

2022 RIO GRANDE CITY LAS BRISAS SUBDIVISION WATER LINE RIO GRANDE CITY, TX



OWNER

DEPUTY CITY MANAGER
5332 E. HIGHWAY 83
RIO GRANDE CITY, TEXAS 78582
CONTACT: MR. NOE CASTILLO, CITY MANAGER
EMAIL: NCASTILLO@CITYOFRGC.COM
TEL: (956) 487-0672

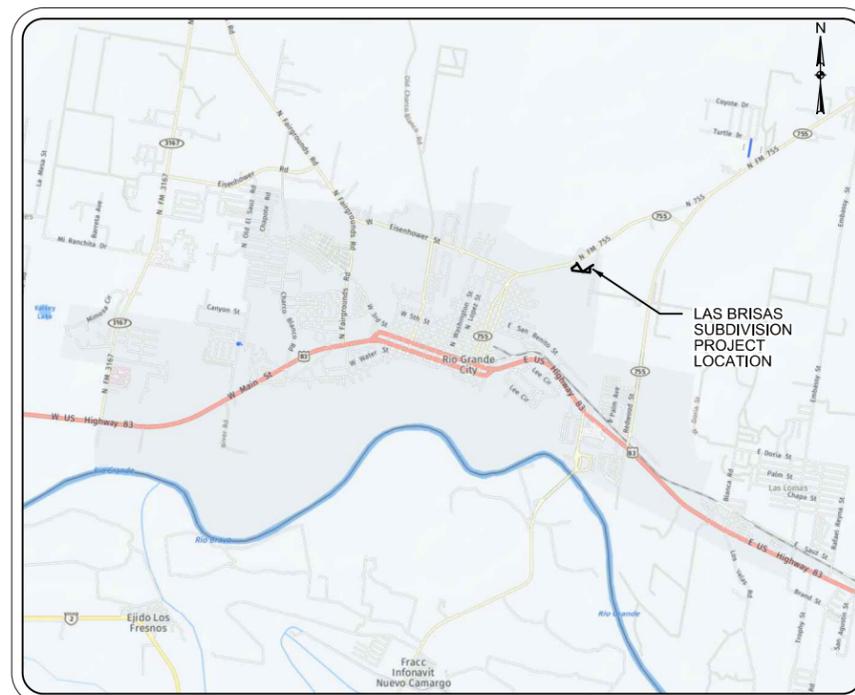
ENGINEER

HALFF ASSOCIATES, INC.
5000 WEST MILITARY HWY, ST. 100
McALLEN, TX. 78503
CONTACT: KRISTINA D. LEAL, P.E.
EMAIL: ASALINAS@HALFF.COM
TEL: (956) 664-0286
TBPE FIRM# F-312

CITY OFFICIALS

JOEL VILLARREAL
REY RAMIREZ
BEN DE LEON
ROGERIO OLIVAREZ
ALBERTO ESCOBEDO

MAYOR
MAYOR PRO-TEMPORE, COMMISSIONER PLACE 2
COMMISSIONER PLACE 1
COMMISSIONER PLACE 3
COMMISSIONER PLACE 4



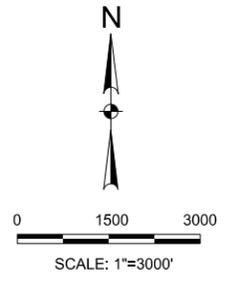
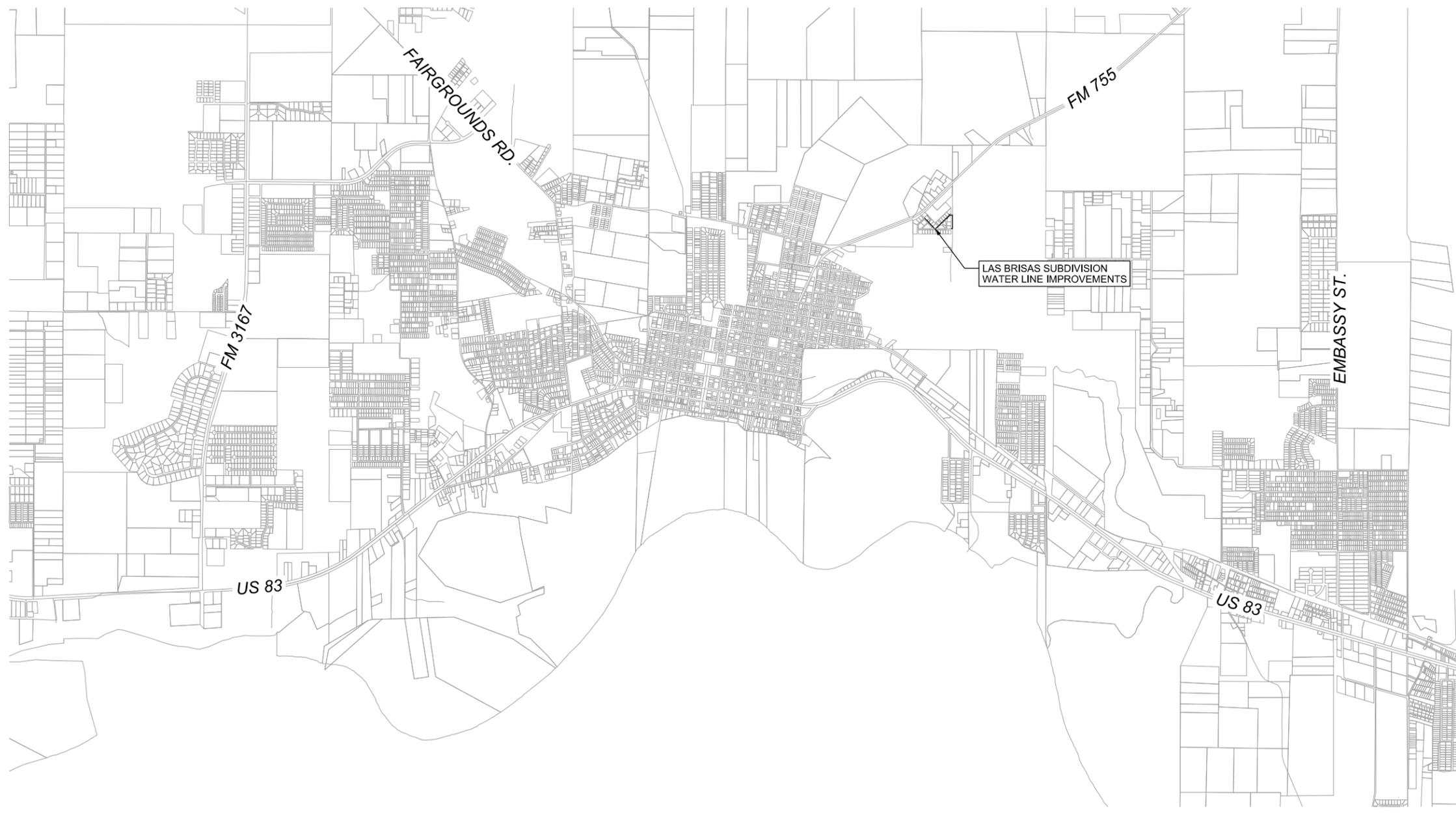
LOCATION MAP
NOT TO SCALE



5000 WEST MILITARY, SUITE 100
McALLEN, TX 78503
(956) 664-0286
TBPE FIRM #F-312



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RIO GRANDE CITY
LAS BRISAS SUBDIVISION
WATER LINE
 Rio Grande City, TX



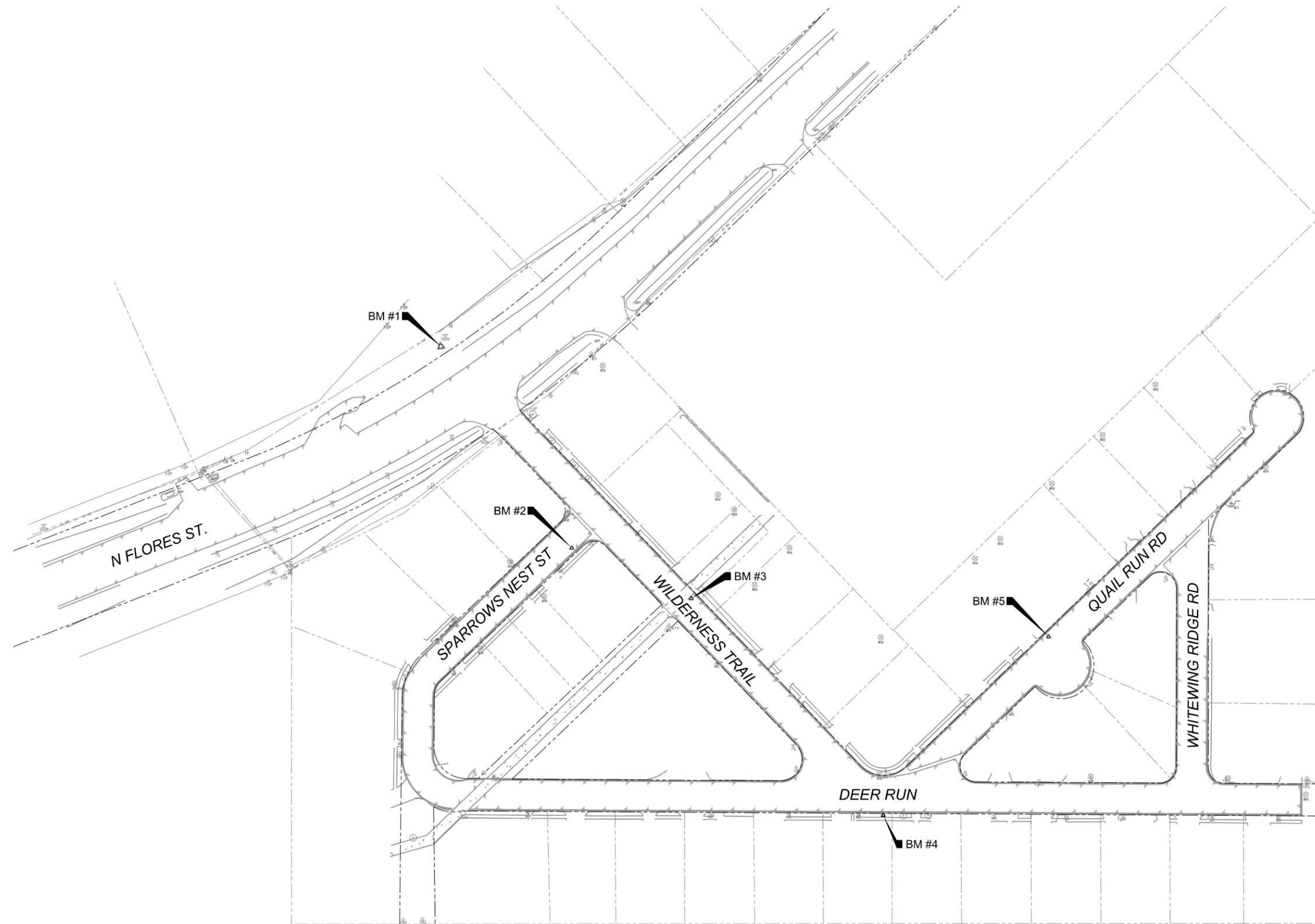
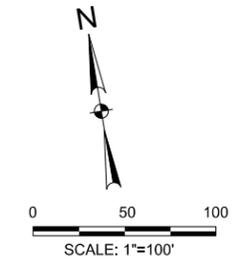
Revision No.	Date	Description



Project No.: 43128.002
 Issued: DECEMBER 2022
 Drawn By: IE
 Checked By: AS
 Scale: AS NOTED

Sheet Title
VICINITY MAP

C1.2
 Sheet Number



BM NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	N=16667059.83	E=885404.75	180.33	SET IR W/ TP CAP
2	N=16666854.09	E=885495.39	179.08	SET MAG NAIL
3	N=16666789.46	E=885598.37	175.37	SET MAG NAIL
4	N=16666560.44	E=885743.12	185.54	SET IR W/ TP CAP
5	N=16666700.21	E=885923.03	188.96	SET MAG NAIL

DATUM INFORMATION: HORIZONTAL DATA SHOWN IS BASED ON NAD83.
VERTICAL DATA IS BASED ON NAVD88.

RIO GRANDE CITY
LAS BRISAS SUBDIVISION
WATER LINE
Rio Grande City, TX



Revision No.	Date	Description

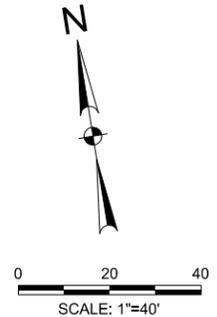


Project No.: 43128.002
 Issued: DECEMBER 2022
 Drawn By: IE
 Checked By: AS
 Scale: AS NOTED
 Sheet Title
 LAS BRISAS SUBDIVISION
 PROJECT LAYOUT/
 SURVEY CONTROL

C2.0
 Sheet Number

17/12/2022 3:27:50 PM 43128.DWG HCLF
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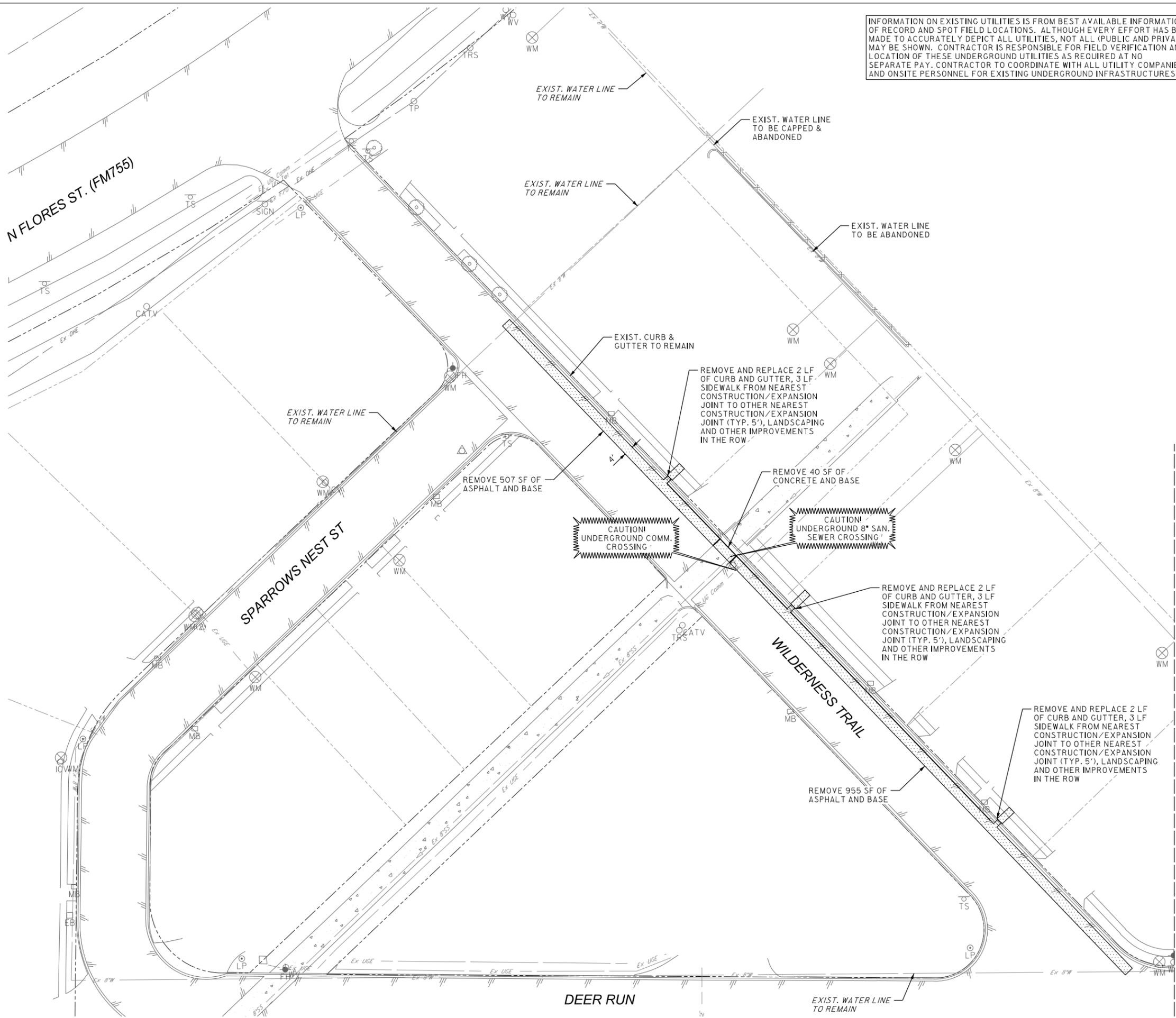
INFORMATION ON EXISTING UTILITIES IS FROM BEST AVAILABLE INFORMATION OF RECORD AND SPOT FIELD LOCATIONS. ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ACCURATELY DEPICT ALL UTILITIES, NOT ALL (PUBLIC AND PRIVATE) MAY BE SHOWN. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION AND LOCATION OF THESE UNDERGROUND UTILITIES AS REQUIRED AT NO SEPARATE PAY. CONTRACTOR TO COORDINATE WITH ALL UTILITY COMPANIES AND ONSITE PERSONNEL FOR EXISTING UNDERGROUND INFRASTRUCTURES.



LEGEND

 REMOVE PAVEMENT AND BASE

NOTES:
 1. ALL EXISTING SURFACE FEATURES INSIDE PAVEMENT REMOVAL AREA INCLUDING BUT NOT LIMITED TO SIGNS, CURBS, SIDEWALKS, SPEED BUMPS ARE TO BE REMOVED AND DISPOSED OF IN A LEGAL MANNER AT CONTRACTOR'S EXPENSE.
 2. EXISTING LANDSCAPE TO BE REMOVED AND REPLACED WITH NEW LANDSCAPE THAT MATCHES EXISTING. THESE ITEMS ARE SUBSIDIARY TO THE OTHER ITEMS OF THE BID.



RIO GRANDE CITY
 LAS BRISAS SUBDIVISION
 WATER LINE
 Rio Grande City, TX



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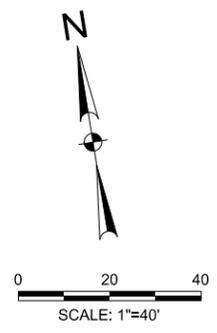
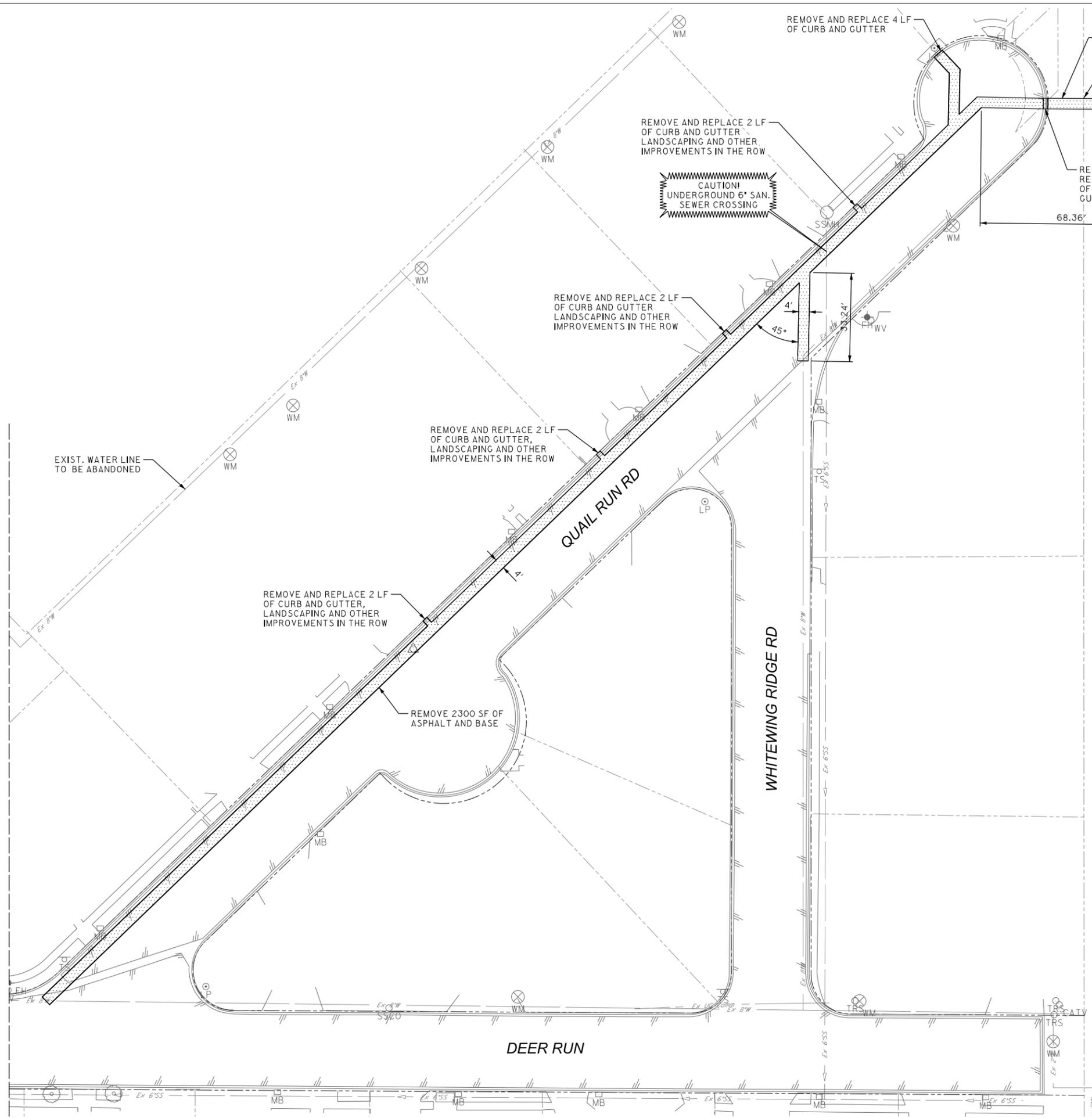
Project No.: 43128.002
 Issued: DECEMBER 2022
 Drawn By: IE
 Checked By: AS
 Scale: AS NOTED

Sheet Title
 LAS BRISAS SUBDIVISION
 DEMOLITION PLAN

C2.1
 Sheet Number

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MATCH LINE SHEET C2.1



LEGEND

REMOVE PAVEMENT

NOTES:

1. ALL EXISTING SURFACE FEATURES INSIDE PAVEMENT REMOVAL AREA INCLUDING BUT NOT LIMITED TO SIGNS, CURBS, SIDEWALKS, SPEED BUMPS ARE TO BE REMOVED AND DISPOSED OF IN A LEGAL MANNER AT CONTRACTOR'S EXPENSE.
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LAS BRISAS SUBDIVISION
WATER LINE
 Rio Grande City, TX



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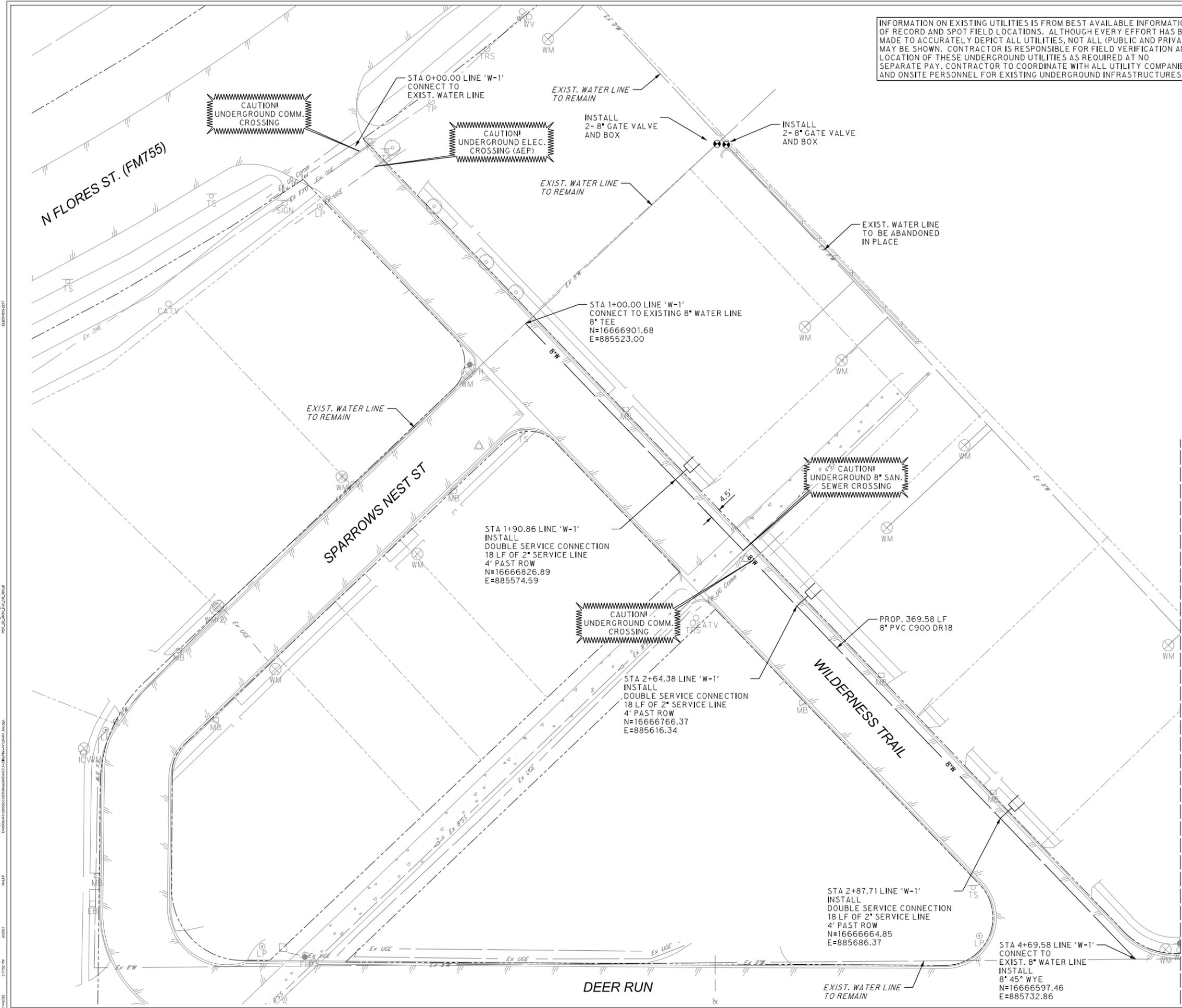
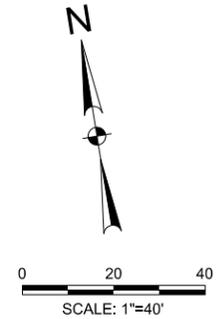


Project No.: 43128.002
 Issued: DECEMBER 2022
 Drawn By: JE
 Checked By: AS
 Scale: AS NOTED

Sheet Title
LAS BRISAS SUBDIVISION
DEMOLITION PLAN

C2.2
 Sheet Number

INFORMATION ON EXISTING UTILITIES IS FROM BEST AVAILABLE INFORMATION OF RECORD AND SPOT FIELD LOCATIONS. ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ACCURATELY DEPICT ALL UTILITIES, NOT ALL (PUBLIC AND PRIVATE) MAY BE SHOWN. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION AND LOCATION OF THESE UNDERGROUND UTILITIES AS REQUIRED AT NO SEPARATE PAY. CONTRACTOR TO COORDINATE WITH ALL UTILITY COMPANIES AND ONSITE PERSONNEL FOR EXISTING UNDERGROUND INFRASTRUCTURES.



MATCH LINE SHEET C3.2

RIO GRANDE CITY
LAS BRISAS SUBDIVISION
WATER LINE
 Rio Grande City, TX



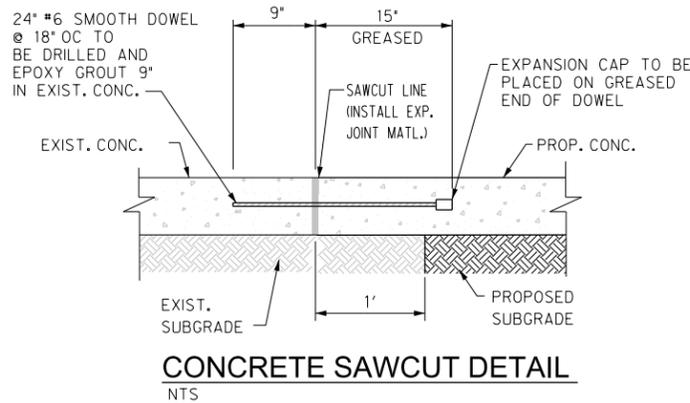
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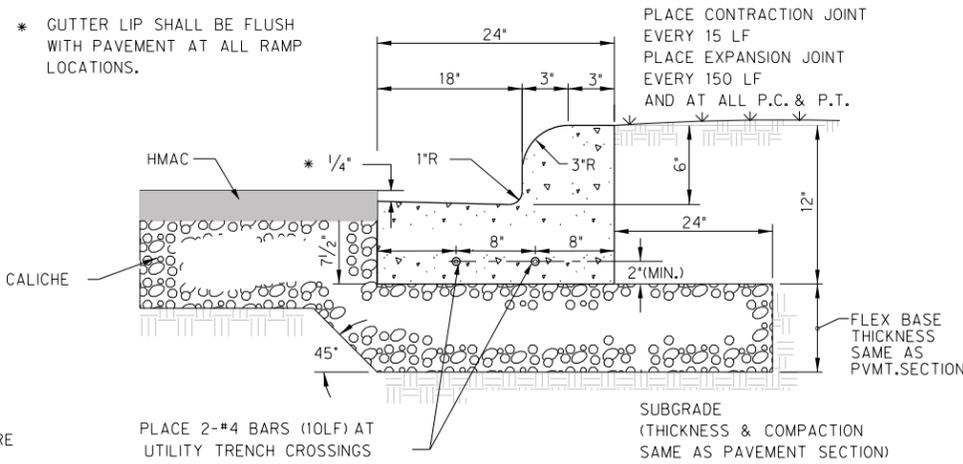
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 Issued: DECEMBER 2022
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Sheet Title
LAS BRISAS SUBDIVISION
UTILITY PLAN

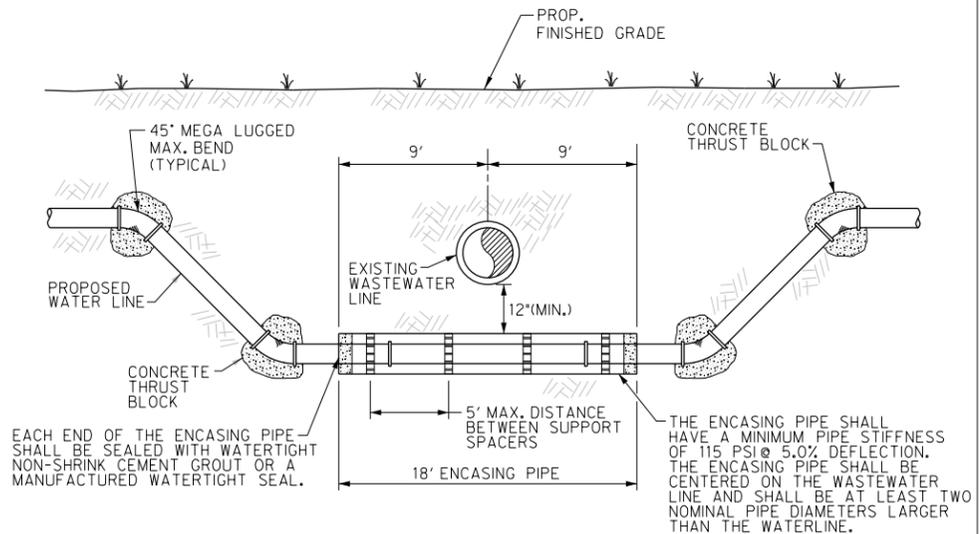
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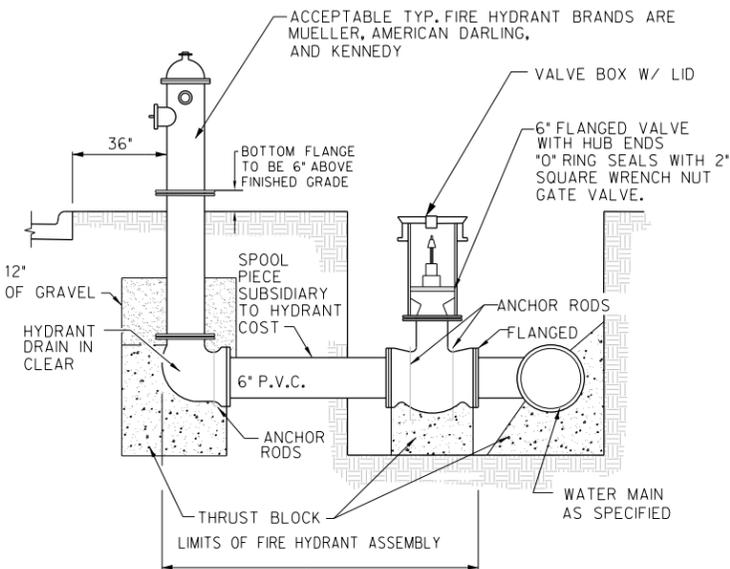
CONCRETE SAWCUT DETAIL
NTS



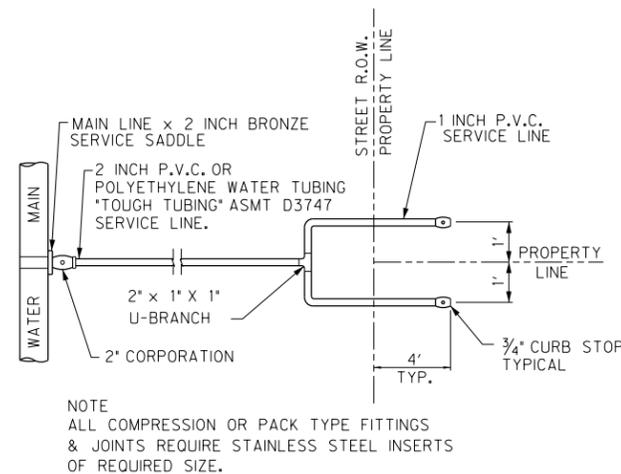
TYPICAL CURB AND GUTTER SECTION
NTS



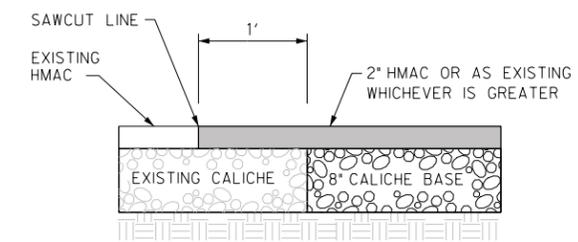
TYPICAL WATER DEFLECTION
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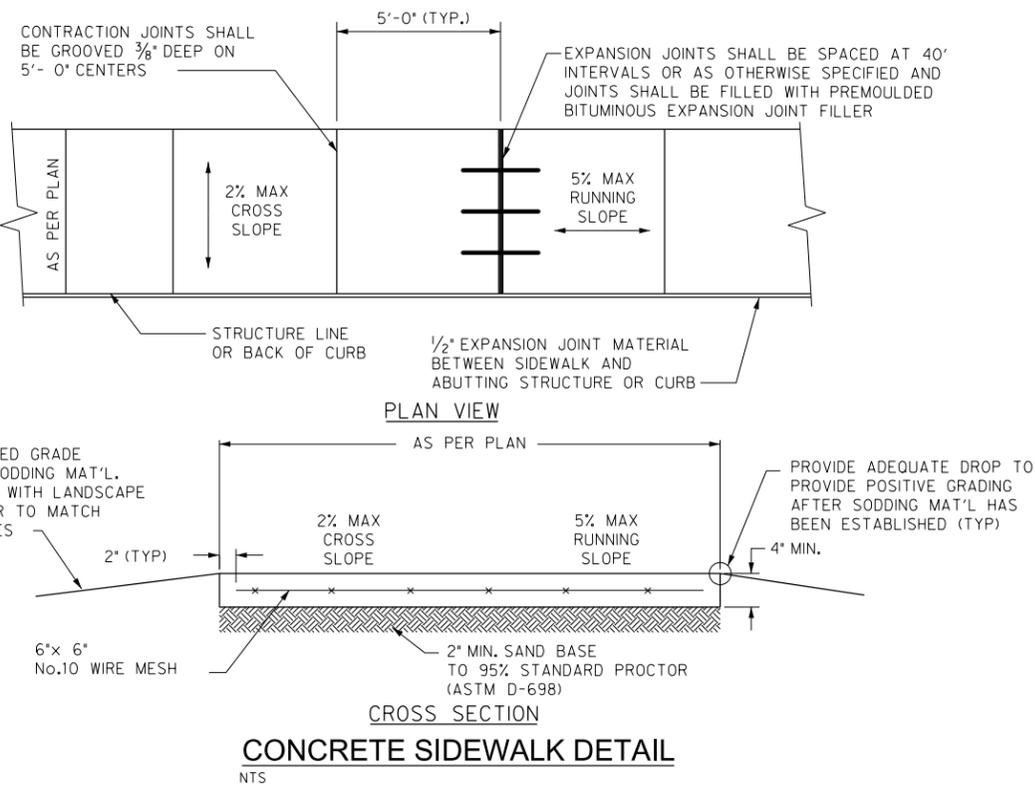
FIRE HYDRANT INSTALLATION
NTS



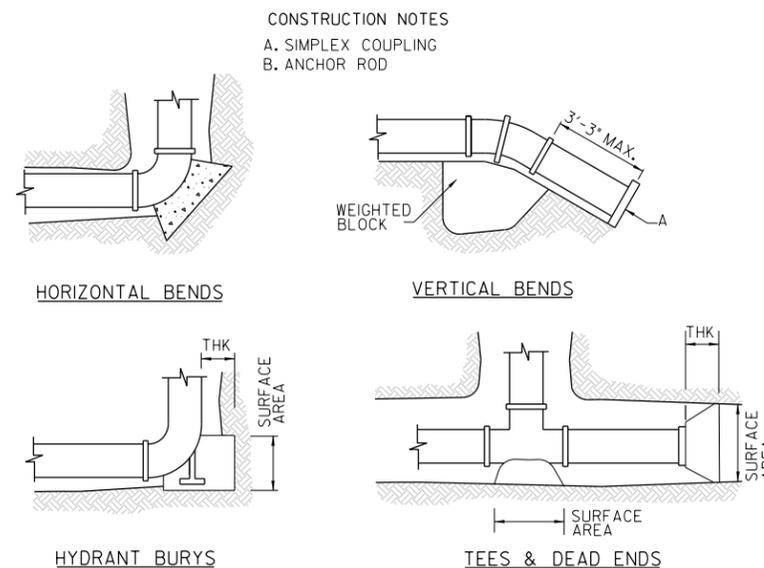
TYPICAL DOUBLE SERVICE CONNECTION
NTS



SAWCUT DETAIL
NTS



CONCRETE SIDEWALK DETAIL
NTS



- GENERAL NOTES**
- SEE THRUST BLOCK SIZE CHART FOR PROPER THICKNESS AND SURFACE AREAS. (SHEET 2 OF 2)
 - THE LOCATION OF THRUST BLOCKS DEPENDS UPON THE DIRECTION OF THRUST AND TYPE FITTINGS.

TYPICAL THRUST BLOCK DETAILS
NTS

THRUST BLOCK SIZE			
DIAMETER OF PIPE INCHES	HORIZONTAL BEND		WEIGHT AT VERTICAL BENDS-LBS.
	SURFACE AREA SQ. FEET	THICKNESS INCHES	
22-1/2' BENDS			
6 OR LESS	2	8	1700
8	3	8	3,000
10	3.5	12	4,500
12	4	14	6,600
14	5	18	9,000
16	6	18	11,800
45' BENDS			
6 OR LESS	4	12	3,200
8	5	14	5,800
10	6	18	9,000
12	7	18	13,000
14	8	24	17,000
16	11.5	24	23,200
90' BENDS			
6 OR LESS	6	12	6,000
8	8	15	10,700
10	10	18	16,700
12	12	18	24,000
14	18	24	32,600
16	21	24	42,700
TEES & DEAD ENDS			
6 OR LESS	3	12	
8	4	15	
10	6	18	
12	8.5	18	
14	11.5	24	
16	15	24	



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