



**Planning  
Department**

**Anthony Uresti**  
*Assistant Director*

**Main Office**

2818 S. Business Hwy 281  
Edinburg, Texas 78539  
Phone (956) 318-2840  
Fax (956) 318-2844

**Precinct No. 1 Substation**

1900 Joe Stephens Ave. Ste. A  
Weslaco, TX 78596  
Phone (956) 968-4734  
Fax (956) 973-7850

**Precinct No. 3 Substation**

2401 N. Moorefield Road  
Mission, Texas 78572  
Phone (956) 205-7045  
Fax (956) 205-7049

**PIPELINE AND UTILITY PERMIT APPLICATION PACKET**

THE STATE OF TEXAS

COUNTY OF HIDALGO

PRECINCT 3

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

Date: 09 / 27 / 2023

GST CONSTRUCTION INC (JACOBO GARZA) (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:

NEMONT ESTATES II LP BY RAYMUNDO P PLATAS MERINO 4405  
SOUTH SHARY ROAD MISSION TX 78572

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

City of Mcallen  
1300 Houston AV Mcallen TX 78501 tel 956-681-31-11

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

McAllen Public Utility 1300 Houston Ave, 78501 tel 956-681-16-00

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

GST CONSTRUCTION INC 7337 Owassa Rd, Edinburg, Tx 78542,  
US tel 956 739 10 00 Jacobo Garza



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## PIPELINE AND UTILITY PERMIT APPLICATION PACKET

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:

NA public Sanitary Sewer Line

6. Does Applicant have the Power of Eminent Domain?

NA -Sewer Line is Proposed to be installed within public right of way

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

no

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

NA

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

Bore Crossing  Line Extension  Other \_\_\_\_\_  
Along R.O.W.

10. Where is the origin of the line?

Lines begins at the proposed Nemont Estates subdivision, approximately 1/4 mile west Glascock Road, within MILE 6 ROAD ROAD

11. Where is the destination of the line?

Line is to travel within mile 6 Road from beginning point an existing sanitary sewer line located at intersection of mile 6 Road and Shary Road



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## PIPELINE AND UTILITY PERMIT APPLICATION PACKET

12. Utility Crossing Coordinate X: 26.297794 Y: -98.287835  
(NAD 83 Texas South FIPS 4205 feet)
13. Number and size of lines:  
(NAD 83 Texas South FIPS 4205 feet)  
\_\_\_\_\_  
\_\_\_\_\_
14. Pressure (each line):  
3780 linear feet of 8" PVC Sanitary Sewer Line  
\_\_\_\_\_  
\_\_\_\_\_
15. Content (each line):  
NA  
\_\_\_\_\_
16. Estimated date of installation of Pipeline or Utility:  
RP As soon approved by 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 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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## PIPELINE AND UTILITY PERMIT APPLICATION PACKET

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.

- 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.

- 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.
- 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.
- 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.
- 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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18. This permit constitutes the entire agreement between the parties with regard to the subject matter hereof, and all prior agreements, representations, and negotiations between the parties regarding the subject matter are hereby superseded. This permit shall not be altered or amended except by an agreement in writing executed by the parties hereto.

19. Applicant warrants and represents that its undersigned representative has full authority to bind Applicant to the terms and conditions of the foregoing Application and Agreement for Pipeline or Utility Permit.

09 / 27 / 2023

DATED this 27<sup>th</sup> day of September, 2023.

RAYMUNDO PLATAS MERINO  
(Name of Applicant – Printed or Typed)

By: [Signature]  
Signature

Title: CEO

STATE OF TEXAS  
COUNTY OF HIDALGO

SUBSCRIBED AND SWORN TO before me the Applicant,  
Raymundo Platas Merino, on this 27<sup>th</sup> day of September, 2023,  
to which witness my hand and seal of office.



[Signature]  
Notary Public for the State of Texas

My Commission Expires: 3/3/24



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**PIPELINE AND UTILITY PERMIT APPLICATION PACKET**

**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 E. Cortez, County Judge



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## PIPELINE AND UTILITY PERMIT APPLICATION PACKET

### EXHIBIT A

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



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

08/07/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER 9567029002 ACCESS INSURANCE AGENCY LLC 5115 S BUSINESS 281 SUITE B EDINBURG, TX 78539	956-702-9344	CONTACT NAME: RINA R CASAS PHONE (A/C, No, Ext): 9567029002 E-MAIL ADDRESS: RINARCASAS@ACCESSINSAGENCY.COM	FAX (A/C, No): 956-702-9344
INSURED 956-739-1000 GST CONSTRUCTION INC 7337 E OWASSA RD EDINBURG TX 78539		INSURER(S) AFFORDING COVERAGE	NAIC #
		INSURER A : CONTINENTAL CASUALTY COMPANY	
		INSURER B : PROGRESSIVE	
		INSURER C : TEXAS MUTUAL INSURANCE	
		INSURER D :	
		INSURER E :	
		INSURER F :	

**COVERAGES****CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS		
A	GENERAL LIABILITY	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C6980635852	05/30/2023	05/30/2024	EACH OCCURRENCE	\$ 1,000,000	
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 1,000,000	
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						MED EXP (Any one person)	\$ 5000	
	GEN'L AGGREGATE LIMIT APPLIES PER:							PERSONAL & ADV INJURY	\$ 1,000,000
	<input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						GENERAL AGGREGATE	\$ 2,000,000	
							PRODUCTS - COMP/OP AGG	\$ 2,000,000	
								\$	
B	AUTOMOBILE LIABILITY	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	01651932-11	06/11/2023	06/11/2024	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000	
	<input checked="" type="checkbox"/> ANY AUTO						BODILY INJURY (Per person)	\$	
	<input type="checkbox"/> ALL OWNED AUTOS	<input type="checkbox"/> SCHEDULED AUTOS					BODILY INJURY (Per accident)	\$	
	<input type="checkbox"/> HIRED AUTOS	<input type="checkbox"/> NON-OWNED AUTOS					PROPERTY DAMAGE (Per accident)	\$	
								\$	
d	UMBRELLA LIAB	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1245692	06/21/2023	06/21/2024	EACH OCCURRENCE	\$ 2,000,000	
	<input checked="" type="checkbox"/> EXCESS LIAB	<input checked="" type="checkbox"/> OCCUR					AGGREGATE	\$ 2,000,000	
	<input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$	<input checked="" type="checkbox"/> CLAIMS-MADE						\$	
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			0001252294	05/09/2023	05/09/2024	<input checked="" type="checkbox"/> WC STATUTORY LIMITS	<input type="checkbox"/> OTHER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	N/A				<input checked="" type="checkbox"/>	E.L. EACH ACCIDENT	\$ 1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below							E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000
								E.L. DISEASE - POLICY LIMIT	\$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Septic tank system installation, water main connection, sewer main connections, repaving parking lots sidewalk and driveways

**CERTIFICATE HOLDER**

FOR RECORD ONLY

Hidalgo County  
2818 S. HWY-BUS 281  
Edinburg TX 78539

EMAIL:  
OFF:  
FAX:

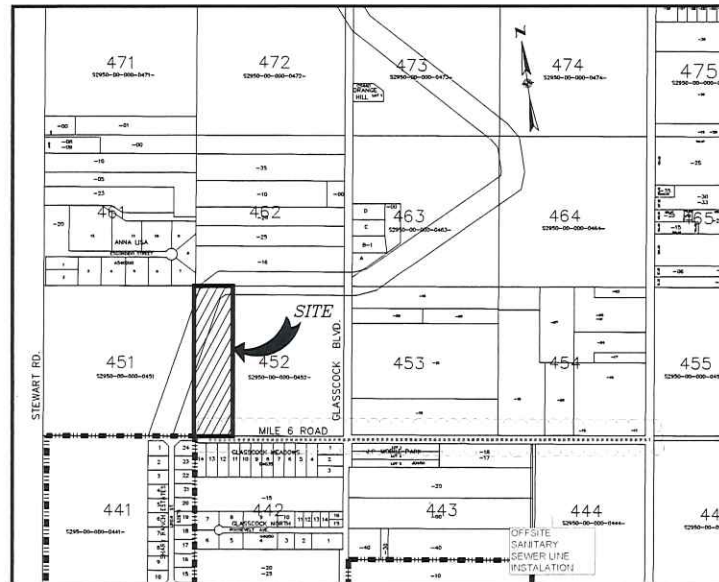
**CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

# NEMONT II SUBDIVISION PROPOSED WATER, SANITARY SEWER, STORM DRAINAGE & STREET IMPROVEMENTS

M<sub>C</sub>ALLEN, TEXAS



LOCATION MAP

Scale : 1" = 800'

NOVEMBER 2022

## INDEX

SHEET No.	DESCRIPTION
1	COVER SHEET
2	SUBDIVISION PLAT SHEET
3	WATER SYSTEM LAYOUT
4	SEWER SYSTEM LAYOUT
5	PAVING AND DRAINAGE LAYOUT
6	DRAINAGE AREA MAP
7	STREET LIGHTING PLAN
8	SEWER AND STORM PLAN & PROFILES
9-12	OFF-SITE SEWER PLAN & PROFILES
13	STORM WATER POLLUTION PREVENTION PLAN
14	WATER DETAILS SWSC
15	WATER DETAILS SWSC
16	SEWER DETAILS
17	STORM DRAINAGE DETAILS
18	PAVING DETAILS
19	TRAFFIC CONTROL PLAN DETAIL

FOR CONSTRUCTION  
THIS DOCUMENT HAS BEEN RELEASED FOR CONSTRUCTION.  
BY RENE BARRERA, P.E. No. 86862  
1/4/23

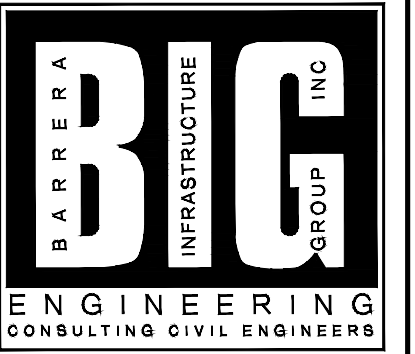


**RB** 1/4/23  
Rene Barrera  
Licensed Professional  
Engineer # 86862



3525 W. Freddy Gonzalez Ave.  
Suite B2  
Edinburg, TX 78539  
956-687-3355, FAX: 956-992-8801  
TEXAS FIRM NO.: 6435





3525 W. Freddy Gonzalez  
Suite B2  
Edinburg, TX 78539  
T: 956-687-3355  
F: 956-992-8801  
TEXAS FIRM NO.: 6435

SANITARY SEWER SYSTEM LAYOUT

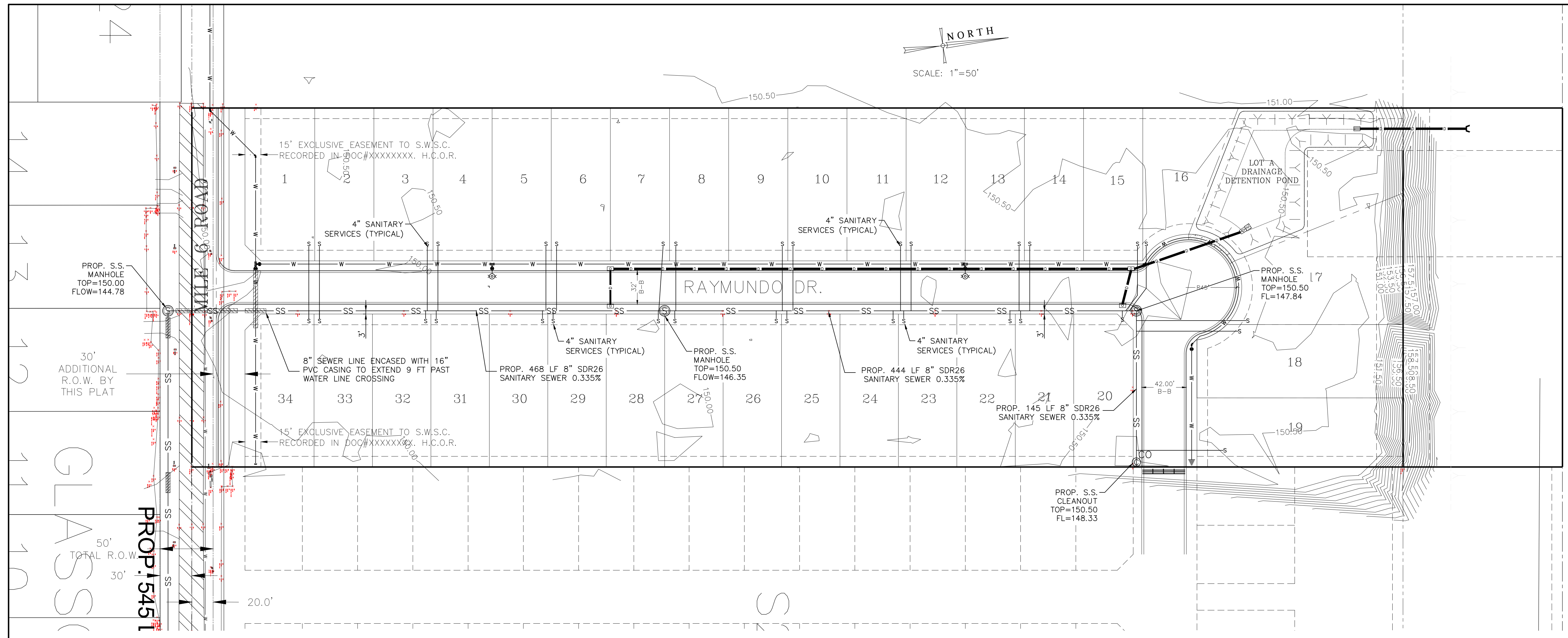
NEMONT II SUBDIVISION  
McALLEN, TEXAS



*R. Barrera* 3/23/23  
Rene Barrera  
Licensed Professional  
Engineer # 86862

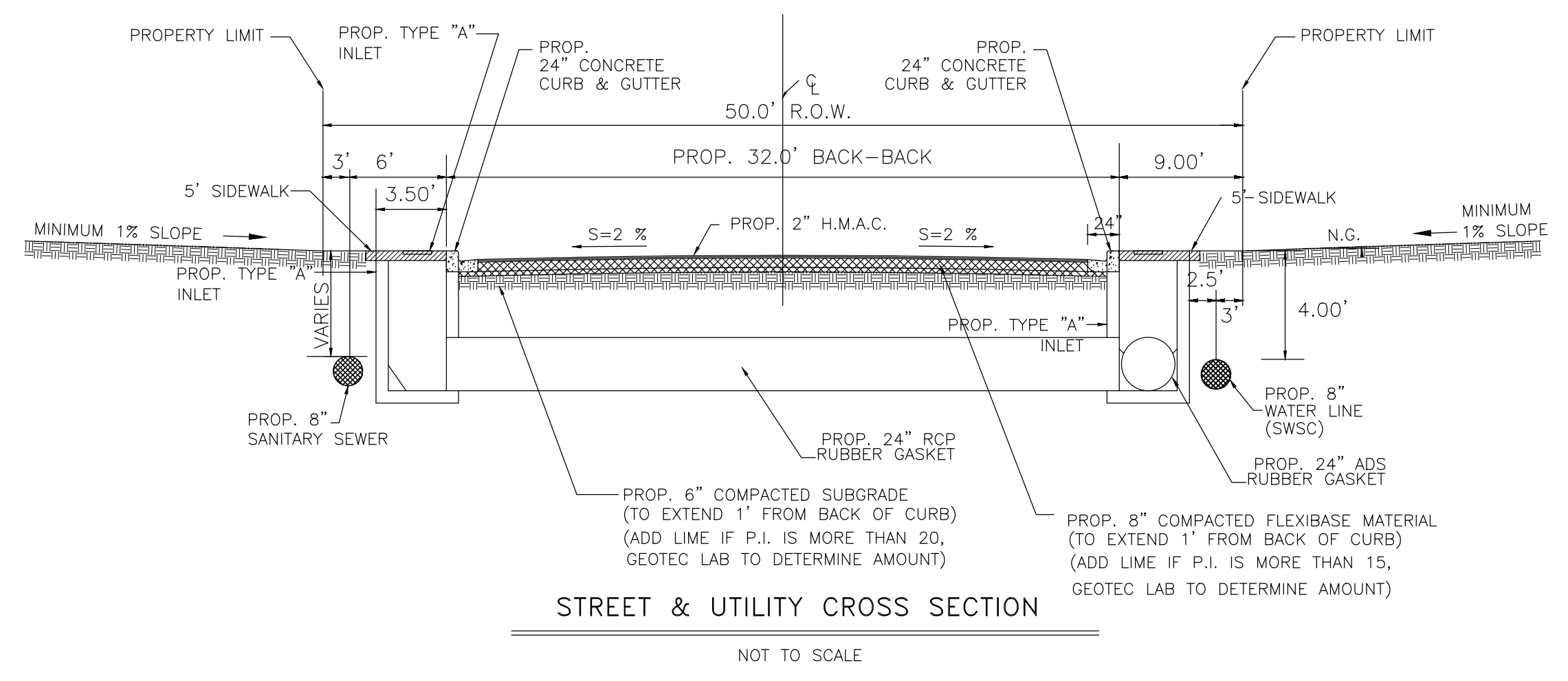
Date:	
Scale:	1"=30'
Designed By:	R.B.
Drawn By:	E.S.
Checked By:	R.B.
Project No.:	

Sheet 4 of 4



- CONSTRUCTION NOTES:**
- CONTRACTOR SHALL CALL FOR UTILITY SPOTTING, INCLUDING WATER SERVICE CONNECTIONS, GAS LINES, ELECTRICAL & COMMUNICATION UTILITIES.
  - WATER SERVICE ADJUSTMENTS MAY REQUIRE CASING (CONTRACTOR TO VERIFY W/ SWSC)

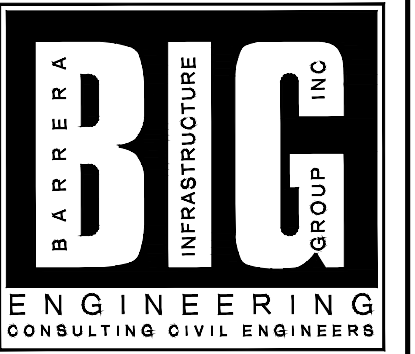
- GENERAL NOTES:**
- ALL PROPOSED WATER LINES TO BE C-900 DR-18.
  - ALL FIRE HYDRANTS SHALL BE MUELLER AND TO BE INSTALLED WITH VALVE & BOX AT 3.0' BEHIND THE BACK OF CURB. PROPOSED FIRE HYDRANT SHALL BE SPACED 300 FEET (MAX.). FLANGE ELEV= 6" ABOVE TOP OF CURB.
  - CONTRACTOR SHALL MAINTAIN A 9.0 FOOT MIN. HORIZONTAL SEPARATION BETWEEN PROPOSED WATER LINES & SANITARY SEWER LINES.
  - CONTRACTOR TO INSTALL 3/4" SINGLE WATER SERVICE CONNECTION AND 4" SANITARY SEWER SERVICE TO EVERY LOT.
  - CONTRACTOR TO NOTIFY ALL UTILITY COMPANIES FOR VERIFICATION OF CONFLICTS PRIOR TO CONSTRUCTION ON SITE.
  - REFER TO SUBDIVISION PLAN FOR LOT DIMENSIONS



**FOR CONSTRUCTION**  
THIS DOCUMENT HAS BEEN RELEASED FOR CONSTRUCTION.  
BY RENE BARRERA, P.E. No. 86862.  
3/23/23

D:\Projects\NEMONT SUBD\Nemont II Sub 5-9-23.dwg





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Suite B2  
Edinburg, TX 78539  
T: 956-687-3355  
F: 956-992-8801  
TEXAS FIRM NO.: 6435

OFF-SITE SEWER SYSTEM  
PLAN & PROFILE

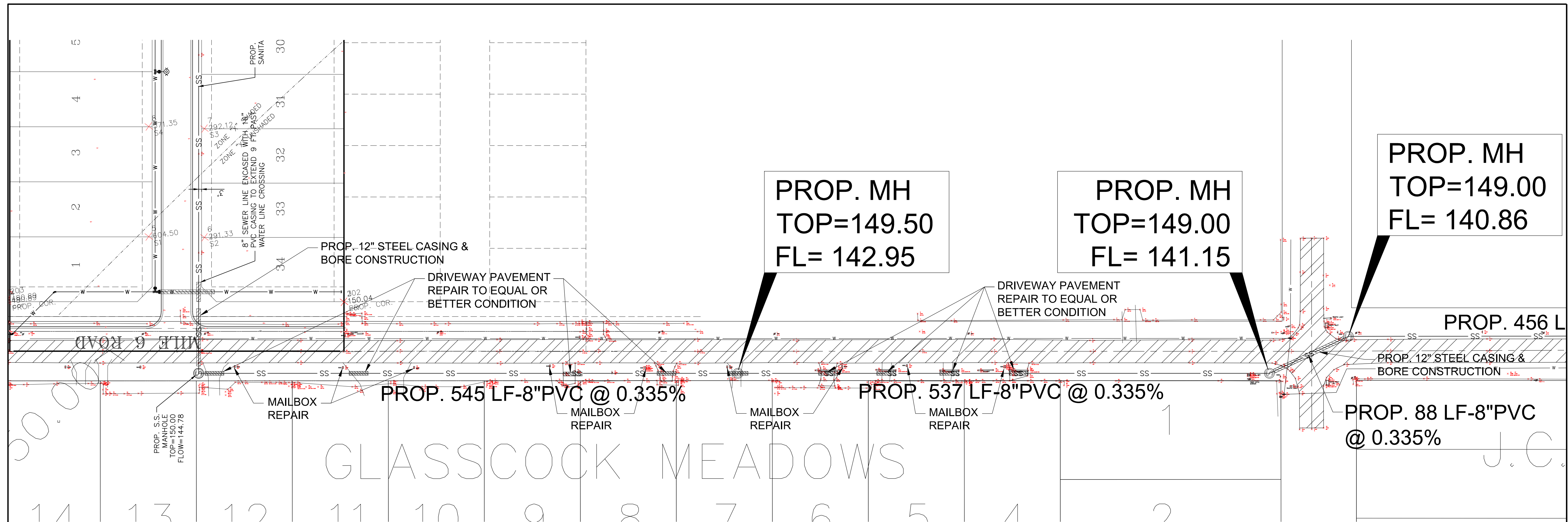
NEMONT II SUBDIVISION  
McALLEN, TEXAS



3/23/23  
Rene Barrera  
Licensed Professional  
Engineer # 86862

Date:  
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Designed By: R.B.  
Drawn By: E.S.  
Checked By: R.B.  
Project No.:

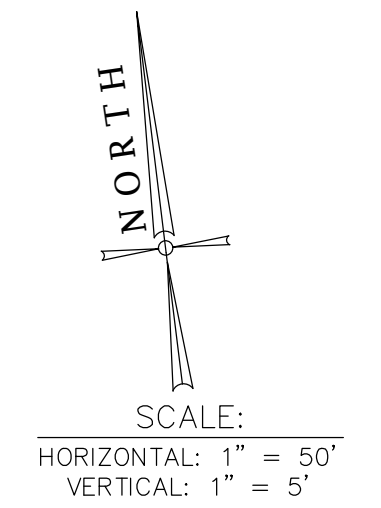
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9



GLASSCOCK MEADOWS

\* SEE SHEET 19 FOR TRAFFIC CONTROL PLAN DETAIL

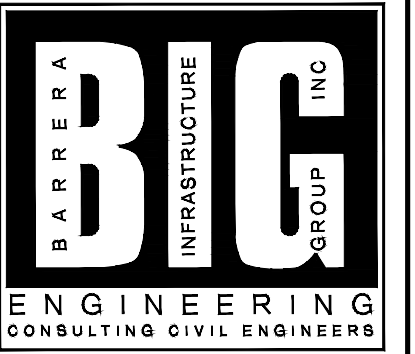
FOR CONSTRUCTION  
THIS DOCUMENT HAS BEEN RELEASED FOR CONSTRUCTION.  
BY RENE BARRERA, P.E. No. 86862.  
3/23/23



- CONSTRUCTION NOTES:
- CONTRACTOR SHALL CALL FOR UTILITY SPOTTING, INCLUDING WATER SERVICE CONNECTIONS, GAS LINES, ELECTRICAL & COMMUNICATION UTILITIES.
  - WATER SERVICE ADJUSTMENTS MAY REQUIRE CASING (CONTRACTOR TO VERIFY W/ SWSC)



D:\Projects\NEMONT SUBD\Nemont II Sub 5-9-23.dwg



3525 W. Freddy Gonzalez  
Suite B2  
Edinburg, TX 78539  
T: 956-687-3355  
F: 956-992-8801  
TEXAS FIRM NO.: 6435

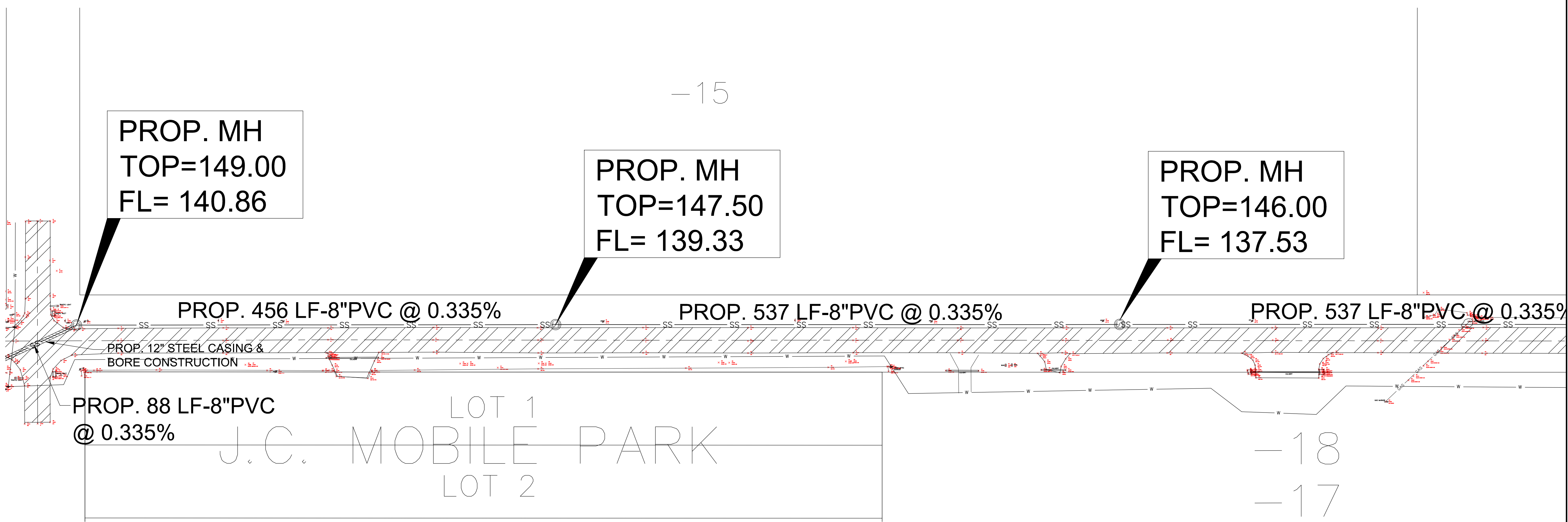
OFF-SITE SEWER SYSTEM  
PLAN & PROFILE

NEMONT II SUBDIVISION  
McALLEN, TEXAS



3/23/23  
Rene Barrera  
Licensed Professional  
Engineer # 86862

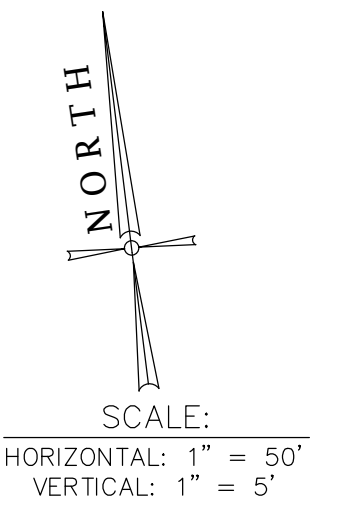
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Designed By:	R.B.
Drawn By:	E.S.
Checked By:	R.B.
Project No.:	



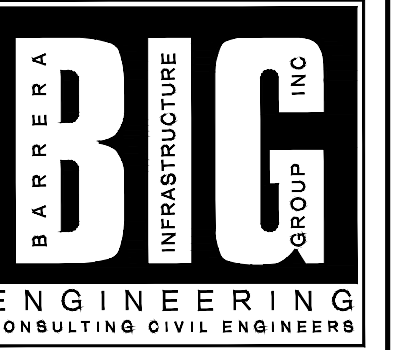
**CONSTRUCTION NOTES:**

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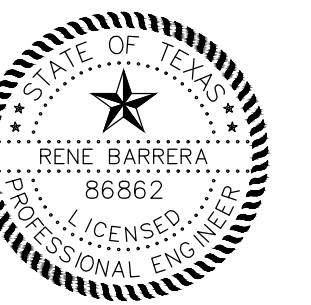
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3525 W. Freddy Gonzalez  
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OFF-SITE SEWER SYSTEM  
PLAN & PROFILE

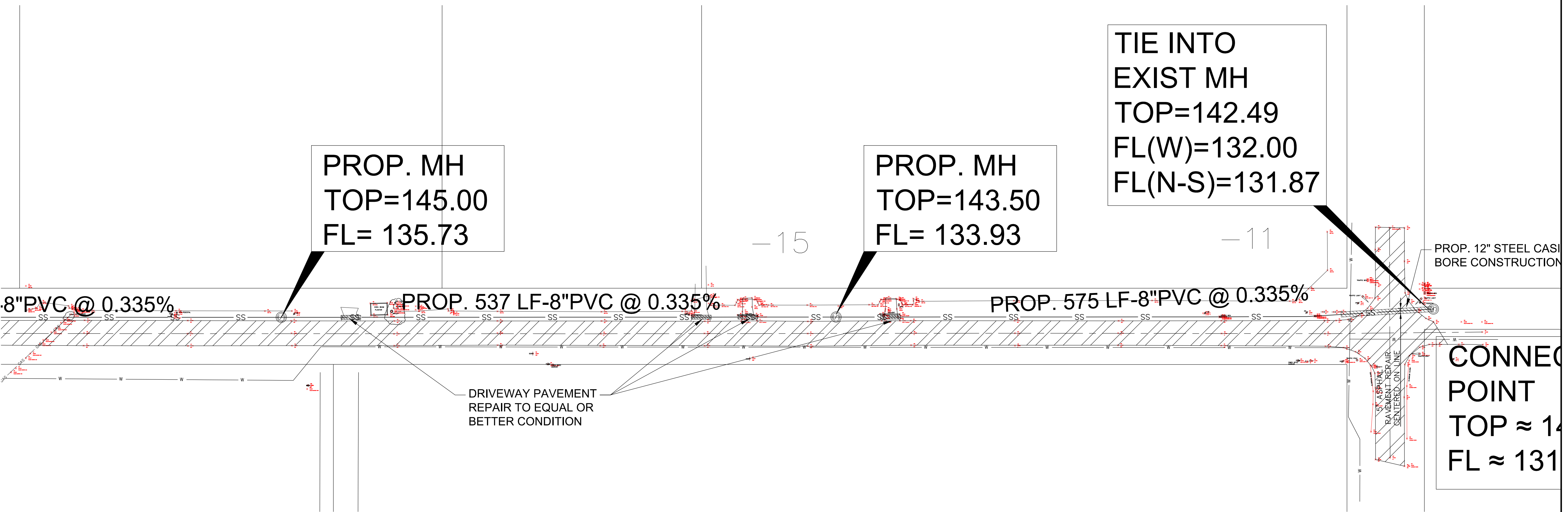
NEMONT II SUBDIVISION  
McAlLEN, TEXAS



3/23/23  
Rene Barrera  
Licensed Professional  
Engineer # 86862

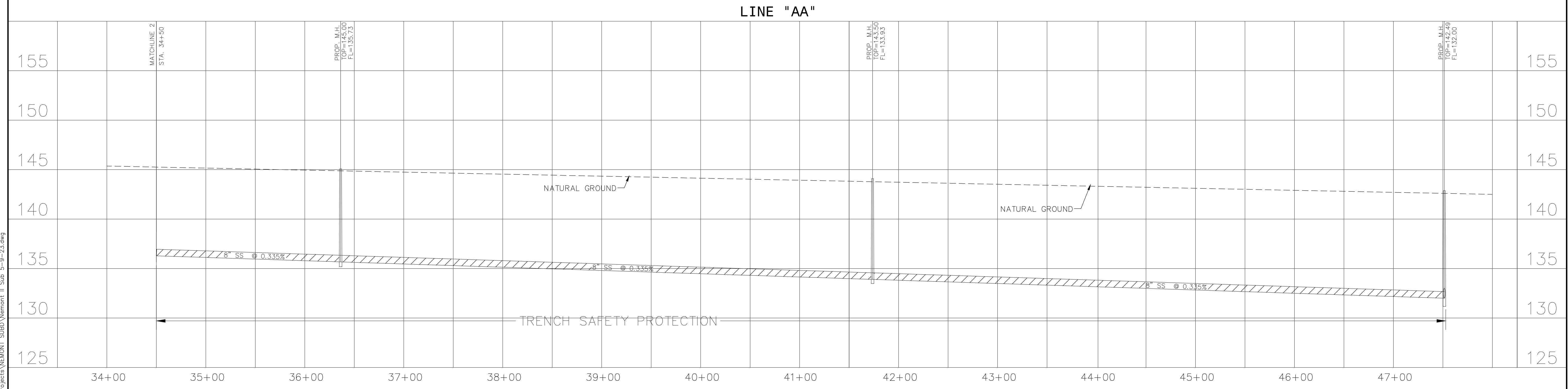
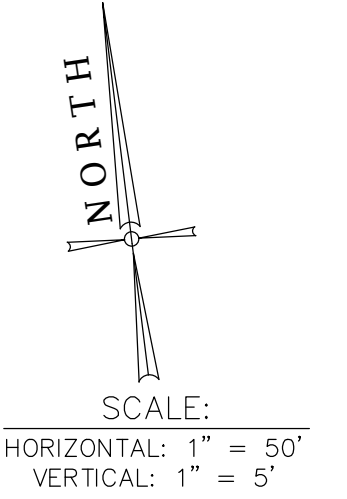
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Scale: 1"=30'  
Designed By: R.B.  
Drawn By: E.S.  
Checked By: R.B.  
Project No.:

Sheet of  
11



\* SEE SHEET 19 FOR TRAFFIC CONTROL PLAN DETAIL

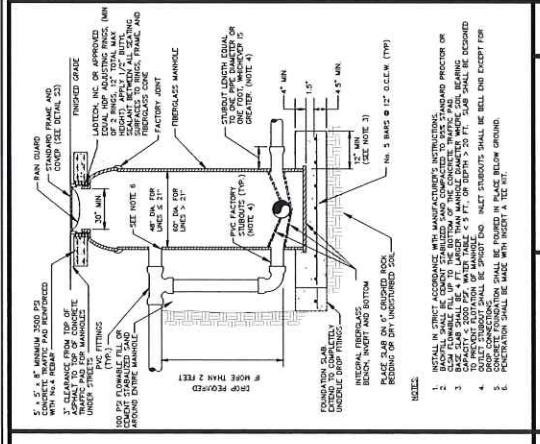
FOR CONSTRUCTION  
THIS DOCUMENT HAS BEEN RELEASED FOR CONSTRUCTION.  
BY RENE BARRERA, P.E. No. 86862.  
3/23/23



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**TYPICAL FIBERGLASS MANHOLE**  
 H:\Drawings\MPU\Logos\MPU Logo.ppt  
**S2**

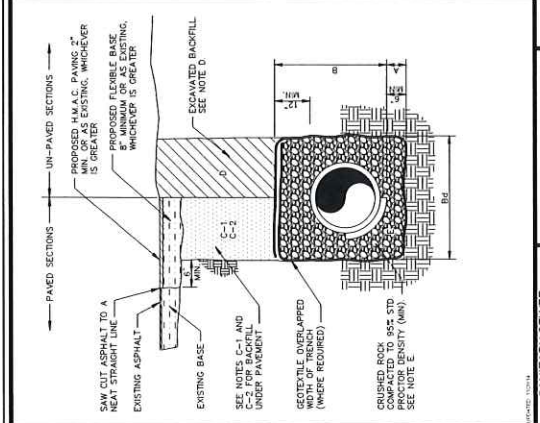


**SANITARY SEWER (GRAVITY FLOW) PIPE BEDDING DETAIL**  
**S1**

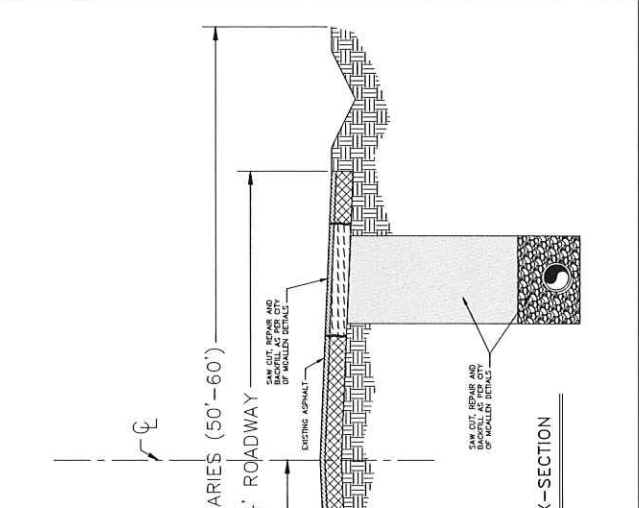
**GENERAL NOTES:**

- CRUSHED ROCK BEDDING PLACED, HAND LEVELED, AND COMPACTED BEFORE PIPE IS LAID, UP TO BOTTOM OF PIPE (MIN THICKNESS = 6").
- CRUSHED ROCK BACKFILL PLACED AND COMPACTED AFTER PIPE IS LAID, FROM MANHOLES AND CONTACT BY HAND TO SPRING LINE. USE VIBRATORY-TYPE COMPACTORS FOR LIFTS ABOVE THE SPRING LINE. MAXIMUM 6" LIFTS.
- MINIMUM TRENCH WIDTH: PIPE O.D. + 16" (FOR 15" PIPE AND SMALLER) PIPE O.D. X 1.25 + 12" (FOR 18" PIPE AND LARGER)
- (CITY STREETS, PARKING AREA, AND DRIVEWAYS) SELECT EXCAVATED BACKFILL LIFT BY LIFT, MECHANICALLY COMPACTED TO 95% STANDARD PROCTOR DENSITY IN 8" MAX. LIFTS.
- (CITY STREETS, PARKING AREA, AND DRIVEWAYS) SELECT EXCAVATED BACKFILL LIFT BY LIFT, MECHANICALLY COMPACTED TO 95% STANDARD PROCTOR DENSITY WITH 7% PORTLAND CEMENT COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- EXCAVATED EARTH BACKFILL MECHANICALLY COMPACTED TO 95% STANDARD PROCTOR DENSITY. MINIMUM STANDARD PROCTOR DENSITY 95% INSIDE RIGHT OF WAY.
- EMBEDMENT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM D 1557. CRUSHED ROCK SHALL BE 1/2" TO 3/4" SIZE FOR PIPE SIZE ≤ 15". GREATER THAN 90% OF CRUSHED ROCK SHALL HAVE AT LEAST THREE BROKEN FACES NO MORE THAN 2X UNBROKEN.
- IN UNPAVED SOILS WITH LINES OR UNSTABLE SOILS, EMBEDMENT ZONE SHALL BE WRAPPED WITH GEOTEXTILE.
- WHERE THIS STANDARD CONFLICTS WITH THE RECOMMENDATION OF ANY GEOTECHNICAL REPORT, OBTAIN WRITTEN CLARIFICATION FROM THE UTILITY ENGINEER PRIOR TO CONSTRUCTION.
- FOUNDATION PREPARATION USING CORBELS, GRAVEL, GEOTEXTILES, OR OTHER METHODS APPROVED BY THE ENGINEER SHALL BE REQUIRED WHEN THROUGH BOTTOM OF UNDESIRABLE FOUNDATION.
- 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.

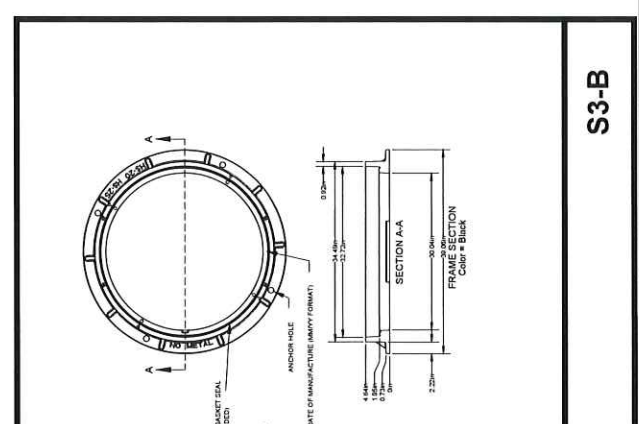
**SANITARY SEWER (GRAVITY FLOW) PIPE BEDDING DETAIL**  
**S1A**



**SANITARY SEWER (GRAVITY FLOW) PIPE BEDDING DETAIL**  
**S1**



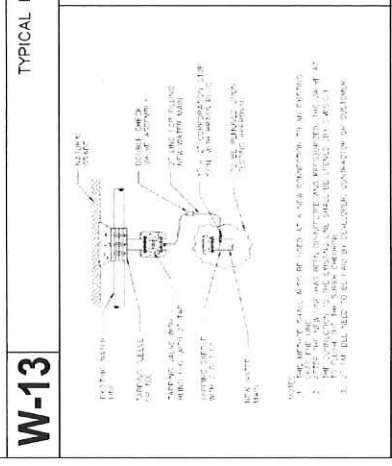
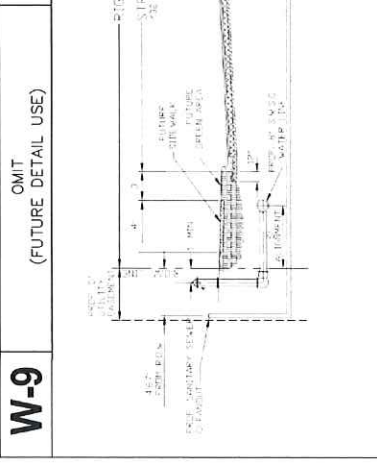
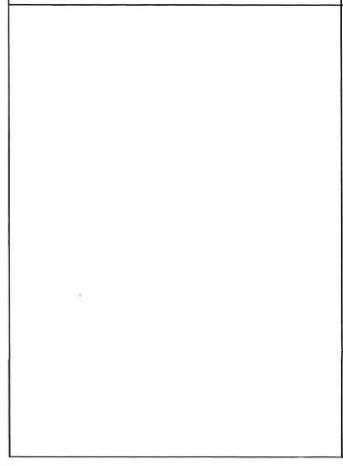
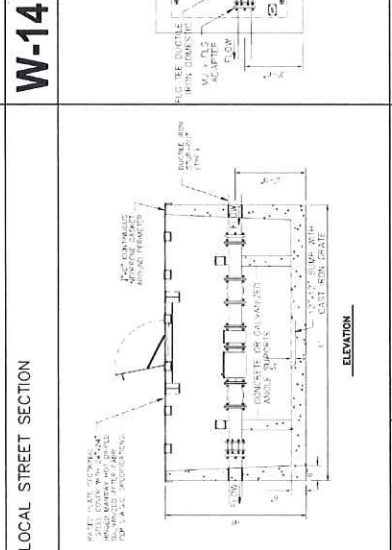
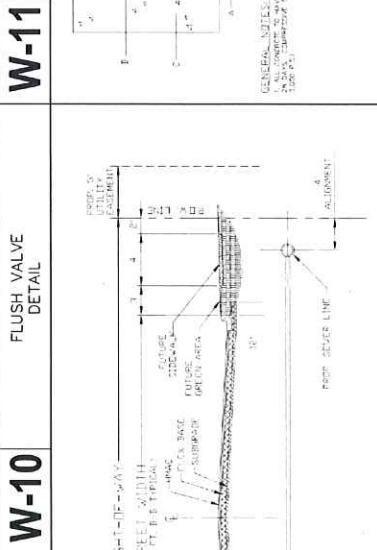
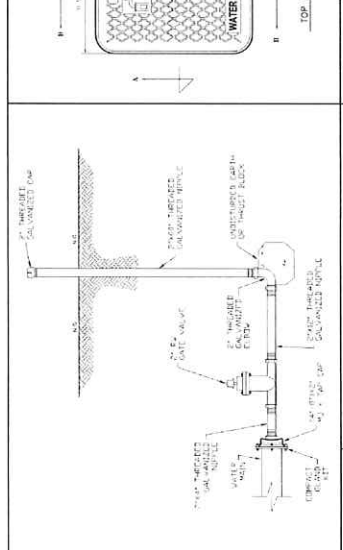
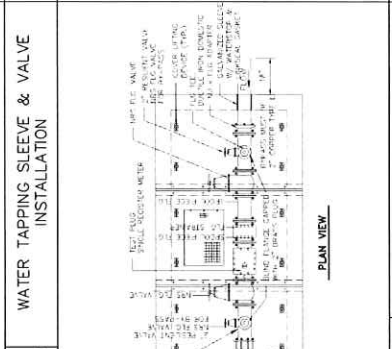
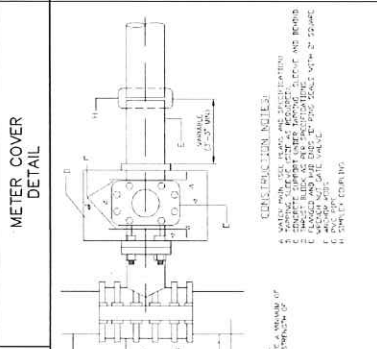
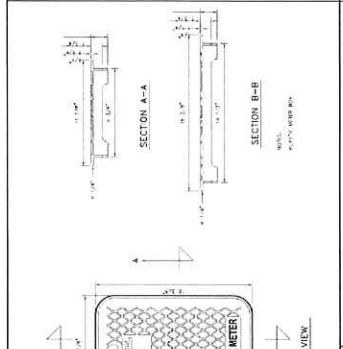
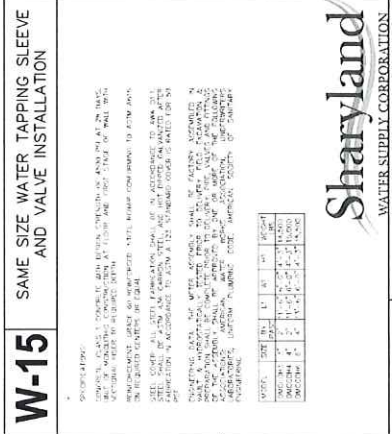
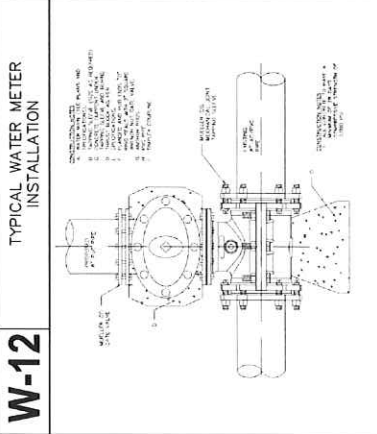
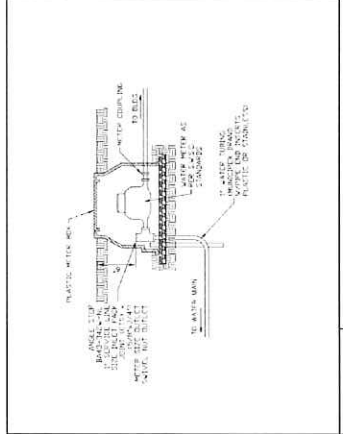
**SEWER UNDER ROADWAY X-SECTION**  
 NOT TO SCALE



**COMPOSITE SEWER MANHOLE RING AND COVER DETAIL**  
 N.T.S.  
 UPDATED 11/30/22







**W-12** TYPICAL WATER METER INSTALLATION

**W-11** METER COVER DETAIL

**W-10** FLUSH VALVE DETAIL

**W-9** OMIT (FUTURE DETAIL USE)

**W-15** SAME SIZE WATER TAPPING SLEEVE AND VALVE INSTALLATION

**W-14** WATER TAPPING SLEEVE & VALVE INSTALLATION

**W-13** TYPICAL LOCAL STREET SECTION

**W-16** METHOD FOR FILLING NEW WATER LINES PRIOR TO CHLORINATION AND TESTING

**W-17C** WATER VAULT DETAILS

**W-17B** METER VAULT DETAILS

**W-17A** METER VAULT DETAILS

**W-17A** METER VAULT DETAILS







**LEGEND**

	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Variable Message Sign (VMS)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed * Formula	Minimum Taper Lengths * 10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Minimum Spacing of Channelizing Devices	Suggested Maximum Spacing of Channelizing Devices	Suggested Longitudinal Spacing of Barricades	Stopping Sight Distance
30	150'	165'	180'	30'	60'	120'	90'	200'	200'
35	175'	195'	215'	35'	70'	160'	120'	250'	250'
40	200'	225'	245'	40'	80'	240'	155'	305'	305'
45	225'	255'	285'	45'	90'	320'	195'	360'	360'
50	250'	285'	320'	50'	100'	400'	240'	425'	425'
55	275'	315'	355'	55'	110'	500'	295'	495'	495'
60	300'	345'	390'	60'	120'	600'	350'	570'	570'
65	325'	375'	425'	65'	130'	700'	410'	645'	645'
70	350'	405'	460'	70'	140'	800'	475'	730'	730'
75	375'	435'	495'	75'	150'	900'	540'	820'	820'

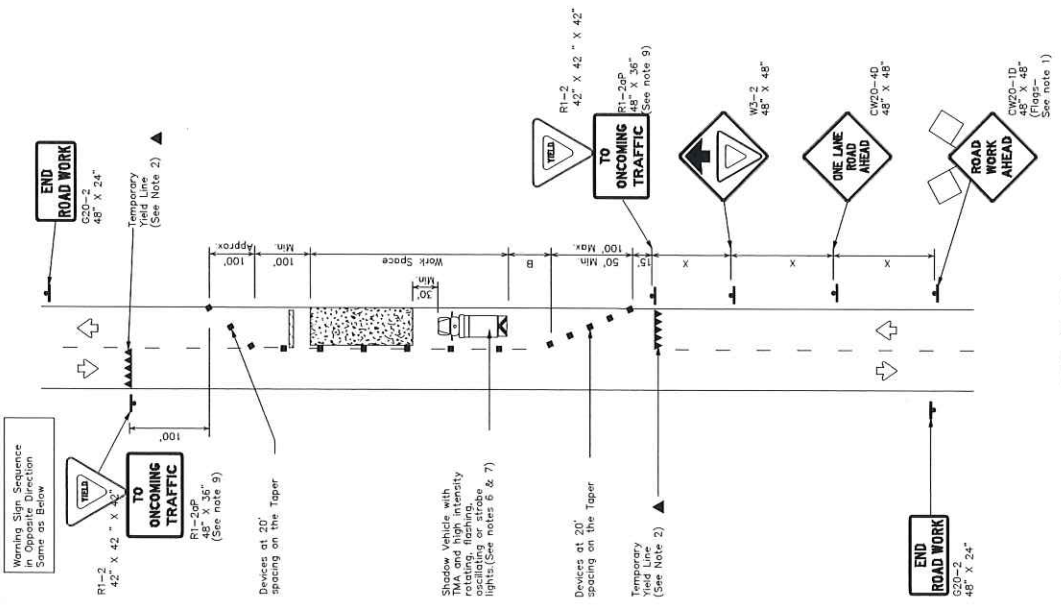
\* Conventional Roads Only  
\*\* Taper lengths have been rounded off.  
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

**TYPICAL USAGE**

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

**GENERAL NOTES**

- Flas 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.
- ALL REQUIRED TO STOP sign may be installed, like the CW20-4 ONE LANE ROAD XXX FT sign, but proper sign spacing shall be maintained.
- Flagger should use two-way radios or other methods of communication to control traffic.
- Length of work space should be based on the ability of flaggers to communicate.
- A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet behind the work area. 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. Vehicles with TMA's may be positioned off the paved surface, next to those shown in order to protect a wider work space.
- TCP (2-2a)
- The R1-2 "YIELD" sign traffic control may be used on projects with approaches that have adequate sight distance. For projects in urban areas, work space should be no longer than one half city block. In rural areas, roadways with less than 2000 ADT, work space should be no longer than 400 feet. The R1-2 Barricade and ONCOMING TRAFFIC sign shall be placed on a support at a 7' foot minimum mounting height.



TCP (2-2a)  
2-LANE ROADWAY WITHOUT PAVED SHOULDERS  
ONE LANE TWO-WAY  
CONTROL WITH YIELD SIGNS  
(Less than 2000 ADT - See Note 9)