

**COST ESTIMATE**

**CUATRO VIENTOS EAST SUBDIVISION, PHASE 1**

Offsite Sanitary Sewer Improvements along Loop 20

2/28/2024

ITEM No.	DESCRIPTION	QUANTITY	UNIT	CONSTRUCTION COST PAID		CONSTRUCTION COST CURRENT	
				UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
<b>OFFSITE</b>							
<b>SANITARY SEWER SYSTEM</b>							
1	12" PVC Sanitary Sewer Line (SDR-26)(Depth 4'-8')	1,058	L.F.	\$ 37.50	\$ 39,675.00	\$ 122.00	\$ 129,076.00
2	8" PVC Sanitary Sewer Line (SDR-26)(Depth 4'-8')	620	L.F.	\$ 32.50	\$ 20,150.00	\$ 95.00	\$ 58,900.00
3	8" PVC Sanitary Sewer Line (SDR-26)(Depth 8'-12')	1,560	L.F.	\$ 38.50	\$ 60,060.00	\$ 105.00	\$ 163,800.00
4	8" PVC Sanitary Sewer Line (SDR-26)(Depth 12'-14')	80	L.F.	\$ 48.50	\$ 3,880.00	\$ 135.00	\$ 10,800.00
5	Manholes (Depth 4'-8')	3	Ea.	\$ 3,715.00	\$ 11,145.00	\$ 7,200.00	\$ 21,600.00
6	Manholes (Depth 8'-12')	4	Ea.	\$ 4,315.00	\$ 17,260.00	\$ 9,550.00	\$ 38,200.00
7	Drop Manholes (Depth 4'-8')	1	Ea.	\$ 4,150.00	\$ 4,150.00	\$ 8,700.00	\$ 8,700.00
8	Drop Manholes (Depth 12'-14')	1	Ea.	\$ 4,950.00	\$ 4,950.00	\$ 12,800.00	\$ 12,800.00
9	8" Sanitary Sewer Tie-In	1	Ea.	\$ 2,860.00	\$ 2,860.00	\$ 3,500.00	\$ 3,500.00
<b>TOTAL</b>					<b>\$ 164,130.00</b>		<b>\$ 447,376.00</b>

**PROPOSED WASTEWATER IMPROVEMENTS LOCATION**

PT. NUMBER	NORTHING	EASTING	ELEVATION'	DESCRIPTION
1	17053442.38	678049.68	472.96	EXIST. S.S. MANHOLE
2	17053393.02	678311.16	473.94	EXIST. S.S. CLEANOUT
3	17053400.18	678266.66	473.40	S.S. MANHOLE A-1
4	17053059.89	678184.04	476.42	S.S. MANHOLE A-2
5	17052732.25	678063.41	478.44	S.S. MANHOLE A-3
6	17052423.73	677904.69	481.48	S.S. MANHOLE A-4
7	17052008.89	677683.57	486.18	S.S. MANHOLE A-5
8	17051618.73	677427.45	492.07	S.S. MANHOLE A-6
9	17051266.60	677239.53	495.88	S.S. MANHOLE A-7
10	17051052.04	677115.59	504.15	S.S. MANHOLE A-8
11	17050827.46	677006.11	507.43	S.S. MANHOLE A-9
12	17050643.88	676834.36	511.38	S.S. MANHOLE A-10
13	17050339.39	677086.26	512.69	S.S. MANHOLE B-1
14	17050237.80	677159.07	513.21	S.S. MANHOLE B-2
15	17050128.91	677405.96	514.31	S.S. MANHOLE B-3
16	17050052.82	677372.33	516.24	S.S. MANHOLE C-1
17	17050041.06	677823.33	518.91	S.S. MANHOLE C-2
18	17050122.76	677107.12	514.72	S.S. MANHOLE C-3
19	17050813.57	676970.38	521.65	S.S. MANHOLE G-2
20	17050501.08	676831.03	531.73	S.S. MANHOLE G-1
21	17050429.38	677097.11	534.05	S.S. CLEANOUT H-1
22	17050699.80	677215.33	528.23	S.S. MANHOLE F-2
23	17050343.75	677056.21	536.15	S.S. CLEANOUT F-1
24	17050586.82	677468.11	528.00	S.S. MANHOLE D-2
25	17050324.45	677349.96	535.50	S.S. CLEANOUT D-1
26	17050521.30	677014.58	527.13	S.S. CLEANOUT E-1
27	17050891.77	676777.21	522.91	S.S. CLEANOUT H-1
28	17050919.44	677010.88	520.79	S.S. SERVICE DOUBLE
29	17050902.87	677047.31	519.54	S.S. SERVICE DOUBLE
30	17050903.19	677083.37	517.80	S.S. SERVICE SINGLE
31	17050906.16	677094.58	517.76	S.S. SERVICE SINGLE
32	17050166.39	677121.05	515.69	S.S. SERVICE DOUBLE
33	17050241.07	677146.15	516.48	S.S. SERVICE SINGLE
34	17050246.41	677159.20	515.15	S.S. SERVICE SINGLE
35	17050232.26	677209.79	515.89	S.S. SERVICE SINGLE
36	17050217.74	677230.73	515.75	S.S. SERVICE SINGLE
37	17050180.82	677301.42	516.03	S.S. SERVICE DOUBLE
38	17050145.80	677385.30	516.35	S.S. SERVICE DOUBLE
39	17050115.64	677448.41	516.65	S.S. SERVICE DOUBLE
40	17050040.85	677414.33	516.42	S.S. SERVICE SINGLE
41	17050022.89	677406.34	516.95	S.S. SERVICE SINGLE
42	17050944.27	677369.93	520.72	S.S. SERVICE DOUBLE
43	17050902.87	677334.76	523.44	S.S. SERVICE DOUBLE
44	17050700.70	677296.09	525.55	S.S. SERVICE DOUBLE
45	17050661.84	677244.89	528.77	S.S. SERVICE SINGLE
46	17050584.38	677210.81	530.95	S.S. SERVICE DOUBLE
47	17050502.00	677174.43	533.47	S.S. SERVICE DOUBLE
48	17050420.22	677137.47	536.14	S.S. SERVICE DOUBLE
49	17050341.00	677108.72	539.46	S.S. SERVICE DOUBLE
50	17050300.96	677040.26	537.82	S.S. SERVICE DOUBLE
51	17050306.21	676956.95	537.22	S.S. SERVICE DOUBLE
52	17050432.69	676876.06	536.61	S.S. SERVICE DOUBLE
53	17050466.42	676809.92	535.59	S.S. SERVICE DOUBLE
54	17050535.31	676839.94	532.22	S.S. SERVICE DOUBLE
55	17050618.03	676877.22	530.09	S.S. SERVICE DOUBLE
56	17050700.32	676915.18	527.29	S.S. SERVICE DOUBLE
57	17050779.30	676948.10	524.92	S.S. SERVICE SINGLE
58	17050888.62	677049.24	522.78	S.S. SERVICE DOUBLE
59	17050970.37	677087.22	520.31	S.S. SERVICE DOUBLE
60	17050603.51	677123.57	518.11	S.S. SERVICE DOUBLE
61	17050135.24	677160.31	516.23	S.S. SERVICE DOUBLE
62	17050045.43	677362.39	517.89	S.S. SERVICE DOUBLE
63	17050903.17	677326.36	520.40	S.S. SERVICE DOUBLE
64	17050881.49	677289.46	522.71	S.S. SERVICE DOUBLE
65	17050938.93	677253.13	525.16	S.S. SERVICE DOUBLE
66	17050881.77	677201.85	528.21	S.S. SERVICE SINGLE
67	17050609.46	677168.48	530.52	S.S. SERVICE DOUBLE
68	17050525.62	677131.93	532.79	S.S. SERVICE DOUBLE
69	17050444.53	677095.34	535.67	S.S. SERVICE DOUBLE
70	17050534.25	676991.86	533.81	S.S. SERVICE DOUBLE
71	17050618.18	676929.40	530.58	S.S. SERVICE DOUBLE
72	17050699.24	676965.44	527.99	S.S. SERVICE DOUBLE
73	17050771.36	676998.43	525.48	S.S. SERVICE SINGLE
74	17050692.57	677506.77	525.42	S.S. SERVICE DOUBLE
75	17050793.41	677551.76	523.19	S.S. SERVICE DOUBLE
76	17050689.98	677594.40	521.94	S.S. SERVICE SINGLE
77	17050699.91	677598.33	521.44	S.S. SERVICE SINGLE
78	17050887.26	677650.38	521.94	S.S. SERVICE DOUBLE
79	17050788.09	677602.00	522.97	S.S. SERVICE DOUBLE
80	17050687.37	677553.29	528.12	S.S. SERVICE SINGLE
81	17050549.73	677496.96	529.30	S.S. SERVICE DOUBLE
82	17050458.86	677455.68	531.97	S.S. SERVICE DOUBLE
83	17050588.32	677416.88	535.54	S.S. SERVICE DOUBLE
84	17050573.94	677364.86	535.72	S.S. SERVICE SINGLE
85	17050382.90	677368.71	535.10	S.S. SERVICE SINGLE
86	17050478.67	677411.93	531.39	S.S. SERVICE DOUBLE
87	17050569.93	677452.14	528.51	S.S. SERVICE SINGLE

\*NOTE: INVERT ELEVATIONS SHOWN ON THIS TABLE

NOTE:  
1. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE w/ENGINEER X,Y,Z, SEWER SERVICE DURING CONSTRUCTION FOR AS BUILT PLANS.  
2. COORDINATES FOR PROPOSED WASTEWATER IMPROVEMENTS WILL BE REVISED ON THE AS BUILT PLANS AS REQUIRED.

**CCTV INSPECTION**

ALL BACKFILLED SANITARY SEWER MAINS MUST BE INSPECTED AND APPROVED BY CCTV METHODS CONDUCTED SOLELY BY THE WATER UTILITIES DEPARTMENT, WHICH ARE PERFORMED TO CHECK THE SEWERS FOR DIPS, PONDING, PIPE DEFLECTION, JOINT SEPARATION, INFILTRATION, AND OTHER UNACCEPTABLE PIPE CONDITIONS. THE CCTV TEST WILL BE CONDUCTED IN ADDITION TO THE CONTRACTOR'S AIR CURB AND DEFLECTION TESTS SPECIFIED SEPARATELY. CONNECTION AND TIE-INS TO EXISTING DOWNSTREAM SANITARY SEWERS WILL BE PROHIBITED UNTIL ALL NEW SEWERS AND MANHOLES HAVE BEEN FULLY CLEANED, TESTED AND APPROVED BY THE CITY.

THE CONTRACTOR SHALL SEQUENCE SANITARY SEWER INSTALLATION TO ALLOW ADEQUATE TIME FOR THE WATER UTILITIES DEPARTMENT TO SCHEDULE, CCTV TEST, APPROVE AND/OR DISAPPROVED WITH ASSOCIATED RESCHEDULE AND RETESTING. ALL SANITARY SEWER MAINS AND MANHOLES SHALL BE FULLY TESTED AND APPROVED BY THE CITY PRIOR TO COMMENCING CONCRETE CURB OR ASPHALT PAVEMENT INSTALLATION, UNLESS APPROVED IN WRITING BY THE ENGINEER AND OWNER. ALL REPAIRS OR RECONSTRUCTION OF ANY IMPROVEMENT RELATED TO FAILED TESTS SHALL BE COMPLETED BY THE CONTRACTOR AT NO COST TO THE OWNER. TIME DELAYS CAUSED BY CCTV FAILURES WILL BE CHARGED TO THE PROJECT SCHEDULE AND SUBJECT TO RELATED PENALTIES.

PRIOR TO A CCTV INSPECTION REQUEST, THE CONTRACTOR SHALL FULLY FLUSH AND CLEAN THE SEWER MAINS BY A HYDRAULIC, HIGH VELOCITY, OR MECHANICAL METHOD DESCRIBED IN CITY SPECIFICATIONS. THE CLEANING SHALL REMOVE ALL SILT, ROCK, AND DEBRIS. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, LABOR, WATER, AND PUMPING REQUIRED TO CLEAN THE NEW SEWERS. THERE WILL BE NO SEPARATE PAY ITEM FOR SEWER MAIN CLEANING OR ANY COST RELATED TO CCTV INSPECTION COORDINATION. ALL SUCH COSTS SHALL BE INCLUDED WITH AND CONSIDERED FULLY SUBSIDIARY TO UNIT BID PRICE FOR THE RELATED SANITARY SEWER BID ITEM.

**LEGEND**

	= BLOW OFF VALVE		= FIRE HYDRANT
	= PLUG		= CLEANOUT
	= REDUCER		= MANHOLE
	= GATE VALVE		= SINGLE SEWER SERVICE
	= MJ CROSS TEE		= DOUBLE SEWER SERVICE
	= MJ TEE		= WATER MAIN
	= MJ 90° ELBOW		= WASTEWATER MAIN
	= SINGLE WATER SERVICE		= RRM-295-26
	= DOUBLE WATER SERVICE		= STREET LIGHT

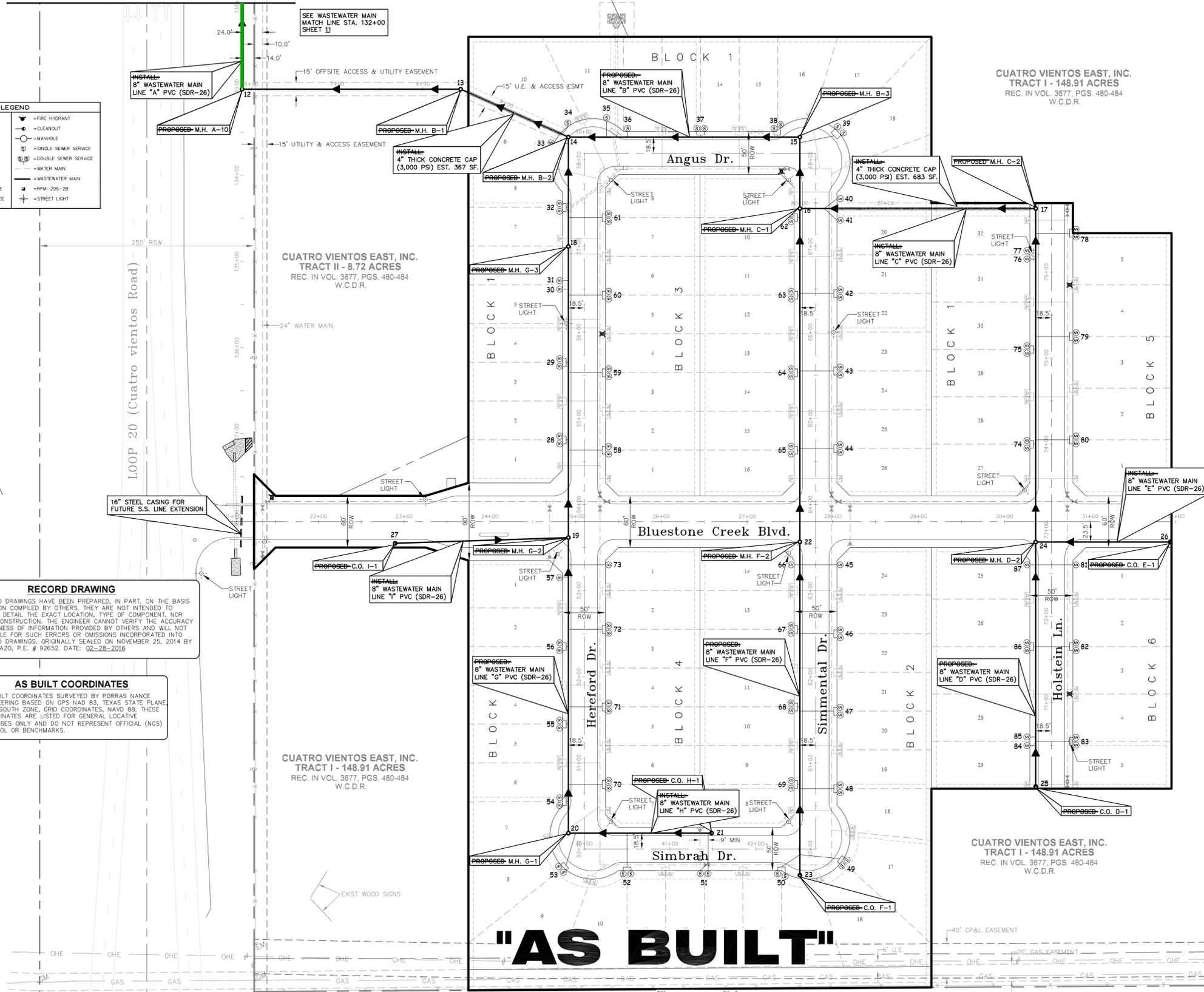
**RECORD DRAWING**

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT, NOR MANNER OR CONSTRUCTION. THE ENGINEER CANNOT VERIFY THE ACCURACY OR COMPLETENESS OF INFORMATION PROVIDED BY OTHERS AND WILL NOT BE RESPONSIBLE FOR SUCH ERRORS OR OMISSIONS INCORPORATED INTO THESE RECORD DRAWINGS. ORIGINALLY SEALED ON NOVEMBER 25, 2014 BY ROGELIO BALDIZO, P.E. # 92652. DATE: 02-28-2016

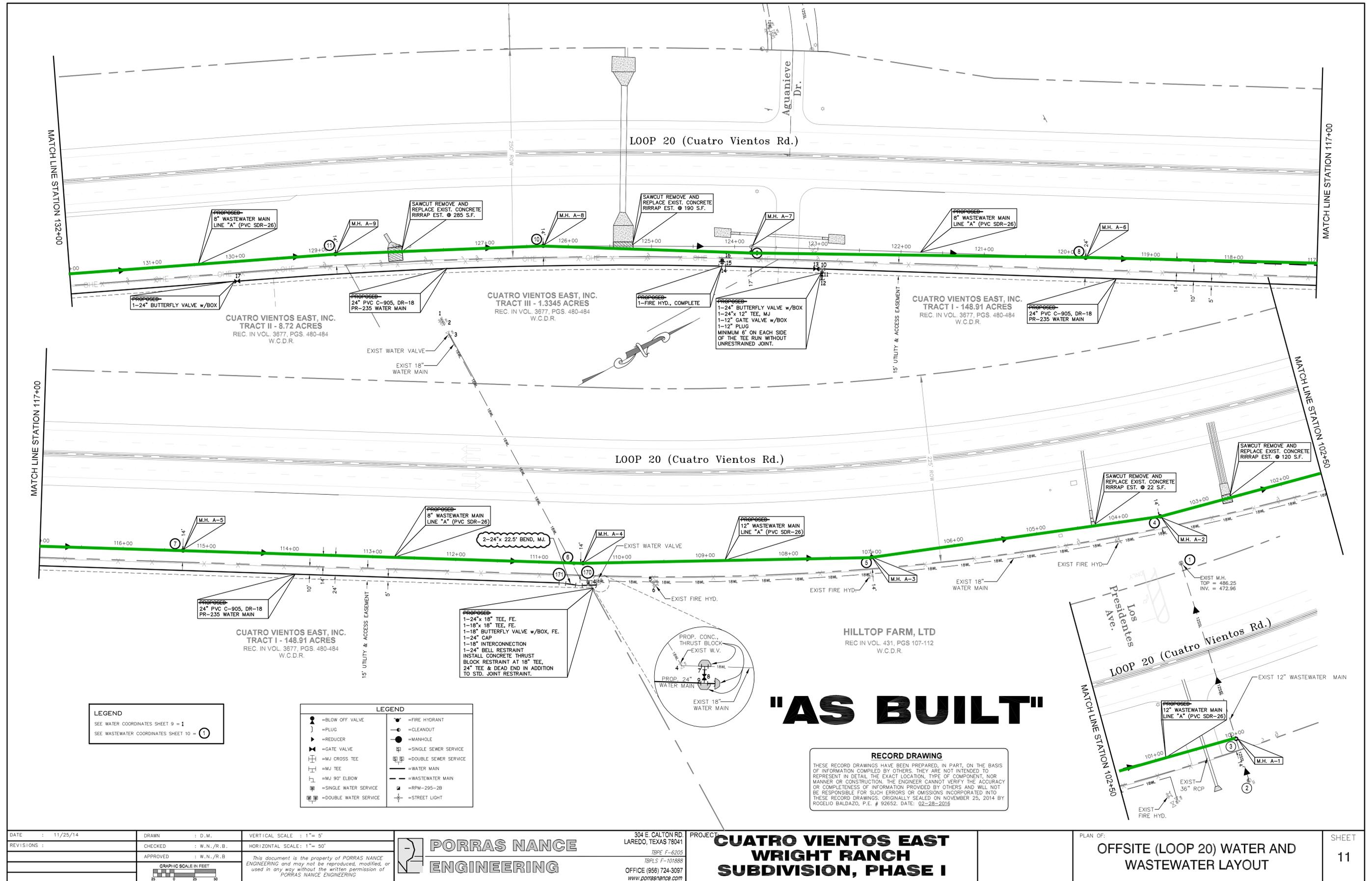
**AS BUILT COORDINATES**

AS BUILT COORDINATES SURVEYED BY PORRAS NANCE ENGINEERING BASED ON GPS NAD 83, TEXAS STATE PLANE, 4205 SOUTH ZONE, GRID COORDINATES, NAVD 88. THESE COORDINATES ARE LISTED FOR GENERAL LOCATIVE PURPOSES ONLY AND DO NOT REPRESENT OFFICIAL (NGS) CONTROL OR BENCHMARKS.

MATCH LINE STATION 132+00



**"AS BUILT"**



**LEGEND**  
 SEE WATER COORDINATES SHEET 9 = 1  
 SEE WASTEWATER COORDINATES SHEET 10 = 1

LEGEND	
	= BLOW OFF VALVE
	= PLUG
	= REDUCER
	= GATE VALVE
	= MJ CROSS TEE
	= MJ TEE
	= MJ 90° ELBOW
	= SINGLE WATER SERVICE
	= DOUBLE WATER SERVICE
	= FIRE HYDRANT
	= CLEANOUT
	= MANHOLE
	= SINGLE SEWER SERVICE
	= DOUBLE SEWER SERVICE
	= WATER MAIN
	= WASTEWATER MAIN
	= RPM-295-2B
	= STREET LIGHT

# "AS BUILT"

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DATE : 11/25/14	DRAWN : D.M.	VERTICAL SCALE : 1" = 5'		304 E. CALTON RD. LAREDO, TEXAS 78041 TPPE F-6205 TBPLS F-101888 OFFICE (956) 724-3087 www.porrasnance.com	PROJECT :	<b>CUATRO VIENTOS EAST          WRIGHT RANCH          SUBDIVISION, PHASE I</b>	PLAN OF :	<b>OFFSITE (LOOP 20) WATER AND          WASTEWATER LAYOUT</b>	SHEET
REVISIONS :	CHECKED : W.N./R.B.	HORIZONTAL SCALE : 1" = 50'							11
	APPROVED : W.N./R.B.	This document is the property of PORRAS NANCE ENGINEERING and may not be reproduced, modified, or used in any way without the written permission of PORRAS NANCE ENGINEERING.							

LEGEND	
	= BLOW OFF VALVE
	= PLUG
	= REDUCER
	= GATE VALVE
	= MJ CROSS TEE
	= MJ TEE
	= MJ 90° ELBOW
	= SINGLE WATER SERVICE
	= DOUBLE WATER SERVICE
	= FIRE HYDRANT
	= CLEANOUT
	= MANHOLE
	= SINGLE SEWER SERVICE
	= DOUBLE SEWER SERVICE
	= WATER MAIN
	= WASTEWATER MAIN
	= RPM-295-2B
	= STREET LIGHT

**TRENCH EXCAVATION PROTECTION**  
 CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO DEVELOP THE CONTRACTOR'S PLANS TO IMPLEMENT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S PLANS SHALL PROVIDE FOR ADEQUATE TRENCH SAFETY SYSTEM THAT COMPLY WITH, AS MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL DEVELOP AND IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

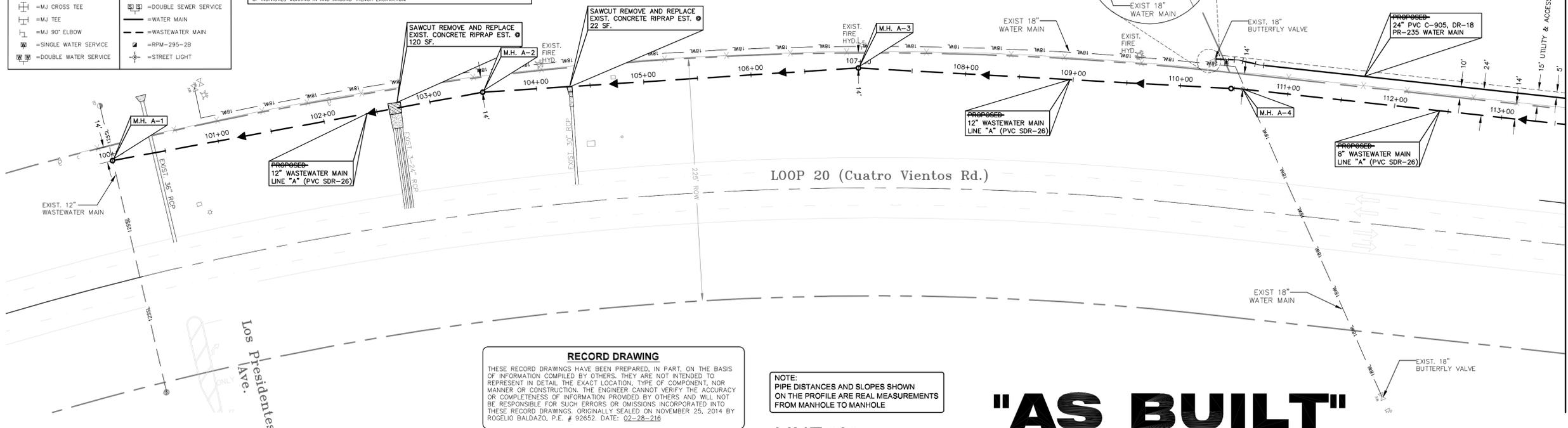
SAWCUT REMOVE AND REPLACE EXIST. CONCRETE RIPRAP EST. @ 120 SF.

SAWCUT REMOVE AND REPLACE EXIST. CONCRETE RIPRAP EST. @ 22 SF.

HILLTOP FARM, LTD.  
 REC IN VOL. 431, PGS 107-122  
 W.C.D.R.

CUATRO VIENTOS EAST, INC.  
 TRACT I - 148.91 ACRES  
 REC. IN VOL. 3677, PGS. 480-484  
 W.C.D.R.

MATCH LINE STA. 113+50

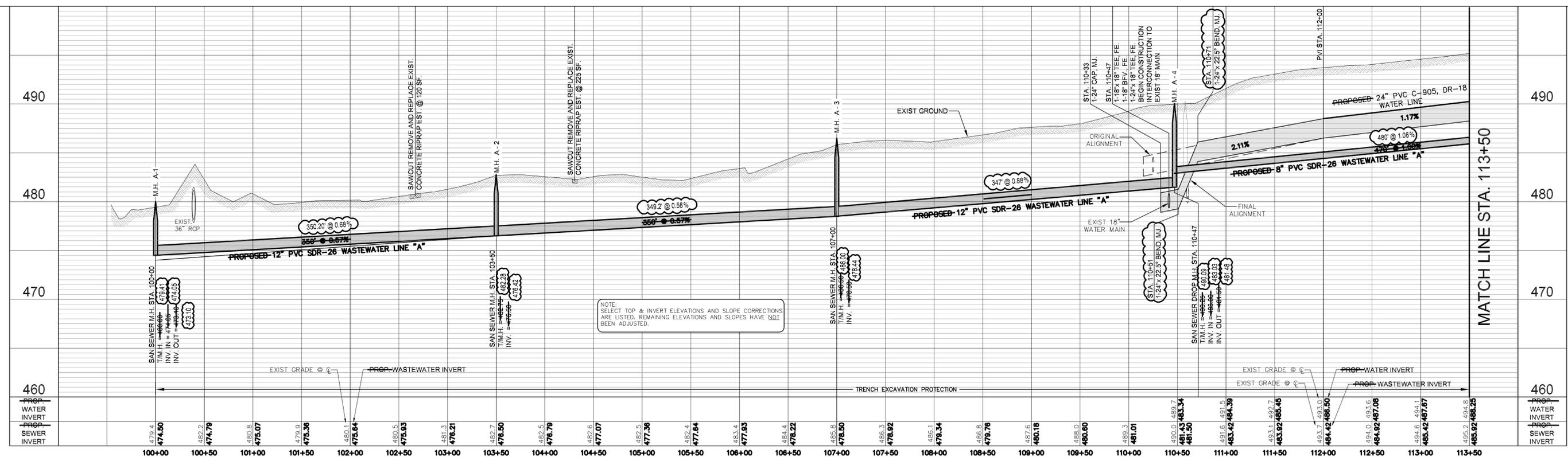


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**NOTE:**  
 PIPE DISTANCES AND SLOPES SHOWN ON THE PROFILE ARE REAL MEASUREMENTS FROM MANHOLE TO MANHOLE

**"AS BUILT"**

LINE "A"



DATE : 11/25/14	DRAWN : D.M.	VERTICAL SCALE : 1" = 5'		304 E. CALTON RD. LAREDO, TEXAS 78041 TPPE F-6205 TBPLS F-101888 OFFICE (956) 724-3087 www.porrasnance.com	<b>PROJECT: CUATRO VIENTOS EAST WRIGHT RANCH SUBDIVISION, PHASE I</b>	PLAN OF: OFFSITE (LOOP 20) WATER & WASTEWATER PLAN & PROFILE STA. 100+00 TO 113+50	SHEET 12
REVISIONS :	CHECKED : W.N./R.B.	HORIZONTAL SCALE: 1" = 50'					
	APPROVED : W.N./R.B.						

MATCH LINE STA. 113+50

MATCH LINE STA. 127+50

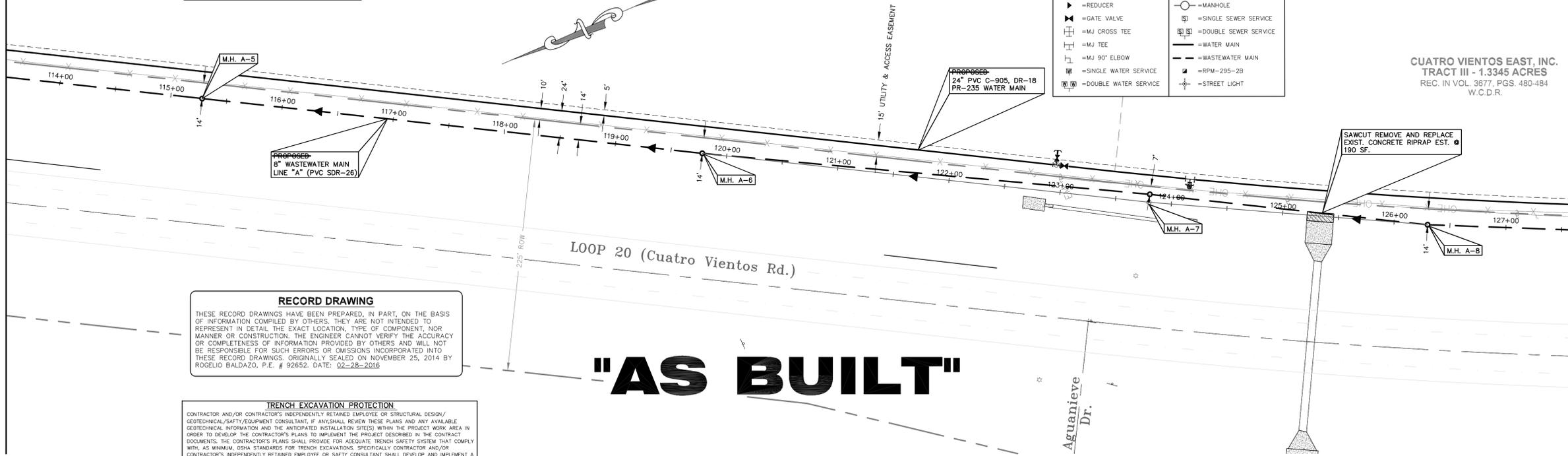
NOTE: PIPE DISTANCES AND SLOPES SHOWN ON THE PROFILE ARE REAL MEASUREMENTS FROM MANHOLE TO MANHOLE

CUATRO VIENTOS EAST, INC. TRACT I - 148.91 ACRES REC. IN VOL. 3677, PGS. 480-484 W.C.D.R.

CUATRO VIENTOS EAST, INC. TRACT III - 1.3345 ACRES REC. IN VOL. 3677, PGS. 480-484 W.C.D.R.

**LEGEND**

	= BLOW OFF VALVE		= FIRE HYDRANT
	= PLUG		= CLEANOUT
	= REDUCER		= MANHOLE
	= GATE VALVE		= SINGLE SEWER SERVICE
	= MJ CROSS TEE		= DOUBLE SEWER SERVICE
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	= SINGLE WATER SERVICE		= RPM-295-2B
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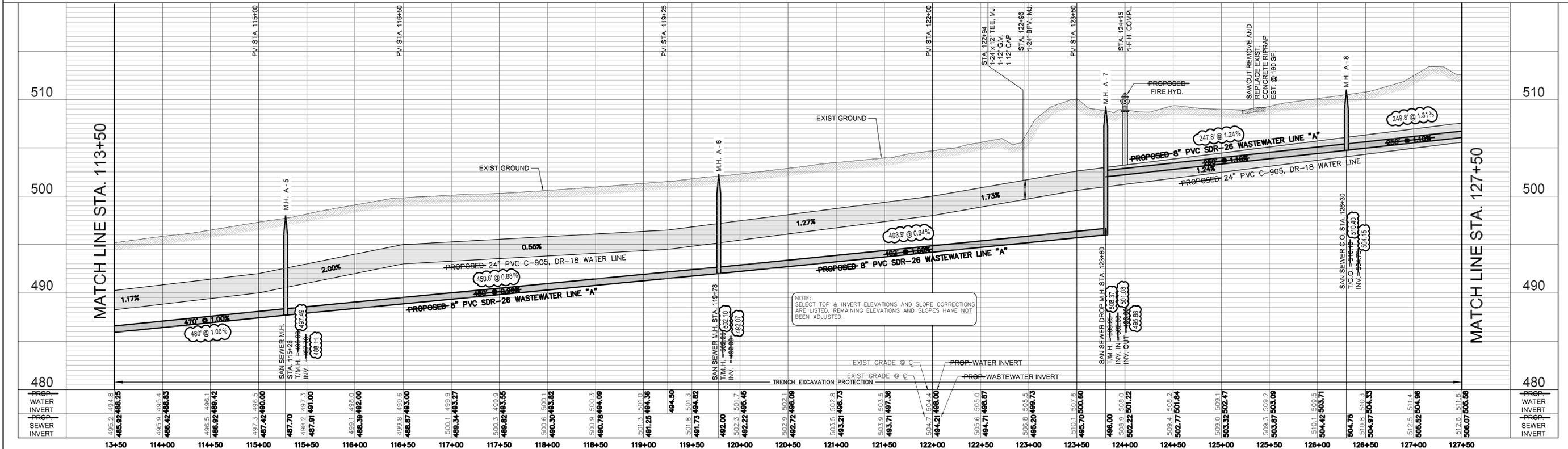


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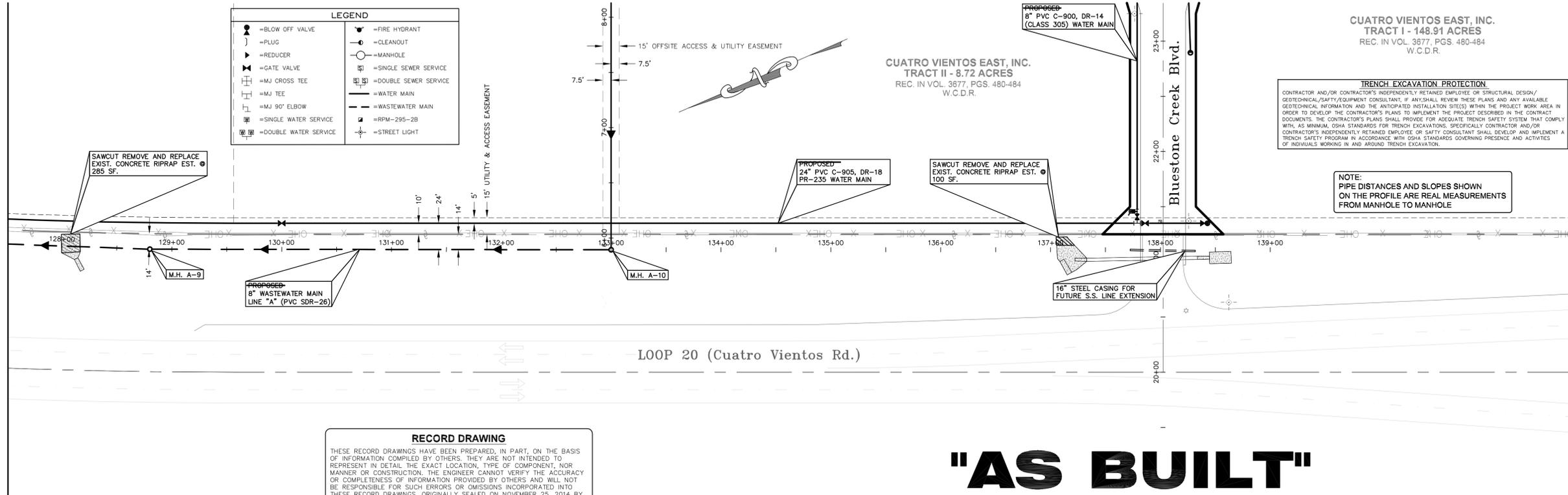
**TRENCH EXCAVATION PROTECTION**  
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES) WITHIN THE PROJECT WORK AREA IN ORDER TO DEVELOP THE CONTRACTOR'S PLANS TO IMPLEMENT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S PLANS SHALL PROVIDE FOR ADEQUATE TRENCH SAFETY SYSTEM THAT COMPLY WITH, AS MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL DEVELOP AND IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

**"AS BUILT"**

LINE "A"



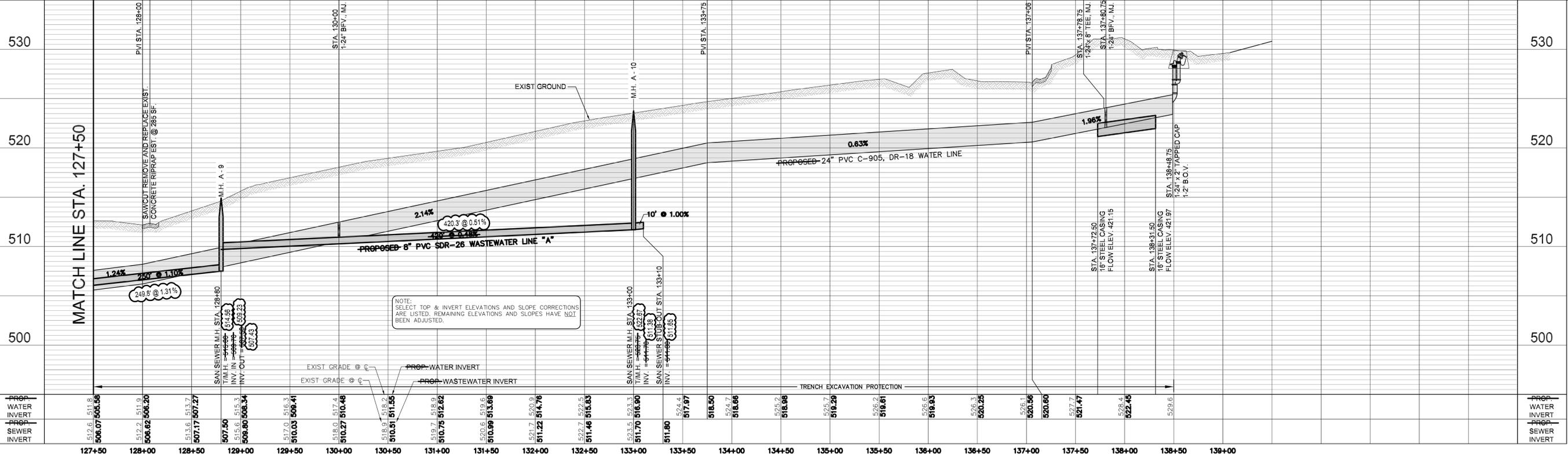
MATCH LINE STA. 127+50



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LINE "A"

**"AS BUILT"**



DATE	11/25/14
REVISIONS	

DRAWN	D.M.
CHECKED	W.N./R.B.
APPROVED	W.N./R.B.

VERTICAL SCALE: 1" = 5'  
 HORIZONTAL SCALE: 1" = 50'

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 304 E. CALTON RD. LAREDO, TEXAS 78041  
 TBPFS F-101888  
 OFFICE (956) 724-3087  
 www.porrasnance.com

PROJECT: **CUATRO VIENTOS EAST WRIGHT RANCH SUBDIVISION, PHASE I**

PLAN OF: **OFFSITE (LOOP 20) WATER & WASTEWATER PLAN & PROFILE STA. 127+50 TO STA. 139+00**