

LOCATION MAP

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

2" BLOWOFF (TEMP.)  
12" M.J. X 2" THR. C.I. OR D.I. ECCENTRICALLY TAPPED CAP, M.J.  
82 L.F. R.L.

2 - 12" SOLID SLEEVES, M.J.  
4 - 12" RETAINER GLANDS, M.J.

CONTRACTOR SHALL REMOVE TEMPORARY BLOWOFF AND TIE INTO 12" WATER MAIN (SAWS JOB NO. 22-1013) AFTER IT HAS BEEN FIELD ACCEPTED BY SAWS AND PROPOSED 12" WATER MAIN (SAWS JOB NO. 22-1040) HAS BEEN DISINFECTED AND ACCEPTED BY SAWS

SAWS TO MACHINE CHLORINATE: "INSTALL FOR CHLORINATION" (N.S.P.I.)  
2 - 1" CORP. STOP C.C.X.I.P.  
2 - 1" 1/4" THD SOLID CAPS, THR.  
2 - 1" COPPER TUBING, CUT AS REQ'D  
2 - 1" COMP. X 1 1/4" COUPLING, CURB STOP  
(SEE SAWS STD DWG DD-847-01)

- NOTES:
- 1) SAWS REQUIRES GCPs AND COUNTER PERMITS TO USE LEAD FREE (<0.25% LEAD) FIRE HYDRANTS.
  - 2) ANCHORAGE/THRUST BLOCKING AND JOINT RESTRAINTS SHALL BE DONE IN ACCORDANCE WITH SAWS STANDARD SPECIFICATIONS FOR CONSTRUCTION. (ITEM NO. 839)
  - 3) ALL 12" AND 8" PVC WATER PIPE BEING USED FOR THIS PROJECT IS C-900, CLASS 235 (DR-18).
  - 4) THE SAN ANTONIO WATER SYSTEM IS HEREBY GRANTED THE RIGHT OF INGRESS AND EGRESS ACROSS GRANTOR'S ADJACENT PROPERTY TO ACCESS THE WATER AND/OR WASTEWATER EASEMENTS SHOWN.
  - 5) UNLESS OTHERWISE NOTED ALL SERVICES SHALL BE 3/4" WITH 5/8" METER.

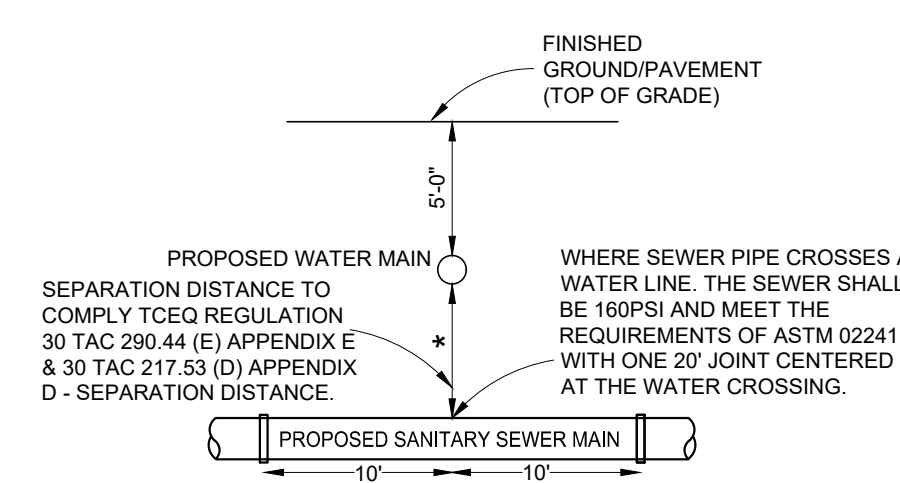
**EXISTING UTILITY LOCATES NOTE:**

THERE IS AN EXISTING EAST CENTRAL SUD WATER MAIN AND WATER SERVICES IN THIS IMMEDIATE AREA. CONTRACTOR TO ENSURE ALL EXISTING INFRASTRUCTURE HAS BEEN LOCATED PRIOR TO THE START OF CONSTRUCTION. CALL ENGINEER WITH ANY ISSUES/CONCERNS, 210-641-9999.

**EXISTING SIGNAGE AND FENCE NOTE:**

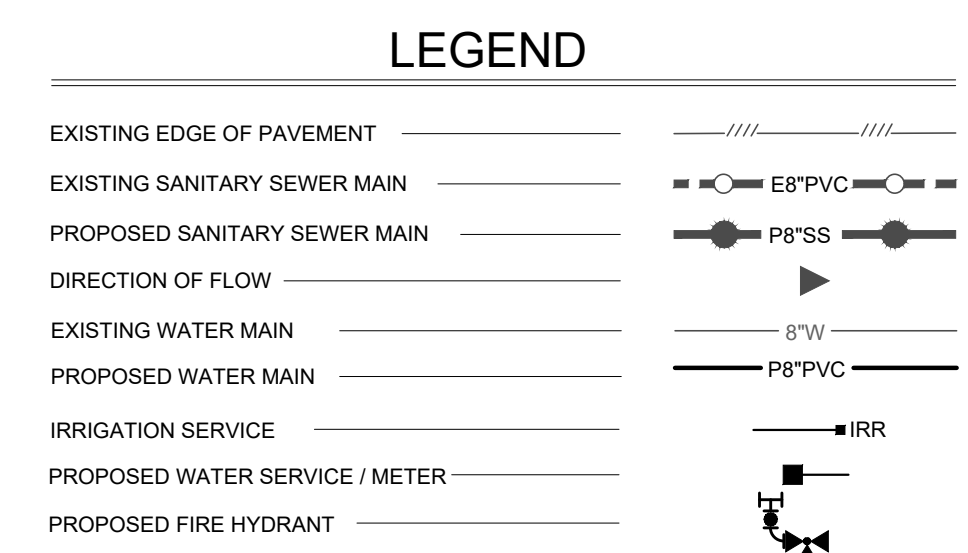
ANY EXISTING SIGNS OR FENCING REMOVED FOR THE INSTALLATION OF THE WATER MAIN SHALL BE PRESERVED AND REINSTALLED TO ITS EXISTING STATE IN ITS ORIGINAL LOCATION.

**WARNING!!!!**  
EXISTING OVERHEAD HIGH VOLTAGE ELECTRIC TRANSMISSION MAIN!  
CONTRACTOR TO COORDINATE WITH CPS BEFORE ANY CONSTRUCTION COMMENCES WITHIN THIS AREA.



TYPICAL SANITARY SEWER/  
WATER CROSSING DETAIL

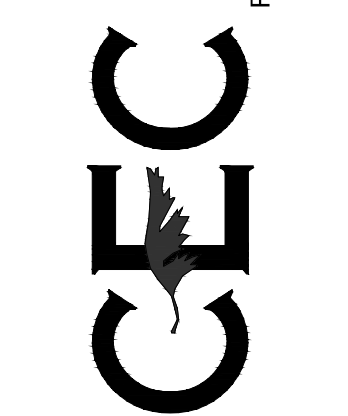
NOT TO SCALE



PLAT NO. 22-11800026

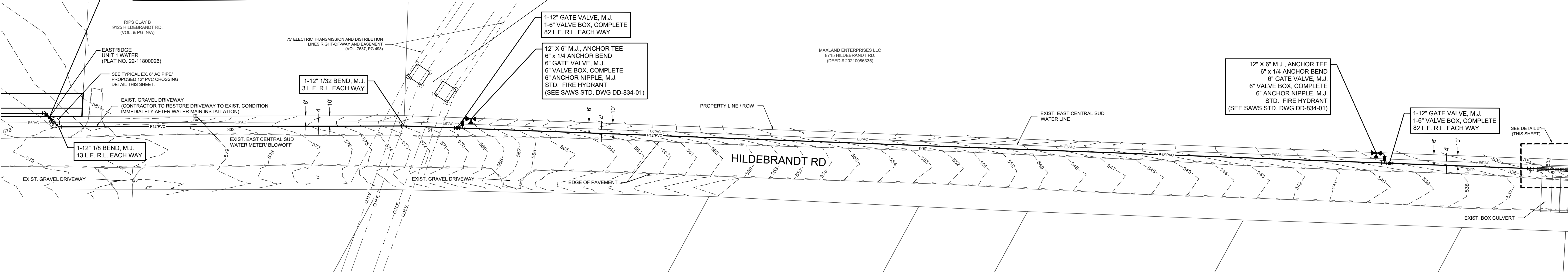
DESIGNED BY: L.T.E.  
DRAWN BY: S.O.V.  
DATE: 02/2021  
JOB NO.: E0674101

CIVIL ENGINEERING CONSULTANTS  
d b a . DON D U R D E N , I N C .  
11550 H I N O W E S T S U I T E 335  
S A N A N T O N I O , T X 78246  
T E L ( 2 1 0 ) 6 4 1 - 9 9 9 9  
F A X ( 2 1 0 ) 6 4 1 - 9 9 9 9  
R E G I S T R A T I O N # F - 2 2 1 4 / # 1 0 0 4 1 0 0 0



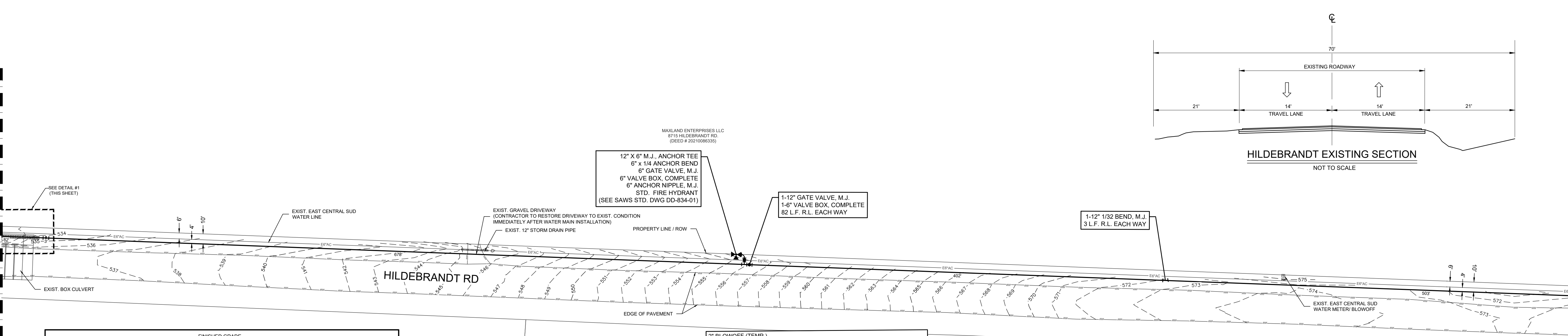
7/27/2022  
MARY P. STEWART  
108905  
LICENSED PROFESSIONAL ENGINEER

MATCH LINE "A"  
SEE THIS SHEET

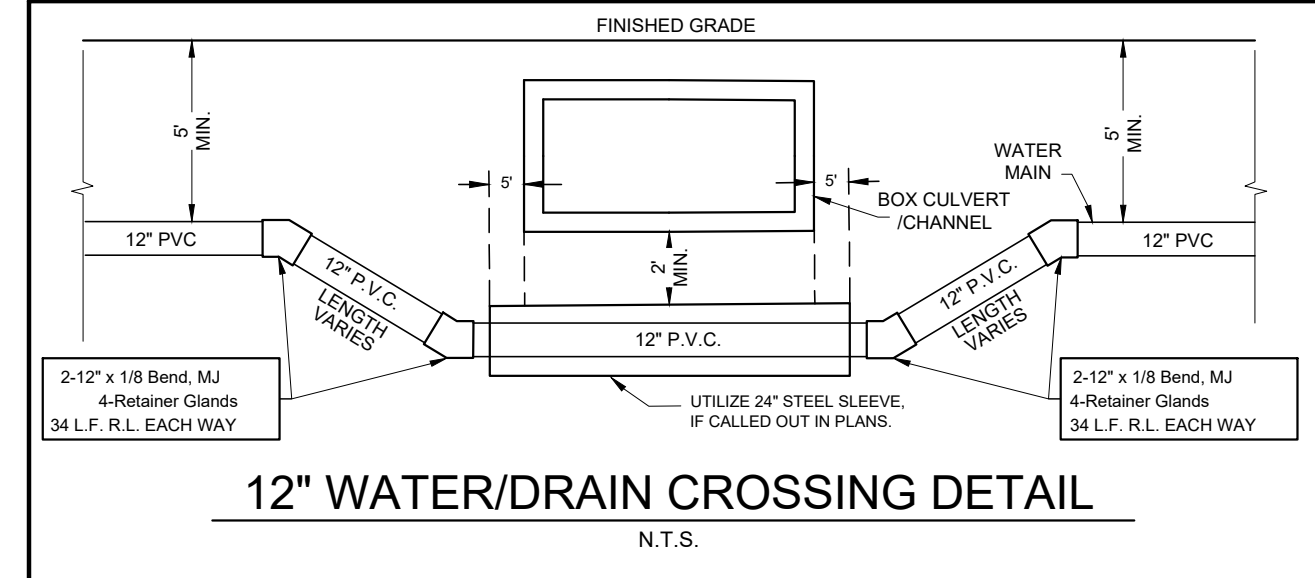


MATCH LINE "A"  
SEE THIS SHEET

MATCH LINE "A"  
SEE THIS SHEET

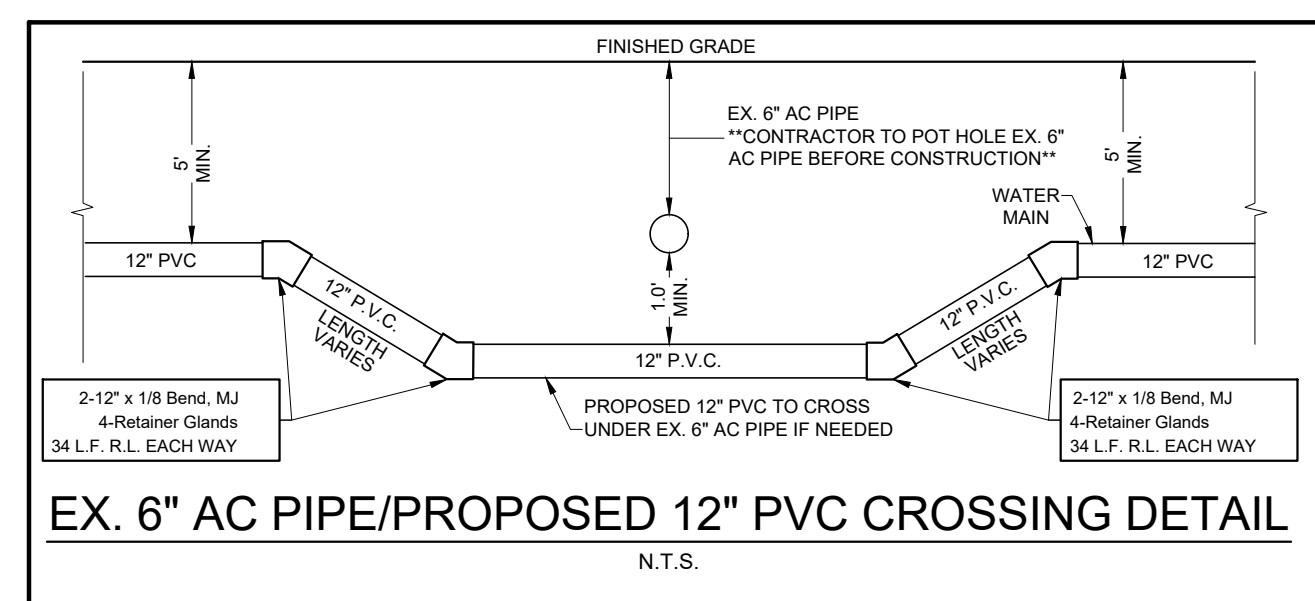


MATCH LINE "B"  
SEE THIS SHEET



12" WATER/RAIN CROSSING DETAIL

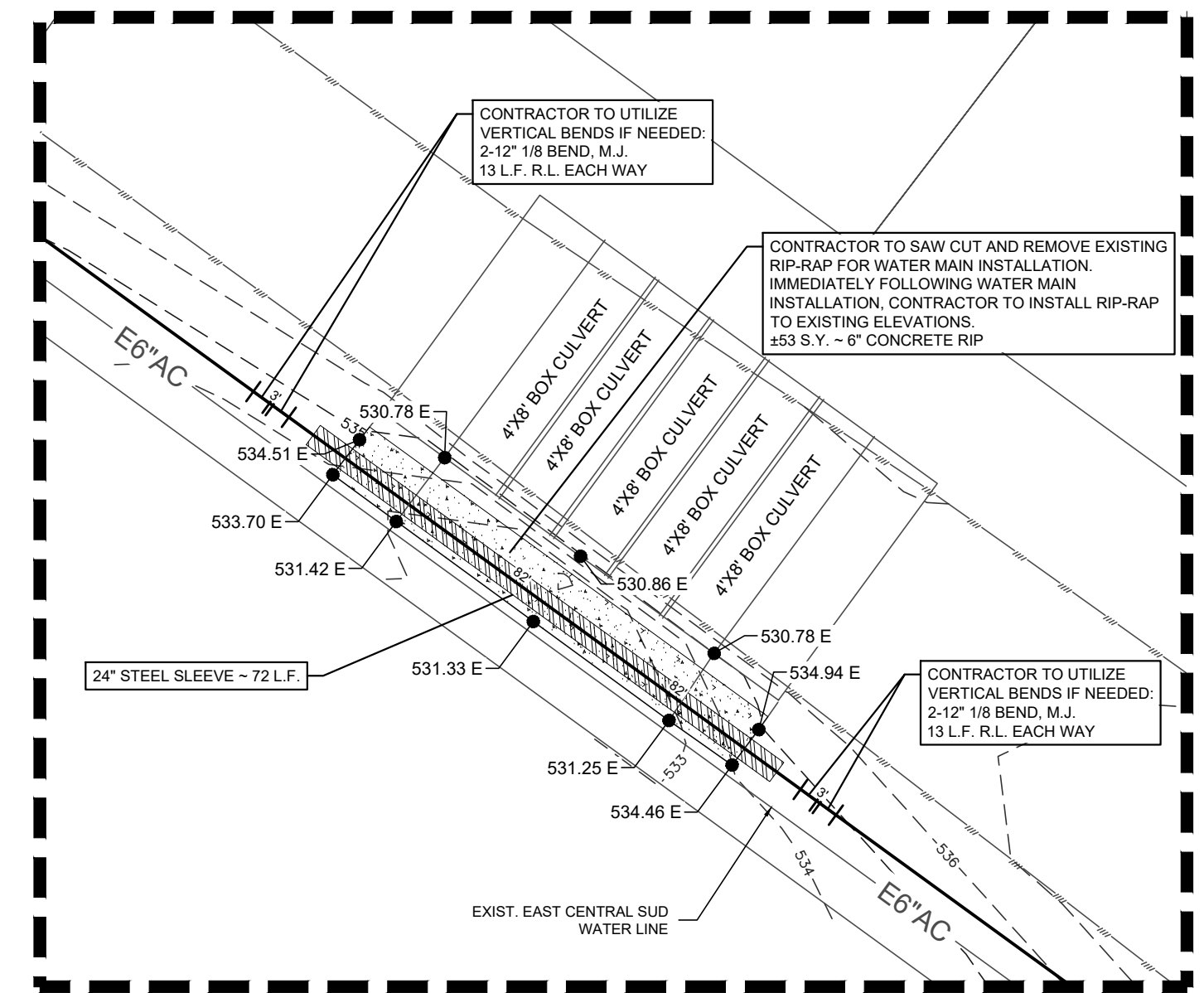
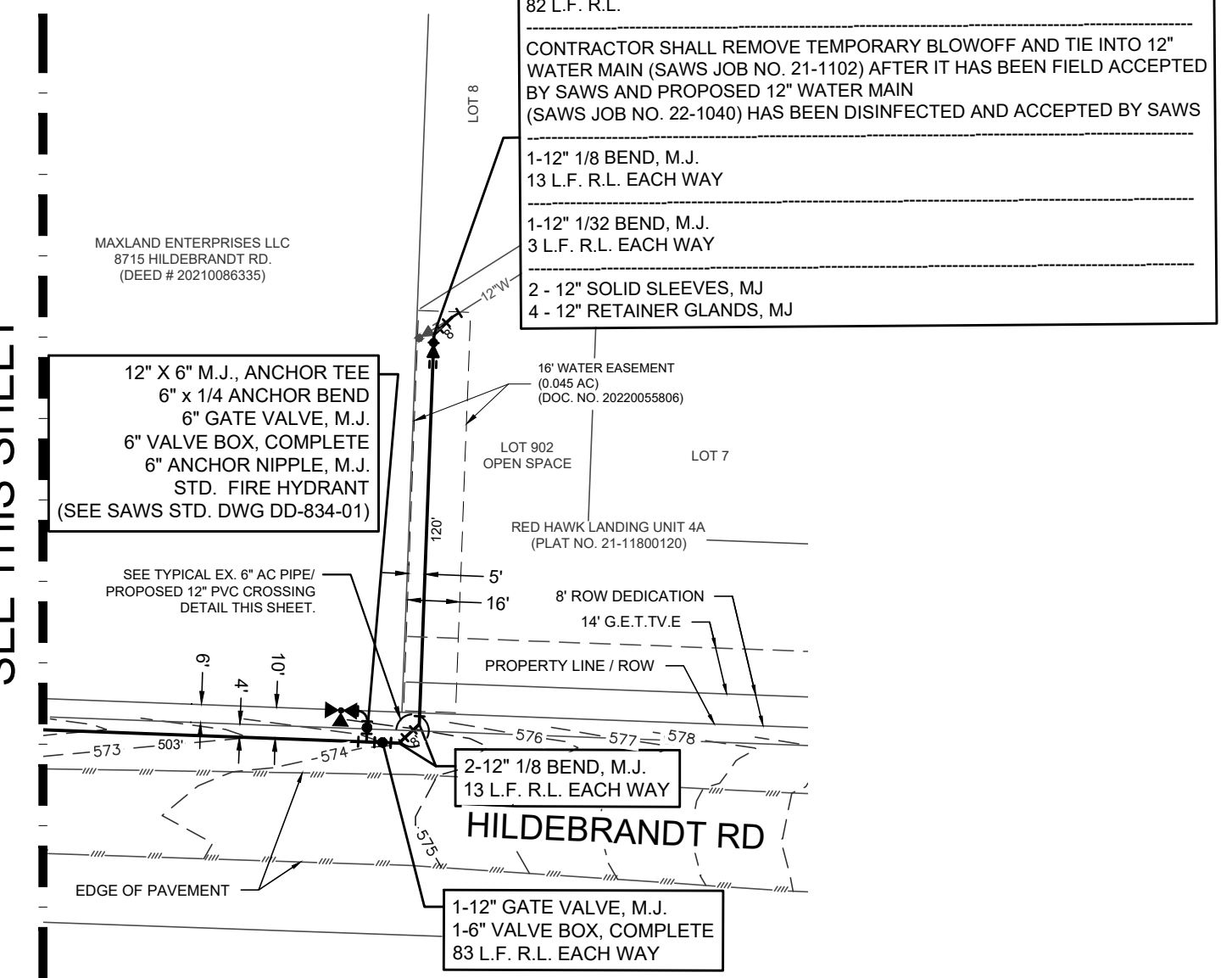
N.T.S.



EX. 6" AC PIPE/PROPOSED 12" PVC CROSSING DETAIL

N.T.S.

MATCH LINE "B"  
SEE THIS SHEET



PRESSURE ZONE (PZ) 750

Developer's Name	KING FISH DEVELOPMENT LLC		
Developer's Address	2722 WEST BITTERS ROAD, SUITE 106		
City	SAN ANTONIO	State	TEXAS
Zip	78246		
Phone #	210 882-6800	Fax#	
SAWS Block Map#	198544 & 200544	Total EDU%	0
Total Linear Footage of Pipe	3,238 L.F. (12" PVC)	Total Acreage	0.55 AC
Plat No.	PLAT NO. 22-11800026		
Number of Lots	SAWS JOB NO.	22-1040	

ALL WATER PIPE TO BE C-900, CLASS 235 (DR-18) UNLESS OTHERWISE NOTED

SAWS Job No. 22-1040

EASTRIDGE OFFSITE WATERMAIN  
ALONG HILDEBRANDT  
OVERALL WATER PLAN  
(HILDEBRANDT RD)

SHEET NO.  
101

THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADEQUATELY ALTERED. RELY ONLY ON FINAL HARD COPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL.





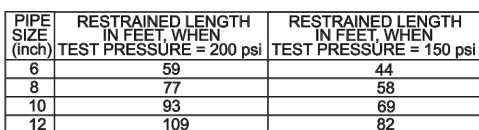


**RESTRAINED LENGTH DESIGN**

Restrained length calculations are for P.V.C. pipe bedded in compacted granular material extending to the top of the pipe; the native soil material is assumed to be inorganic clay of high plasticity. Depth of bury is assumed to be 4 feet.

**Note:**  
These calculations are provided for reference. The restrained length shall be designed based upon the conditions encountered during the installation.

PROPERTY OF <b>ANTONIO WATER SYSTEM</b> SAN ANTONIO, TEXAS	<b>2" (TEMPORARY) BLOW-OFF ASSEMBLY ON 6" &amp; 8" D. 1/P.V.C. MAINS (JOINT RESTRAINT)</b>	APPROVED	REVISED
		MARCH 2008	APRIL 2014
		<b>DD-844-01</b>	SHEET <b>3 OF 4</b>

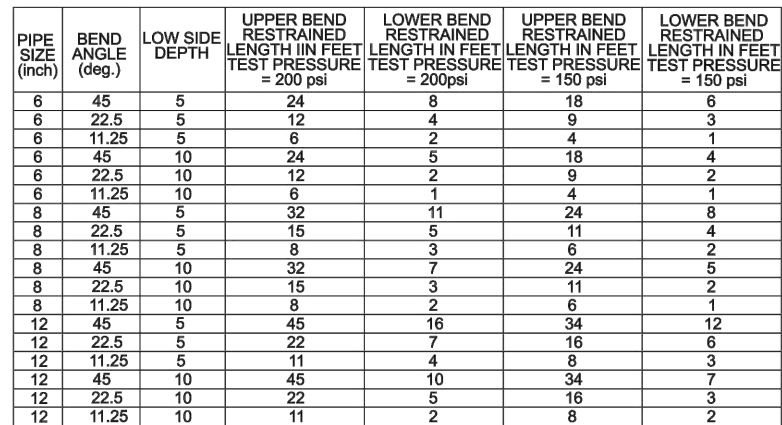


### RESTRAINED LENGTH DESIGN

Restrained length calculations are for P.V.C. pipe bedded in compacted granular material extending to the top of the pipe. The native soil material is assumed to be inorganic clay of high plasticity. Depth of bury is assumed to be 4 feet.

Note:  
These calculations are provided for reference. The restrained length shall be designed based upon the conditions encountered during the installation.

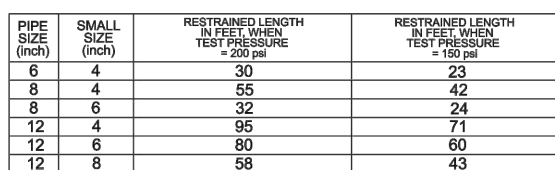
PROPERTY OF <b>TONIO WATER SYSTEM</b> SAN ANTONIO, TEXAS	<b>2" PERMANENT BLOW-OFF ASSEMBLY ON 6" &amp; 8" MAINS</b>	APPROVED	REVISED
		MARCH 2008	APRIL 2014
		<b>DD-844-02</b>	SHEET <b>3</b> OF <b>5</b>



**RESTRAINED LENGTH DESIGN**  
 Restrained length calculations are for P.V.C. pipe bedded in compacted granular material extending to the top of the pipe. The native soil material is assumed to be inorganic clay of high plasticity. Depth of bury is assumed to be 4 feet.

**Note:**  
 These calculations are provided for reference. The restrained length shall be designed based upon the conditions encountered during the installation.

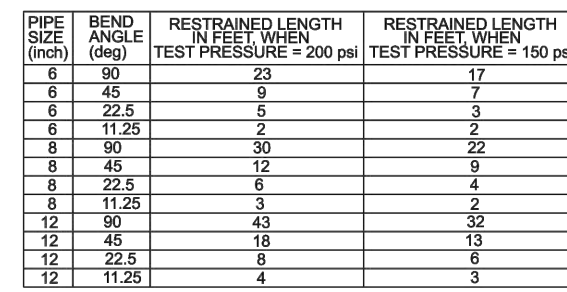
PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS	2" (PERMANENT) BLOW-OFF ASSEMBLY ON 6" & 8" D.I.P.V.C. MAINS (JOINT RESTRAINT)	APPROVED	REVISED
		MARCH 2008	APRIL 2014
		DD-844-02	SHEET 5 of 5



**RESTRAINED LENGTH DESIGN**  
 Restrainted length calculations are for P.V.C. pipe bedded in compacted granular material extending to the top of the pipe. The native soil material is assumed to be inorganic clay of high plasticity. Depth of bury is assumed to be 4 feet.

**Note:**  
 These calculations are provided for reference. Th restrained length shall be designed based upon the conditions encountered during the installation.

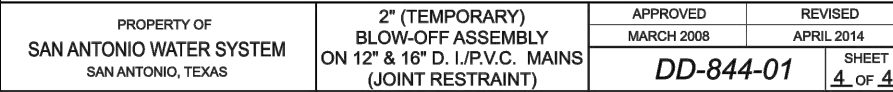
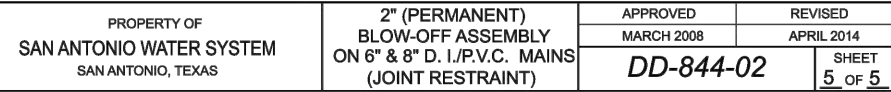
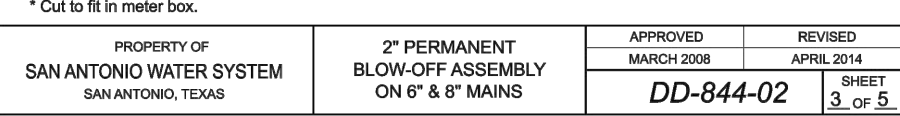
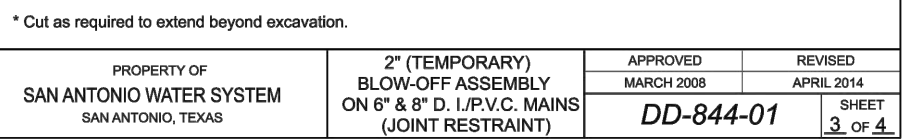
PROPERTY OF <b>TONIO WATER SYSTEM</b> SAN ANTONIO, TEXAS	STANDARD CHLORINATION INSTALLATION	APPROVED	REVISED
		MARCH 2008	APRIL 2014
		<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="font-size: 1.5em; font-weight: bold;">DD-847-01</span> <div style="border: 1px solid black; padding: 2px; text-align: center;">             SHEET 1 OF 1           </div> </div>	



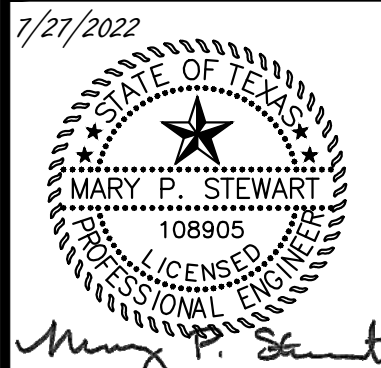
**RESTRAINED LENGTH DESIGN**  
 Restraint length calculations are for P.V.C pipe bedded in compacted granular material extending to the top of the pipe. The native soil material is assumed to be inorganic clay of high plasticity. Depth of bury is assumed to be 4 feet.

**Note:**  
 These calculations are provided for reference. The restrained length shall be designed based upon the conditions encountered during the installation.

PROPERTY OF <b>TONIO WATER SYSTEM</b> SAN ANTONIO, TEXAS	<b>2" (TEMPORARY) BLOW-OFF ASSEMBLY ON 12" &amp; 16" D.I./P.V.C. MAINS (JOINT RESTRAINT)</b>	APPROVED	REVISED
		MARCH 2008	APRIL 2014
		<b>DD-844-01</b>	SHEET <b>4 OF 4</b>

[illegible]

CIVIL ENGINEERING CONSULTANTS  
dba. DON DURDEN, INC.  
117550 IH 10 WEST, SUITE 395  
SAN ANTONIO, TEXAS 78230-1037  
TEL: (210) 641-9999  
FAX: (210) 641-6440  
REGISTRATION #F-2214 / #10041000

[illegible]

# EASTRIDGE OFFSITE WATERMAIN ALONG HILDEBRANDT

## WATER DETAILS

SHEET NO.

103

PRESSURE ZONE (PZ) 750

Developer's Name KINKING FISH DEVELOPMENT LLC

Developer's Address 2722 WEST BITTERS ROAD, SUITE 106

City SAN ANTONIO State TEXAS Zip 78248

Phone # 210 882-6800 Fax# \_\_\_\_\_

SAWS Block Map# 198544 & 200544 Total EDU's 0 Total Acreage 0.55 AC

Total Linear Footage of Pipe: 3,238 LF (12" PVC) Plat No. PLAT No. 22-11800326

Number of Lots: \_\_\_\_\_ SAWS JOB NO. 22-1040

ALL WATER PIPE TO BE C-900, CLASS 235 (DR-18)  
UNLESS OTHERWISE NOTED

SAWS Job No. 22-1040