEPTH OF 24 INCHES BELOW EXISTING GRADES AS PART OF BASE BID.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS FOR EXCAVATING AND TRENCHING PROCEDURES. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, ETC. AS NECESSARY FOR THESE OPERATIONS, AND SHALL COMPLY WITH ALL OSHA PERFORMANCE CRITERIA.
- THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROTECTION OF ALL PROPERTY CORNER MONUMENTS, AND SHALL HAVE, AT HIS EXPENSE, ALL CORNER MONUMENTS REPLACED WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES.
- NOTES SHOWN HERE ON REGARDING SPECIFIC ITEMS OF DEMOLITION ARE GENERAL IN NATURE, AND ARE NOT INTENDED TO BE WHOLLY INCLUSIVE. THE CONTRACTOR SHALL DEMOLISH AND REMOVE ALL EXISTING IMPROVEMENTS TO THE EXTENT AS NOTED IN THE SPECIFICATIONS, TO THE SATISFACTION OF THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING DISCONNECTION OF ALL UTILITIES SERVING THE EXISTING SITE WITH THE APPROPRIATE UTILITY COMPANY, AND SHALL OBTAIN APPROVAL FROM SAME TO COMMENCE DEMOLITION ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLUGGING, CAPPING, OR OTHERWISE TERMINATING UTILITY SERVICE LINES AT EXISTING METER LOCATIONS, CLEANOUTS, ETC.

INSPECTIONS/CERTIFICATIONS NOTE:

ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.

SITE PLAN NOTES

GENERAL SITE NOTES:

- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY, COUNTY, STATE, FEDERAL AND OSHA REGULATIONS.
- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, RAMPS, SIDEWALKS, EXIT PORCHES, PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY ENTRANCE LOCATIONS, AND TOTAL NUMBER, LOCATION, AND SIZE OF DOWNSPOUTS.
- ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH, AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
- ALL ISLANDS WITH CURB & GUTTER SHALL BE LANDSCAPED. THOSE ISLANDS ARE TO HAVE 18" CURB & GUTTER. ALL REMAINING ISLANDS ARE TO BE STRIPPED AS SHOWN.
- ALL DIMENSIONS AND RADII ARE TO THE BACK OF CURB, EDGE OF PAVEMENT, CENTER OF STRIPE OR OBJECT, OR FACE OF BUILDING UNLESS OTHERWISE NOTED.
- EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS THAT ARE TO BE ABANDONED, REMOVED OR RELOCATED, SHALL BE DONE IN A PROPER MANNER OFFSITE, AS NECESSARY. ALL COST SHALL BE INCLUDED IN BASE BID.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
- THE SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED "THE CITY STANDARD SITE WORK SPECIFICATIONS".
- CONTRACTOR IS RESPONSIBLE FOR PROTECTION AND REPLACEMENT OF PROPERTY CORNERS.
- CONTRACTOR SHALL MATCH EXISTING CURB & GUTTER IN GRADE, SIZE, TYPE AND ALIGNMENT WHERE APPLICABLE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO DAMAGE OF ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING.

UTILITY PLAN NOTES

GENERAL UTILITY NOTES:

- ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
- CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
- IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING, THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE, MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50). CONTRACTOR SHALL BE RESPONSIBLE FOR ADDING 45° BENDS WHERE NECESSARY TO ROUTE PROPOSED WATER LINES AROUND PROPOSED STORM SEWER.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE CITY UTILITY DEPARTMENT AS TO LOCATION AND SCHEDULING OF THE INS/CONNECTIONS PRIOR TO CONNECTING TO EXISTING UTILITIES.
- MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
- LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED PRIOR TO BACKFILLING.
- ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
- DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES.
- EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
- CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
- CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURE. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE BUT NOT LIMITED FOR ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS OUTLINED BY OSHA.
- CONTRACTOR SHALL REFER TO ARCHITECT'S PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES TO INCLUDE: SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, TELEPHONE AND GAS SERVICE.
- ALL STEEL ENCASMENT PIPE SHALL HAVE A WALL THICKNESS OF 0.25 INCHES.
- ALL SANITARY SEWER AND WATER LINES SHALL COMPLY WITH THE REQUIREMENTS AS SPECIFIED IN THE SITE WORK SPECIFICATIONS.
- DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR FITTING, TO CENTERLINE OF MANHOLE, FACE OF BUILDING, OR BACK OF CURB UNLESS OTHERWISE NOTED.
- IN THE EVENT OF DAMAGE TO UNDERGROUND FACILITIES, WHETHER SHOWN OR NOT SHOWN IN THE DRAWINGS, THE CONTRACTOR SHALL MAKE THE NECESSARY REPAIRS TO PLACE THE FACILITIES BACK IN SERVICE AT NO INCREASE IN THE CONTRACTOR'S PRICE, AND ALL SUCH REPAIRS SHALL CONFORM TO THE REQUIREMENTS OF THE COMPANY OR AGENCY SERVICING THE FACILITY.
- THE CONTRACTOR SHALL EXERCISE EXTRA CARE TO PREVENT DAMAGE TO ALL OTHER STRUCTURES IN THE AREA INCLUDING BUILDINGS, FENCES, ROADS, PIPELINES, UTILITIES, ETC., WHETHER PUBLICLY OR PRIVATELY OWNED.
- UNTIL ACCEPTANCE BY THE ENGINEER OF ANY PART OR ALL OF THE CONSTRUCTION, AS PROVIDED FOR IN THE PLANS AND SPECIFICATIONS, IT SHALL BE UNDER THE CHARGE AND CARE OF THE CONTRACTOR, AND HE SHALL TAKE EVERY NECESSARY PRECAUTION AGAINST INJURY OR DAMAGE TO ANY PART OF THE WORK. THE CONTRACTOR SHALL REBUILD, REPAIR, RESTORE AND MAKE GOOD, AT HIS OWN EXPENSE, ALL INJURIES OR DAMAGE TO ANY PORTION OF THE WORK BEFORE ITS COMPLETION AND ACCEPTANCE.
- COORDINATE ALL UTILITY WORK WITH PLUMBING PLANS BEFORE COMMENCING ANY UTILITY WORK. REFER TO PLUMBING PLANS FOR CONTINUATION.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM CITY OR STATE FOR ANY CONSTRUCTION DONE ON PUBLIC R.O.W. AND SHALL INCLUDE TRAFFIC CONTROL AS REQUIRED.
- NOTICE TO CONTRACTOR: TEXAS ONE CALL SYSTEM AS REQUIRED BY "THE TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT" TEXAS ONE CALL SYSTEM MUST BE CONTACTED (800-245-4545) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OPERATIONS PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM.
- CONTRACTOR SHALL VISIT EXISTING CONDITIONS OF THE SITE.
- CONTRACTOR SHALL IDENTIFY ALL UNDERGROUND LINES BEFORE COMMENCING WORK. CONTRACTOR SHALL ADJUST ANY ELECTRICAL OR GAS LINES THAT CONFLICT WITH CONSTRUCTION OF THESE IMPROVEMENTS.

TRAFFIC CONTROL NOTE:

GUIDELINES SET FORTH IN PART IV "STANDARDS AND GUIDES FOR TRAFFIC CONTROLS FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY, AND INCIDENT MANAGEMENT OPERATIONS" OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MOST RECENT EDITION AS REVISED) SHALL BE OBSERVED.

UTILITY PLAN DETAIL NOTES

GENERAL NOTES FOR WATER CONSTRUCTION:

- DISINFECTION OF NEW WATER MAINS SHALL BE IN CONFORMANCE WITH AWWA C601 & C651. ALL NEW WATER MAINS SHALL BE DISINFECTED BEFORE THEY ARE PLACED IN SERVICE. ALL WATER MAINS TAKEN OUT OF SERVICE FOR INSPECTING, REPAIRING OR OTHER ACTIVITY WHICH MIGHT LEAD TO CONTAMINATION OF WATER SHALL BE DISINFECTED BEFORE THEY ARE RETURNED TO SERVICE.
- ALL WATER LINE PIPE FURNISHED SHALL MEET THE REQUIREMENTS OF AWWA C900. LATEST REVISION. HYDROSTATIC TEST SPEC. SHALL BE 150 P.S.I FOR 8 HOURS OR 180 P.S.I. FOR 4 HOURS.
- DUCTILE IRON PIPE SHALL CONFORM TO AWWA C110 STANDARDS.
- CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING TO WITHSTAND THRUST PRESSURE. NO SEPARATE PAY.
- WATER LINE TRENCHES INSIDE STREET RIGHT OF WAY SHALL HAVE SAND BEDDING TO THE SPRINGLINE OF THE PIPE AND THEN BACKFILLED WITH SELECT FILL IN MAX 8" LIFTS AND COMPACTED TO A MINIMUM OF 95% STD. DENSITY, AT +/-3% OF OPTIMUM MOISTURE CONTENT.
- MAINTAIN A MINIMUM OF 18 INCHES VERTICAL CLEARANCE BETWEEN WATER LINES AND ALL OTHER UTILITIES.
- UNLESS OTHERWISE APPROVED, ALL WATER MAINS SHALL BE PLACED A MINIMUM DEPTH OF 4'-6" BELOW TOP OF PROPOSED STREET CURBS OR 48" OF COVER ABOVE PIPE LOCATED IN STREET RIGHT OF WAY OR EASEMENTS.
- ALL CONCRETE BLOCKING SHALL CONSIST OF 3000-P.S.I. CONCRETE.
- ALL WORK AND MATERIAL SHALL BE SUBJECT TO CITY ENGINEERS APPROVAL DURING CONSTRUCTION AND UPON COMPLETION.
- ALL WATER SERVICE LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH GOVERNING REGULATIONS.
- TRACER WIRE SHALL BE INSTALLED ON ALL PUBLIC WATER LINES.

MANHOLE TESTING:

MANHOLES SHALL BE TESTED FOR LEAKAGE SEPARATELY AND INDEPENDENTLY OF THE WASTEWATER LINES BY HYDROSTATIC EXFILTRATION TESTING, VACUUM TESTING OR OTHER METHODS ACCEPTABLE TO THE COMALTON. IF A MANHOLE FAILS A LEAK TEST, THE MANHOLE MUST BE MADE WATER TIGHT AND RETESTED. THE MAXIMUM LEAKAGE FOR HYDROSTATIC TESTING SHALL BE 0.025 GALLONS PER FOOT DIAMETER PER FOOT ON MANHOLE DEPTH PER HOUR.

SEWER PIPE TESTING:

EXFILTRATION TESTS SHALL BE PERFORMED ON ALL SEWER PIPE USING LOW PRESSURE AIR TEST. THE PROCEDURE FOR THE LOW PRESSURE AIR TEST SHALL CONFORM TO THE PROCEDURE DESCRIBED IN ASTM C-924, ASTM F-4147, OR OTHER APPROPRIATE PROCEDURES.

DEFLECTION TESTING:

DEFLECTION TEST SHALL BE PERFORMED ON ALL FLEXIBLE PIPES. FOR PIPE WITH INSIDE DIAMETERS LESS THAN 27 INCHES, A RIGID MANDREL SHALL BE USED TO MEASURE DEFLECTION. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5%.

GENERAL NOTES FOR SEWER CONSTRUCTION:

- THE TOP ELEVATION OF MANHOLES AND CLEANOUTS CONSTRUCTED IN PAVED AREAS SHALL MATCH FINISHED PAVEMENT GRADE. THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN GRASSED AREAS SHALL BE SIX (6) INCHES ABOVE FINISHED GRADE (UNLESS OTHERWISE NOTED).
- SEWER PIPE DIAMETERS AND MATERIAL SHALL BE AS INDICATED ON PLANS AND SPECIFICATIONS.
- IN THE EVENT PLANS OR STANDARD DETAILS CONFLICT WITH THE CITY PLUMBING ORDINANCES, CITY ORDINANCES SHALL CONTROL AND BE ADHERED TO IN ALL CASES.
- CONTRACTOR MUST BE LICENSED AND BONDED WITHIN THE CITY.
5. PIPE SHALL BE BURIED A MINIMUM OF 4'.
- CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE.
- REPAIR OF ALL EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL MAKE EVERY EFFORT POSSIBLE TO MINIMIZE THE DISTURBANCE OF ALL EXISTING SHRUBS, LAWNS, AND OTHER LANDSCAPING FEATURES AND SHALL COORDINATE REMOVAL OF TREES WITH OWNERS OR ENGINEER.
- PLUGS BETWEEN THE EXISTING AND PROPOSED SYSTEM SHALL BE REMOVED ONLY WHEN THE PROPOSED SANITARY SEWERS HAVE BEEN COMPLETED, TESTED AND ACCEPTED. NO PLUG SHALL BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.
- SEWER SERVICE SHALL BE MAINTAINED TO ALL RESIDENCES AT ALL TIMES. IF FOR ANY REASON, THE CONTRACTOR NEEDS TO INTERRUPT SERVICE, HE SHALL FIRST OBTAIN APPROVAL FROM ENGINEER.
- ALL CUT & PLUG OF SEWER LINES SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS. NO SEPARATE PAY WILL BE ALLOWED.
- WHENEVER SANITARY SEWER CROSSES WITHIN 10 FEET ABOVE OR BELOW A WATER LINE, THE SANITARY SEWER SHALL BE CONSTRUCTED OF D.I., CLASS 50, PRESSURE PIPE OR AWWA C900 PVC FOR A MINIMUM DISTANCE OF 10 FEET ON EITHER SIDE OF THE WATER LINE.
- ALL SANITARY SEWER MAINS SHALL BE SDR-26 PVC WITH 4' MINIMUM BURY, PIPE PER CITY REQUIREMENTS.
- P.V.C. PIPE SHALL HAVE BELL AND SPIGOT JOINTS. NO CHEMICALLY WELDED JOINTS SHALL BE PERMITTED.
- GRADES FOR SEWER MAINS MAY BE VARIED FROM ELEVATIONS INDICATED ON THE PLANS ONLY ON THE DIRECTION AND APPROVAL OF THE OWNER OR HIS AUTHORIZED REPRESENTATIVE, AND THE CITY.
- ALL UTILITIES MAY BE OPEN-CUT UNLESS SPECIFICALLY NOTED OTHERWISE. REPAIR OF ALL EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL DUCTILE IRON PIPE SHALL BE POLYETHYLENE LINED.

STORM SEWER PLAN NOTES

STORM SEWER NOTES:

- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT SIZE, NUMBER AND LOCATION OF ALL ROOF DRAINS.
- IF THE CONTRACTOR RELOCATES BENCHMARK WITH A NEW BENCHMARK, IT SHALL BE LOCATED WITHIN A TOLERANCE OF 0.10'.
- CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- SEE SPECIFICATIONS FOR BACKFILLING AND COMPACTION REQUIREMENTS OF STORM SEWER TRENCHES.
- ALL PIPES ENTERING STORM SEWER STRUCTURES SHALL BE GROUTED WITH NON-SHRINK GROUT TO ASSURE A WATERTIGHT FIT.
- ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING LIDS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISHED GRADE. LIDS SHALL BE LABELED "STORM SEWER".
- THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS OUTLINED IN THE T.P.D.E.S. PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING SWPPP AND REQUIRED PERMITS.
- CONTRACTOR SHALL UTILIZE PREFABRICATED BENDS, FIELD FABRICATED BENDS OR RADIUS PIPE TO ACCOUNT FOR DEFLECTIONS IN STORM SEWER PIPE WHERE SHOWN HEREON.
- PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.
- EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED TO REMOVE ALL SILT AND DEBRIS.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR FROM INVERT IN TO INVERT OUT.

GRADING PLAN NOTES

GENERAL GRADING NOTES:

- CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE. UTILITIES ARE TO BE REMOVED TO THE RIGHT-OF-WAY.
- ALL CUT OR FILL SLOPES SHALL BE 3:1 UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE SMOOTH FIT AND CONTINUOUS GRADE.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPED 3:1 OR STEEPER.
- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- STRIP THE TOP 6" OF TOPSOIL AND VEGETATION FROM PROPOSED PAVING AND SIDEWALKS. STRIPPED TOPSOIL MAY BE STOCKPILED AND USED FOR FILL IN LANDSCAPE AND LAWN AREAS PROVIDED IT IS FREE OF ROCKS AND TRASH.
- FILL BELOW PROPOSED PAVEMENT AREAS MAY BE SELECT FILL WITH PLASTICITY INDEX RANGING FROM 5-17%.
- ALL SIDEWALKS SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT. ELEVATIONS OF TOP OF CURB NEAR BUILDING ASSUME 1/4" PER FOOT SLOPE ACROSS COVERED ENTRY AND SIDEWALK.
- EXPANSION JOINTS TO BE PLACED WHERE BUILDING FOUNDATION MEETS CONCRETE PAVEMENT OR SIDEWALK.
- ALL REQUIRED SELECT FILL TO BE PLACED IN 6" LIFTS WITH COMPACTION TO 95% PROCTOR.
- ALL CURB AND GUTTER TO BE BACKFILLED AND STABILIZED AS REQUIRED.
- ALL GRADING TO BE ESTABLISHED TO PROVIDE SURFACE TO DRAINAGE.
- ALL OBSTRUCTIONS BUILDINGS, POLES, WIRES, SLABS, FENCING, OR GUARD RAILS CONFLICTING WITH THE PROPOSED IMPROVEMENTS TO BE REMOVED, RELOCATED AND/OR DISPOSED OF BY CONTRACTOR AS PER ENGINEERS WRITTEN INSTRUCTIONS.
- HANDICAP SIGNAGE TO CONFORM WITH FEDERAL REGULATIONS (A.D.A.).
- CONTRACTOR TO INCLUDE ALL STRIPING FOR PARKING LOTS.
- CIVIL ENGINEER WILL NOT PROVIDE CONSTRUCTION STAKING ON (ON-SITE) IMPROVEMENTS.
- CONTRACTOR TO GRADE SWALES AS REQUIRED FROM SIDEWALK DRAINAGE OPENINGS, FIRE LANES, CULVERTS AND CURB SLOTS TO INLETS.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION AND SEDIMENT CONTROL THROUGHOUT THE DURATION OF THE CONSTRUCTION.



VICTOR H. TREVINO
P.E. 128195
04/06/2023
DATE

DATE: APRIL 06, 2023

SCALE: _____

DESIGNED BY: VICTOR TREVINO

DRAWN BY: DANIEL GARCIA

CHECKED BY: VICTOR TREVINO

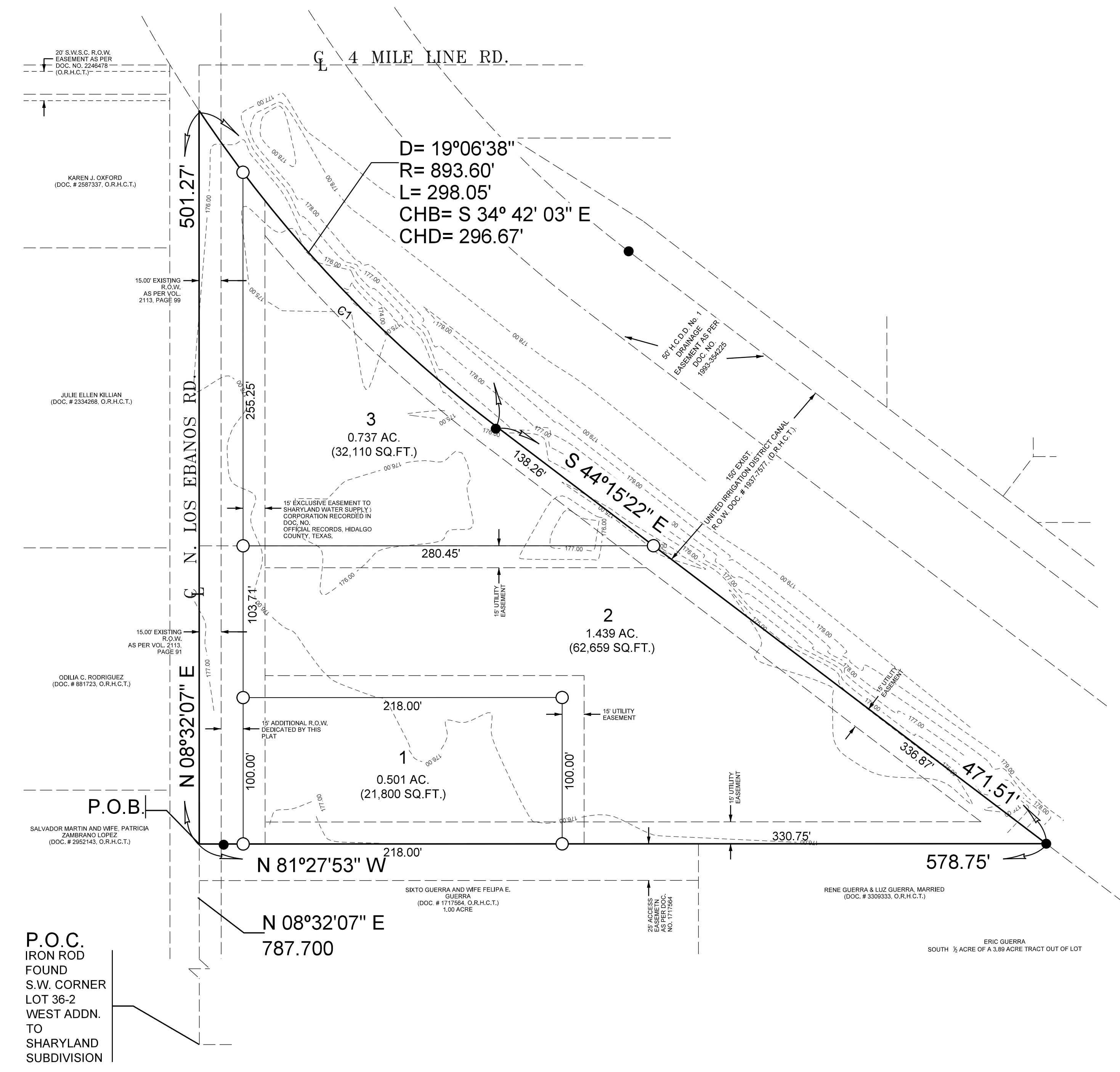
SHEET NUMBER: 0



SOUTH TEXAS
INFRASTRUCTURE GROUP
800 S. STEWART, SUITE 113
MISSION, TEXAS 78572
PH: (361) 424-3355
FAX: (361) 424-3132
TBPE REG # 15000

MORALES LAND
SUBDIVISION

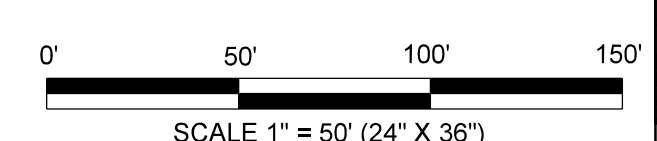
GENERAL NOTES



******* METES AND BOUNDS *******
 BEING A 3.00 ACRE TRACT OF LAND OUT OF LOT 36-2, WEST ADDITION TO SHARYLAND, HIDALGO COUNTY, TEXAS, AS PER MAP THEREOF RECORDED VOLUME 1 PAGE 56, MAP RECORDS, HIDALGO COUNTY, TEXAS, CONVEYED BY "QUITCLAIM DEED" TO LUIS MANUEL MORALES, RECORDED ON FEBRUARY 22, 2019, IN DOCUMENT NUMBER 298468, OF THE OFFICIAL RECORDS, HIDALGO COUNTY, TEXAS, AND ALSO CONVEYED BY "QUITCLAIM DEED" TO LUIS MANUEL MORALES, FILED FOR RECORD ON FEBRUARY 22, 2019, IN DOCUMENT NUMBER 298470, OF THE OFFICIAL RECORDS, HIDALGO COUNTY, TEXAS, SAID TRACT BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:
 BEGINNING AT THE SOUTHWEST CORNER OF SAID LOT, THENCE WITH THE SOUTH LINE OF SAID LOT THE CENTERLINE OF LOS EBANOS ROAD (R.O.W. VARIES), TO A POINT OF CURVATURE:
 THENCE, NORTH 08°32' 07" EAST, AT A DISTANCE OF 501.27 FEET ALONG THE NORTH CENTERLINE OF LOS EBANOS ROAD (R.O.W. VARIES), TO A POINT OF CURVATURE:
 THENCE, ALONG SAID CURVE, 298.05 FEET ALONG THE ARC OF SAID CURVATURE TO THE RIGHT, HAVING A RADIUS OF 893.60 FEET, A CENTRAL ANGLE OF 19°06'38", A CHORD BEARING OF SOUTH 34°42' 03" EAST AND A CHORD DISTANCE OF 296.67 FEET, TO AN IRON ROD FOUND FOR SAID 150-FOOT EXISTING UNITED IRRIGATION DISTRICT CANAL RIGHT-OF-WAY AS RECORDED IN DOCUMENT 1937-7577, DEED RECORDS, HIDALGO COUNTY, TEXAS;
 THENCE, SOUTH 44°15' 22" EAST, AT A DISTANCE OF 471.51 FEET CONTINUING ALONG THE 150-FOOT CANAL R.O.W. AND SAID LUIS MANUEL MORALES TO A POINT FOR A CORNER;
 THENCE, NORTH 81°27' 53" WEST, AT A DISTANCE OF 578.75 FEET ALONG THE WEST LINE OF LUIS MANUEL MORALES AND RENE GUERRA & LUIZ GUERRA NO RECORD FOUND, FOR A TOTAL DISTANCE OF 578.39 FEET TO A POINT OF BEGINNING, CONTAINING A COMPUTED AREA OF 3.00 ACRE TRACT OF LAND.

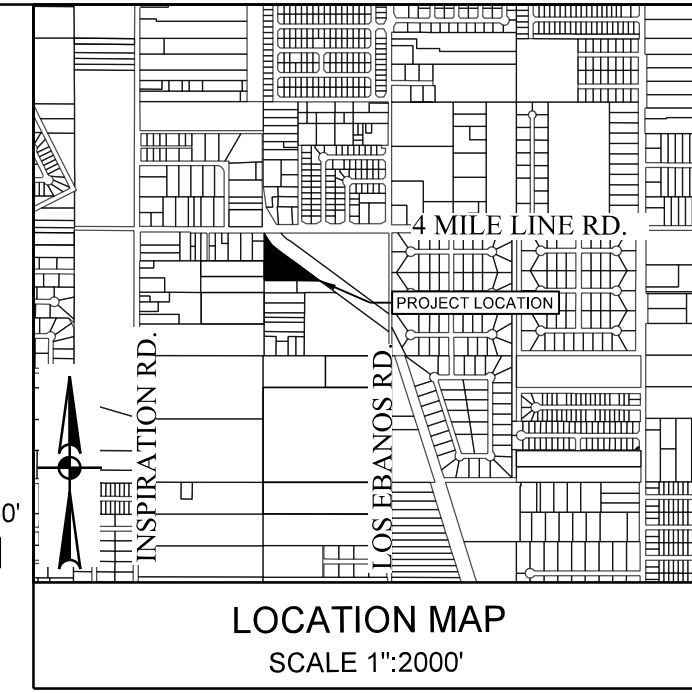
LEGEND:

- FOUND IRON ROD WITH PLASTIC CAP STAMPED "ROWS PROP. COR.", UNLESS OTHERWISE NOTED
- SET # 5/8" IRON ROD WITH PLASTIC CAP STAMPED "ROWS PROP. COR.", UNLESS OTHERWISE NOTED
- MAP RECORDS HIDALGO COUNTY TEXAS
- OFFICIAL RECORDS HIDALGO COUNTY TEXAS
- DEED RECORDS HIDALGO COUNTY TEXAS



******* GENERAL NOTES *******

1. FLOOD ZONE STATEMENT:
 FLOOD ZONE DESIGNATION: "C"
 ZONE "C" AREAS DETERMINED OF MINIMAL FLOODING COMMUNITY PANEL NO. 483334 0400 C, REVISED NOVEMBER 16, 1982.
 THE AREAS WITHIN THE DRAINAGE EASEMENTS AND LOS EBANOS ROAD RIGHT-OF-WAY ARE WITHIN THE 100-YEAR FLOOD PLAIN, COMMUNITY PANEL NO. 483334 0400 C, REVISED NOVEMBER 16, 1982 OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS FOR HIDALGO COUNTY, TEXAS AND THE LOCAL FLOOD PLAIN ADMINISTRATOR HAVE IDENTIFIED NO OTHER AREAS AS SHOWN ON THIS PLAT ARE WITHIN THE PROPOSED SUBDIVISION TO BE WITHIN THE 100-YEAR FLOOD PLAIN.
 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).
2. MINIMUM BUILDING SETBACK LINES:
 FRONT SETBACK: 40 FEET
 SIDE SETBACK: 6 FEET OR EASEMENT, WHICHEVER IS GREATER;
 REAR SETBACK: 30 FEET;
3. NO MORE THAN ONE SINGLE FAMILY DETACHED DWELLING SHALL BE LOCATED ON THE LOT. THIS MUST BE STIPULATED ON ALL DEEDS AND CONTRACTS FOR DEEDS.
4. MINIMUM FINISHED FLOOR ELEVATION SHALL BE 18" ABOVE CENTERLINE OF THE STREET OR 18" ABOVE NATURAL GRADE, 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 DEVELOPMENT PERMIT APPLICATION.
5. THE FOLLOWING BENCHMARKS ARE IDENTIFIED ON THE FACE OF THE PLAT AND ON THE ATTACHED ENGINEERING PLANS:
 BM-1 IS A FOUND IRON ROD AT THE EAST SIDE OF LOS EBANOS RD.
 ELEV = 219.03
6. IN ACCORDANCE WITH THE HIDALGO COUNTY DRAINAGE DISTRICT NO. 1 A TOTAL OF 5,030 CUBIC FEET, 0.120 ACRE-FEET OF DETENTION IS REQUIRED FOR THIS SUBDIVISION. DRAINAGE REQUIREMENT IN ACCORDANCE WITH THE LOCAL REQUIREMENTS WILL BE ACCOMPLISHED AS FOLLOWS: (SEE SHEET 3 FOR PAVING LAYOUT AND DRAINAGE DESIGN)
7. 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.
8. 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.
9. 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.
11. THERE ARE NO WATER WELLS WITHIN 150 FEET FROM THE BOUNDARIES ON THIS SUBDIVISION.
12. LUIS MORALES, THE OWNER & SUBDIVIDER OF MORALES LAND 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.
13. ALL LOTS SHALL HAVE A POST DEVELOPMENT FINISHED GRADE FROM THE REAR OF THE LOT TO THE CURB AND/OR ROADSIDE DITCH AT A 0.25% SLOPE TO ACCOMPLISH POSITIVE DRAINAGE. THIS IS IN ACCORDANCE WITH HIDALGO COUNTY APPENDIX 5: COUNTY CONSTRUCTION SPECIFICATIONS 3.1.4.
15. THE DEVELOPER SHALL BE RESPONSIBLE FOR DETAINING AND ACCOMMODATING MORE THAN THE DETAINED VOLUME SHOWN ON THIS PLAT IF IT IS DETERMINED, AT THE DEVELOPMENT STAGE, THAT THE DETENTION REQUIREMENTS ARE GREATER THAN STATED ON THIS PLAT, DUE TO THE IMPROVISED ARE BEING GREATER THAN THE PLAT ENGINEER CONSIDERED IN THE HYDRAULIC CALCULATIONS FOR THIS SUBDIVISION.
16. ALL SHARYLAND WATER SUPPLY CORPORATION EASEMENTS ARE EXCLUSIVE. NO OTHER USE OF EASEMENT IS PERMITTED WITHOUT THE EXPRESS WRITTEN APPROVAL OF SHARYLAND WATER SUPPLY CORPORATION.
17. 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 LOT.
- A OSSF SYSTEM IS BEING DESIGNED FOR DISPOSAL OF DOMESTIC SEWERAGE ONLY.
- B EACH LOT ON THIS PLAT COMPLIES WITH THE MINIMUM 2,780 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.
18. ANY EXISTING RESIDENCE STRUCTURE OR NEW PROPOSED DWELLING ON LOT 1 & 3 MUST COMPLY WITH ALL SETBACK RESTRICTIONS RECORDED ON THIS PLAT.
19. THE PURCHASER OF EACH LOT FACING LOS EBANOS ROAD SHALL BE RESPONSIBLE TO INSTALL DRIVEWAY CULVERT WITH REINFORCED CONCRETE PIPE NO LESS THAN 15 INCHES IN DIAMETER AND 24 FEET IN LENGTH.
20. UNITED IRRIGATION DISTRICT RETAINS A BLANKET IRRIGATION EASEMENT AS PER DOCUMENT NO. 1924-18442, OFFICIAL RECORDS, HIDALGO COUNTY, TEXAS, ON LOT 405. JOHN H. SHARY SUBDIVISION, AS RECORDED IN VOLUME 1, PAGE 424, 43 AND 434, MAP RECORDS, HIDALGO COUNTY, TEXAS.
- 21.



LOCATION DESCRIPTION
 MORALES LAND SUBDIVISION IS LOCATED WITHIN HIDALGO COUNTY PRECINCT NO. 3 IN THE WEST SIDE OF 4 MILE RD AND INSPIRATION RD. THE ONLY NEARBY MUNICIPALITY IS THE CITY OF MISSION, ACCORDING TO THE OFFICIAL MAP IN THE CITY OFFICE OF PLANNING AND ZONING (POPULATION 83,394, 2015 CENSUS). MORALES SUBDIVISION LIES APPROXIMATELY 2 1/2 MILE FROM THE CITY LIMITS OF MISSION AND IS WITHIN THE CITY'S 0 TO 5 MILE EXTRATERRITORIAL JURISDICTION (ETJ) UNDER LOCAL GOVERNMENT CODE 212.001.

- SHEET 1 - HEADING INDEX, LOCATION MAP AND ETJ, PRINCIPAL CONTACTS, LOT, STREETS AND EASEMENT LAYOUT, ENGINEERS AND SURVEYORS CERTIFICATION, HIDALGO COUNTY CLERK'S RECORDING CERTIFICATE, PLAT NOTES AND RESTRICTIONS, DESCRIPTION (METES & BOUNDS), OWNER'S ACKNOWLEDGMENT, H.C.D. NO. 1 CERTIFICATION, COUNTY CLERK RECORDING CERTIFICATE, H.C.I.D. NO. 6 CERTIFICATE, ENGINEERS AND SURVEYORS CERTIFICATION, CITY OF MISSION CERTIFICATE OF APPROVAL, HIDALGO COUNTY ENVIRONMENTAL HEALTH DEPARTMENT CERTIFICATE, AGUA SPECIAL UTILITY DISTRICT CERTIFICATE.
- SHEET 2 - WATER DISTRIBUTION AND SANITARY SEWER (OSSF) MAP, ENGINEERING REPORT, INCLUDING DESCRIPTION OF WATER AND WASTE WATER/OSSF AND ENGINEER'S CERTIFICATION (ENGLISH AND SPANISH) SUBDIVIDER CERTIFICATE & STATEMENT.
- SHEET 3 - DRAINAGE REPORT INCLUDING DESCRIPTION OF DRAINAGE, MAP OF TOPOGRAPHY, DRAINAGE AND PAVING MAP, ENGINEERING CERTIFICATION, REVISION NOTES.

******* HIDALGO COUNTY *******

HIDALGO COUNTY CERTIFICATE OF PLAT APPROVAL
 I, THE UNDERSIGNED CERTIFY THAT THIS PLAT OF MORALES SUBDIVISION WAS REVIEWED AND APPROVED BY THE HIDALGO COUNTY HEALTH DEPARTMENT ON _____

ENVIRONMENTAL HEALTH DIVISION MANAGER _____ DATE _____

STATE OF TEXAS COUNTY OF HIDALGO
 WE, THE UNDERSIGNED CERTIFY THAT THIS PLAT OF MORALES SUBDIVISION WAS REVIEWED AND APPROVED BY THE HIDALGO COUNTY COMMISSIONERS COURT ON _____

HIDALGO COUNTY JUDGE _____ DATE _____
 ATTEST: HIDALGO COUNTY CLERK _____ DATE _____

******* CITY OF MISSION *******
 CITY OF MISSION CERTIFICATE OF APPROVAL

UNDER LOCAL GOVERNMENT CODE 212.0115(B) WE, THE UNDERSIGNED CERTIFY THAT THIS PLAT OF MORALES LAND SUBDIVISION WAS REVIEWED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF MISSION.

MAYOR CITY OF MISSION _____ DATE _____
 ATTEST: CITY SECRETARY _____ DATE _____

******* OWNER ACKNOWLEDGMENT *******

STATE OF TEXAS COUNTY OF HIDALGO
 OWNER'S DEDICATION, CERTIFICATION, AND ATTESTATION:
 LUIS MANUEL MORALES AS OWNER OF THE 3.00 ACRE TRACT OF LAND ENCOMPASSED WITHIN THE PROPOSED MORALES SUBDIVISION, HEREBY SUBDIVIDE THE LAND AS DEPICTED IN THIS SUBDIVISION PLAT AND DEDICATED 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 THE STATE STANDARDS
 (C) ELECTRICAL CONNECTIONS PROVIDED 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

LUIS MANUEL MORALES
 5220 N. LOS EBANOS
 MISSION, TEXAS 78573
 STATE OF TEXAS COUNTY OF HIDALGO
 BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED LUIS MANUEL MORALES KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT, AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATIONS THEREIN STATED.
 GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS _____ DAY OF _____

******* OWNER ACKNOWLEDGMENT *******

STATE OF TEXAS COUNTY OF HIDALGO
 KNOW ALL MEN BY THESE PRESENTS:
 I, VICTOR H. TREVIÑO, A REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF TEXAS, HEREBY CERTIFY THAT THIS PLAT IS TRUE AND CORRECTLY MADE AND PREPARED FROM AN ACTUAL SURVEY OF THE PROPERTY MADE UNDER MY SUPERVISION ON THE GROUND ON _____ UNDER MY DIRECTION.
 VICTOR H. TREVIÑO, R.P.L.S.
 REG. PROFESSIONAL LAND SURVEYOR # 6968
 STATE OF TEXAS COUNTY OF HIDALGO
 KNOW ALL MEN BY THESE PRESENTS:
 I, VICTOR H. TREVIÑO, A REGISTERED PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS, LICENSE NUMBER 128195, DO HEREBY CERTIFY THAT THIS PLAT HAS BEEN GIVEN PROPER AND ADEQUATE ENGINEERING CONSIDERATION.

VICTOR H TREVIÑO, P.E.
 LICENSED PROFESSIONAL ENGINEER, TEXAS LIC. NO. 128195
 STATE OF TEXAS COUNTY OF HIDALGO
 BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED VICTOR H. TREVIÑO KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT, AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATIONS THEREIN STATED.



******* HIDALGO COUNTY DRAINAGE DISTRICT NO. 1 *******

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 TEXAS 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 AND HIS ENGINEER TO MAKE THEIR DETERMINATIONS.
 HIDALGO COUNTY DRAINAGE DISTRICT NO. 1
 RAUL E. SESIN, P.E., C.F.M. _____ DATE _____

******* SHARYLAND WATER SUPPLY CORPORATION *******

I, SHERILYN DAHLBERG, HEREBY CONDITIONALLY CERTIFY THAT POTABLE WATER SERVICE IS AVAILABLE FOR THE MORALES LAND SUBDIVISION LOCATED AT INTERSECTION OF 4 MILE LINE ROAD AND LOS EBANOS ROAD IN HIDALGO COUNTY, TEXAS. SUBJECT TO THE SUBDIVISION'S POTABLE WATER SYSTEM MEETING THE APPROVAL OF THE DEVELOPER'S DESIGN ENGINEER, ALL APPLICABLE RULES AND REGULATIONS OF SHARYLAND WATER SUPPLY CORPORATION, AND LOCAL, STATE, AND FEDERAL AGENCIES.
 DEVELOPER AND ITS DESIGN ENGINEER SHALL BEAR FULL RESPONSIBILITY TO ENSURE THAT THE ABOVE REFERENCED POTABLE WATER SYSTEM IS CONSTRUCTED WITHIN THE DESIGNATED SHARYLAND WATER SUPPLY CORPORATION EXCLUSIVE EASEMENT.
 SHERILYN DAHLBERG
 GENERAL MANAGER
 SHARYLAND WATER SUPPLY CORPORATION
 _____ DATE _____

******* UNITED IRRIGATION DISTRICT *******

THIS PLAT IS HEREBY APPROVED BY THE UNITED IRRIGATION DISTRICT ON THIS _____ DAY OF _____, 20____.
 NO IMPROVEMENTS OF ANY KIND (INCLUDING WITHOUT LIMITATION TREES, FENCES AND BUILDINGS) SHALL BE PLACED UPON UNITED IRRIGATION DISTRICT RIGHT OF WAYS OR EASEMENTS. APPROVAL OF THIS PLAT DOES NOT RELEASE ANY RIGHTS THAT THE DISTRICT MAY HAVE WHETHER SHOWN OR NOT.
 ATTEST: _____ PRESIDENT
 _____ SECRETARY

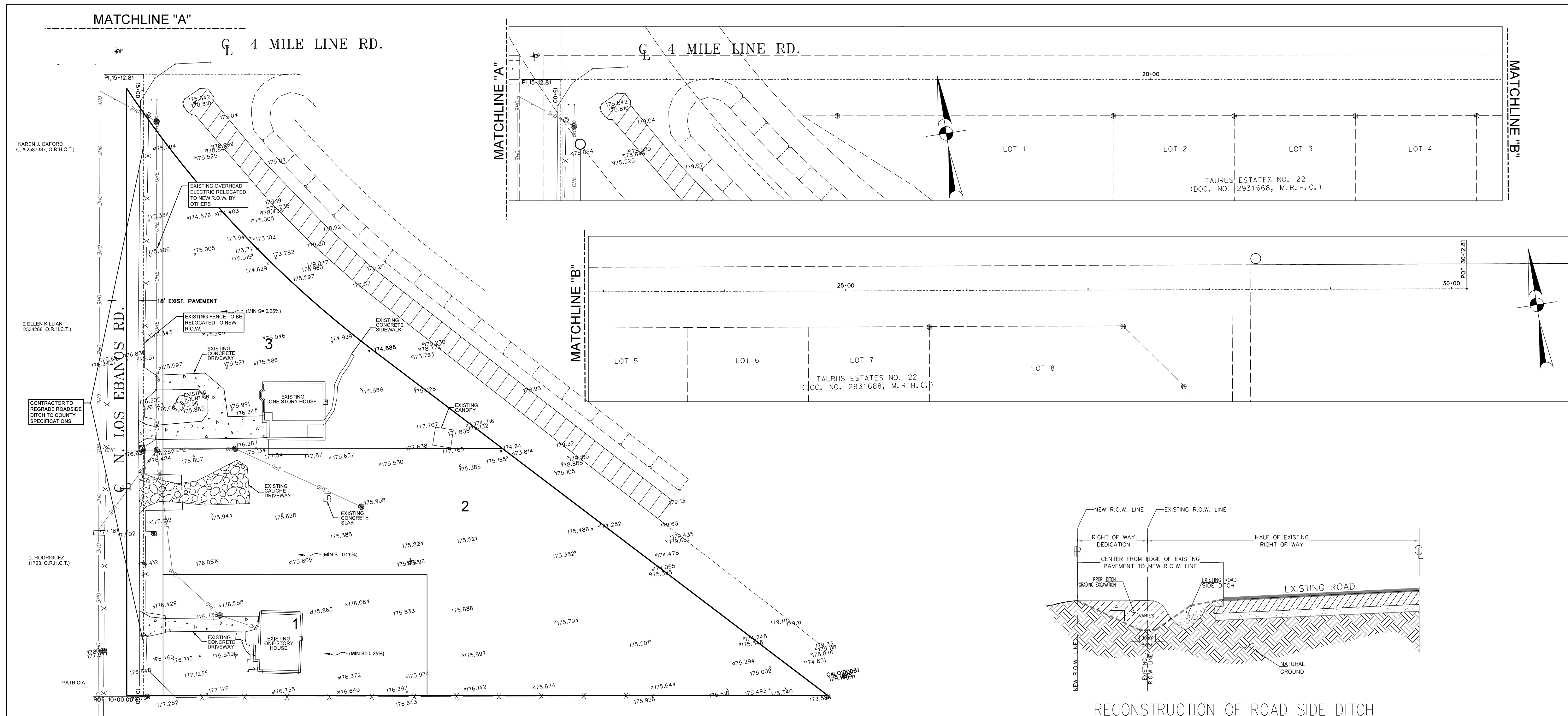
| REVISION NOTES | | | | |
|----------------|-------|----------|------|----------|
| No. | SHEET | REVISION | DATE | APPROVED |
| | | | | |
| | | | | |
| | | | | |

| PRINCIPAL CONTACTS | | | | | |
|--------------------|-----------------------------|-----------------------------|-----------------------|----------------|----------------|
| | NAME | ADDRESS | CITY & ZIP | PHONE | FAX |
| OWNER: | LUIS MANUEL MORALES | 5220 N. LOS EBANOS | MISSION, TEXAS 78573 | (956) 600-2314 | |
| ENGINEER: | VICTOR H. TREVIÑO, P.E. | 900 S. STEWART RD., STE. 13 | MISSION, TEXAS 78572 | (956) 424-3335 | (956) 424-3132 |
| SURVEYOR: | VICTOR H. TREVIÑO, R.P.L.S. | 900 S. STEWART RD., STE. 13 | EDINBURG, TEXAS 78539 | (956) 380-6152 | (956) 380-6083 |

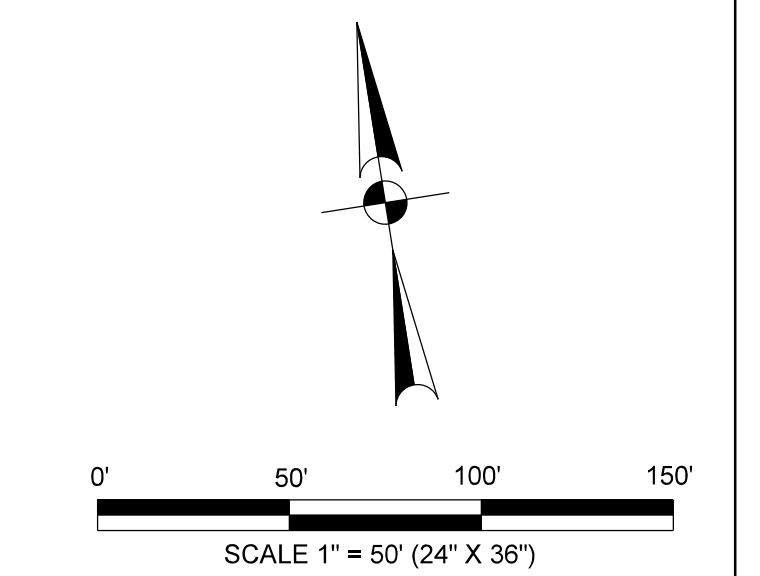
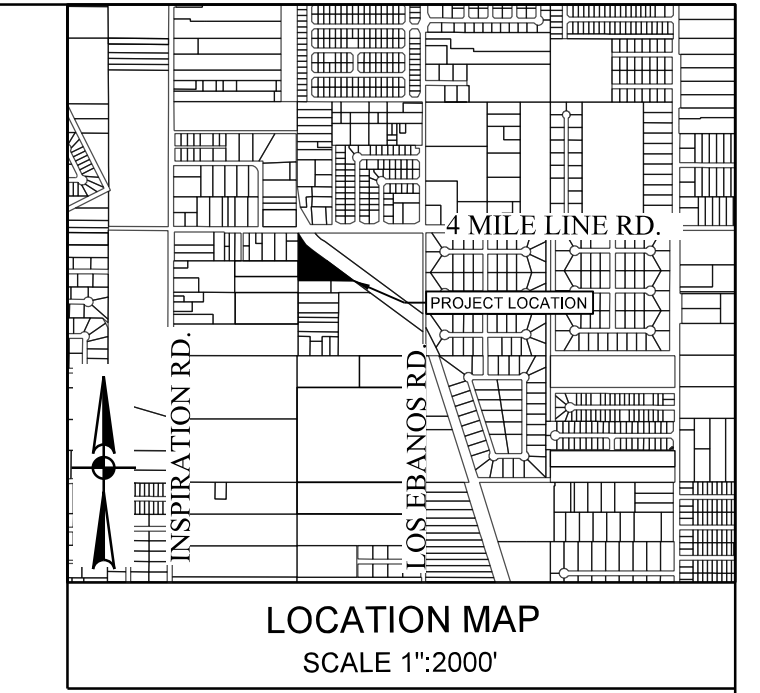
SOUTH TEXAS INFRASTRUCTURE GROUP
 900 S. STEWART RD., SUITE 13
 MISSION, TEXAS 78572
 PH: (956) 424-3335
 FAX: (956) 424-3132
 TBPE REG # 1500

FILED FOR RECORD IN HIDALGO COUNTY ARTURO GUJARDO, JR. HIDALGO COUNTY CLERK
 ON: _____ AT _____ AM/PM
 INSTRUMENT NUMBER _____ OF THE MAP RECORDS OF HIDALGO COUNTY, TEXAS
 BY: _____ DEPUTY

LOT LAYOUT
MORALES LAND SUBDIVISION
 A 3.00 ACRE TRACT OF LAND OUT OF LOT 36-2, WEST ADDITION TO SHARYLAND, HIDALGO COUNTY, TEXAS AS PER MAP THEREOF RECORDED VOLUME 1, PAGE 56, MAP RECORDS, HIDALGO COUNTY, TEXAS.



- LEGEND:**
- CHAIN LINK FENCE
 - SET # 5/8" IRON ROD WITH PLASTIC CAP STAMPED "ROWSS PROP. COR."
 - FOUND IRON ROD
 - WOOD FENCE
 - PROPOSED PAVEMENT
 - PROPOSED WATER METER
 - OVERHEAD ELECTRIC
 - PROPOSED CASING
 - FOR 8" WATERLINE= 16" STEEL CASING
 - FOR 2" WATER LINE= 3" PVC CASING
 - FOR 1" WATER LINE= 2" PVC CASING
 - PROPOSED STREET LIGHT
 - SOIL BORING LOCATION



DRAINAGE REPORT

PROJECT LOCATION
 MORALES SUBDIVISION IS A PROPOSED 2 LOT RESIDENTIAL SUBDIVISION LOCATED WITHIN THE CITY OF MISSION ET J. BEING A 3.01 ACRE TRACT OF LAND OUT LOT 36-2, WEST ADDITION TO SHARYLAND SUBDIVISION, HIDALGO COUNTY, TEXAS, ACCORDING TO THE MAP RECORDED IN VOLUME 1, PAGE 66, MAP RECORDS, HIDALGO COUNTY, TEXAS.

FLOOD PLAIN
 THE PROPERTY IS IN ZONE "C"; ZONE "C" ARE AREAS OF MINIMAL FLOODING; COMMUNITY PANEL NO. 480334 0400 C, REVISED NOVEMBER 16, 1982.

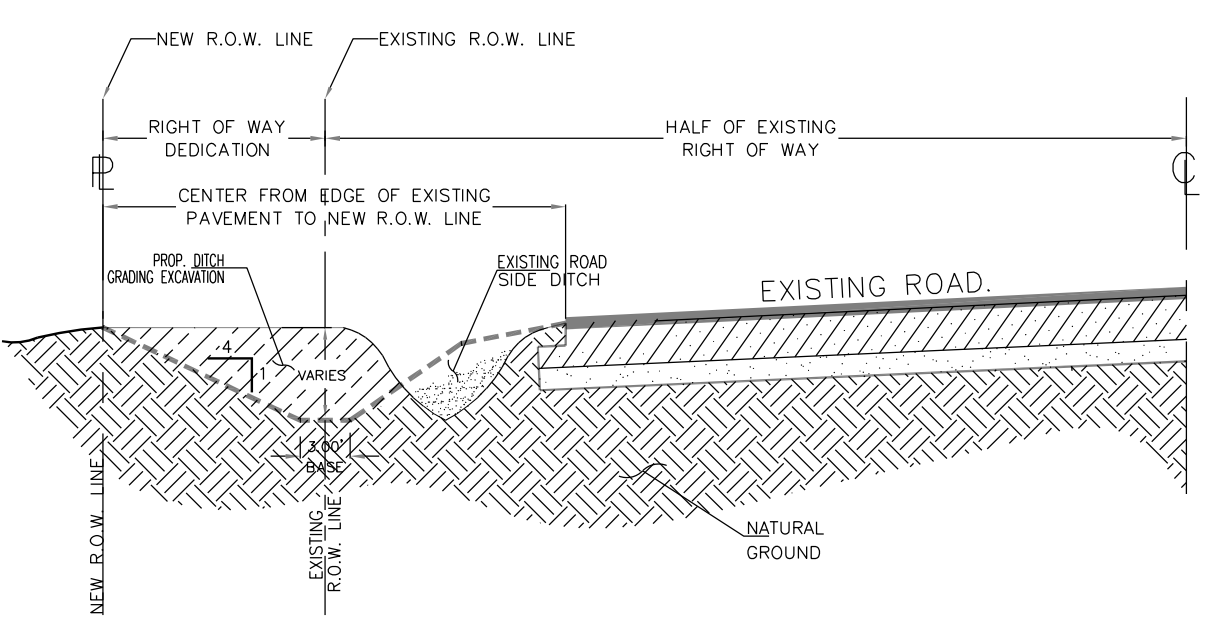
SOIL CONDITIONS
 ACCORDING TO THE SOIL SURVEY REPORT PREPARED FOR HIDALGO COUNTY BY THE U.S.D.A. SOIL CONSERVATION SERVICE, THE SITE CONSISTS OF 100% OF HIDALGO SANDY CLAY LOAM (28), WITH 0 TO 1 PERCENT SLOPE. THESE SOILS ARE WELL DRAINED, SURFACE RUNOFF IS NEGLIGIBLE, PERMEABILITY IS MODERATELY HIGH TO HIGH, AND THE WATER CAPACITY IS HIGH. THIS SOILS ARE LISTED IN HYDROLOGIC GROUP B. SEE APPENDIX C.

EXISTING CONDITIONS
 THE SUBJECT PROPERTY IS CURRENTLY UNDEVELOPED. TOPOGRAPHIC ELEVATIONS OBTAINED FROM THE SITE INDICATE THAT THE EXISTING TERRAIN HAS A SLIGHT GRADE IN AN EASTERLY DIRECTION TOWARDS A CANAL AND CONTINUING IN THE SAME TRAJECTORY AS THE CANAL. IN ACCORDANCE WITH THE DRAINAGE POLICIES OF THE CITY OF MISSION AND COUNTY OF HIDALGO, THE RATIONALE METHOD, 10-YEAR FREQUENCY STORM EVENT WAS UTILIZED TO DETERMINE THE EXISTING STORM WATER RUNOFF FOR THIS SITE. THE TOTAL CONTRIBUTING 10-YEAR EXISTING STORM WATER RUNOFF FROM THIS SITE IS APPROXIMATELY 3.88 CFS.

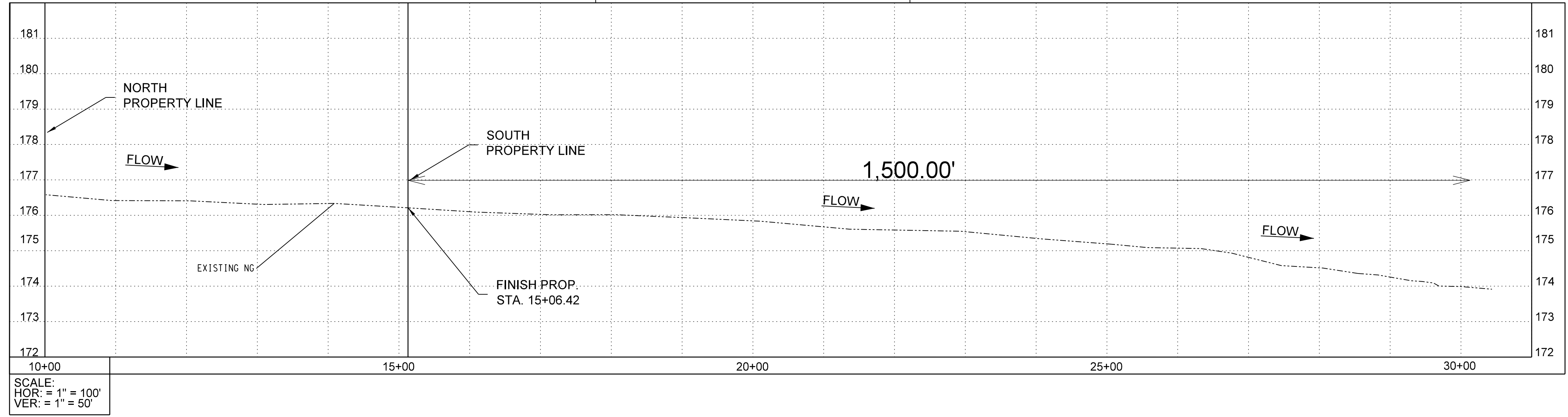
PROPOSED CONDITIONS
 IN ACCORDANCE WITH THE CITY OF MISSION AND COUNTY OF HIDALGO DRAINAGE POLICY, THE PEAK RATE FOR RUNOFF FOR THIS DEVELOPMENT WILL BE MITIGATED TO THE PROPOSED 50-YEAR STORM WATER RUNOFF. AS PER ATTACHED CALCULATIONS, THE PEAK RATE WILL BE 7.95 CFS, WHICH WILL GIVE US A NET INCREASE OF 4.07 CFS. FOR PROPOSED MORALES SUBDIVISION, WE HAVE CALCULATED THAT APPROXIMATELY A TOTAL OF 5,030 CFT OR 0.12 ACRE-FT. CURRENT RUNOFF WILL BE ACCOMMODATED IN THE EXISTING ROADSIDE DITCH.

THIS DOCUMENT IS FOR INTERIM REVIEW AND NOT INTENDED FOR CONSTRUCTION, OR PERMIT PURPOSES.

VICTOR H. TREVINO, P.E.
 LICENSED PROFESSIONAL ENGINEER, TEXAS LIC. NO. 128195



ROAD SIDE DITCH PROFILE



PRINCIPAL CONTACTS

| | NAME | ADDRESS | CITY & ZIP | PHONE | FAX |
|-----------|-----------------------------|-----------------------------|-----------------------|----------------|----------------|
| OWNER: | LUIS MANUEL MORALES | 5220 N. LOS EBANOS | MISSION, TEXAS 78573 | (956) 600-2314 | |
| ENGINEER: | VICTOR H. TREVINO, P.E. | 900 S. STEWART RD., STE. 13 | MISSION, TEXAS 78572 | (956) 424-3335 | (956) 424-3132 |
| SURVEYOR: | VICTOR H. TREVINO, R.P.L.S. | 921 S. 10TH AVE. | EDINBURG, TEXAS 78539 | (956) 380-6152 | (956) 380-6083 |

SOUTH TEXAS INFRASTRUCTURE GROUP

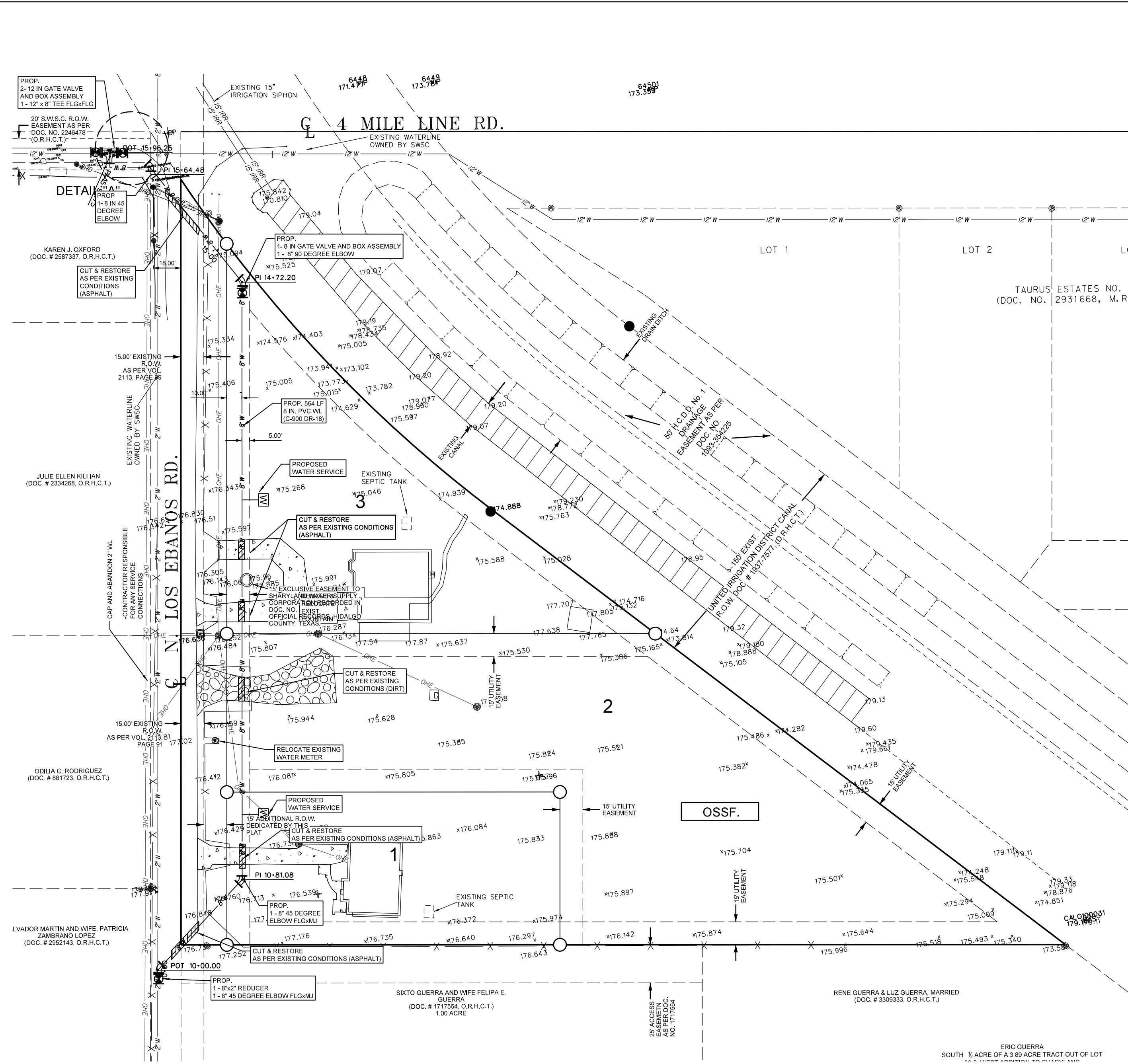
900 S. STEWART RD., SUITE 13
 MISSION, TEXAS 78572
 PH: (956) 424-3335
 FAX: (956) 424-3132
 TBPE REG. # 1500

DRAINAGE LAYOUT

MORALES LAND SUBDIVISION

A 3.00 ACRE TRACT OF LAND OUT OF LOT 36-2, WEST ADDITION TO SHARYLAND, HIDALGO COUNTY, TEXAS, AS PER MAP THEREOF RECORDED VOLUME 1, PAGE 66, MAP RECORDS, HIDALGO COUNTY, TEXAS.

SOUTH TEXAS INFRASTRUCTURE GROUP



WATER AND SEWER ENGINEERING REPORT

WATER SUPPLY (DESCRIPTION, COST, AND OPERABILITY DATE):

MORALES LAND SUBDIVISION WILL BE PROVIDED WITH POTABLE WATER BY SHARYLAND WATER SUPPLY CORPORATION (SWSC). THE SUBDIVIDER AND SWSC HAVE ENTERED INTO A CONTRACT IN WHICH SWSC HAS PROMISED TO PROVIDE SUFFICIENT WATER TO THE SUBDIVISION FOR AT LEAST 30 YEARS AND SWSC 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.

SWSC HAS A 2" EXISTING WATERLINE A RUNNING THROUGH THE NORTH RIGHT-OF-WAY OF LOS EBANOS RD

MORALES LAND SUBDIVISION HAS 3 LOTS. WATER DISTRIBUTION FOR MORALES LAND SUBDIVISION WILL CONSIST OF CONNECTING TO THE EXISTING 2" WATERLINE ON LOS EBANOS WITH A 8" X 2" REDUCER AND AN 8" 45 DEGREE ELBOW IN ORDER TO INSTALL AN 8" PVC WATERLINE, THEN CONTINUING ON THE 15' EXCLUSIVE EASEMENT DEDICATED TO SWSC, AND THEN TAP WITH A 2" FLUSH VALVE.

MORALES LAND SUBDIVISION WILL HAVE TWO (2) 1" DIAMETER SINGLE SERVICE SHORT LINES THAT RUN INTO THE LOTS, THE 8" LINE, THE 1" SINGLE SERVICE LINES AND THE METER BOXES HAVE ALREADY BEEN INSTALLED, AT A TOTAL COST OF \$_____ OR \$_____ PER LOT. IN ADDITION THE SUBDIVIDER HAS PAID AGUA SUD 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 AGUA SUD UPON REQUEST BY THE LOT OWNER. SWSC WILL PROMPTLY INSTALL AT NO CHARGE THE WATER METER FOR THAT LOT. THE ENTIRE WATER FACILITIES HAVE BEEN APPROVED AND ACCEPTED BY SWSC AND SAID DISTRIBUTION SYSTEM OPERABLE AS OF THE DATE OF THE RECORDING OF THE PLAT.

SEWAGE FACILITIES: DESCRIPTION, COSTS, AND OPERABILITY DATE

SEWAGE FROM

MORALES LAND SUBDIVISION WILL BE TREATED BY INDIVIDUAL ON-SITE SEWAGE FACILITIES ("OSSF") CONSISTING OF A STANDARD DESIGN DUAL COMPARTMENT SEPTIC TANK AND DRAIN FIELD ON LOT 2. THE UNDERSIGNED PROFESSIONAL ENGINEER HAS EVALUATED THE SUITABILITY OF THE SUBDIVISION SITE FOR OSSF AND SUBMITTED A REPORT CONCLUDING 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 REPLACEMENT DRAIN FIELD.

SOIL EVALUATION REPORT:

EACH LOT IN THE PROPOSED SUBDIVISION IS AT LEAST 1/2 ACRE IN SIZE. THE NATURAL RESOURCE CONSERVATION SERVICE SOIL SURVEY BOOK INDICATED A SANDY LOAM SOIL FOR THE AREA. AT LEAST TWO SOIL EXCAVATIONS WERE PERFORMED ON THE SITE, AT OPPOSITE AREAS OF THE SUBDIVISION, A TOTAL OF 14 SOIL BORING EXCAVATION WERE PERFORMED. (ADDITIONAL BORINGS WERE UNNECESSARY BECAUSE THE SOILS ARE VERY UNIFORM WITHIN THIS LIMIT AREA). THE SOIL IS A UNIFORM SANDY LOAM EXTENDING UP TO 30" 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 TO INSTALL A SEPTIC SYSTEM ON AN INDIVIDUAL LOT IS \$_____ INCLUDING THE COST FOR THE REQUIRED PERMIT AND LICENSE. ALL OSSF HAVE BEEN INSTALLED AS OF THE TIME OF APPLICATION FOR FINAL PLAT APPROVAL AT A TOTAL COST \$_____. THE HIDALGO COUNTY HEALTH DEPARTMENT HAS INSPECTED AND APPROVED THE INSTALLATION OF ONE OSSF ON _____.

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 COSTS TO INSTALL THE WATER AND THE UNCONSTRUCTED ON-SITE SEWAGE FACILITIES, DISCUSSED ABOVE, ARE AS FOLLOWS:

WATER FACILITIES- THESE FACILITIES FULLY CONSTRUCTED, WITH THE INSTALLATION OF WATER METERS, WILL COST A GRAND TOTAL OF \$_____

SEWAGE FACILITIES- SEPTIC SYSTEM IS ESTIMATED TO COST \$_____

THIS DOCUMENT IS FOR INTERIM REVIEW AND NOT INTENDED FOR CONSTRUCTION OR PERMIT PURPOSES.

VICTOR H. TREVINO, P.E. DATE _____
 LICENSED PROFESSIONAL ENGINEER, TEXAS LIC. NO. 128195

REPORTE DE INGENIERIA DE AGUA Y DRENAJE

WATER SUPPLY (DESCRIPCION, GASTOS Y FECHAS DE INICIO):

LA SUBDIVISION MORALES LAND RECIBIRA SU PROVISION DE AGUA DE SHARYLAND WATER SUPPLY CORPORATION (SWSC). EL DUEÑO DE LA SUBDIVISION Y AGUA SUD HAN FIRMADO UN CONTRATO POR EL CUAL LA SUBDIVISION RECIBIRÁ SU PROVISION DE AGUA POR LOS PROXIMOS 30 AÑOS. SWSC HA PRESENTADO DOCUMENTACION PARA DEMOSTRAR A LARGO PLAZO LA CANTIDAD Y CALIDAD DE AGUA ACCESIBLE PARA SERVIR EL FUTURO DESARROLLO DE LA SUBDIVISION.

SWSC TIENE UNA LINEA DE AGUA EXISTENTE DE 2" QUE CORRE POR SUR DEL NORTE DE VIA DE LA CALLE LOS EBANOS.

LA SUBDIVISION MORALES LAND TIENE 3 LOTES. LA DISTRIBUCION DE AGUA PARA LA SUBDIVISION SERA CONECTARSE A LA LINEA EXISTENTE CON UN REDUCTOR DE 8" X 2" CON UN CODIGO DE 8" DE 45 GRADOS, PARA PODER INSTALAR LA LINEA DE 8" EN EL ASENTAMIENTO DE 15' EXCLUSIVO DE SWSC DONDE CORRERA LA LINEA DE 8", AL FINAL SE CERRARA CON UNA VALVULA DE 2".

LA SUBDIVISION MORALES LAND TENDRA DOS (2) SERVICIOS SENCILLOS CORTOS DE 1" DE DIAMETRO. SE HAN INSTALADO YA LA LINEA DE 8", LOS SERVICIOS DE 1" Y LAS CAJAS DE LOS MEDIDORES A UN COSTO TOTAL DE \$_____ O \$_____ POR LOTE. EL DUEÑO/REPRESENTANTE DE LA SUBDIVISION LE HA PAGADO A SWSC LA CANTIDAD DE \$_____ QUE CUBRE EL COSTO DE LOS MEDIDORES (\$_____ POR CADA LOTE). ESTE PRECIO INCLUYE TAMBIEN EL COSTO DE LA INSTALACION DE CADA MEDIDOR Y LOS GASTOS DE CONEXION CUANDO EL DUEÑO DE ALGUNO DE LOS LOTES SOLICITE UN MEDIDOR DE AGUA. AGUA SUD LO INSTALARA SIN COSTO ALGUNO. EL SISTEMA DE AGUA ESTARA EN FUNCIONAMIENTO COMPLETO ANTES O EN LA FECHA EN LA CUAL LA SUBDIVISION SEA REGISTRADA EN EL CODONADO DE HIDALGO.

DRENAJE: DESCRIPCION, GASTOS Y FECHA DE INICIO PARA FACILITAR EL DRENAJE PARA LA SUBDIVISION

SE INSTALARA UNA FOSA SÉPTICA EN CADA SOLAR. ESTA FOSA SÉPTICA CONSISTE DE UN TANQUE SÉPTICO DE MODELO DUAL Y DE UN CAMPO DE DRENAJE PARA EL SOLAR. EL INGENIERO AUTOR DE ESTE DOCUMENTO HA EVALUADO EL ÁREA DONDE SE ENCUENTRA LA SUBDIVISION Y HA PREPARADO UN REPORTE QUE CONCLUYE QUE ESTE TERRENO ES ADECUADO PARA ESAS FOSAS SÉPTICAS (OSSF). EL REPORTE FUE APROBADO POR EL DEPARTAMENTO DE SALUBRIDAD DEL CONDADO DE HIDALGO (HIDALGO COUNTY HEALTH DEPARTMENT) SEGUN EL REPORTE.

REPORTE DE EVALUACION DE SUELO:

CADA LOTE EN LA SUBDIVISION PROPUESTA MIDE MÁS DE MEDIO ACRE. SE HICIERON DOS EXCAVACIONES DE EVALUACION EN LUGARES OPUESTOS DE LA SUBDIVISION. UN TOTAL DE 14 EXCAVACIONES DE EVALUACION FUERON REALIZADAS. (EXCAVACIONES ADICIONALES NO FUERON NECESARIAS PORQUE EL TERRENO EN ESTA AREA ES SIGNIFICANTEMENTE UNIFORME). EL TERRENO ES UNIFORME (TERRENO ARCILOSO Y SUELO FRANCO) Y SE EXTIENDE A 36 PULGADAS BAJO TODAS LAS EXCAVACIONES PROPUESTAS. NO EXISTE EVIDENCIA DE AGUA 24 PULGADAS MÁS ARRIBA DE LO MÁS BAJO DE LAS EXCAVACIONES PROPUESTAS. EL AGUA EN ESTA AREA FLUYE BIEN.

EL COSTO TOTAL PARA LA INSTALACION DE UN SISTEMA INDIVIDUAL DE FOSA SÉPTICA ES DE \$_____ DÓLARES, INCLUYENDO EL COSTO DEL PERMISO REQUERIDO Y LICENCIA. EN ESTOS MOMENTOS TODAS LAS FOSAS SÉPTICAS HAN SIDO INSTALADAS EN EL PROCESO DE LA APROBACION FINAL A UN COSTO TOTAL DE \$_____. EL DEPARTAMENTO DE SALUBRIDAD DEL CONDADO DE HIDALGO HA INSPECCIONADO Y HA APROBADO LA INSTALACION DE LA FOSA SÉPTICA DESDE _____.

CERTIFICACION:

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

AGUA- EL SISTEMA/SERVICIO DE AGUA SERÁ INSTALADO Y COMPLETAMENTE CONSTRUIDO MENOS EL MEDIDOR MECÁNICO DE AGUA QUE COSTAR UN TOTAL DE \$_____

DRENAJE- SE ESTIMA QUE LA FOSA SÉPTICA COSTARA \$_____

THIS DOCUMENT IS FOR INTERIM REVIEW AND NOT INTENDED FOR CONSTRUCTION OR PERMIT PURPOSES.

VICTOR H. TREVINO, P.E. DATE _____
 LICENSED PROFESSIONAL ENGINEER, TEXAS LIC. NO. 128195

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-WE, LUIS MANUEL MORALES SUBDIVIDER FOR MORALES LAND SUBDIVISION HEREBY CERTIFY SEWER PERMITS, AS APPLICABLE, HAVE BEEN PAID AND COPIES OF RECEIPTS ARE ON FILE WITH THE 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 HAVE ADEQUATE WATER TO COMPLY WITH THE REGULATIONS AND THE LAWS OF THE STATE AS REQUIRED BY STATE AND COUNTY REGULATIONS

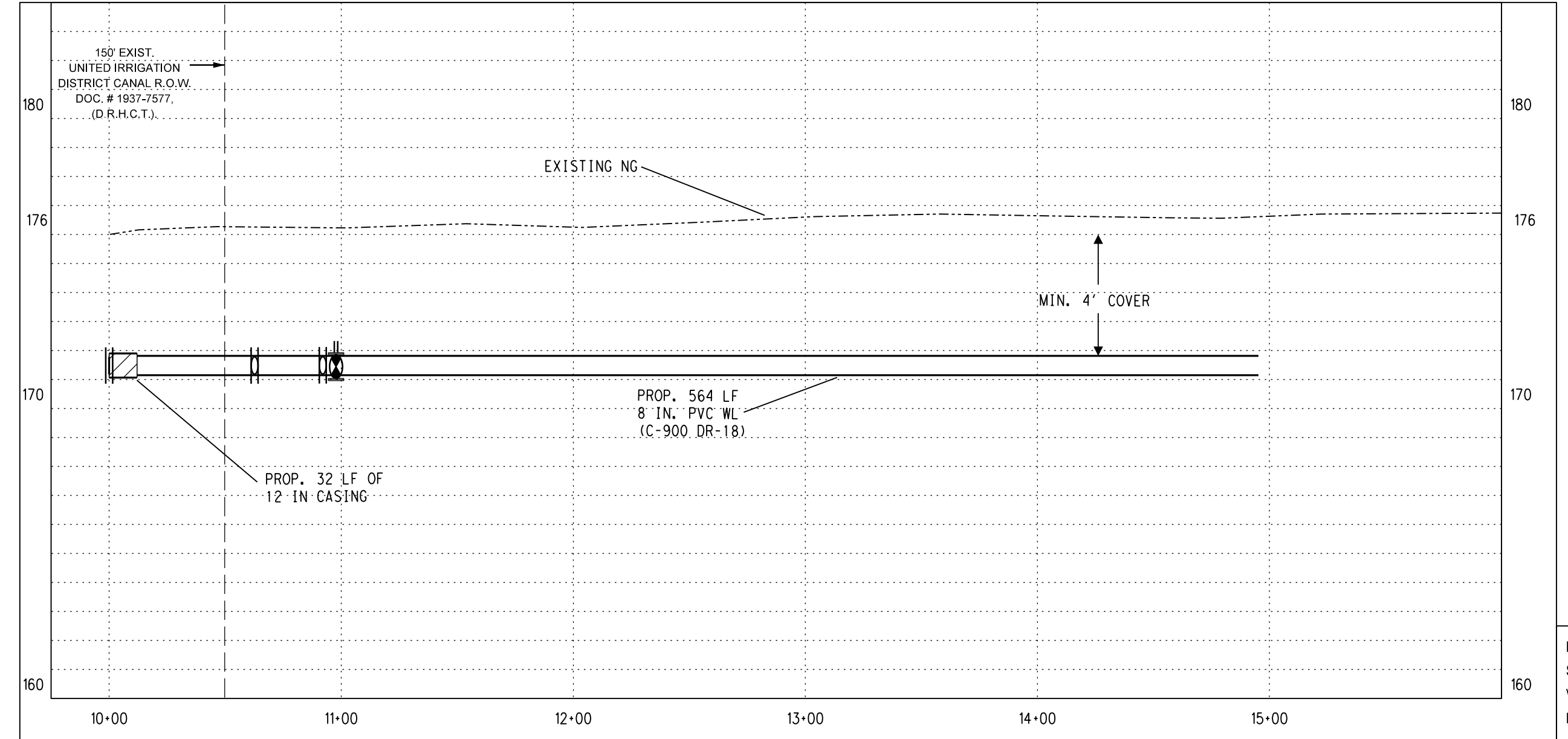
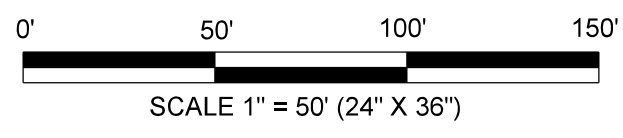
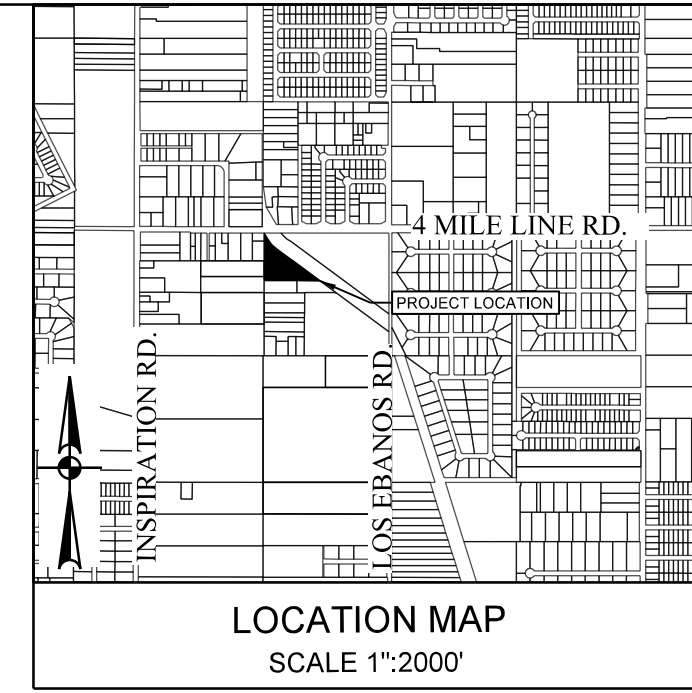
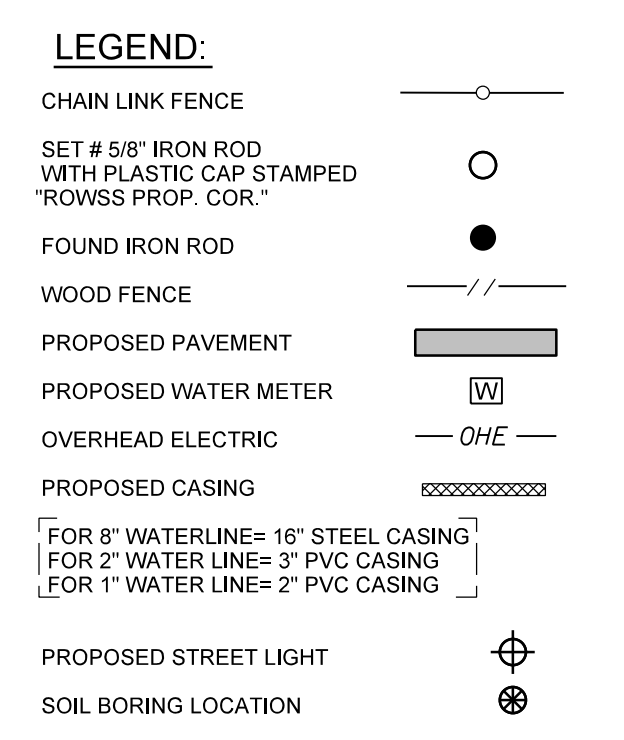
LUIS MANUEL MORALES DATE _____

STATE OF TEXAS COUNTY OF HIDALGO

BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED LUIS MANUEL MORALES KNOWN TO ME TO BE THE PERSONS WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT, AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATIONS THEREIN STATED.

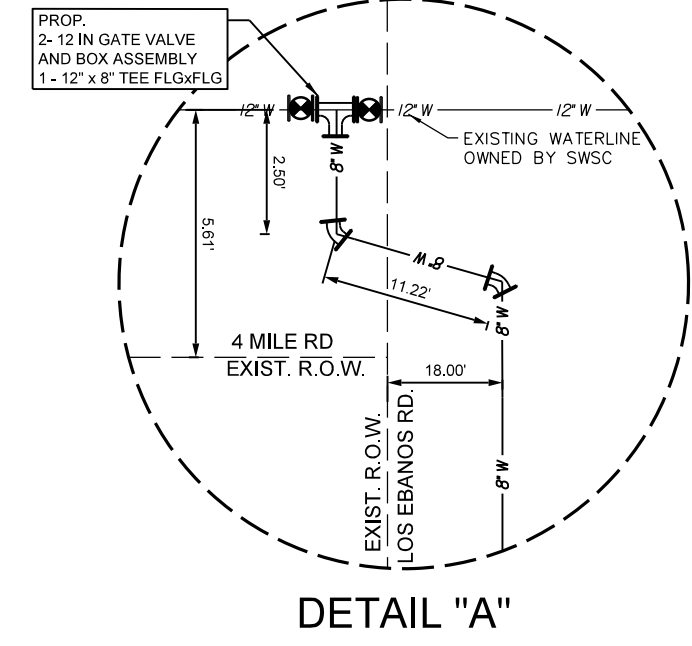
GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS ____ DAY OF _____

 NOTARY PUBLIC



PROFILE VIEW FITTINGS

| DESCRIPTION | SHAPES |
|------------------------------------|--------|
| WATER VALVE | |
| TEE | |
| ELBOW AND FH | |
| ELBOW CROSSING 12" CASING 12" PIPE | |
| ELBOW CROSSING 16" CASING 8" PIPE | |



VICTOR H. TREVINO, P.E. DATE 11/07/2023
 LICENSED PROFESSIONAL ENGINEER, TEXAS LIC. NO. 128195

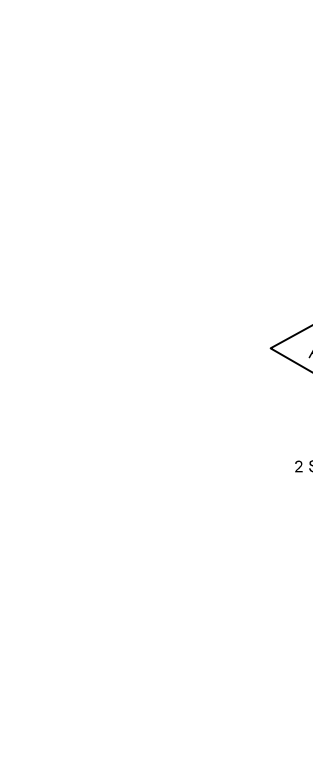
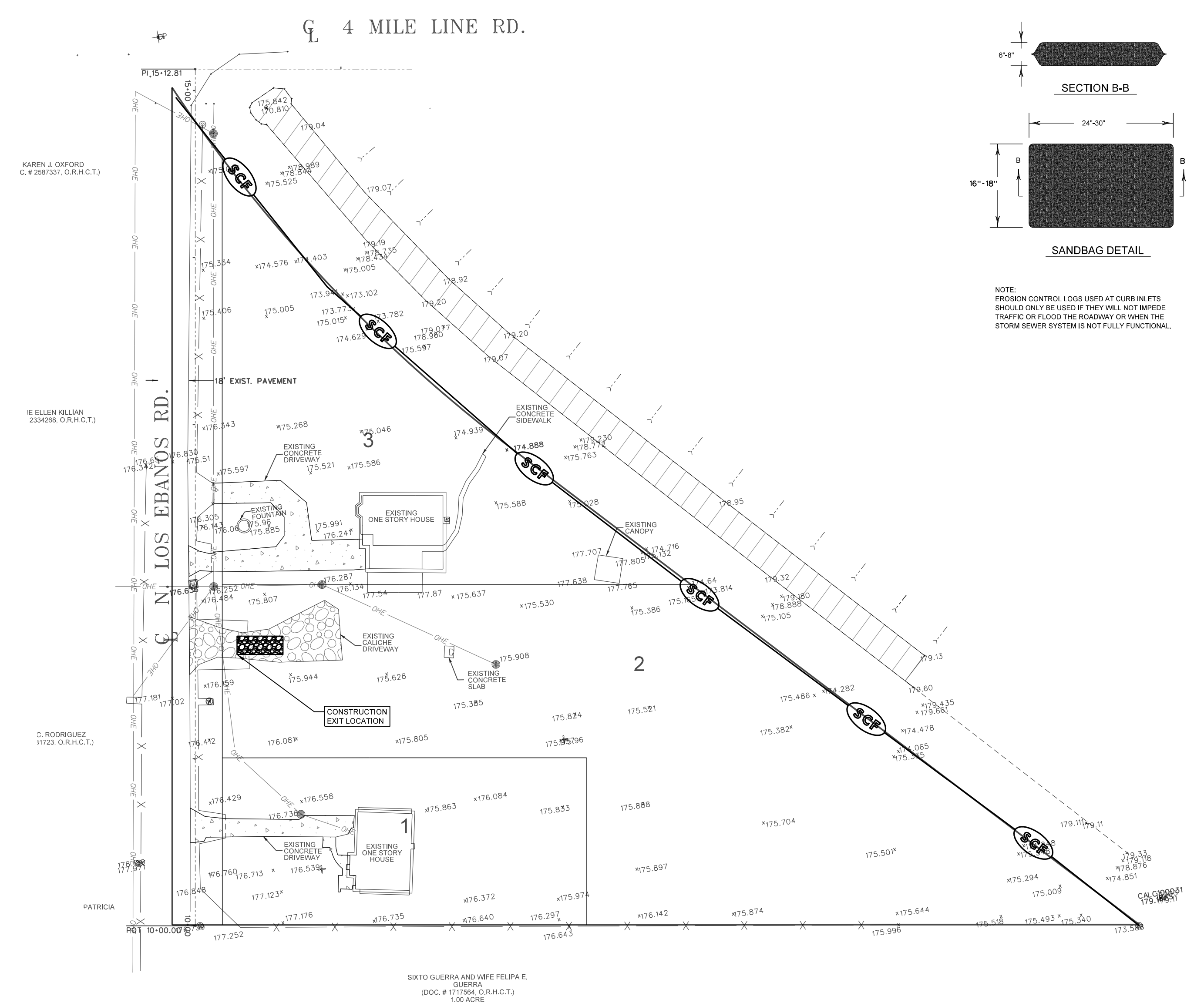
PRINCIPAL CONTACTS

| | NAME | ADDRESS | CITY & ZIP | PHONE | FAX |
|-----------|-----------------------------|-----------------------------|-----------------------|----------------|----------------|
| OWNER: | LUIS MANUEL MORALES | 5220 N. LOS EBANOS | MISSION, TEXAS 78573 | (956) 600-2314 | |
| ENGINEER: | VICTOR H. TREVINO, P.E. | 900 S. STEWART RD., STE. 13 | MISSION, TEXAS 78572 | (956) 424-3335 | (956) 424-3132 |
| SURVEYOR: | VICTOR H. TREVINO, R.P.L.S. | 921 S. 10TH AVE. | EDINBURG, TEXAS 78539 | (956) 380-6152 | (956) 380-6083 |

SOUTH TEXAS INFRASTRUCTURE GROUP
 900 S. STEWART RD., SUITE 13
 MISSION, TEXAS 78572
 PH: (956) 424-3335
 FAX: (956) 424-3132
 TBPE REG # 1500

UTILITY LAYOUT
MORALES LAND SUBDIVISION

A 3.00 ACRE TRACT OF LAND OUT OF LOT 36-2, WEST ADDITION TO SHARYLAND, HIDALGO COUNTY, TEXAS, AS PER MAP THEREOF RECORDED VOLUME 1 PAGE 26, MAP RECORDS, HIDALGO COUNTY, TEXAS

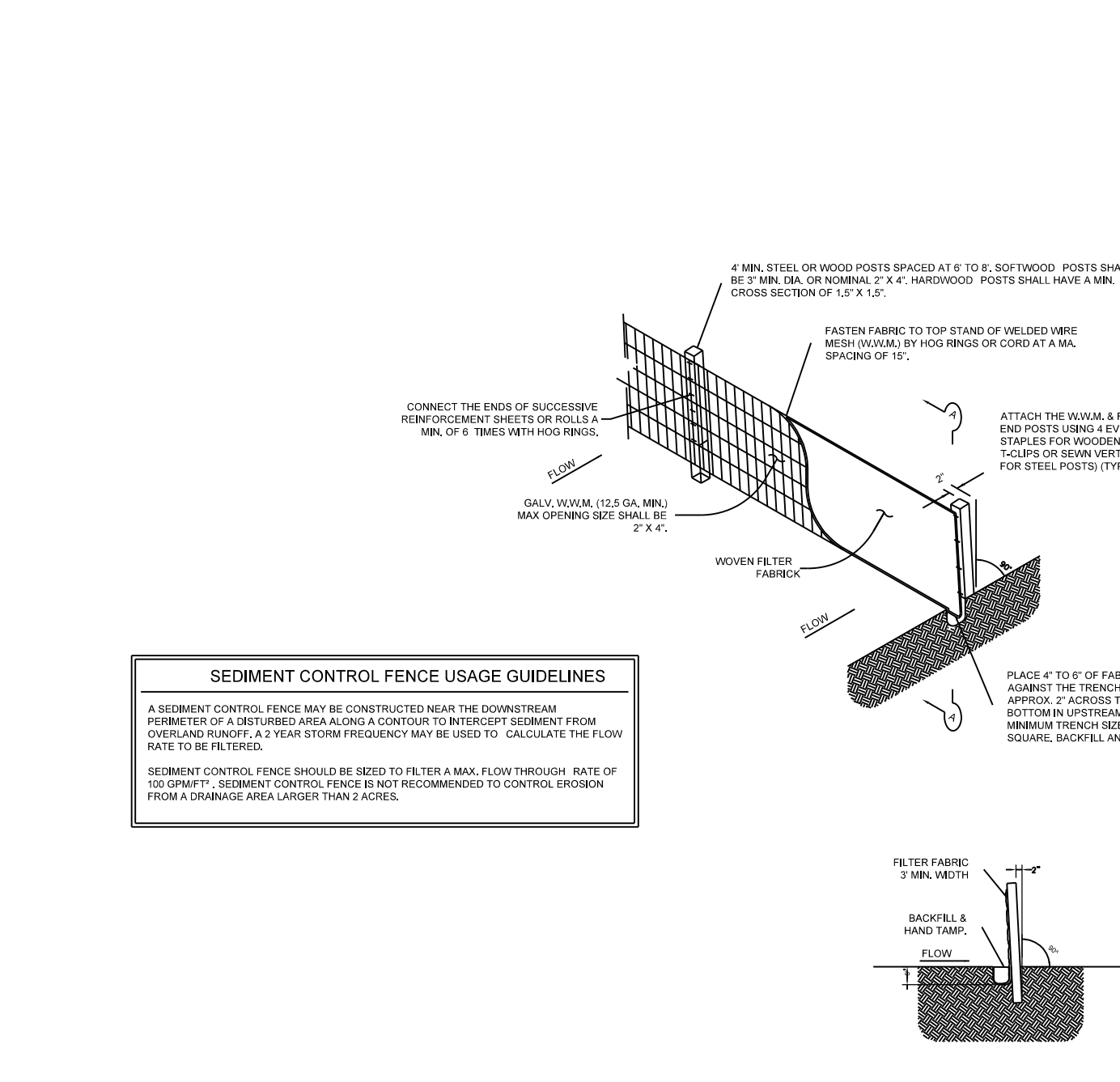


NOTE: EROSION CONTROL LOGS USED AT CURB INLETS SHOULD ONLY BE USED IF THEY WILL NOT IMPERE TRAFFIC OR FLOOD THE ROADWAY OR WHEN THE STORM SEWER SYSTEM IS NOT FULLY FUNCTIONAL.



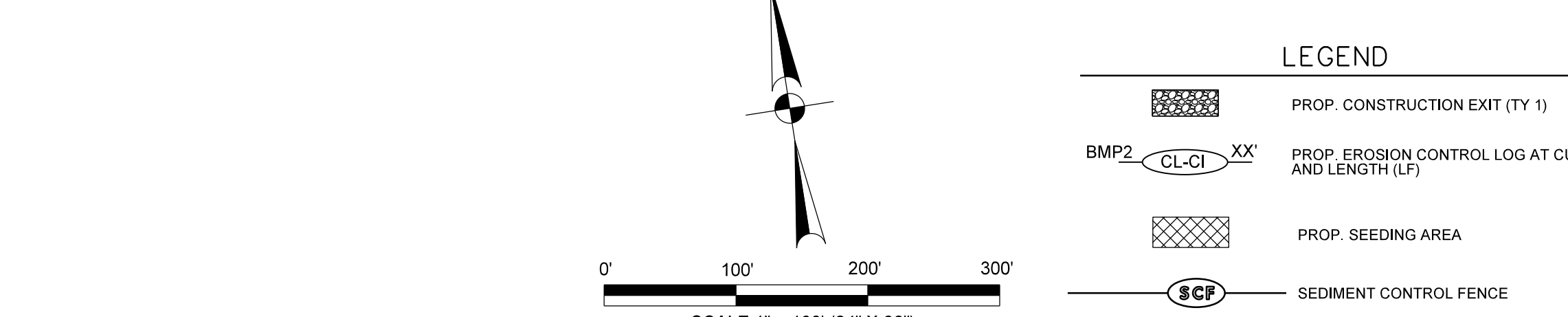
VICTOR H. TREVINO, P.E.
LICENSED PROFESSIONAL ENGINEER, TEXAS LIC. NO. 128195

04/06/2023



SEDIMENT CONTROL FENCE USAGE GUIDELINES
A SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA AS A COUNTER TO INTERCEPT SEDIMENT FROM OVERLAND FLOW. AS A YEAR-TO-YEAR PRECAUTION, IT MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED.
SEDIMENT CONTROL FENCES SHOULD BE DESIGNED TO FILTER THE MAXIMUM FLOW THROUGH THE RATE OF FLOW. SEDIMENT CONTROL FENCES ARE NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA LARGER THAN 1 ACRE.

GENERAL NOTES (TYPE 1)
1. The length of the type 1 construction exit shall be as indicated on the plans, but not less than 20'.
2. The coarse aggregate should be open graded with a size of 4" to 8".
3. The approach transitions should be no steeper than 6:1 and constructed as directed by the Engineer.
4. The construction exit foundation course shall be flexible base minimum concrete, portland cement concrete or other materials approved by the Engineer.
5. The construction exit shall be graded to allow drainage to a sediment trapping device.
6. The guidelines shown hereon are suggestions only and may be modified by the Engineer.
7. Construct exits with a width of at least 14 ft. for one-way and 20 ft. for two-way traffic for the full width of the exit, or as directed by the engineer.



SCALE 1" = 100' (24" X 36")

| SITE DESCRIPTION | |
|---|--|
| PROJECT LOCATION: 4 MILE RD AND LOS EBANOS RD, INTERSECTION | TOTAL PROJECT AREA: 3.0 ACRES |
| PROJECT SITE MAPS: | TOTAL AREA TO BE DISTURBED: 3.0 ACRES (100%) |
| WEIGHTED RUNOFF COEFFICIENT: BEFORE CONSTRUCTION - 0.38 CFS AFTER CONSTRUCTION - 0.29 CFS | |
| EXISTING CONDITION OF SOIL & VEGETATION: ACCORDING TO THE SOIL SURVEY REPORT PREPARED FOR HIDALGO COUNTY BY THE U.S.D.A. SOIL CONSERVATION SERVICE, THE SITE CONSISTS OF 80% OF HIDALGO SANDY CLAY LOAM (SCL) WITH 0 TO 10 PERCENT SLOPE. THESE SOILS ARE WELL DRAINAGE. SURFACE RUNOFF IS NECESSARY. PERMEABILITY IS MODERATELY HIGH TO HIGH, AND THE WATER CAPACITY IS HIGH. HIDALGO COUNTY'S EXISTING RETENTION POND WHICH IS RELEASED AT A CONTROLLED RATE BY THE COUNTY. | |
| PROJECT DESCRIPTION: MORALES SUBDIVISION IS A PROPOSED 1 LOT RESIDENTIAL SUBDIVISION LOCATED WITHIN THE CITY OF MISSION, TX. | |
| MAJOR SOIL DISTURBING ACTIVITIES: SOIL DISTURBING ACTIVITIES WILL INCLUDE PREPARING THE RIGHT-OF-WAY, EXCAVATION AND EMBANKMENT FOR THE ROADWAY, INSTALLATION OF PROPOSED STORM SEWER SYSTEM AND ESTABLISHMENT OF FINAL SEEDING. | |
| DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITY HAS OCCURRED (TEMPORARILY OR PERMANENTLY) SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITIES ARE SCHEDULED TO RESUME AND GO WITHIN 21 DAYS. FINAL SEEDING SHOULD BE ACCOMPLISHED ON ALL AREAS AS SOON AS CONSTRUCTION STAGE IS COMPLETE. | |
| ENDANGERED SPECIES, DESIGNATED CRITICAL HABITAT AND HISTORICAL PROPERTY: NO DESIGNATED CRITICAL HABITAT OR HISTORICAL PROPERTIES HAVE BEEN FOUND ON THIS PROJECT SITE. NO IMPACTS TO THE SPECIES IS ANTICIPATED. | |
| THE DOCUMENTATION SATISFYING THE CONSTRUCTION GENERAL PERMIT ELIGIBILITY PERTAINING TO THE EXISTENCE OR OF ANY PROTECTIVE ACTION TAKEN WITH REGARDS TO ENDANGERED SPECIES OR DESIGNATED CRITICAL HABITAT OR HISTORICAL PROPERTY IN THIS PROJECT AREA IS CONTAINED IN THE PROJECT'S PHASE I ENVIRONMENTAL SITE ASSESSMENT AND CAN BE VIEWED AT THE ADDRESS SHOWN BELOW: HIDALGO COUNTY PRECINCT #4 501 N. DODDVILLE RD. EDINBURG, TX 78542 PHONE: 956-383-5102 | |

- EROSION AND SEDIMENT CONTROLS**
- SOL STABILIZATION PRACTICES (SELECT T - TEMPORARY OR P - PERMANENT, AS APPLICABLE)
- TEMPORARY SEEDING
 - MULCHING (Hay or Straw)
 - BUFFER ZONES
 - PLANTING
 - P. SEEDING
 - SODDING
 - OTHER (Specify Practice)
 - PRESERVATION OF NATURAL RESOURCES
 - FLEXIBLE CHANNEL LINER
 - RIGID CHANNEL LINER
 - SOIL RETENTION BLANKET
 - BIODEGRADABLE EROSION CONTROL LOGS
 - CONTROL SOCKS
- STRUCTURAL PRACTICES (SELECT T - TEMPORARY OR P - PERMANENT, AS APPLICABLE)
- T. SILT FENCES
 - BIODEGRADABLE EROSION CONTROL SOCKS
 - HAY BALES
 - ROCK FILTER DAMS
 - DIVERSION, INTERCEPTOR, OR PERMETER DIKES
 - DIVERSION DIKE AND SWALE COMBINATIONS
 - PIPE SLOPE DRAINS
 - PAVED FLUMES
 - ROCK BEDDING AT CONSTRUCTION EXIT
 - TIMBER MATTING AT CONSTRUCTION EXIT
 - CHANNEL LINERS
 - SEDIMENT TRAPS
 - SEDIMENT BASINS
 - T. STORM INLET SEDIMENT TRAP
 - STONE OUTLET STRUCTURES
 - P. CURBS AND GUTTERS
 - P. STORM SEWERS
 - VELOCITY CONTROL DEVICES
 - OTHER (Specify Practice)
- STORM WATER MANAGEMENT:
STORM WATER DRAINAGE WILL BE PROVIDED BY A PROPOSED STORM DRAIN SYSTEM OUTFALLING INTO A HIDALGO COUNTY DRAINAGE DISTRICT NO. 10 RETENTION BASIN.
- STORM WATER MANAGEMENT ACTIVITIES (SEQUENCE OF CONSTRUCTION)
- THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:
1. INSTALL PERMETER CONTROLS, SLEAK P.O.W. WHERE CONSTRUCTION WILL TAKE PLACE.
2. INSTALL PROPOSED INLETS, PIPES, AND INITIAL BIODEGRADABLE EROSION CONTROL LOGS ALONG PROJECT.
3. CONSTRUCT PROPOSED DRAINAGE AS SHOWN ON TOP PLAN AND PROFILE SHEETS, AND PROPOSED TYPICAL SECTIONS.
4. ONCE ALL CONSTRUCTION ACTIVITY IS COMPLETE, PERMANENT SEEDING ON PROPOSED AREAS SHALL BE DONE ACCORDING TO PLANS OR AS INSTRUCTED BY THE ENGINEER.
- NON-STORM WATER MANAGEMENT DISCHARGES:
NON-STORM WATER DISCHARGES SHOULD BE FILTERED, OR HELD IN RETENTION BASINS, BEFORE BEING ALLOWED TO MIX WITH STORM WATER. THESE DISCHARGES CONSIST OF UNPOLLUTED GROUND WATER, SPRING WATER, FOUNTAIN AND/OR FOOTING DRAIN WATER, AND WATER USED FOR DUST CONTROL, PAVEMENT WASHING AND VEHICLE WASH WATER CONTAINING NO DETERGENTS.

- OTHER REQUIREMENTS & PRACTICES**
- OTHER EROSION AND SEDIMENT CONTROLS:
MAINTENANCE: ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN 7 CALENDAR DAYS AFTER THE SURROUNDING EXPOSED GROUND HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT. THE AREAS SUBJECT TO CREEKS AND DRAINAGE WELLS SHALL HAVE PRIORITY FOLLOWED BY DEVICES PROTECTING STORM SEWER INLETS.
- INSPECTION: AN INSPECTION WILL BE PERFORMED BY A COUNTY REPRESENTATIVE EVERY 14 CALENDAR DAYS AS WELL AS AFTER EVERY HALF HOUR OR MORE OF RAIN HAS RECORDED ON A NON-FREEZING RAIN GAUGE TO BE LOCATED AT THE PROJECT SITE. AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER EACH INSPECTION, BASED ON THE INSPECTION RESULTS, THE CONTROLS SHALL BE REVISED PER THE INSPECTION REPORT.
- WASTE MATERIALS: ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LINED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL STATE AND LOCAL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION AND THE TRASH WILL BE HAULED TO A LOCAL DUMP. NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE.
- HAZARDOUS WASTE (INCLUDING SPILL REPORTING): AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES TO BE HAZARDOUS: PAINTS, ACIDS FOR CLEANING, WASHING SURFACES, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADHESIVES FOR SOIL STABILIZATION, OR CONCRETE CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE SPILL COORDINATOR SHALL BE CONTACTED IMMEDIATELY. EMPTYING OF EXCESS CONCRETE SHOULD NOT BE ALLOWED ON SITE. EXCESS WASHWATER OF CONCRETE TRUCKS SHOULD NOT BE PERFORMED ON SITE. THESE DISCHARGES ARE CONSIDERED NON-ALLOWABLE NON-STORM WATER DISCHARGES. CONCRETE TRUCKS SHOULD NEVER BE ALLOWED TO DUMP INTO STORM DRAINS OR SANITARY SEWERS.
- SANITARY WASTE: ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.
- OFF-SITE VEHICLE TRACKING: THE CONTRACTOR SHALL BE REQUIRED, ON A REGULAR BASIS OR AS DIRECTED BY THE ENGINEER, TO DUMP TRAIL RIGS FOR DUST CONTROL, STABILIZE CONSTRUCTION ENTRANCES, AND TO REMOVE EXCESS DIRT FROM THE ROADWAY.
- MANAGEMENT PRACTICES:
1. DISPOSAL AREAS, STOCKPILES, AND DIRT ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY RET. LAND, WATER, BOX, OR STORM BASIN.
2. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RISK OF POLLUTANTS.
3. ALL WATERSHEDS SHALL BE CLEARED AS SOON AS PRACTICAL OF TEMPORARY EMBANKMENT, TEMPORARY BRIDGES, MATTING, FALSE WORK, PILING, OR DEBRIS OR OTHER OBSTRUCTIONS. EXCESS DIRT DURING CONSTRUCTION OPERATIONS THAT ARE NOT A PART OF THE FINISHED WORK.
4. THIS PLAN IS A WORKING DOCUMENT AND MUST BE KEPT CURRENT IN ORDER TO COMPLY WITH EPA STANDARDS.
- OTHER:
1. CONSTRUCTION MATERIALS STORED ON SITE TO BE PROVIDED BY PROJECT FIELD OFFICE.
2. THE PROJECT SWP FILE LOCATED AT THE COUNTY OFFICE SHALL CONTAIN THE A.D.I., CSP COVERAGE NOTICE, EPA IMPACTS FORM, SIGNATURE AUTHORIZATION, CERTIFICATION/QUALIFICATION STATEMENTS, INSPECTION REPORTS, REQUIRED MAPS, AND THE NPDES PERMIT, PART II.

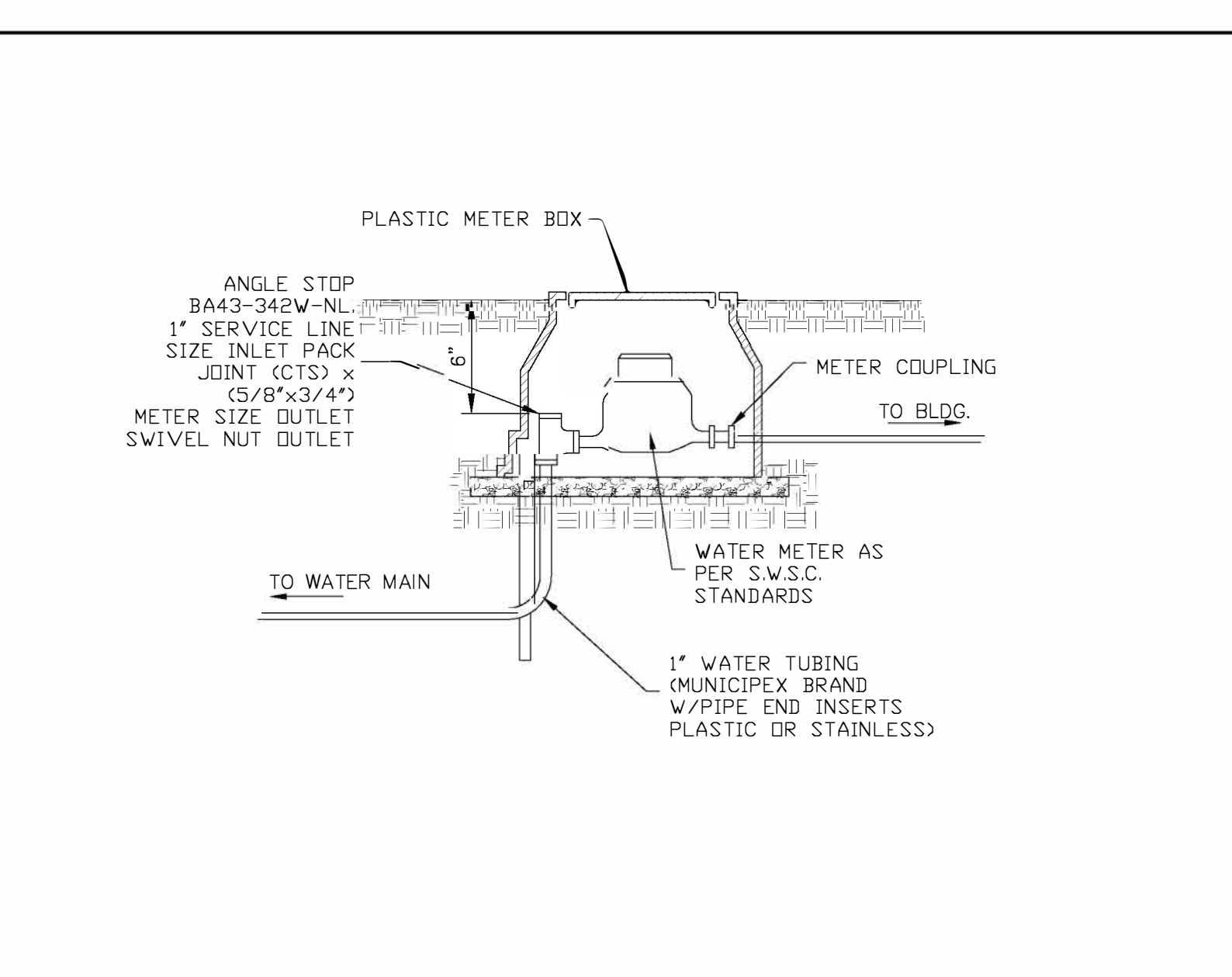
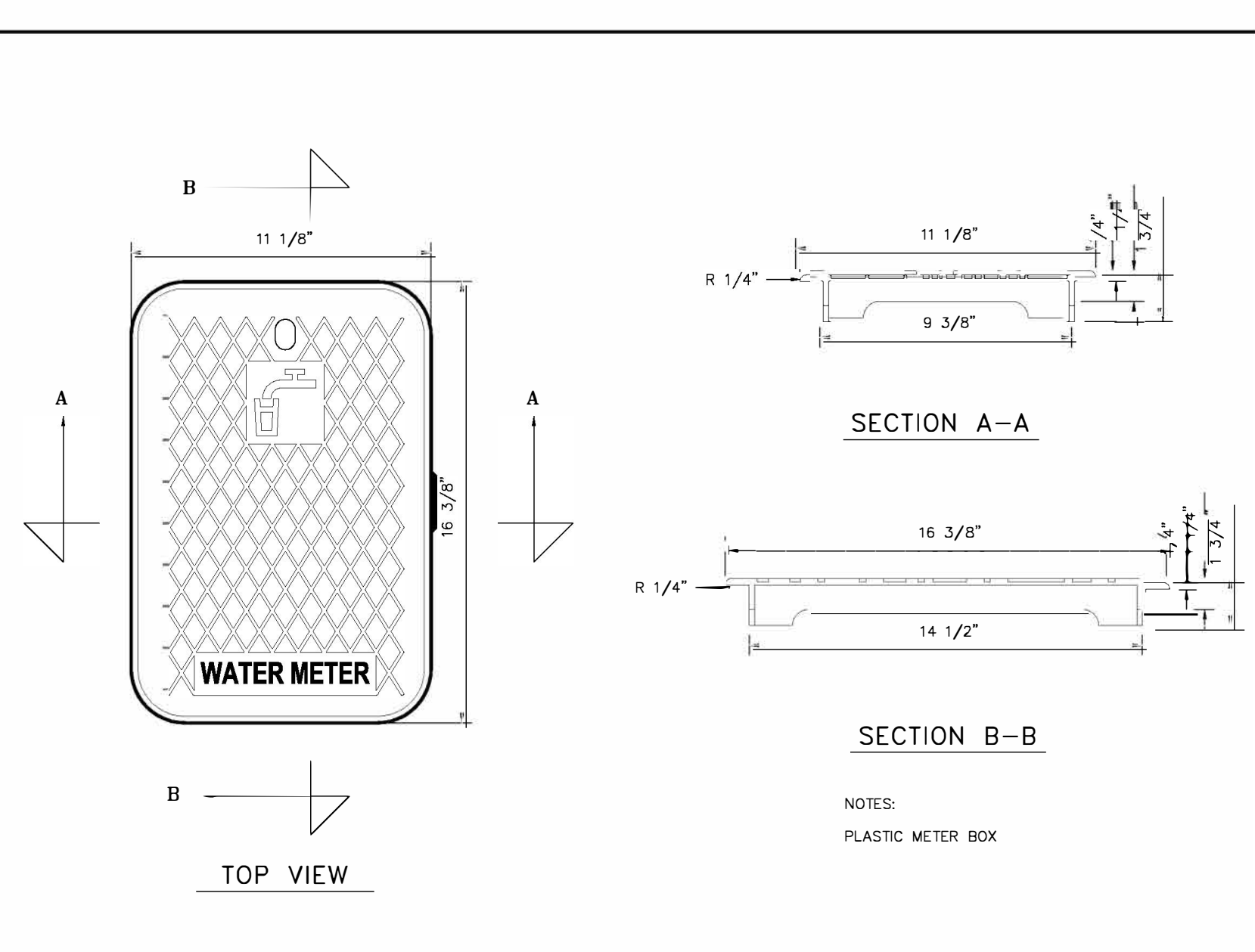
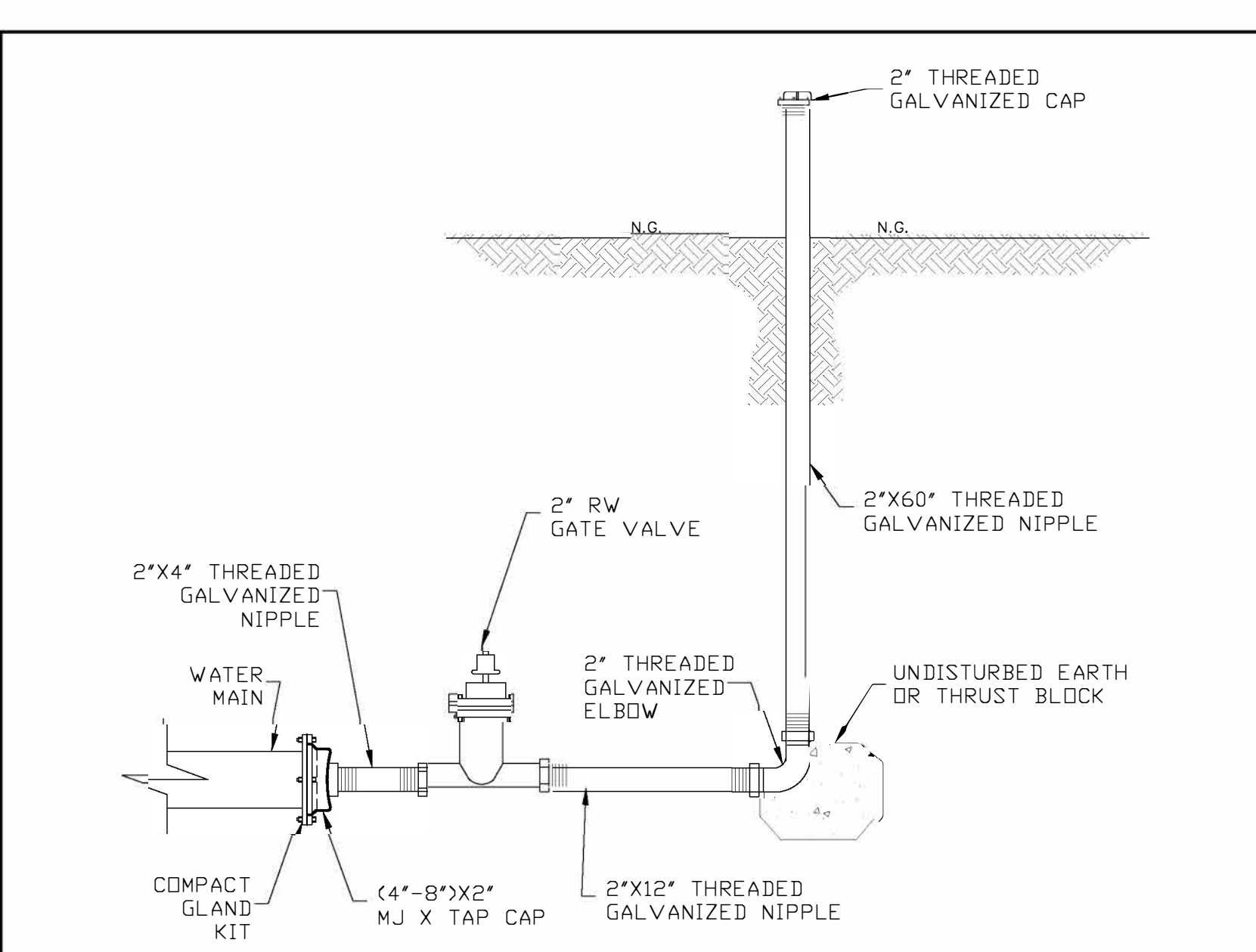
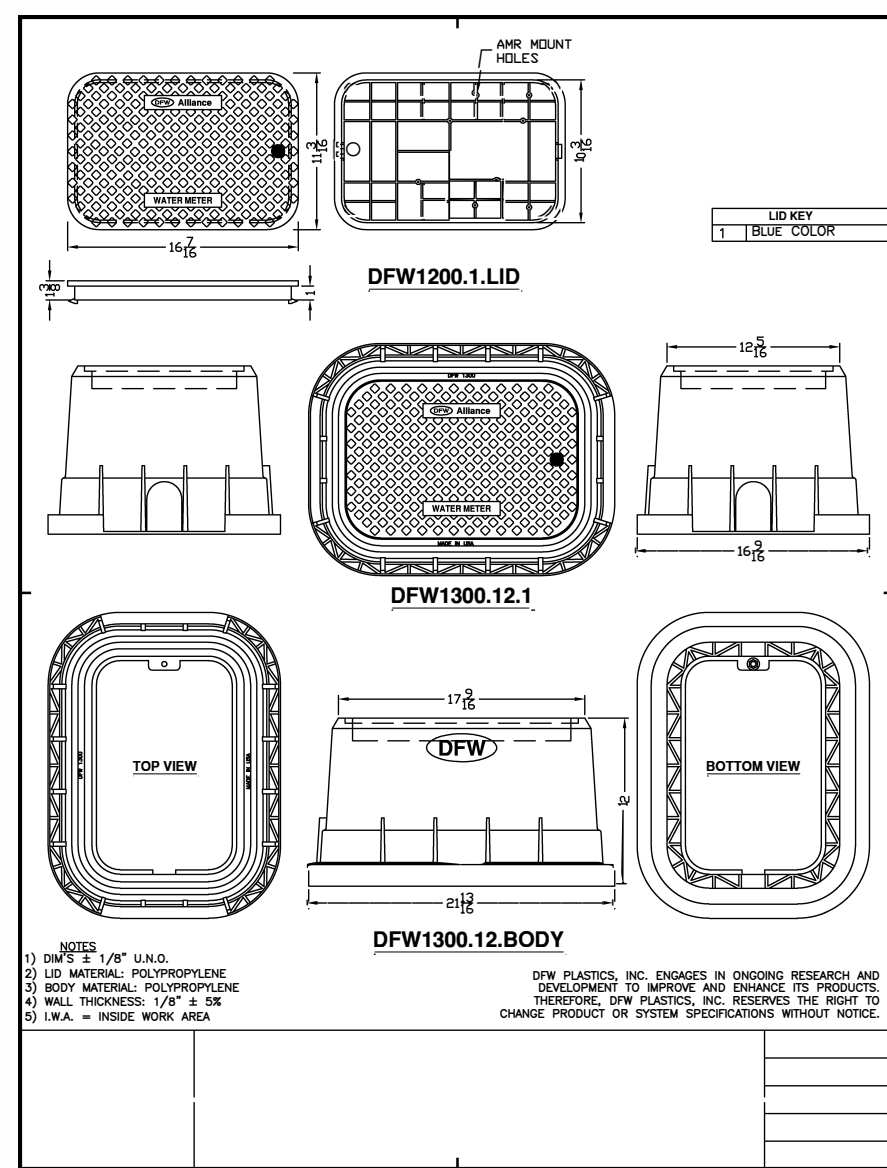
SWPPP
MORALES LAND SUBDIVISION
A 3.00 ACRE TRACT OF LAND OUT OF LOT 36-2, WEST ADDITION TO SHARVLAND, HIDALGO COUNTY, TEXAS, AS PER MAP THEREOF RECORDED VOLUME 1 PAGE 59, MAP RECORDS, HIDALGO COUNTY, TEXAS

SOUTH TEXAS INFRASTRUCTURE GROUP
900 S. STEWART RD., SUITE 13
MISSION, TEXAS 78572
PH: (956) 424-3335
FAX: (956) 424-3132
TBPE REG # 1500

P-15

TEMPORARY SEDIMENT CONTROL FENCE - DETAILS

| PRINCIPAL CONTACTS | | | | | | SOUTH TEXAS INFRASTRUCTURE GROUP |
|--------------------|-----------------------------|-----------------------------|-----------------------|----------------|----------------|--|
| OWNER: | NAME | ADDRESS | CITY & ZIP | PHONE | FAX | |
| OWNER: | LUIS MANUEL MORALES | 5220 N. LOS EBANOS | MISSION, TEXAS 78573 | (956) 600-2314 | | 900 S. STEWART RD., SUITE 13 MISSION, TEXAS 78572 PH: (956) 424-3335 FAX: (956) 424-3132 TBPE REG # 1500 |
| ENGINEER: | VICTOR H. TREVINO, P.E. | 900 S. STEWART RD., STE. 13 | MISSION, TEXAS 78572 | (956) 424-3335 | (956) 424-3132 | |
| SURVEYOR: | VICTOR H. TREVINO, R.P.L.S. | 921 S. 10TH AVE. | EDINBURG, TEXAS 78539 | (956) 380-6152 | (956) 380-6083 | |



W-9

W-10

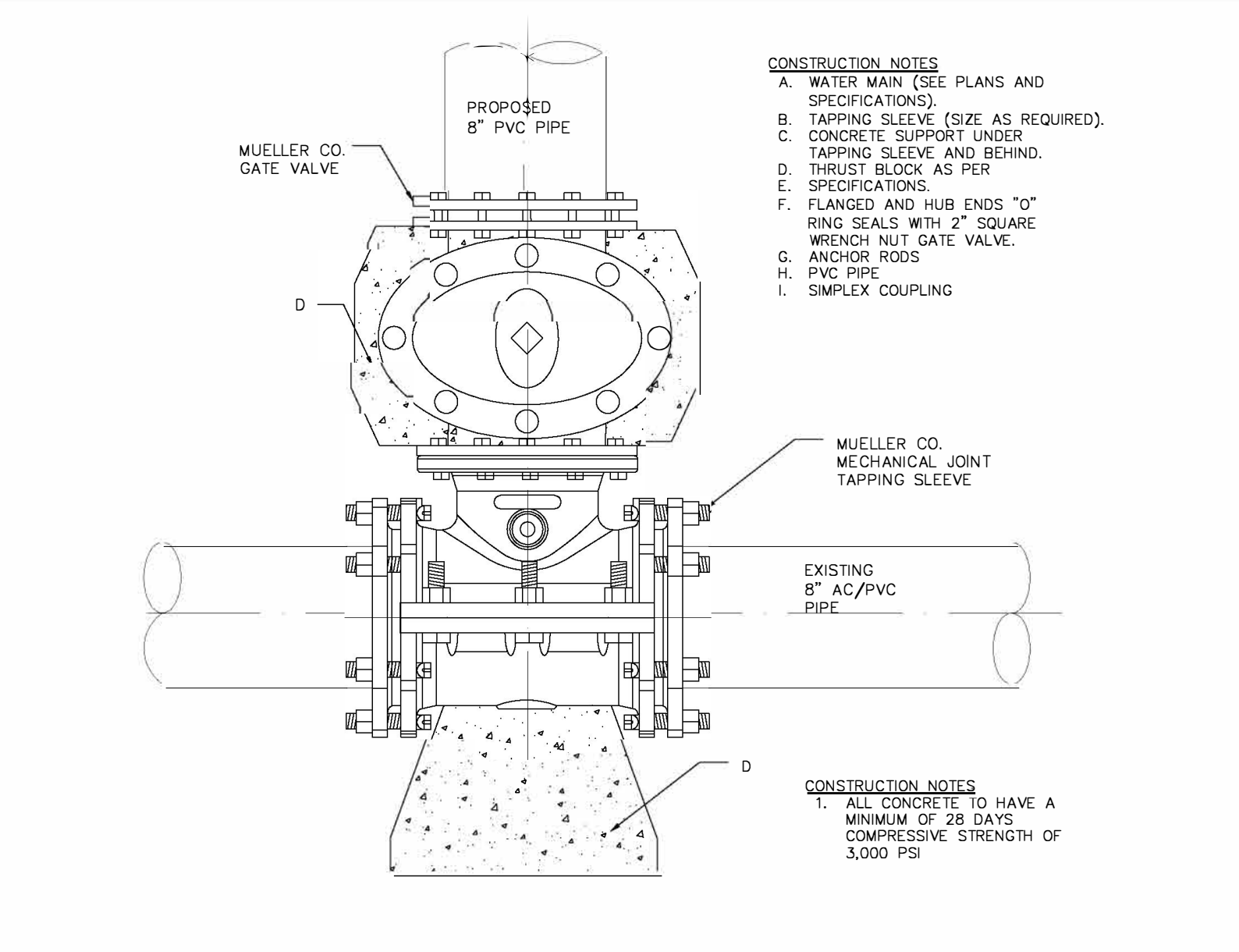
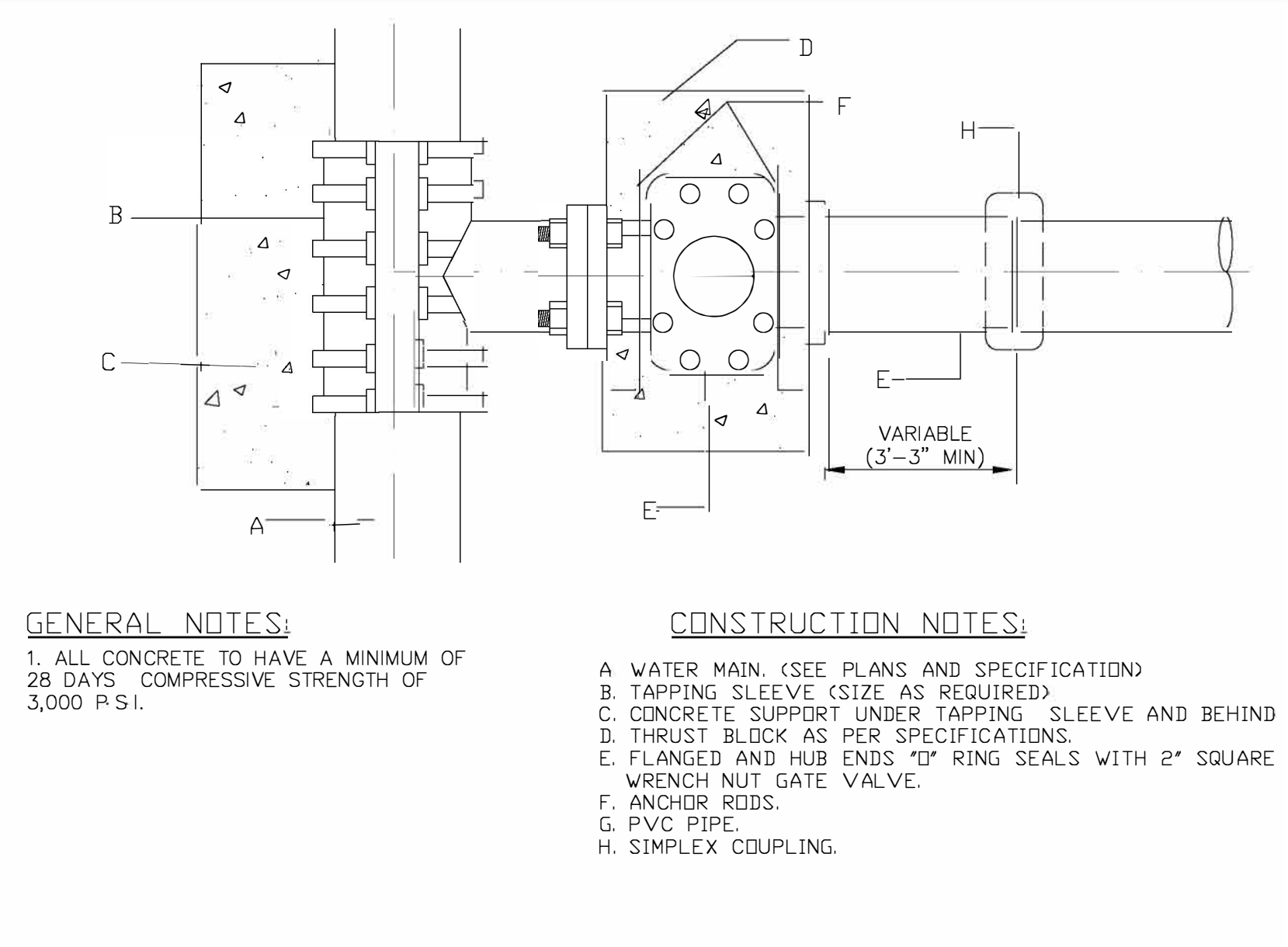
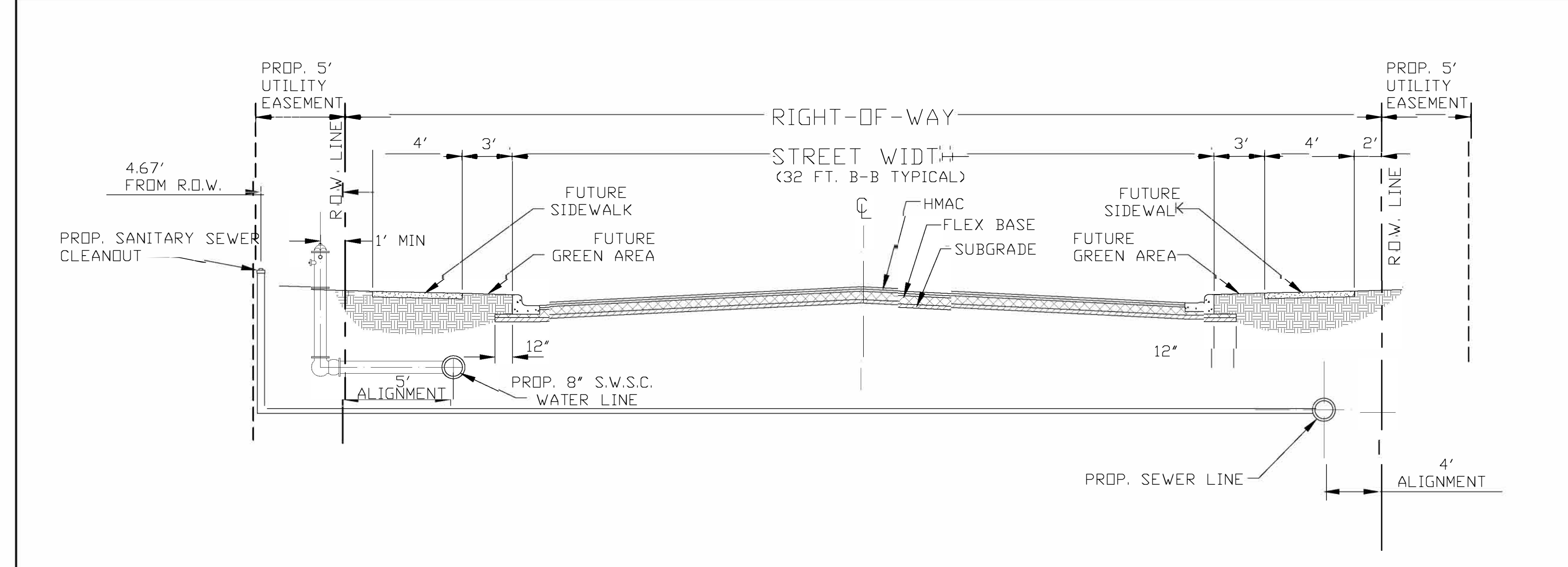
FLUSH VALVE DETAIL

W-11

METER COVER DETAIL

W-12

TYPICAL WATER METER INSTALLATION



W-13

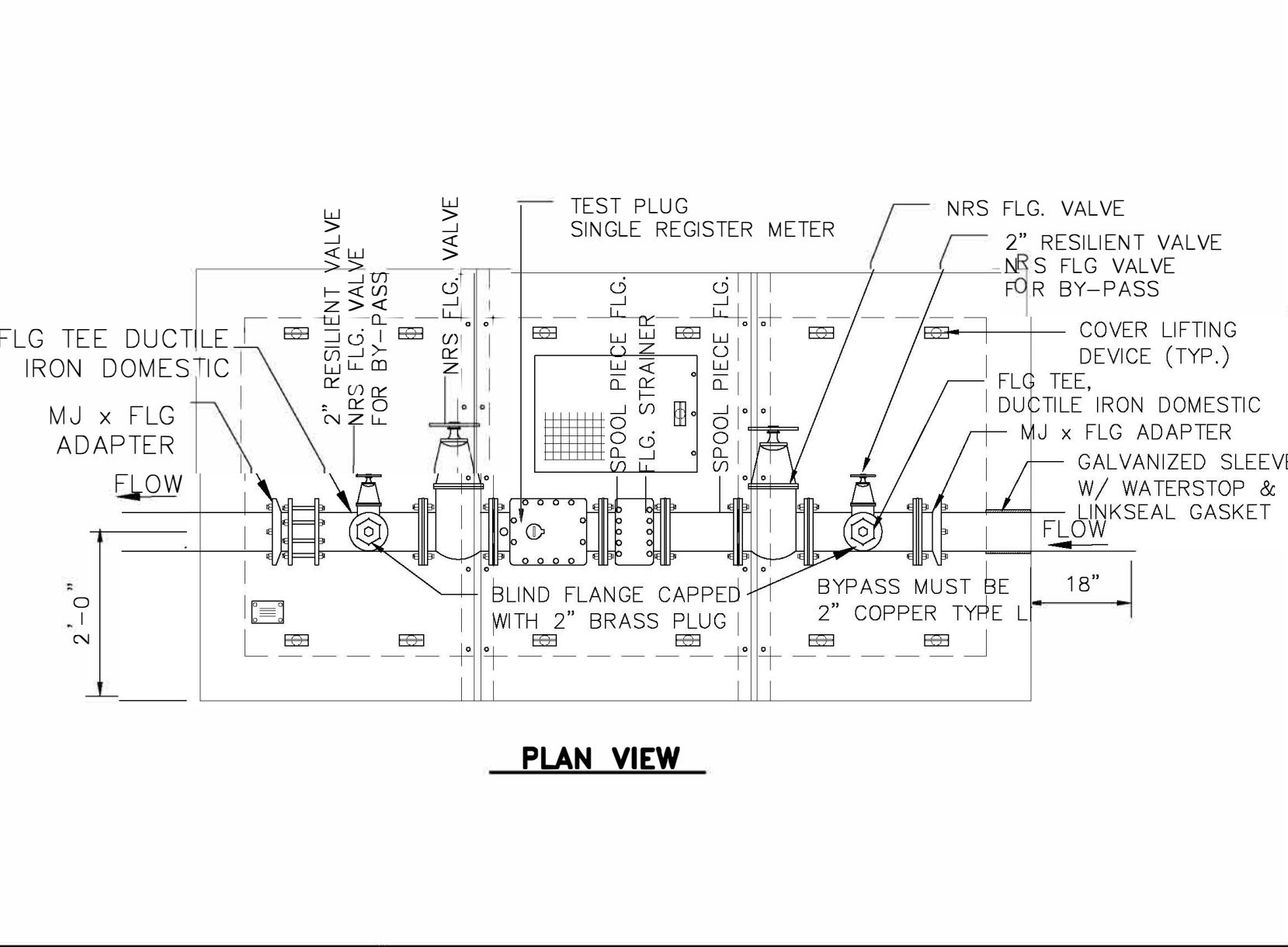
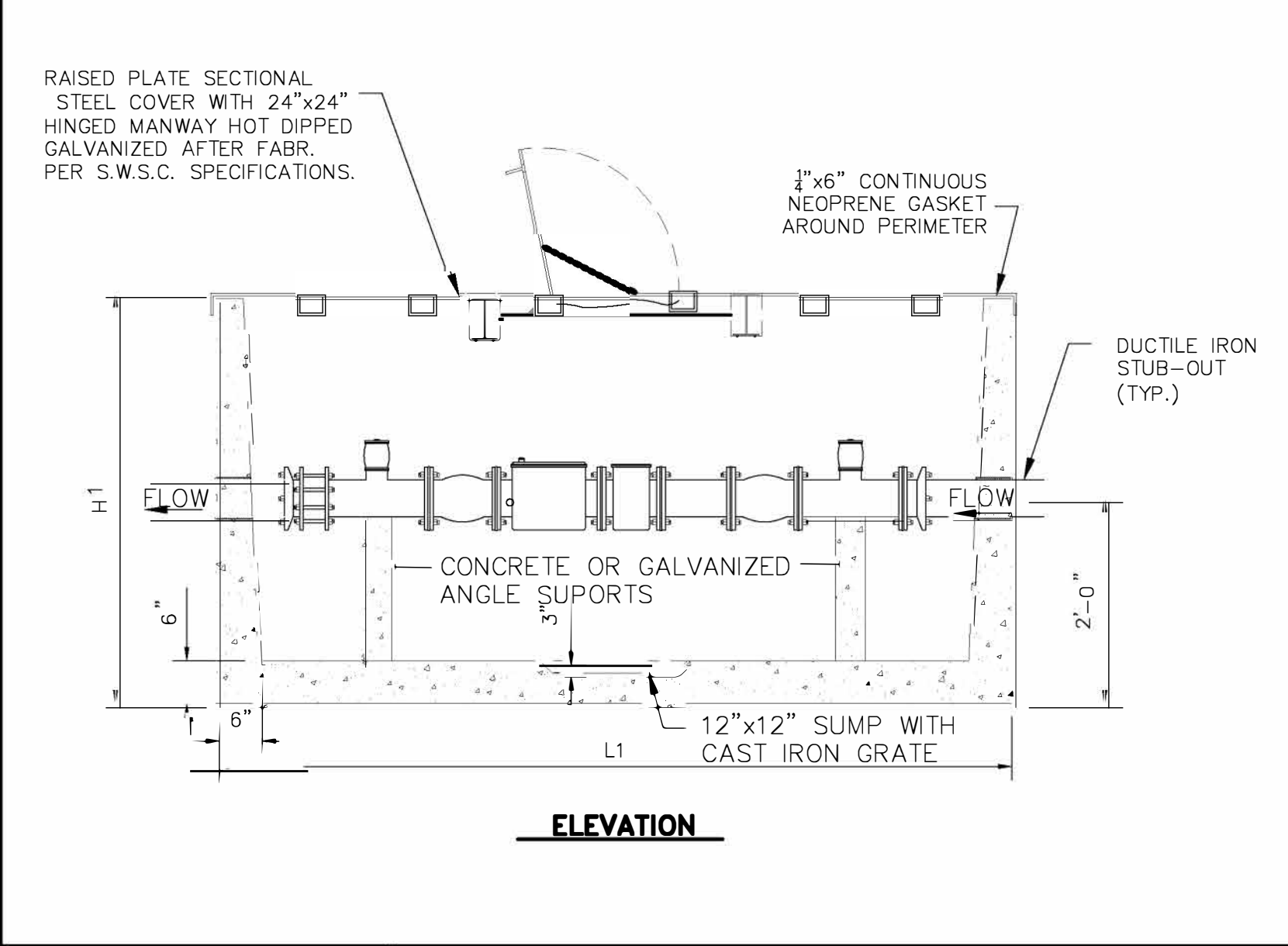
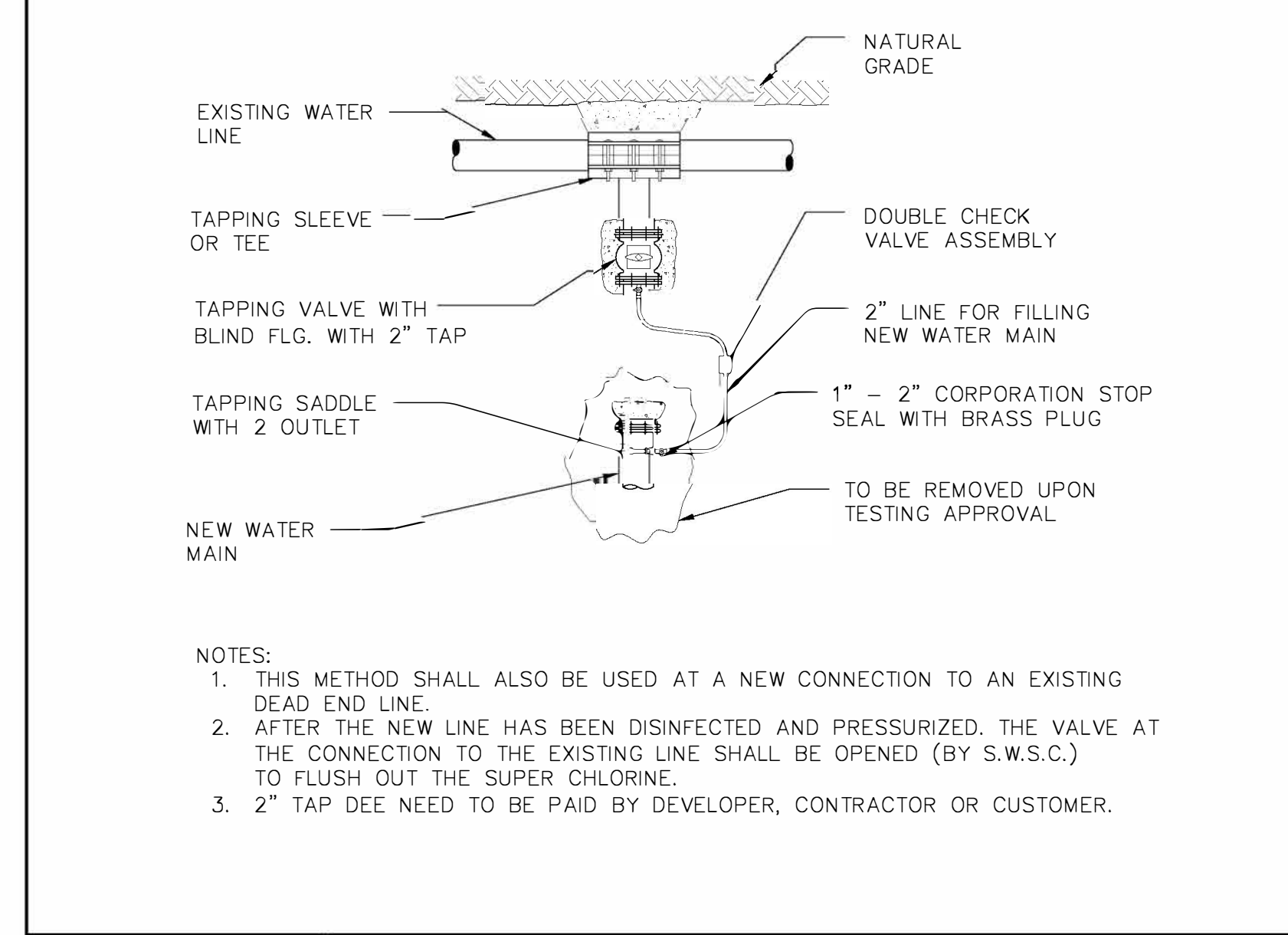
TYPICAL LOCAL STREET SECTION

W-14

WATER TAPPING SLEEVE & VALVE INSTALLATION

W-15

SAME SIZE WATER TAPPING SLEEVE AND VALVE INSTALLATION



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-16

METHOD FOR FILLING NEW WATER LINES PRIOR TO CHLORINATION AND TESTING

W-17A

METER VAULT DETAILS

W-17B

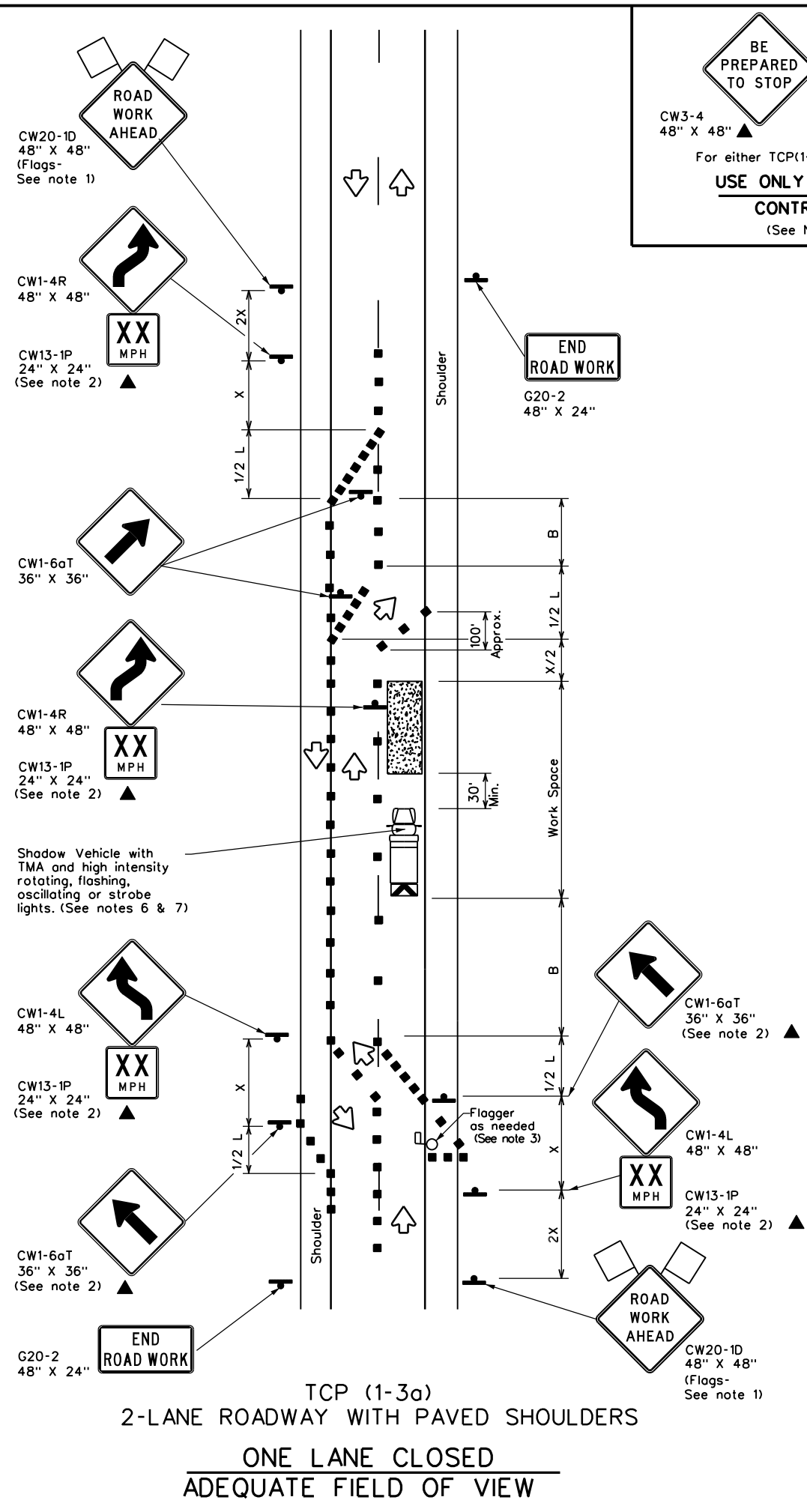
METER VAULT DETAILS

W-17C

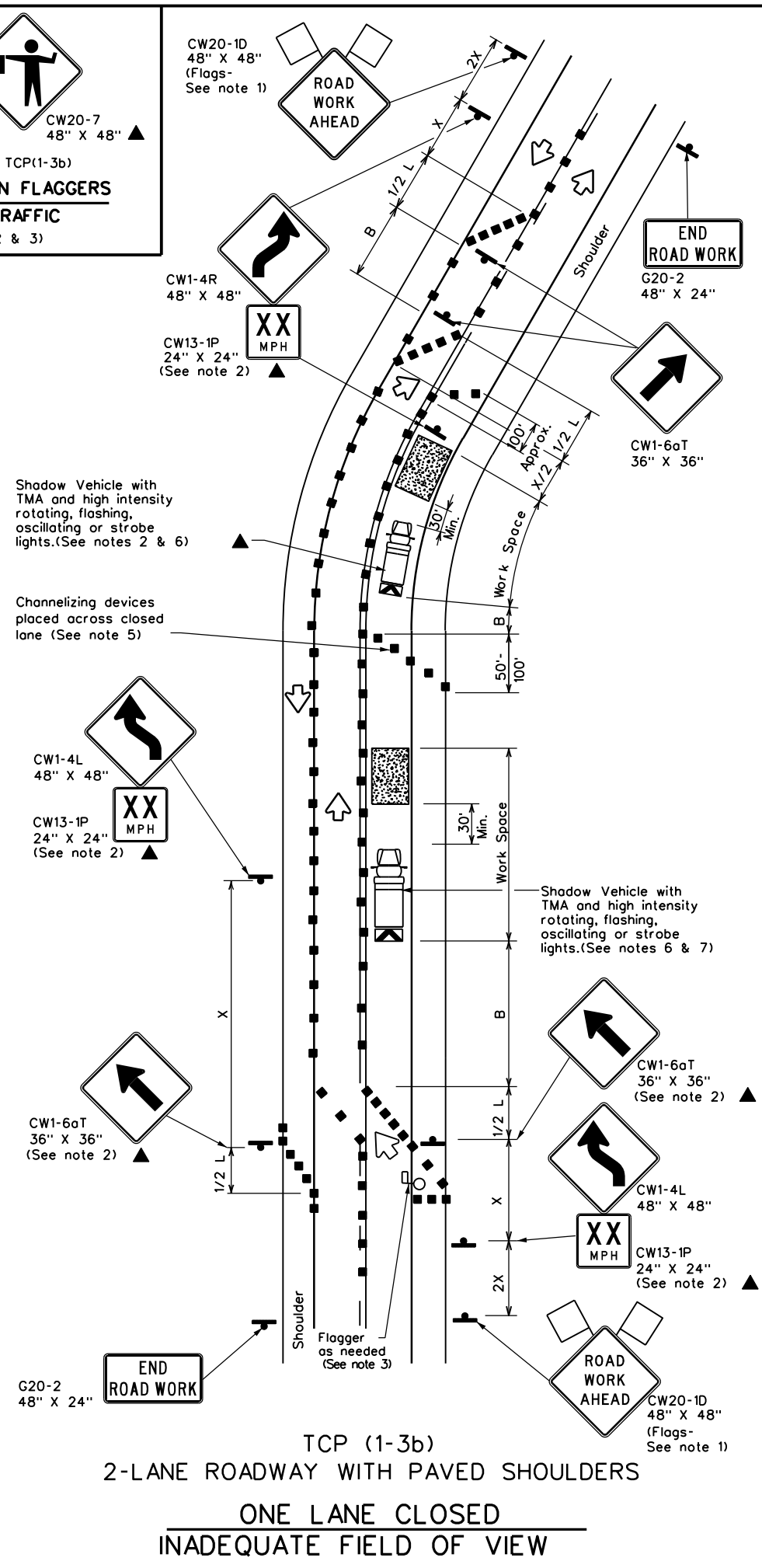
METER VAULT GENERAL NOTES

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DATE: FILE:



BE PREPARED TO STOP
CW3-4 48" X 48" ▲
CW20-7 48" X 48" ▲
For either TCP(1-3a) or TCP(1-3b)
USE ONLY WHEN FLAGGERS CONTROL TRAFFIC
(See Notes 2 & 3)



LEGEND

| | | | |
|--|--------------------------------------|--|---|
| | Type 3 Barricade | | Channelizing Devices |
| | Heavy Work Vehicle | | Truck Mounted Attenuator (TMA) |
| | Trailer Mounted Flashing Arrow Board | | Portable Changeable Message Sign (PCMS) |
| | Sign | | Traffic Flow |
| | Flag | | Flagger |

| Posted Speed x | Formula | Minimum Desirable Taper Lengths x x | | | Suggested Maximum Spacing of Channelizing Devices | | Minimum Sign Spacing "x" Distance | Suggested Longitudinal Buffer Space "B" |
|-------------------|-----------------------|--|------------|------------|---|--------------|---|--|
| | | 10' Offset | 11' Offset | 12' Offset | On a Taper | On a Tangent | | |
| 30 | L = $\frac{WS^2}{60}$ | 150' | 165' | 180' | 30' | 60' | 120' | 90' |
| 35 | | 205' | 225' | 245' | 35' | 70' | 160' | 120' |
| 40 | | 265' | 295' | 320' | 40' | 80' | 240' | 155' |
| 45 | L = WS | 450' | 495' | 540' | 45' | 90' | 320' | 195' |
| 50 | | 500' | 550' | 600' | 50' | 100' | 400' | 240' |
| 55 | | 550' | 605' | 660' | 55' | 110' | 500' | 295' |
| 60 | | 600' | 660' | 720' | 60' | 120' | 600' | 350' |
| 65 | | 650' | 715' | 780' | 65' | 130' | 700' | 410' |
| 70 | | 700' | 770' | 840' | 70' | 140' | 800' | 475' |
| 75 | | 750' | 825' | 900' | 75' | 150' | 900' | 540' |

x Conventional Roads Only
 xx Taper lengths have been rounded off.
 L-Length of Taper(FT) W-Width of Offset(FT) S-Posted Speed(MPH)

TYPICAL USAGE

| MOBILE | SHORT DURATION | SHORT TERM STATIONARY | INTERMEDIATE TERM STATIONARY | LONG TERM STATIONARY |
|--------|----------------|-----------------------|------------------------------|----------------------|
| | ✓ | ✓ | | |

- GENERAL NOTES**
- Flags attached to signs where shown are REQUIRED.
 - All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
 - Flagger control should NOT be used unless roadway conditions or heavy traffic volume require additional emphasis to safely control traffic. Additional flaggers may be positioned in advance of traffic queues to alert traffic to reduce speed.
 - DO NOT PASS, PASS WITH CARE and construction regulatory speed zone signs may be installed downstream of the ROAD WORK AHEAD signs.
 - When the work zone is made up of several work spaces, channelizing devices should be placed laterally across the closed lane to re-emphasize the closure. Laterally placed channelizing devices should be repeated every 500 to 1000 feet in urban areas and every 1/4 to 1/2 mile in rural areas.
 - A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
 - Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
 - Where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20', or 15' if posted speed are 35 mph or slower, and for tangent sections, at 1/2S where S is the speed in mph. This tighter device spacing is intended for the area of conflicting markings not the entire work zone.

Texas Department of Transportation Traffic Operations Division Standard

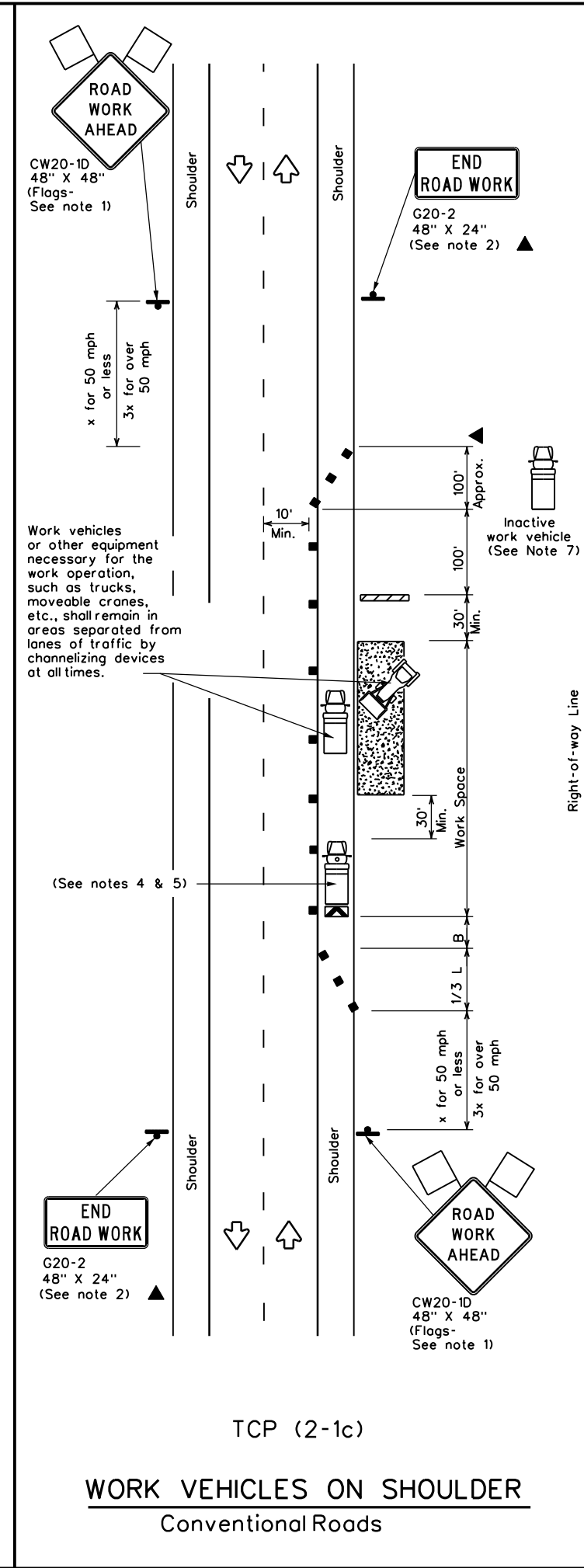
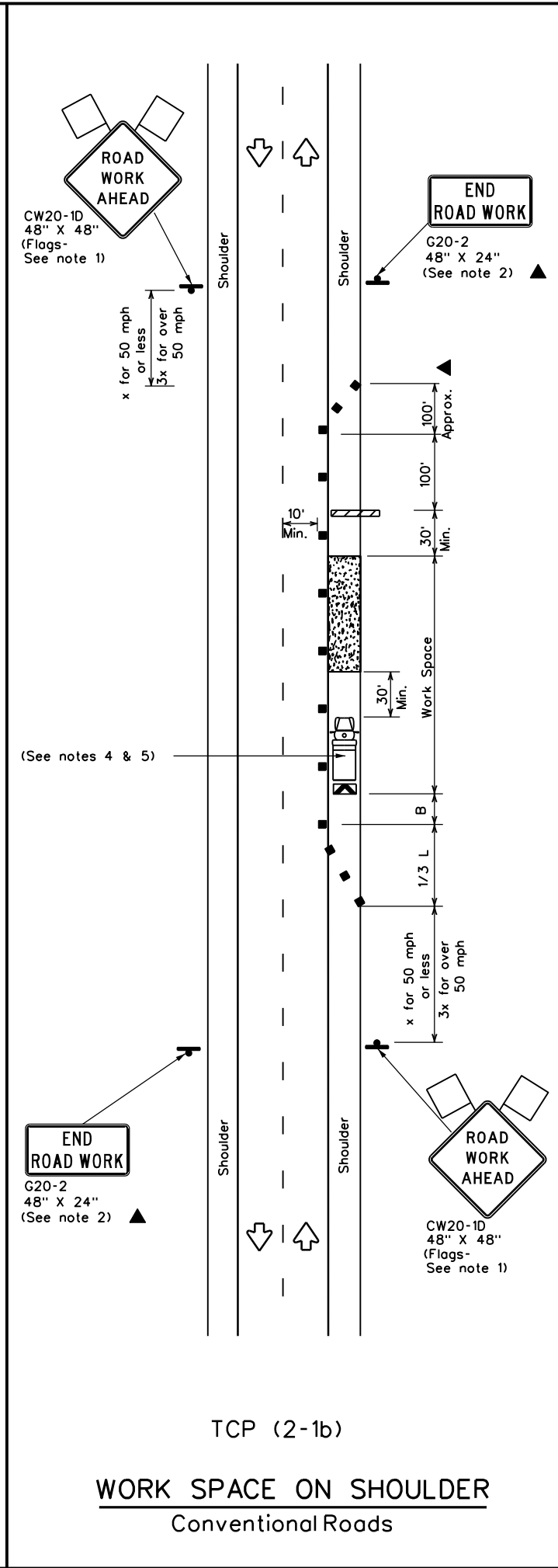
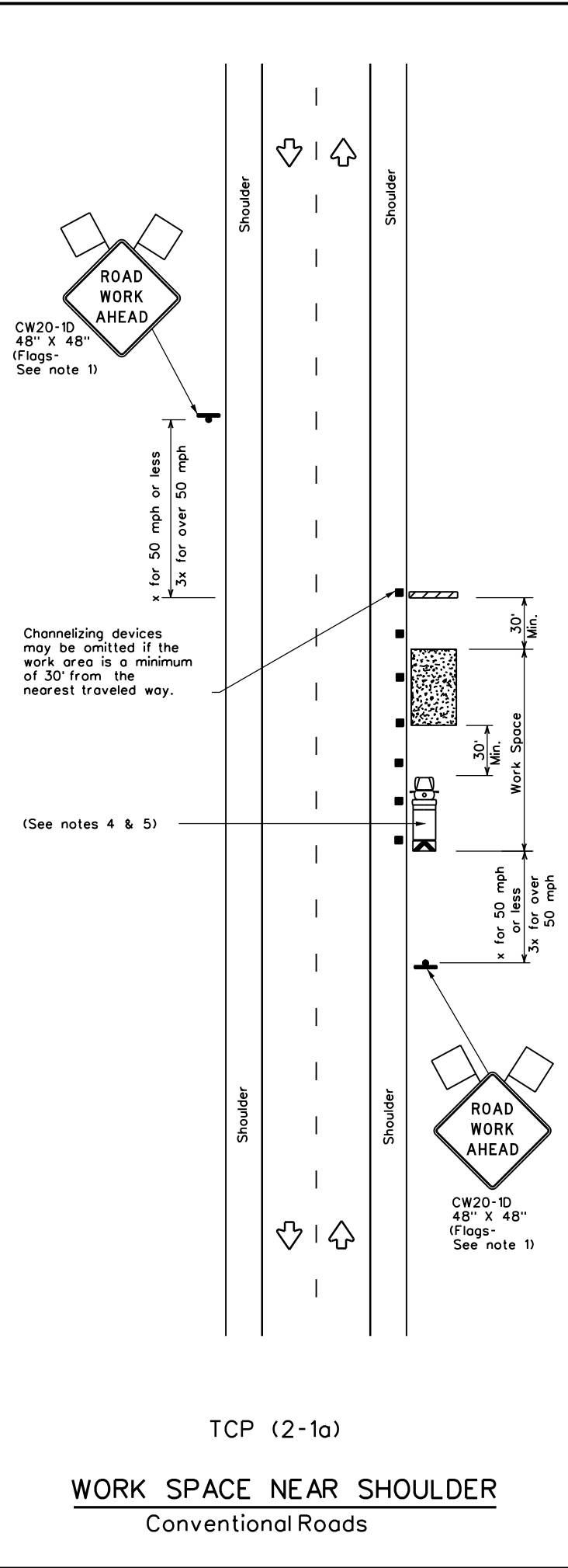
TRAFFIC CONTROL PLAN
TRAFFIC SHIFTS ON
TWO LANE ROADS
TCP(1-3)-18

FILE: tcp1-3-18.dgn DN: CK: DW: CK:
 © TxDOT December 1985 CONT SECT JOB HIGHWAY
 REVISIONS
 2-94 4-98
 8-95 2-12
 1-97 2-18
 DIST COUNTY SHEET NO.

153

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DATE: FILE:



| LEGEND | | | |
|--------|--------------------------------------|--|---|
| | Type 3 Barricade | | Channelizing Devices |
| | Heavy Work Vehicle | | Truck Mounted Attenuator (TMA) |
| | Trailer Mounted Flashing Arrow Board | | Portable Changeable Message Sign (PCMS) |
| | Sign | | Traffic Flow |
| | Flag | | Flagger |

| Posted Speed x | Formula | Minimum Desirable Taper Lengths x | | | Suggested Maximum Spacing of Channelizing Devices | | Minimum Sign Spacing "X" Distance | Suggested Longitudinal Buffer Space "B" |
|-------------------|----------------------------|--------------------------------------|---------------|---------------|---|--------------|---|--|
| | | 10' Offset | 11' Offset | 12' Offset | On a Taper | On a Tangent | | |
| 30 | $L = \frac{W \cdot S}{60}$ | 150' | 165' | 180' | 30' | 60' | 120' | 90' |
| 35 | | 205' | 225' | 245' | 35' | 70' | 160' | 120' |
| 40 | L = WS | 265' | 295' | 320' | 40' | 80' | 240' | 155' |
| 45 | | 450' | 495' | 540' | 45' | 90' | 320' | 195' |
| 50 | | 500' | 550' | 600' | 50' | 100' | 400' | 240' |
| 55 | | 550' | 605' | 660' | 55' | 110' | 500' | 295' |
| 60 | | 600' | 660' | 720' | 60' | 120' | 600' | 350' |
| 65 | | 650' | 715' | 780' | 65' | 130' | 700' | 410' |
| 70 | | 700' | 770' | 840' | 70' | 140' | 800' | 475' |
| 75 | 750' | 825' | 900' | 75' | 150' | 900' | 540' | |

x Conventional Roads Only
 ** Taper lengths have been rounded off.
 L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

| TYPICAL USAGE | | | | |
|---------------|----------------|-----------------------|------------------------------|----------------------|
| MOBILE | SHORT DURATION | SHORT TERM STATIONARY | INTERMEDIATE TERM STATIONARY | LONG TERM STATIONARY |
| | ✓ | ✓ | ✓ | ✓ |

- GENERAL NOTES**
- Flags attached to signs where shown, are REQUIRED.
 - All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated in the plans, or for routine maintenance work, when approved by the Engineer.
 - Stockpiled material should be placed a minimum of 30 feet from nearest traveled way.
 - Shadow Vehicle with TMA and high intensity rotating, flashing, oscillating or strobe lights. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
 - Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.
 - See TCP(5-1) for shoulder work on divided highways, expressways and freeways.
 - Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
 - CW21-5 "SHOULDER WORK" signs may be used in place of CW20-1D "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.

**TRAFFIC CONTROL PLAN
 CONVENTIONAL ROAD
 SHOULDER WORK**

TCP(2-1)-18

| | | | | |
|-----------------------|--------|-----------|-----|---------|
| FILE: tcp2-1-18.dgn | DN: | CK: | DW: | CK: |
| © TxDOT December 1985 | CONT | SECT | JOB | HIGHWAY |
| REVISIONS | | | | |
| 2-94 4-98 | | | | |
| 8-95 2-12 | | | | |
| 1-97 2-18 | | | | |
| DIST | COUNTY | SHEET NO. | | |

