

Know what's below.
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INDEX OF SHEETS		SHEET No.
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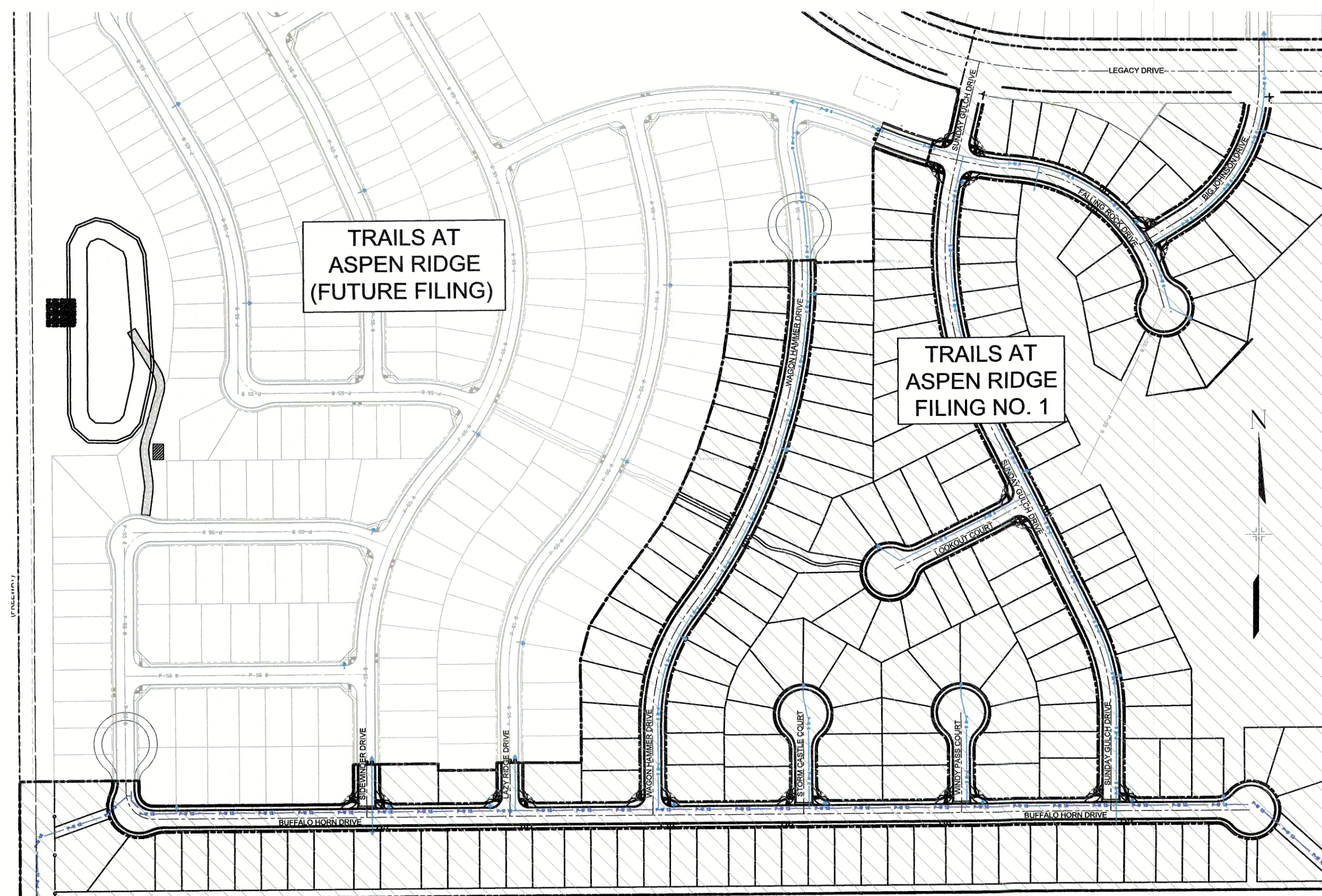
OWNER/DEVELOPER	COLA, LLC 555 MIDDLE CREEK PARKWAY, SUITE 380 COLORADO SPRINGS, CO 80921
CIVIL ENGINEER	MATRIX DESIGN GROUP 2435 RESEARCH PARKWAY, SUITE 300 COLORADO SPRINGS, CO 80920
WATER & SANITARY SEWER	WIDEFIELD WATER AND SANITATION DISTRICT 8495 FONTAINE BOULEVARD COLORADO SPRINGS, CO 80925 ROBERT BANNISTER, (719) 390-7111
ELECTRIC	MOUNTAINVIEW ELECTRIC ASSOCIATION (719) 495-2283
GAS	COLORADO SPRINGS UTILITIES 1521 HANCOCK EXPRESSWAY COLORADO SPRINGS, CO MARY HOAGLUND (719) 668-4083
STREET	EL PASO COUNTY PUBLIC SERVICES DEPARTMENT (719) 520-6460
DRAINAGE	EL PASO COUNTY PUBLIC SERVICES DEPARTMENT (719) 520-6460
FIRE DEPARTMENT	SECURITY FIRE DEPARTMENT 400 SECURITY BOULEVARD SECURITY, CO 80911 (719) 392-7121

TRAILS AT ASPEN RIDGE - FILING NO. 1

EL PASO COUNTY, COLORADO

8" & 12" PUBLIC WATER LINE PLANS

SEPTEMBER, 2019

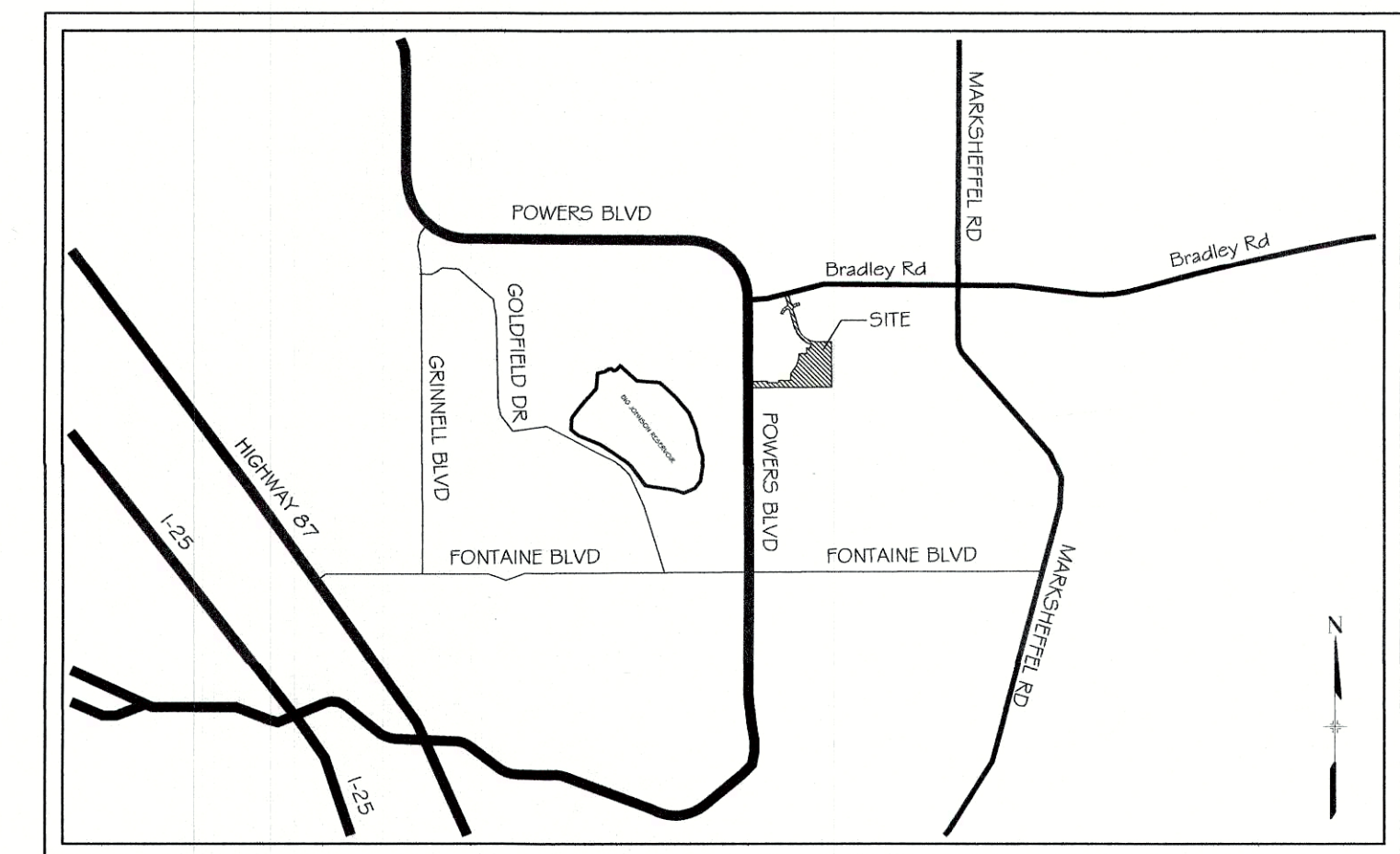


SITE MAP
1" = 200'

NODE	FIRE FLOW (GPM)	PSI @ MDD
A	1860	20
B	1802	20
C	1876	20
D	1908	24
E	1908	28.1
F	1908	30.9
G	1908	32.8
H	1908	34.7
I	1873	20
J	1768	20
K	1704	20
L	1732	20
M	1908	20.8
N	1908	23.7
O	1908	28.2
P	1796	20
Q	1908	23.3
R	1870	20
S	1821	20
T	1780	20
U	1737	20
V	1625	20

NOTE: FIRE FLOW AND PRESSURE VALUES ARE PROVIDED BY WIDEFIELD DISTRICT ENGINEERING CONSULTANT BASED ON LATEST WATER MODELING.

THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.



VICINITY MAP
N.T.S.

FIRE AUTHORITY APPROVAL

THE NUMBER OF FIRE HYDRANTS AND HYDRANT LOCATIONS SHOWN ON THIS WATER INSTALLATION PLAN ARE CORRECT AND ADEQUATE TO SATISFY THE FIRE PROTECTION REQUIREMENTS AS SPECIFIED BY THE FIRE DISTRICT SERVING THE PROPERTY NOTED ON THE PLANS.

FIRE PROTECTION DISTRICT SECURITY FIRE DEPARTMENT
SIGNED [Signature] DATE 10-1-19
FIRE PROTECTION DISTRICT

DISTRICT APPROVALS:

THE WIDEFIELD WATER AND SANITATION DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN AND HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

WIDEFIELD WATER AND SANITATION DISTRICT
WATER DESIGN APPROVAL

DATE: 10/14/19 BY: [Signature]

PROJECT NUMBER: _____

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT THE STANDARDS AS DEFINED IN THE "RULES AND REGULATIONS FOR INSTALLATION OF WATER MAINS AND SERVICES" SHALL RULE.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL

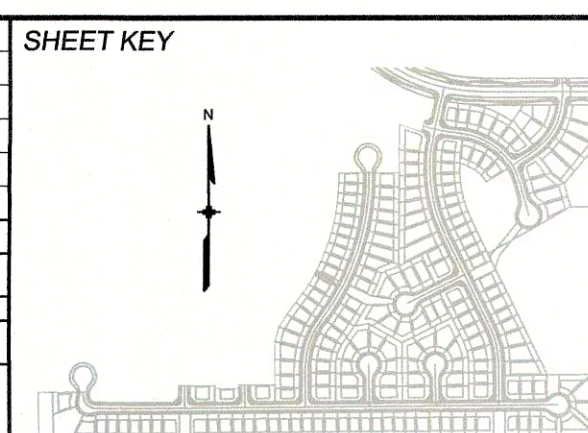
WATER AND SANITARY SEWER APPROVAL

ANY CHANGES OR ALTERATIONS AFFECTING THE GRADE, ALIGNMENT, ELEVATION, AND/OR DEPTH OF COVER OF ANY WATER OR SEWER MAINS OR OTHER APPURTENANCE SHOWN ON THIS DRAWING SHALL BE THE RESPONSIBILITY OF THE OWNER/DEVELOPER. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR ALL OPERATION DAMAGES AND DEFECTS IN INSTALLATION AND MATERIAL FOR MAINS AND SERVICES FROM THE DATE OF APPROVAL UNTIL FINAL ACCEPTANCE IS ISSUED.

SIGNED [Signature] DATE 10-15-19
OWNER/DEVELOPER

PRINT NAME TIM BUSCHAR
DBA COLA, LLC
ADDRESS 555 MIDDLE CREEK PARKWAY, SUITE 500
COLORADO SPRINGS, CO 80921

REFERENCE DRAWINGS	#### #### #### #### #### #### #### #### ####	#### #### #### #### #### #### #### #### ####	#### #### #### #### #### #### #### #### ####		#### #### #### #### #### #### #### #### ####
X-886-PR SITE F1	####	####	####		####
19-886-PR-UTIL	####	####	####		####
19-886-PR-UTIL_SANITARY	####	####	####		####
x-title-utilities	####	####	####		####
X-886-PR SITE	####	####	####		####
No.	DATE	DESCRIPTION			BY
REVISIONS					
COMPUTER FILE MANAGEMENT					
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Utility Plans\Water Plan\TS01.dwg					
CTB FILE:					
PLOT DATE: September 26, 2019 9:37:51 AM					
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.					

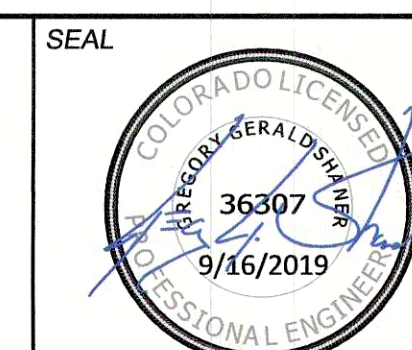


BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERTINSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD, ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2' AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4' AULM. CAP PLS 10377)

PREPARED BY:

Matrix
DESIGN GROUP



FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

DESIGNED BY: WME
DRAWN BY: WME
CHECKED BY: NMS

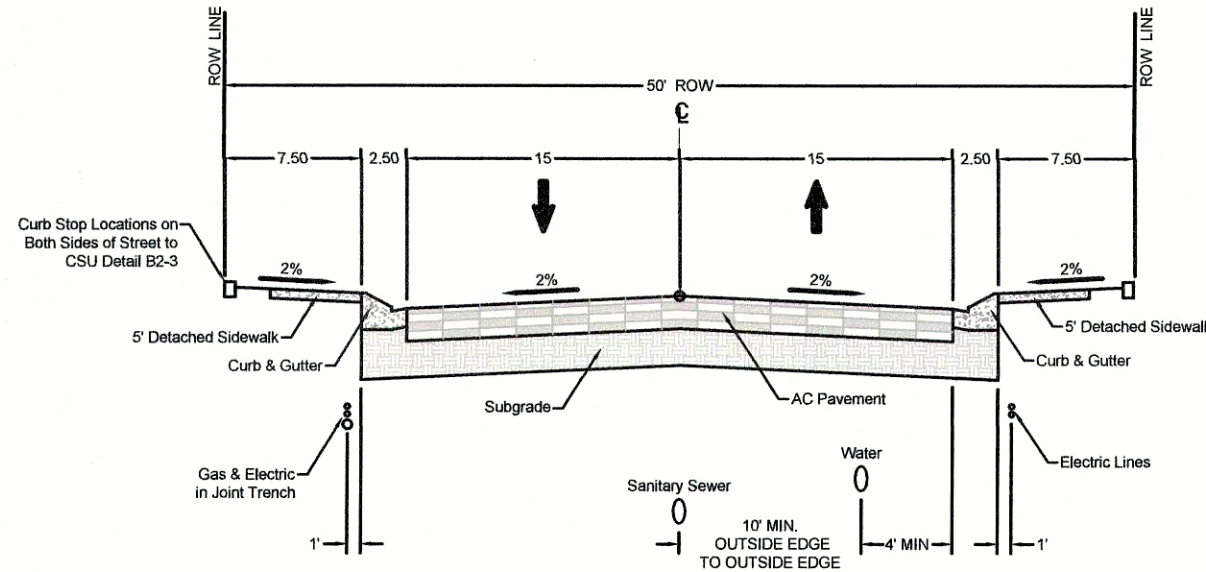
SCALE
HORIZ. N/A
VERT. N/A

DATE ISSUED: SEPTEMBER, 2019
SHEET 1 OF 12

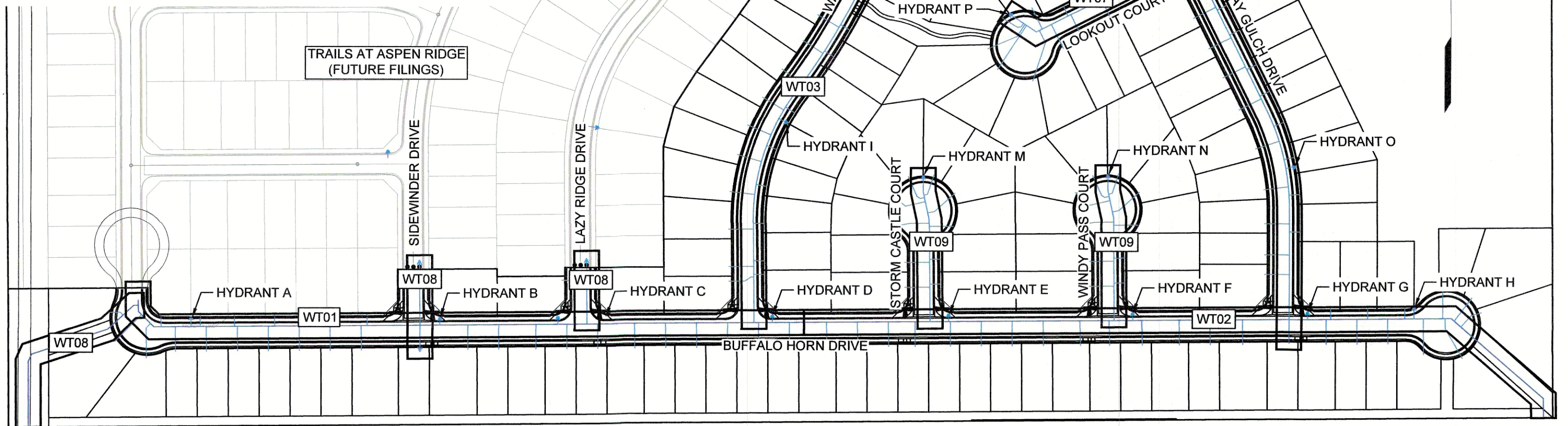
DRAWING No. TS01

WIDEFIELD WATER AND SANITATION DISTRICT GENERAL NOTES

- ALL UTILITY CONSTRUCTION TO BE CONDUCTED IN CONFORMANCE WITH THE CURRENT WIDEFIELD WATER AND SANITATION DISTRICT SPECIFICATIONS. COMPACTION REQUIREMENTS SHALL BE 95% STANDARD PROCTOR AS DETERMINED BY ASTM D698, UNLESS OTHERWISE APPROVED BY THE WIDEFIELD WATER AND SANITATION DISTRICT OR A HIGHER STANDARD IS IMPOSED BY ANOTHER AGENCY HAVING RIGHT-OF-WAY JURISDICTION.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE WIDEFIELD WATER AND SANITATION DISTRICT. THE WIDEFIELD WATER AND SANITATION DISTRICT RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.
- THE DEVELOPER OR HIS ENGINEER HAS LOCATED ALL FIRE HYDRANTS AND FUTURE SERVICE STUBS. ANY REQUIRED REALIGNMENT, EITHER HORIZONTAL OR VERTICAL, SHALL BE AT THE EXPENSE OF THE DEVELOPER.
- ALL DUCTILE IRON PIPE, TO INCLUDE FITTINGS, VALVES AND FIRE HYDRANTS WILL BE WRAPPED WITH POLYETHYLENE TUBING, AND ELECTRICALLY ISOLATED.
- ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE DOUBLE BONDED. SPECIFICATIONS FOR CATHODIC PROTECTION ON BOTH DIP MAINS AND PVC MAINS IS SPECIFIED IN THE STANDARDS AND SPECIFICATIONS.
- PVC MAIN LINES SHALL BE INSTALLED WITH COATED NO. 12 TRACER WIRE.
- THE CONTRACTOR IS REQUIRED TO NOTIFY THE WIDEFIELD WATER AND SANITATION DISTRICT (390-7111) A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY COMPANIES 48 HOURS PRIOR TO CONSTRUCTION ADJACENT TO THE KNOWN UTILITY LINES.
- THE LOCATION OF ALL UTILITIES AS SHOWN ON THESE DRAWINGS ARE APPROXIMATE ONLY. THE LOCATION OF ALL UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION BY THE CONTRACTOR.
- THE CONTRACTOR SHALL FIELD EXCAVATE AND VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF ALL TIE-INS. CONTRACTOR SHALL NOTIFY THE WIDEFIELD WATER AND SANITATION DISTRICT AND THE ENGINEER OF THE FIELD VERIFIED INFORMATION PRIOR TO CONSTRUCTION.
- ALL BENDS SHALL BE FIELD STAKED PRIOR TO CONSTRUCTION.
- ANY WATER UTILITY MATERIAL REMOVED AND NOT REUSED SHALL BE RETURNED TO THE WIDEFIELD WATER AND SANITATION DISTRICT IF THE DISTRICT SO REQUESTS.
- THE CONTRACTOR SHALL AT HIS EXPENSE SUPPORT AND PROTECT ALL UTILITY MAINS SO THAT THEY WILL FUNCTION CONTINUOUSLY DURING CONSTRUCTION. SHOULD A UTILITY MAIN FAIL AS A RESULT OF THE CONTRACTOR'S OPERATION, IT WILL BE REPLACED IMMEDIATELY BY EITHER THE CONTRACTOR OR THE WIDEFIELD WATER AND SANITATION DISTRICT AT FULL COST OF LABOR AND MATERIALS TO THE CONTRACTOR.
- ANY PUMPING OR BYPASS OPERATIONS MUST BE REVIEWED AND APPROVED PRIOR TO EXECUTION BY BOTH THE WIDEFIELD WATER AND SANITATION DISTRICT AND THE ENGINEER.
- CONTRACTOR MUST REPLACE OR REPAIR ANY DAMAGE TO ALL SURFACE IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO FENCES, CURB AND GUTTER AND/OR ASPHALT THAT MAY BE CAUSED DURING CONSTRUCTION.
- ALL WATER LINES 6" AND LARGER, AND ALL SEWER LINES 8" AND LARGER, SHALL HAVE AS "AS-BUILT" PLANS PREPARED AND APPROVED PRIOR TO FINAL ACCEPTANCE BY THE WIDEFIELD WATER AND SANITATION DISTRICT.
- PRIOR TO CONSTRUCTION, A PRE-CONSTRUCTION CONFERENCE IS REQUIRED A MINIMUM OF 72 HOURS IN ADVANCE OF COMMENCEMENT OF WORK. TO SET THE PRE-CONSTRUCTION CONFERENCE, CONTACT BRANDON BERNARD-WATER DIVISION MANAGER AND/OR JASON DRESSSEN, WASTEWATER DIVISION MANAGER AT (719)955-0548 OF THE WIDEFIELD WATER AND SANITATION DISTRICT FOR A TIME. NO PRE-CONSTRUCTION CONFERENCE TIMES WILL BE SET UNTIL 4 SETS OF SIGNED DRAWINGS ARE RECEIVED BY THE WIDEFIELD W & S DISTRICT. PRE-CONSTRUCTION DATE/INITIALS _____.



TYPICAL RESIDENTIAL STREET
N.T.S.



OVERALL HYDRANT LAYOUT

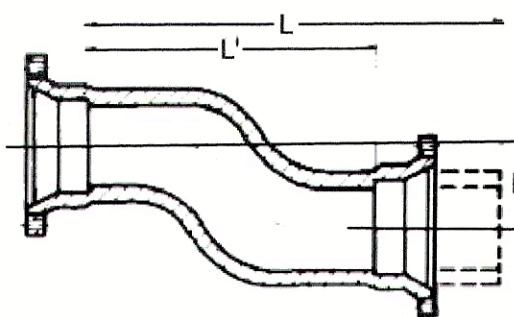
SCALE: 1" = 150'

MJ x MJ				MJ x PE			
Size		Dimensions L'		Weights			
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4	12	22	30	85	80		
4	18	30	38	105	...		
* 4	24	26	34	126	125		
6	6	20	28	114	105		
6	12	26	34	148	143		
6	18	33	41	188	176		
* 6	24	24	32	182	160		
8	6	21	29	177	155		
8	12	28	36	231	195		
8	18	35	43	287	282		
* 8	24	36	44	280	285		
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10	24	38	46	420	...		
12	12	37	45	420	420		
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*12	24	48	56	649	630		
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16	18	50	58	850	830		
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TYLER UNION
PLUGS

DUCTILE IRON C110 FULL BODY
MECHANICAL JOINT FITTINGS

OFFSETS



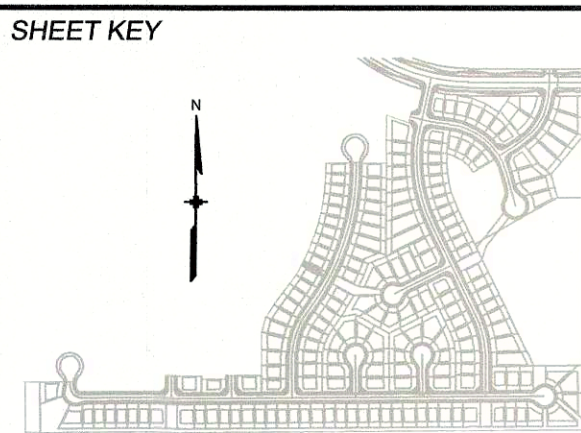
ABBREVIATIONS

ASSY	ASSEMBLY
BOP	BOTTOM OF PIPE
BOV	BLOWOFF ASSEMBLY AND VALVE
CPLG	COUPLING
(INS.)	(INSULATING)
(RED.)	(REDUCING)
(STR.)	(STRAIGHT)
CRA	CONCRETE REVERSE ANCHOR
CTRB	CONCRETE THRUST REACTION BLOCK
DEFL	DEFLECT
DIP	DUCTILE IRON PIPE
EL	ELEVATION
EX	EXISTING
FLG	FLANGE
FH	FIRE HYDRANT
GPM	GALLONS PER MINUTE
GRD BRK	V.P.I. GRADE BREAK
HYD ASSY	INCLUDES FIRE HYDRANT, LATERAL, VALVE, TIE RODS, AND REVERSE ANCHOR.
INV	INVERT
LT	LEFT OF CENTER LINE
MIN	MINIMUM
MJ	MECHANICAL JOINT
N.S.E.W	NORTH,SOUTH,EAST, WEST
PL	PROPERTY LINE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
RED	REDUCER
RSNTS	MJ RESTRAINT (i.e. MEGALUG)
RT	RIGHT OF CENTER LINE
SJ	SLIP JOINT
SS	SANITARY SEWER
STA	STATION
STS	STORM SEWER
TOP	TOP OF PIPE
TYP	TYPICAL
WL	WATER LINE

LEGEND

	VALVE (PROPOSED)
	VALVE (EXISTING)
	BLOWOFF (PROPOSED)
	BLOWOFF (EXISTING)
	PLUG (PROPOSED)
	PLUG (EXISTING)
	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	ROW/PROPERTY LINE
	CURB LINE
	EXISTING GAS MAIN
	EXISTING WATER
	PROPOSED 8" WATER
	PROPOSED 12" WATER
	EXISTING STORM DRAIN
	PROPOSED STORM DRAIN
	EXISTING SAN. SEWER
	PROPOSED SAN. SEWER
	EXISTING MANHOLE
	PROPOSED MANHOLE

REFERENCE DRAWINGS	####	####	####	####
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No.	DATE	DESCRIPTION		BY
REVISIONS				
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CTB FILE: —				
PLOT DATE: September 16, 2019 11:24:03 AM				
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.				



BENCHMARK

COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERTINSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

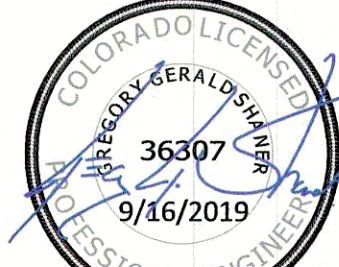
BASIS OF BEARING

BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2' AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4' AULM. CAP PLS 10377)

PREPARED BY:

Matrix
DESIGN GROUP

SEAL



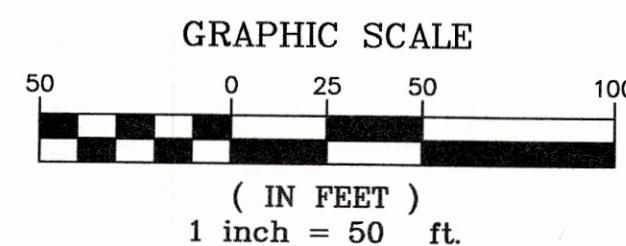
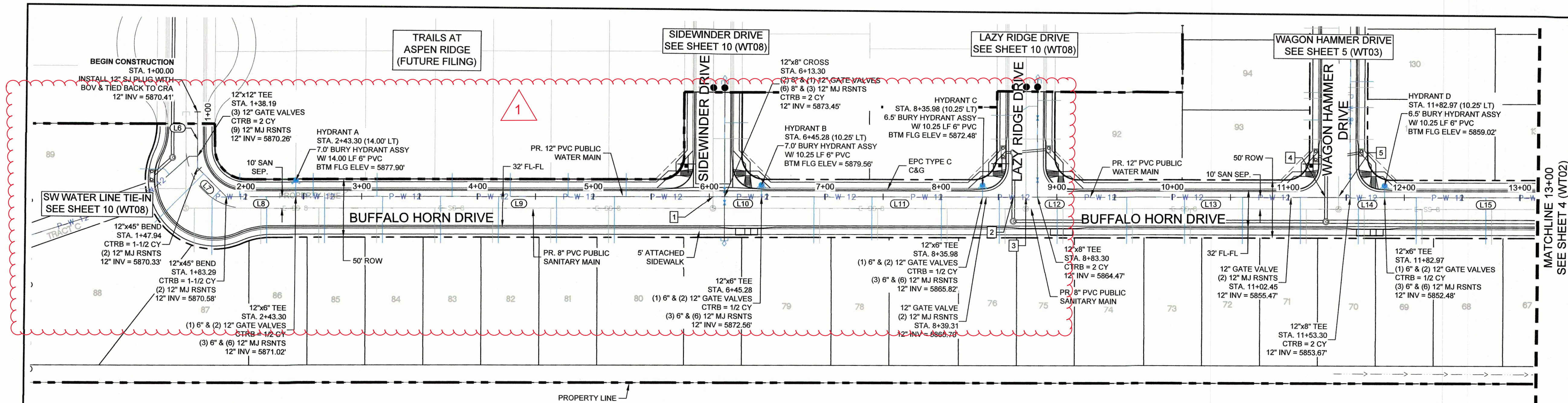
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

DESIGNED BY:	WME	SCALE	DATE ISSUED:	SEPTEMBER, 2019	DRAWING No.
DRAWN BY:	WME	HORIZ. 1" = 150'	SHEET	2 OF 12	GN01
CHECKED BY:	NMS	VERT. N/A			

TRAILS AT ASPEN RIDGE

FILING NO. 1
8" & 12" PUBLIC WATER LINE PLANS

GENERAL NOTES



LINE TABLE		
LINE #	BEARING	DISTANCE
L6	S00°26'25"E	47.94
L7	S45°26'25"E	35.36
L8	N89°33'35"E	60.01
L9	N89°33'35"E	370.00
L10	N89°33'35"E	31.97
L11	N89°33'35"E	238.03
L12	N89°33'35"E	29.71
L13	N89°33'35"E	240.29
L14	N89°33'35"E	29.67
L15	N89°33'35"E	254.74

UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
1	N 5,446.40 E 12,332.83	8" PVC SEWER 5865.77	12" PVC WATER 5873.42	17.65'
2	N 5,448.39 E 12,592.08	12" PVC WATER 5862.36	24" RCP STORM 5864.36	2.00'
3	N 5,448.47 E 12,602.83	8" PVC SEWER 5852.47	12" PVC WATER 5864.85	12.38'
4	N 5,450.46 E 12,862.07	12" PVC WATER 5851.76	24" RCP STORM 5853.76	2.00'
5	N 5,450.55 E 12,872.82	8" PVC SEWER 5846.34	12" PVC WATER 5854.04	7.70'

NOTES:

- ALL DEFLECTIONS ARE ACHIEVED UTILIZING HIGH-DEFLECTION COUPLERS.
- WATER CROSSINGS REQUIRING SECONDARY CONTAINMENT SHALL BE IN ACCORDANCE WITH WIDEFIELD WATER STANDARDS DETAIL W-16

THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

THE WIDEFIELD WATER AND SANITATION DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN AND HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

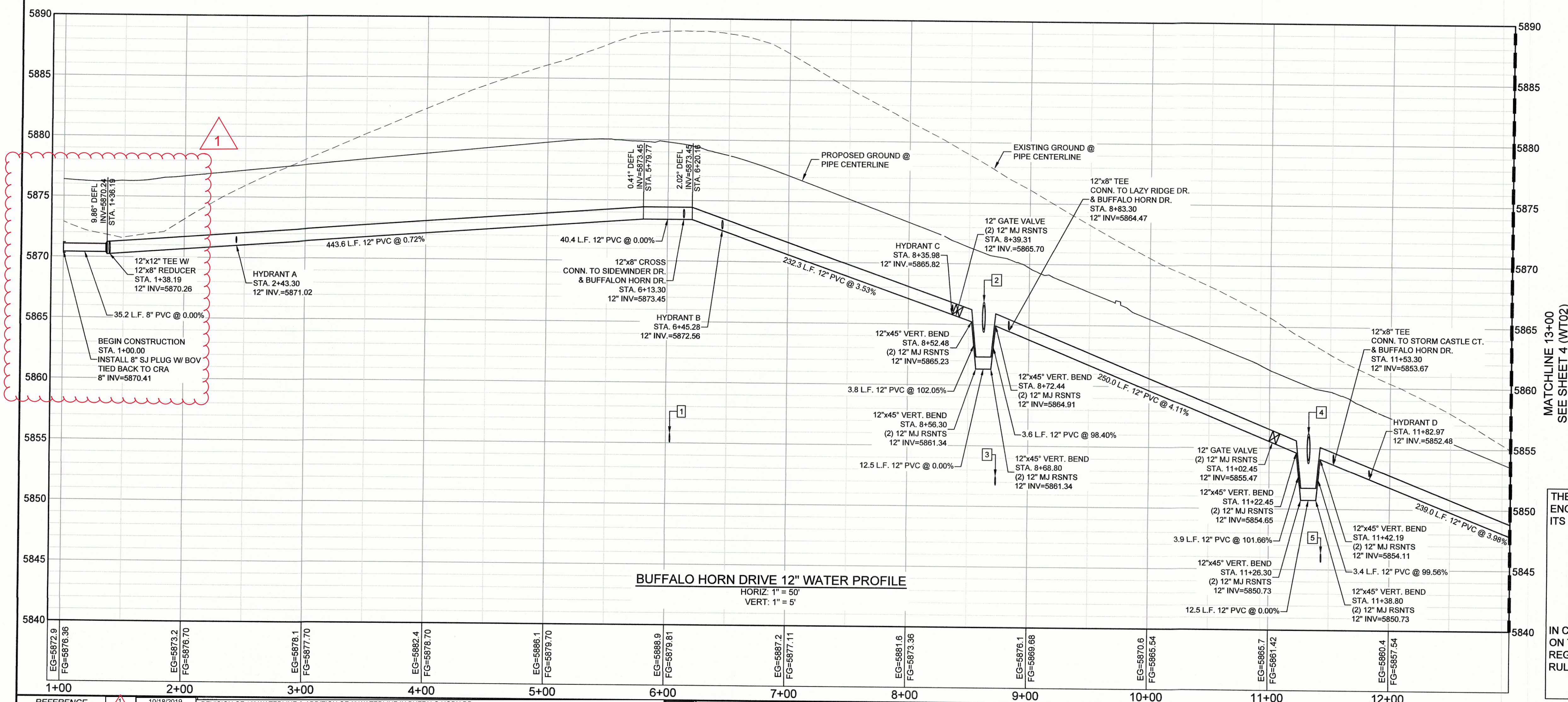
WIDEFIELD WATER AND SANITATION DISTRICT
WATER DESIGN APPROVAL

DATE: _____ BY: _____

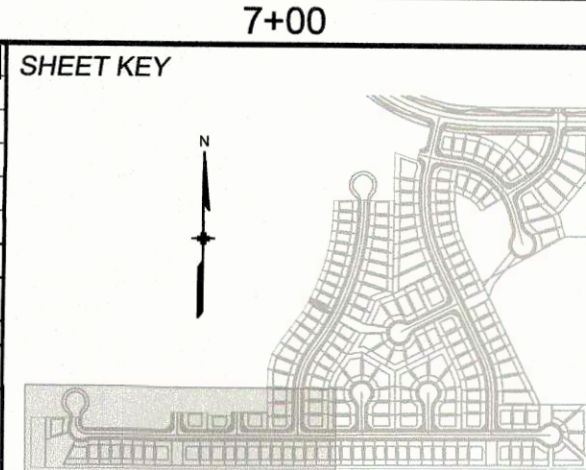
PROJECT NUMBER: _____

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT THE STANDARDS AS DEFINED IN THE "RULES AND REGULATIONS FOR INSTALLATION OF WATER MAINS AND SERVICES" SHALL RULE.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL



REFERENCE DRAWINGS		REVISIONS		DESCRIPTION	
10/18/2019	REVISION OF 12" WATERLINE & ADDITION OF 8" WATERLINE IN BUFFALO HORN DR.	NO.	DATE	DESCRIPTION	REVISIONS
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2	10/18/2019	NO.	DATE	DESCRIPTION	REVISIONS
3	10/18/2019	NO.	DATE	DESCRIPTION	REVISIONS
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9	10/18/2019	NO.	DATE	DESCRIPTION	REVISIONS
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11	10/18/2019	NO.	DATE	DESCRIPTION	REVISIONS
12	10/18/2019	NO.	DATE	DESCRIPTION	REVISIONS
13	10/18/2019	NO.	DATE	DESCRIPTION	REVISIONS
14	10/18/2019	NO.	DATE	DESCRIPTION	REVISIONS
15	10/18/2019	NO.	DATE	DESCRIPTION	REVISIONS
16	10/18/2019	NO.	DATE	DESCRIPTION	REVISIONS
17	10/18/2019	NO.	DATE	DESCRIPTION	REVISIONS
18	10/18/2019	NO.	DATE	DESCRIPTION	REVISIONS
19	10/18/2019	NO.	DATE	DESCRIPTION	REVISIONS
20	10/18/2019	NO.	DATE	DESCRIPTION	REVISIONS



BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 16 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4" AULM. CAP PLS 10377)

PREPARED BY:

Matrix
DESIGN GROUP

SEAL

COLORADO LICENSED PROFESSIONAL ENGINEER
36307
9/16/2019

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE

FILING NO. 1
8" & 12" PUBLIC WATER LINE PLANS

WATER LINE PLAN & PROFILE

DESIGNED BY: WME
DRAWN BY: WME
CHECKED BY: NMS

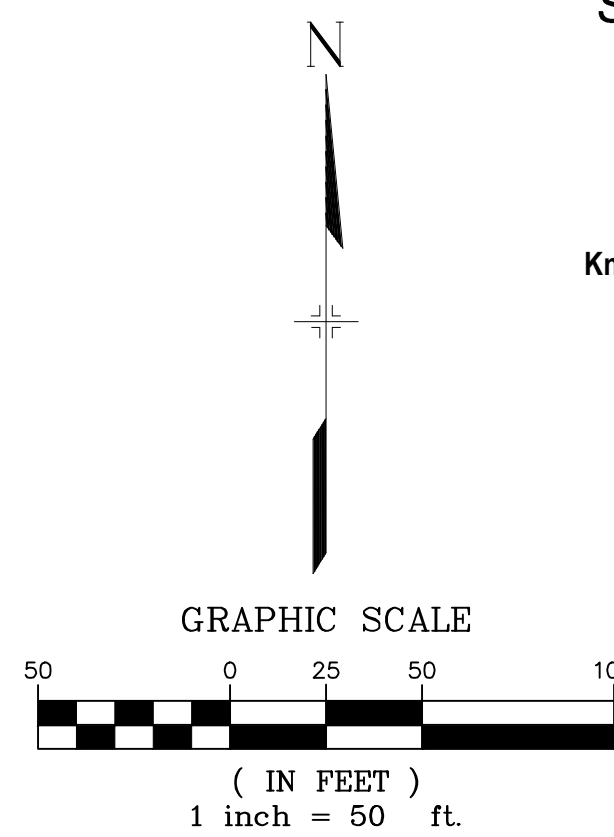
SCALE
HORIZ. 1" = 50'
VERT. 1" = 5'

DATE ISSUED: SEPTEMBER, 2019
SHEET 3 OF 12

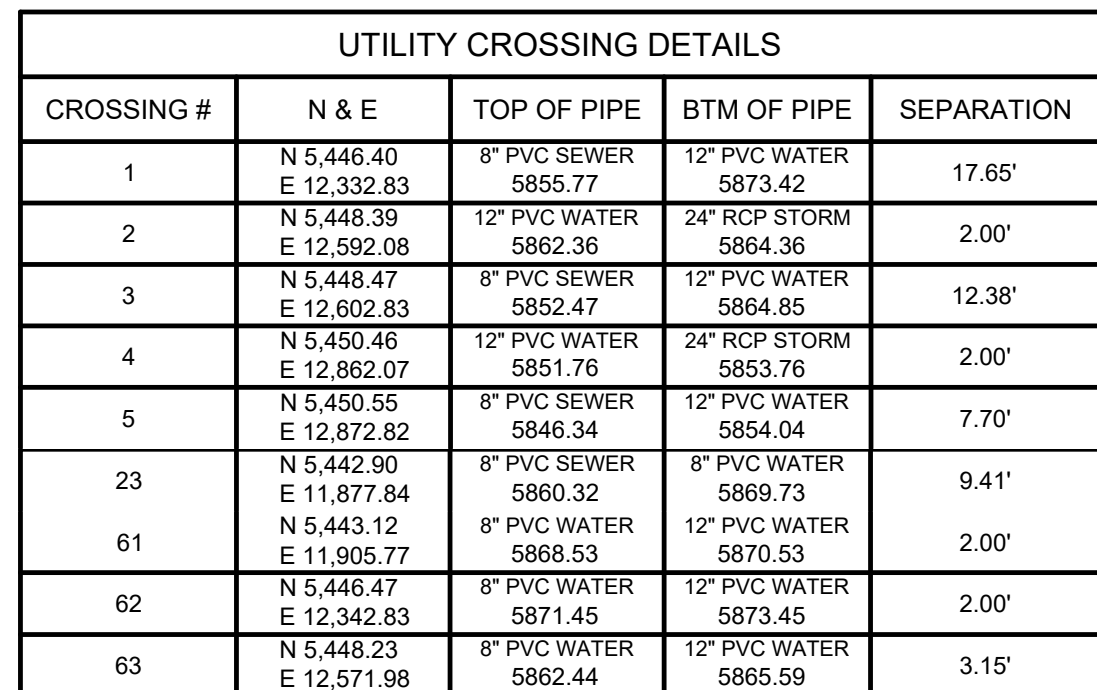
DRAWING No. WT01



Know what's below.
Call before you dig.



LINE TABLE		
LINE #	BEARING	DISTANCE
L6	N89°33'35"E	135.18
L7	N89°33'35"E	401.97
L8	N89°33'35"E	190.70
L9	N89°33'35"E	47.32
L10	N89°33'35"E	270.00
L11	N89°33'35"E	29.67
L12	N89°33'35"E	254.74



NOTES:

1. ALL DEFLECTIONS ARE ACHIEVED UTILIZING HIGH-DEFLECTION COUPLERS.
2. WATER CROSSINGS REQUIRING SECONDARY CONTAINMENT SHALL BE IN ACCORDANCE WITH WIDFIELD WATER STANDARDS DETAIL W-16

THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

THE WIDEFIELD WATER AND SANITATION DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN AND HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

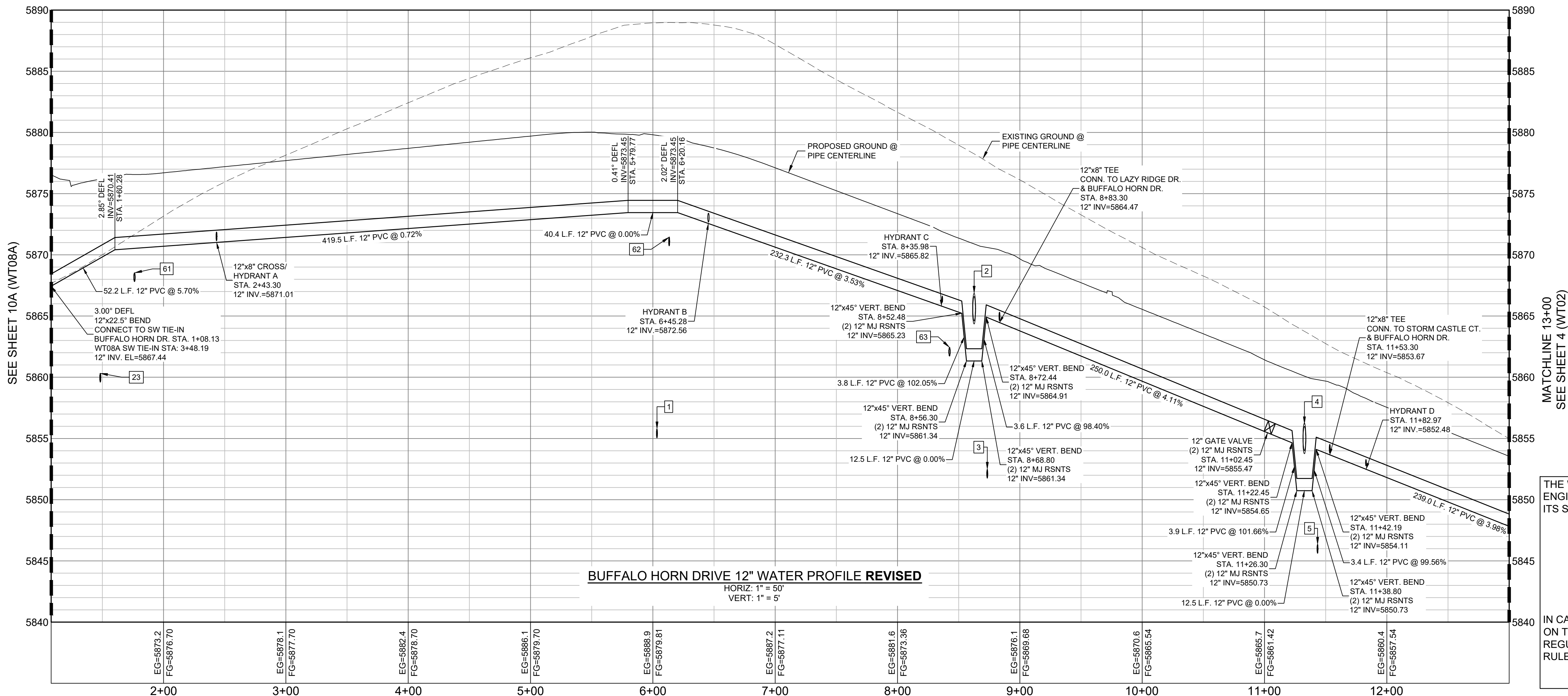
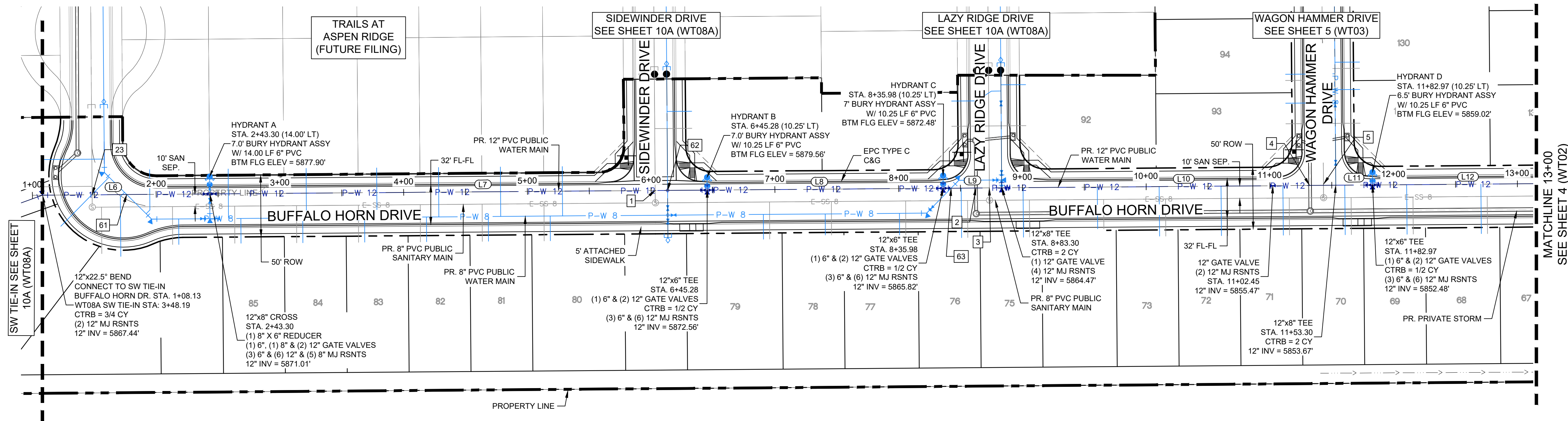
**WIDEFIELD WATER AND SANITATION DISTRICT
WATER DESIGN APPROVAL**


DATE: BY:

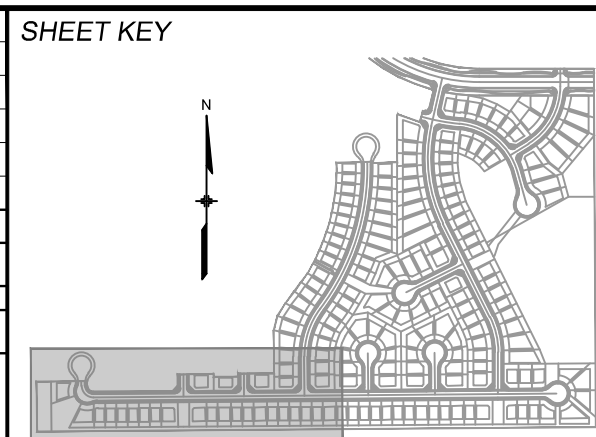
PROJECT NUMBER: _____

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN
ON THIS DOCUMENT THE STANDARDS AS DEFINED IN THE "RULES AND
REGULATIONS FOR INSTALLATION OF WATER MAINS AND SERVICES" SHALL
RULE.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL



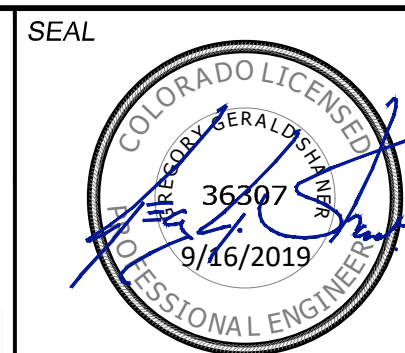
REFERENCE DRAWINGS		10/18/2019	REVISION OF 12" WATERLINE & ADDITION OF 8" WATERLINE IN BUFFALO HORN DR.	KZINS
X-886-PR SITE_F1	####	####	####	####
19-886-PR-UTIL	####	####	####	####
x-title-utilities	####	####	####	####
X-886-PR SITE	####	####	####	####
X-886-CROSSINGS	####	####	####	####
19-886-PR-UTIL_SANITARY	No.	DATE	DESCRIPTION	BY
X-886-PR STORM_F1				
886-PR Legacy Drive	REVISIONS			
COMPUTER FILE MANAGEMENT				
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Utility Plans\Water Plan\WT01.dwg				
CTB FILE: ----				
PLOT DATE: October 18, 2019 3:53:40 PM				
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.				



BENCHMARK
 COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
 A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A
 ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS
 BOULEVARD,
 ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4" AULM. CAP PLS 10377)

PREPARED BY:

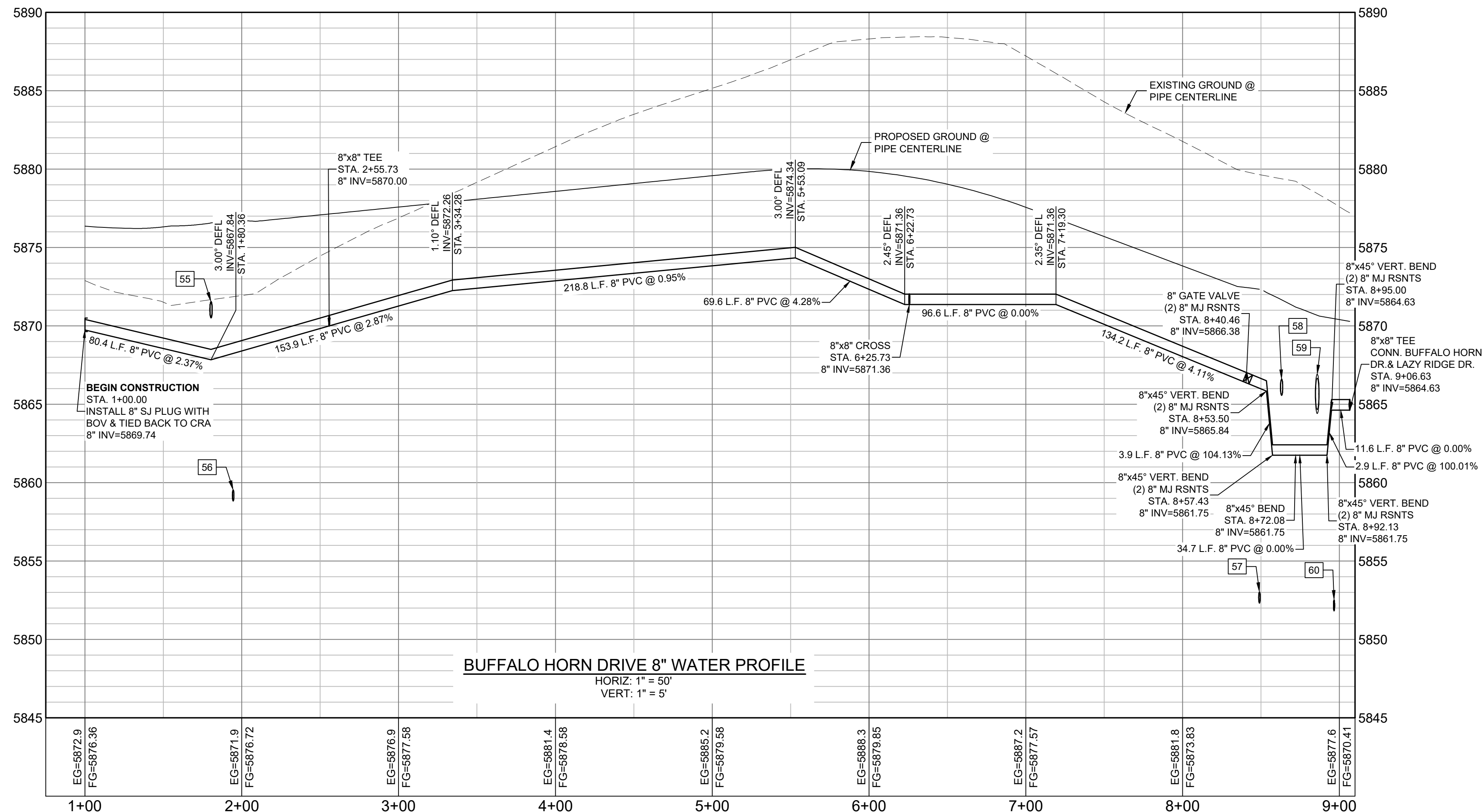
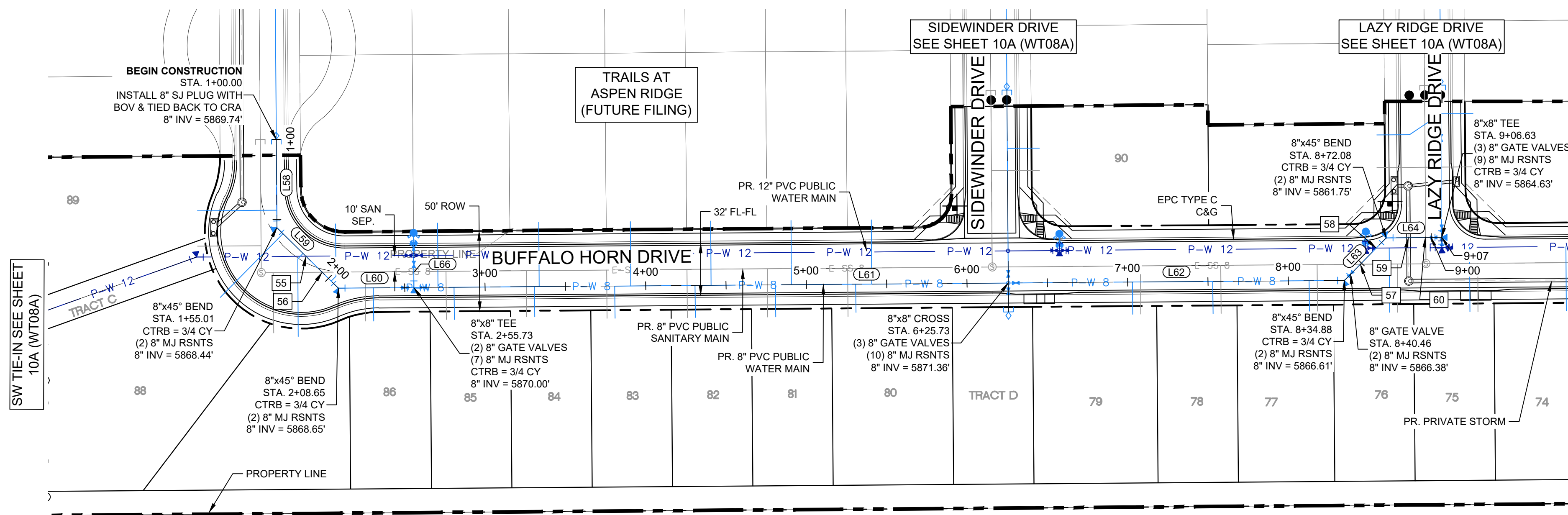
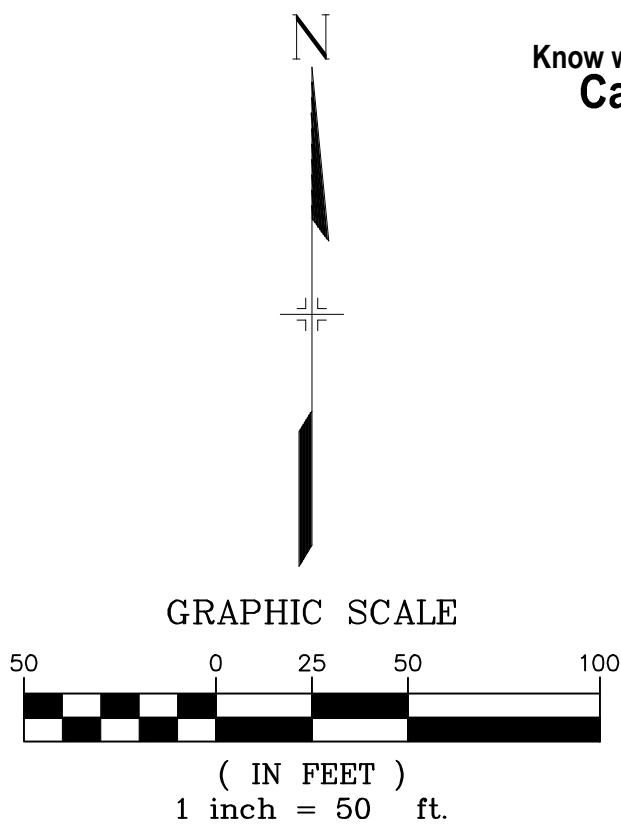


FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

DESIGNED BY:	WME	SCALE	DATE ISSUED:	OCTOBER, 2019	DRAWING No. WT01A
DRAWN BY:	WME	HORIZ. 1" = 50'			
CHECKED BY:	NMS	VERT. 1" = 5'	SHEET	3A OF 12	



Know what's below.
Call before you dig.



LINE TABLE		
LINE #	BEARING	DISTANCE
L58	S00°26'25"E	55.01
L59	S45°26'25"E	53.64
L60	N89°33'35"E	47.08
L61	N89°33'36"E	370.00
L62	N89°33'33"E	209.15
L63	N44°33'35"E	37.20
L64	N89°33'35"E	34.55
L66	N00°26'25"W	20.00

UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
55	N 5,443.12 E 11,905.77	8" PVC WATER 5868.51	12" PVC WATER 5870.51	2.00'
56	N 5,433.19 E 11,915.84	8" PVC SAN 5859.54	8" PVC WATER 5868.24	8.70'
57	N 5,438.16 E 12,562.06	8" PVC SAN 5853.03	8" PVC WATER 5866.02	12.99'
58	N 5,448.23 E 12,571.98	8" PVC WATER 5862.42	12" PVC WATER 5865.57	3.15'
59	N 5,454.69 E 12,592.03	8" PVC WATER 5862.42	24" RCP STORM 5864.42	2.00'
60	N 5,454.77 E 12,602.78	8" PVC SAN 5852.53	8" PVC WATER 5864.63	12.10'

NOTES:

- ALL DEFLECTIONS ARE ACHIEVED UTILIZING HIGH-DEFLECTION COUPLERS.
- WATER CROSSINGS REQUIRING SECONDARY CONTAINMENT SHALL BE IN ACCORDANCE WITH WIDEFIELD WATER STANDARDS DETAIL W-16

THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

THE WIDEFIELD WATER AND SANITATION DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN AND HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

WIDEFIELD WATER AND SANITATION DISTRICT WATER DESIGN APPROVAL

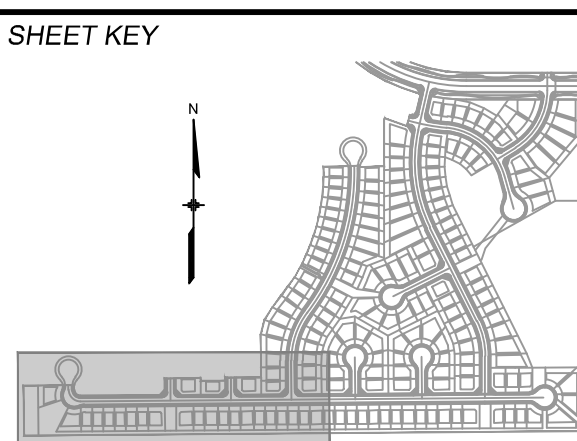
DATE: _____ BY: _____

PROJECT NUMBER: _____

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT THE STANDARDS AS DEFINED IN THE "RULES AND REGULATIONS FOR INSTALLATION OF WATER MAINS AND SERVICES" SHALL RULE.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL

REFERENCE DRAWINGS	10/18/2019	REVISION OF 12" WATERLINE & ADDITION OF 8" WATERLINE IN BUFFALO HORN DR.	KZNS	SHEET KEY
X-886-PR SITE_F1	####	####	####	####
19-886-PR-UTIL	####	####	####	####
X-886-UTIL	####	####	####	####
X-886-PR SITE	####	####	####	####
X-886-CROSSINGS	####	####	####	####
19-886-PR-UTIL_SANITARY	####	####	####	####
X-886-PR STORM_F1	####	####	####	####
886-PR Legacy Drive	####	####	####	####
DESCRIPTION REVISIONS				
No.	DATE		BY	
COMPUTER FILE MANAGEMENT				
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Utility Plans\Water Plan\WT01.dwg				
CTB FILE: ----				
PLOT DATE: October 18, 2019 3:53:44 PM				
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE				



BENCHMARK

COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

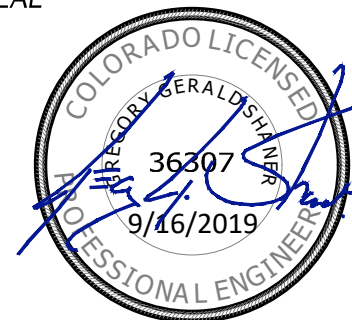
BASIS OF BEARING

BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

PREPARED BY:

Matrix
DESIGN GROUP

SEAL



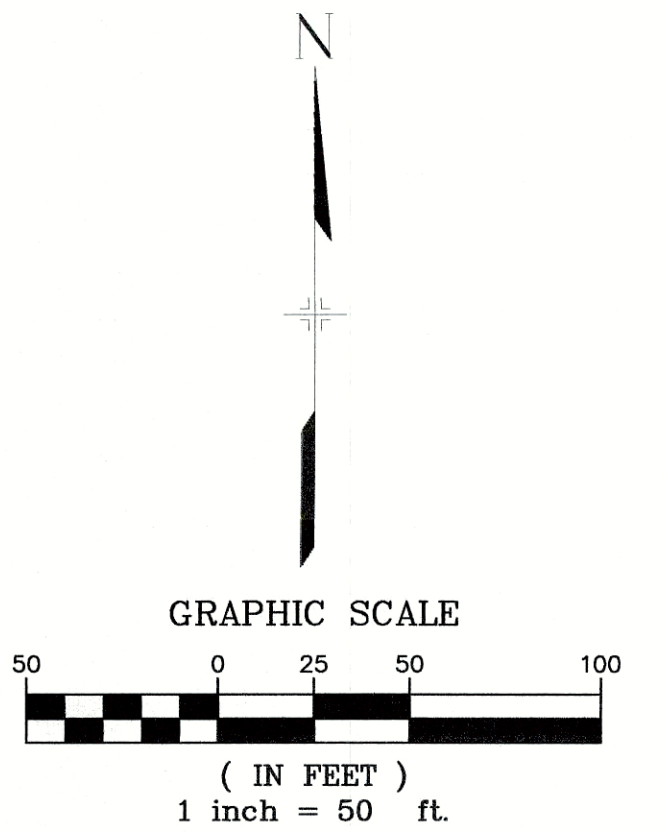
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE

FILING NO. 1
8" & 12" PUBLIC WATER LINE PLANS

WATER LINE PLAN & PROFILE

DESIGNED BY: WME	SCALE: 1" = 50'	DATE ISSUED: OCTOBER, 2019	DRAWING No.
DRAWN BY: NMS	HORIZ. 1" = 50'	SHEET 38 OF 12	WT01B
CHECKED BY: NMS	VERT. 1" = 5'		



UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
6	N 5,452.73 E 13,157.22	8" PVC SEWER 5836.04	12" PVC WATER 5843.00	6.96'
7	N 5,454.33 E 13,365.05	12" PVC WATER 5835.33	24" RCP STORM 5836.78	1.45'
8	N 5,455.02 E 13,455.15	8" PVC SEWER 5827.52	12" PVC WATER 5834.23	6.80'
9	N 5,457.19 E 13,737.74	8" PVC SEWER 5815.14	12" PVC WATER 5825.27	10.13'
10	N 5,459.05 E 13,980.01	12" PVC WATER 5819.73	36" RCP STORM 5821.20	1.47'
11	N 5,449.37 E 14,021.60	8" PVC SEWER 5812.33	12" PVC WATER 5818.68	6.35'
49	N 5,457.28 E 13,726.12	12" PVC WATER 5826.41	24" RCP STORM 5828.82	2.41'

THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL



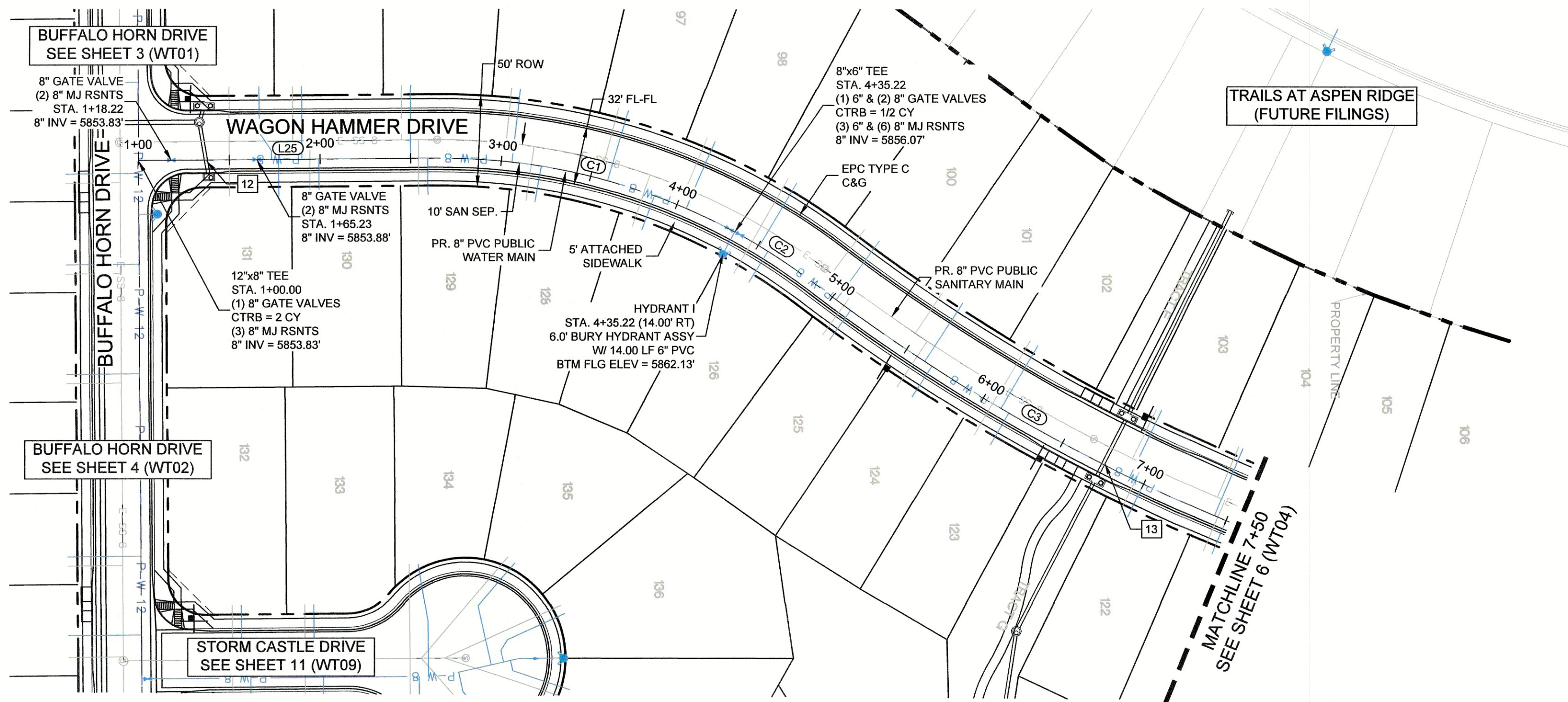
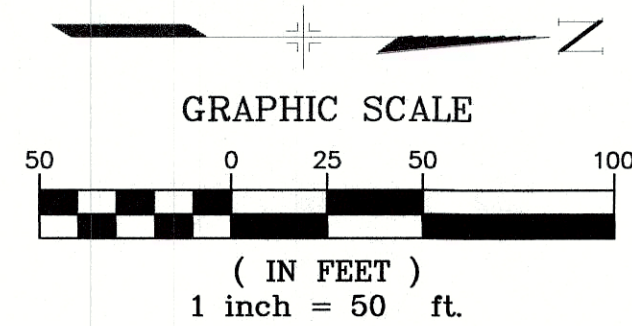
DESIGNED BY:	WME	SCALE	DATE ISSUED:	SEPTEMBER, 2019	DRAWING No. WT02
DRAWN BY:	WME	HORIZ. 1" = 50'			
CHECKED BY:	NMS	VERT. 1" = 5'	SHEET	4 OF 12	

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4" AULM. CAP PLS 10377)

Matrix
DESIGN GROUP

WATER LINE PLAN & PROFILE

DESIGNED BY:	WME	SCALE	DATE ISSUED:	SEPTEMBER, 2019	DRAWING No. WT02
DRAWN BY:	WME	HORIZ. 1" = 50'			
CHECKED BY:	NMS	VERT. 1" = 5'	SHEET	4 OF 12	

Know what's below.
Call before you dig.

LINE TABLE		
LINE #	BEARING	DISTANCE
L25	N00°26'25"W	164.59

CURVE TABLE				
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING
C1	170.63	339.95	28°45'33"	S13°56'18"W
C2	52.14	339.43	8°48'03"	S32°42'14"W
C3	350.30	1047.32	19°09'51"	N27°32'36"E

UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
12	N 5,487.91	8" PVC WATER	18" RCP STORM	2.00'
	E 12,882.53	5852.57	5854.57	
13	N 5,882.06	18" RCP STORM	8" PVC WATER	1.00'
	E 13,049.72	5857.05	5858.05	

NOTES:

- ALL DEFLECTIONS ARE ACHIEVED UTILIZING HIGH-DEFLECTION COUPLERS.
- WATER CROSSINGS REQUIRING SECONDARY CONTAINMENT SHALL BE IN ACCORDANCE WITH WIDEFIELD WATER STANDARDS DETAIL W-16

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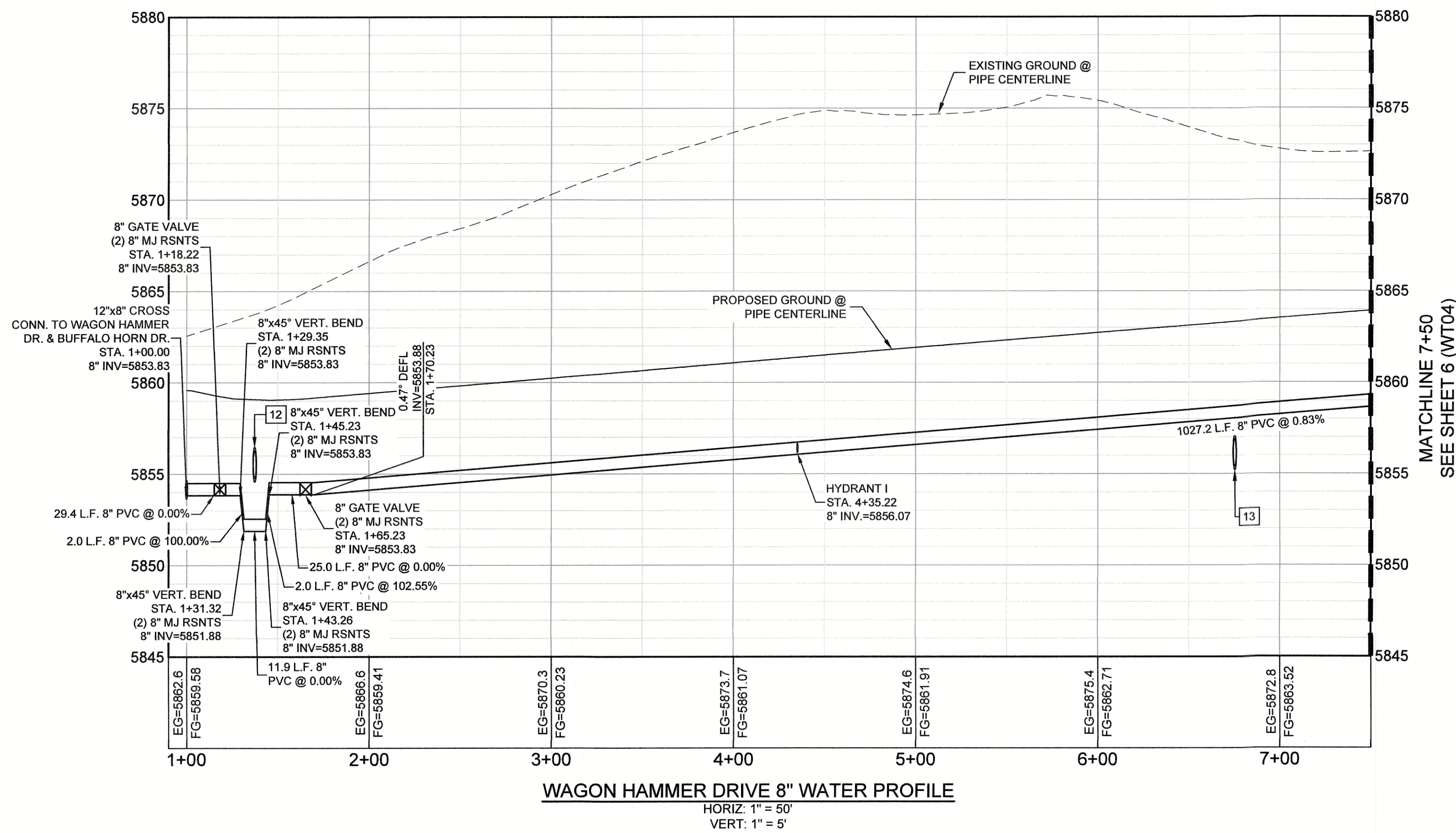
WIDEFIELD WATER AND SANITATION DISTRICT
WATER DESIGN APPROVAL

DATE: _____ BY: _____

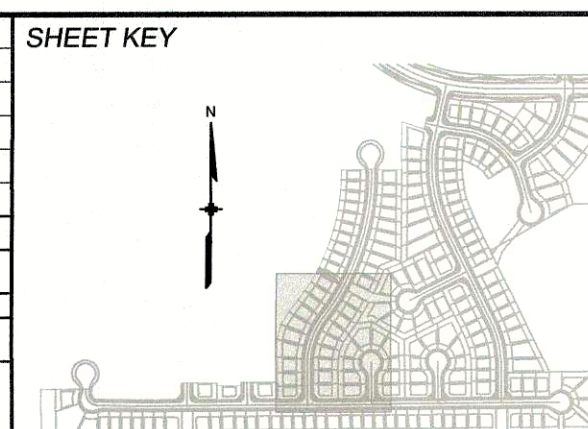
PROJECT NUMBER: _____

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT THE STANDARDS AS DEFINED IN THE "RULES AND REGULATIONS FOR INSTALLATION OF WATER MAINS AND SERVICES" SHALL RULE.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL



REFERENCE DRAWINGS	####	####	####		####
X-886-PR SITE_F1	####	####	####		####
19-886-PR-UTIL	####	####	####		####
x-886-utilities	####	####	####		####
X-886-PR SITE	####	####	####		####
X-886-CROSSINGS	####	####	####		####
19-886-PR-UTIL_SANITARY	####	####	####		####
X-886-PR STORM_F1	No.	DATE	DESCRIPTION		BY
886-PR Legacy Drive			REVISIONS		
COMPUTER FILE MANAGEMENT					
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Utility Plans\Water Plan\WT01.dwg					
CTB FILE:					
PLOT DATE: September 16, 2019 11:24:40 AM					
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.					



BENCHMARK

COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERTINSON TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING

BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/2" AULM. CAP PLS 10377)

PREPARED BY:

Matrix
DESIGN GROUP

SEAL



FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

DESIGNED BY: WME	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: WME	HORIZ. 1" = 50'		
CHECKED BY: NMS	VERT. 1" = 5'	SHEET 5 OF 12	WT03

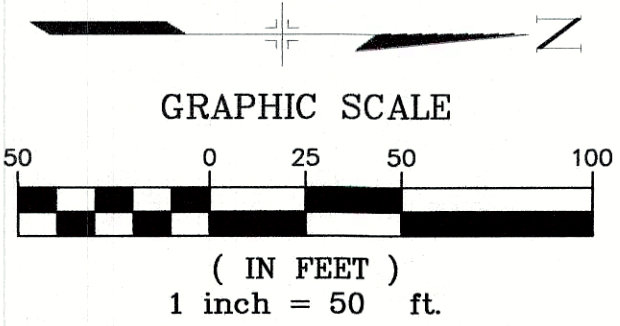
TRAILS AT ASPEN RIDGE

FILING NO. 1
8" & 12" PUBLIC WATER LINE PLANS

WATER LINE PLAN & PROFILE



Know what's below.
Call before you dig.



LINE TABLE		
LINE #	BEARING	DISTANCE
L26	N12°10'53"W	19.80
L27	N00°09'44"E	27.71
L28	N00°09'44"E	12.66
L29	N11°26'37"E	44.64

CURVE TABLE				
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING
C4	295.40	1050.00	16°07'09"	N09°55'36"E
C5	257.45	1050.00	14°02'54"	N05°09'26"W

- NOTES:
- ALL DEFLECTIONS ARE ACHIEVED UTILIZING HIGH-DEFLECTION COUPLERS.
 - WATER CROSSINGS REQUIRING SECONDARY CONTAINMENT SHALL BE IN ACCORDANCE WITH WIDEFIELD WATER STANDARDS DETAIL W-16

THE WIDEFIELD WATER AND SANITATION DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN AND HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

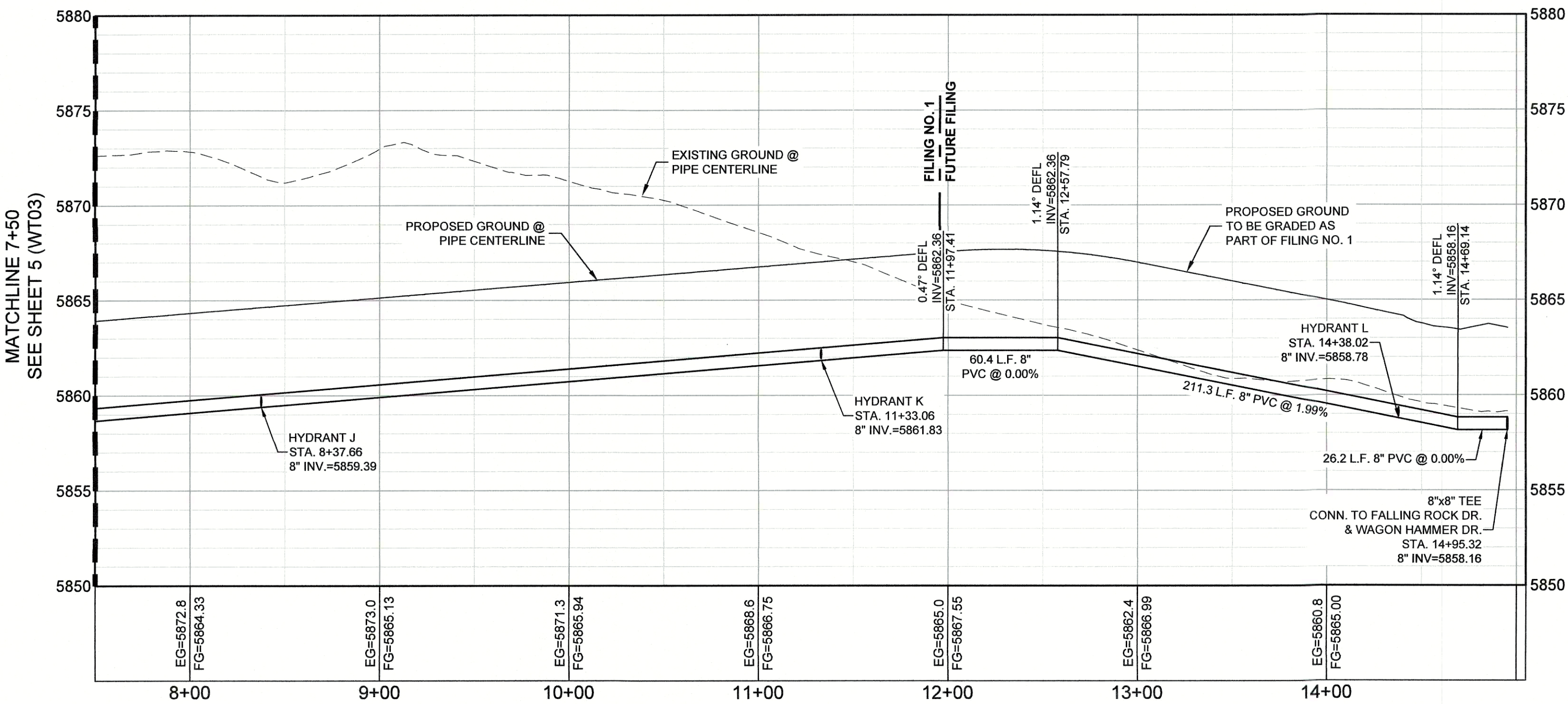
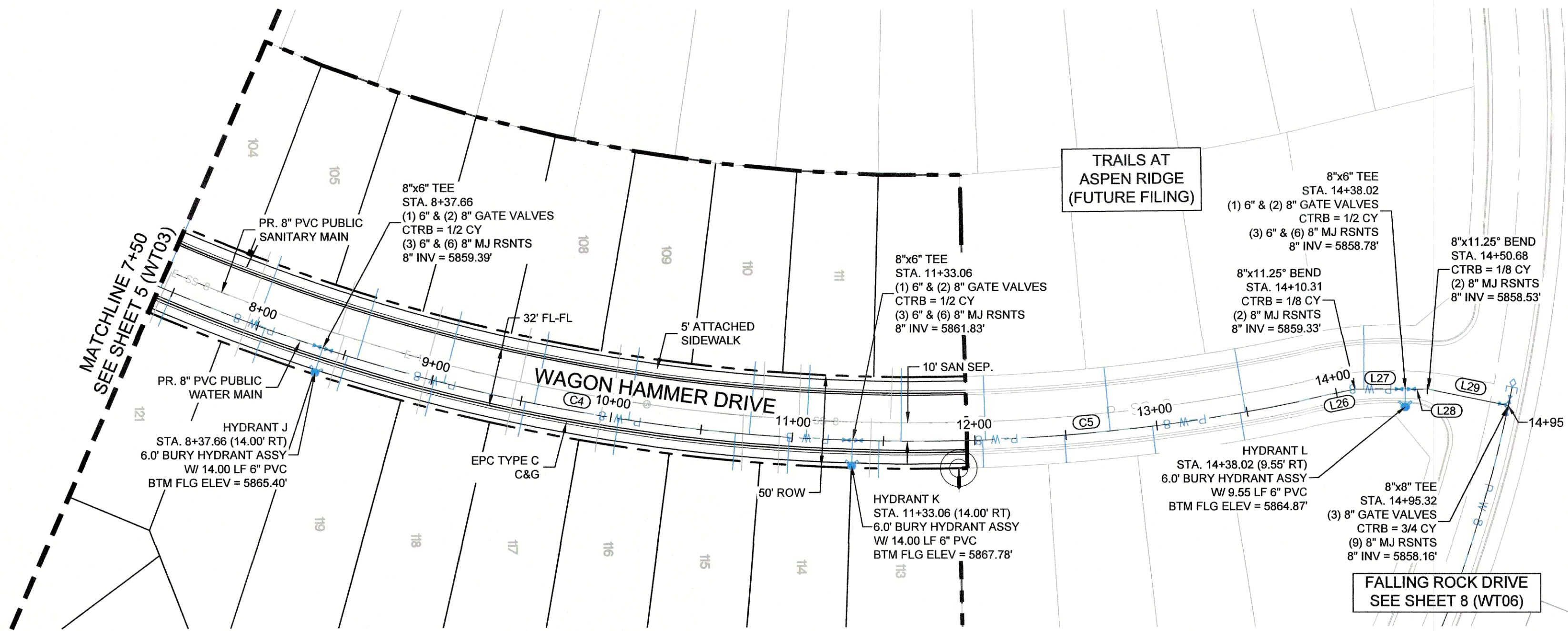
WIDEFIELD WATER AND SANITATION DISTRICT
WATER DESIGN APPROVAL

DATE: _____ BY: _____

PROJECT NUMBER: _____

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT THE STANDARDS AS DEFINED IN THE "RULES AND REGULATIONS FOR INSTALLATION OF WATER MAINS AND SERVICES" SHALL RULE.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL



WAGON HAMMER DRIVE 8" WATER PROFILE

HORIZ: 1" = 50'
VERT: 1" = 5'

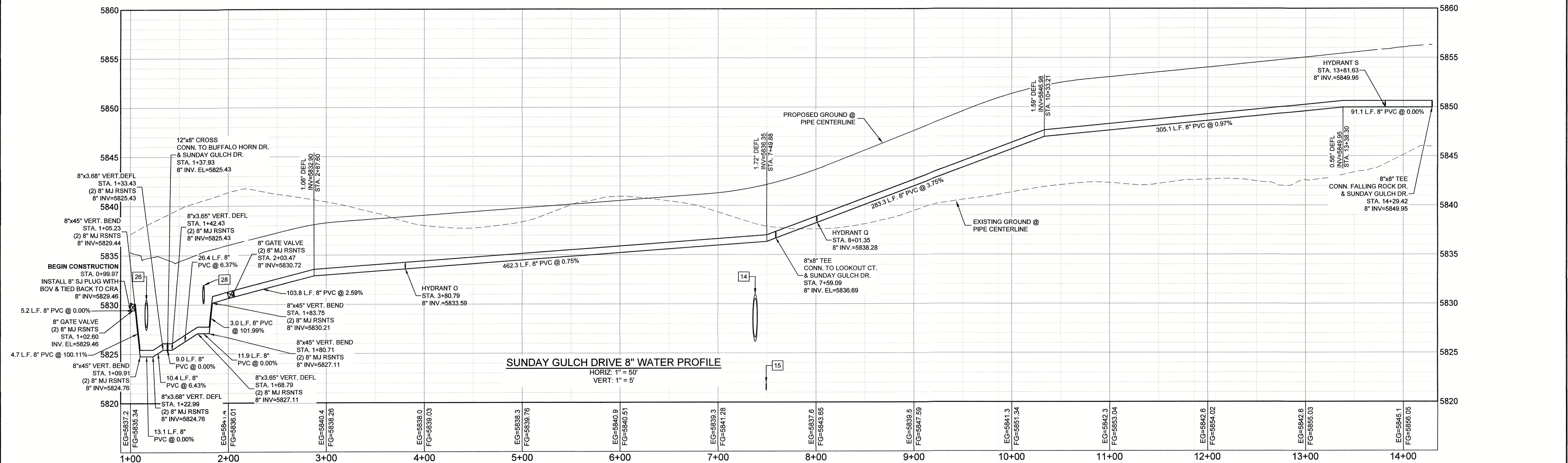
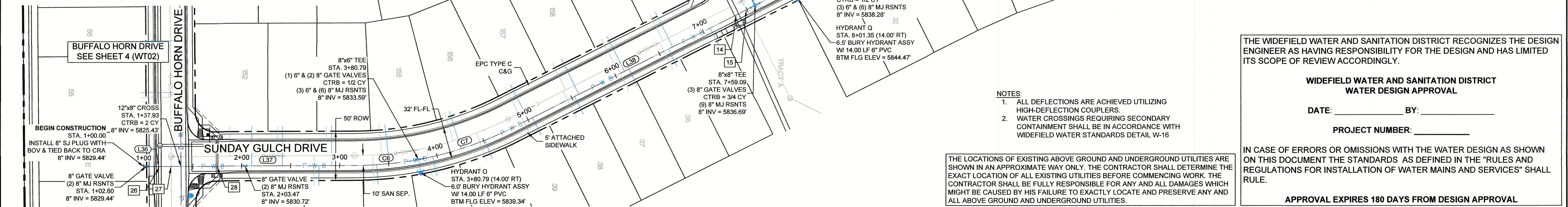
THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

REFERENCE DRAWINGS	####	####	####		####
	####	####	####		####
	####	####	####		####
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	####	####	####		####
X-905-PR SITE_F1 19-886-PR-UTIL x-title-utilities X-985-PR SITE X-886-CROSSINGS 19-886-PR-UTIL_SANITARY X-886-PR STORM_F1 886-PR Legacy Drive	No.	DATE	DESCRIPTION		BY
REVISIONS					
COMPUTER FILE MANAGEMENT					
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Utility Plans\Water Plan\WT01.dwg					
CTB FILE:					
PLOT DATE: September 16, 2019 11:24:50 AM					
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.					

LINE TABLE		
LINE #	BEARING	DISTANCE
L36	N00°00'34"W	37.93
L37	N00°00'00"E	177.25
L38	N26°34'55"W	276.89
L39	N26°34'55"W	191.11
L40	N13°37'33"E	33.69

CURVE TABLE				
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING
C6	65.61	360.12	10°26'19"	N05°13'10"W
C7	101.41	359.80	16°08'57"	N18°30'47"W
C8	109.91	640.00	9°50'22"	S21°39'44"E
C9	321.51	640.00	28°47'01"	S02°21'03"E
C10	14.10	640.00	1°15'46"	S12°40'21"W

UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
14	N 6,024.68 E 13,595.07	48" RCP STORM 5830.98	8" PVC WATER 5836.23	5.25'
15	N 6,034.29 E 13,590.26	8" PVC SEWER 5821.92	8" PVC WATER 5836.32	14.40'
26	N 5,435.79 E 13,747.75	8" PVC WATER 5825.45	30" RCP STORM 5827.45	2.00'
27	N 5,447.27 E 13,747.74	8" PVC SEWER 5815.07	8" PVC WATER 5825.05	9.98'
28	N 5,494.09 E 13,747.74	8" PVC WATER 5827.80	18" RCP STORM 5830.12	2.32'



REFERENCE DRAWINGS X-886-PR SITE_F1 19-886-PR UTIL x-title-utilities X-886-PR SITE X-886-CROSSINGS 19-886-PR-UTIL_SANITARY X-886-PR STORM_F1 886-PR Legacy Drive	####	####	####		####
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	####	####	####		####
	No.	DATE		DESCRIPTION	BY
REVISIONS					
COMPUTER FILE MANAGEMENT					
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Utility Plans\Water Plan\WT01.dwg CTB FILE: PLOT DATE: September 16, 2019 11:24:57 AM THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.					

BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERTINSETT TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A
FOOT BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS
BOULEVARD,
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9,
TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE
NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID
SECTION 9 (3 1/4" AULM. CAP PLS 10377)

PREPARED BY:

Matrix
DESIGN GROUP



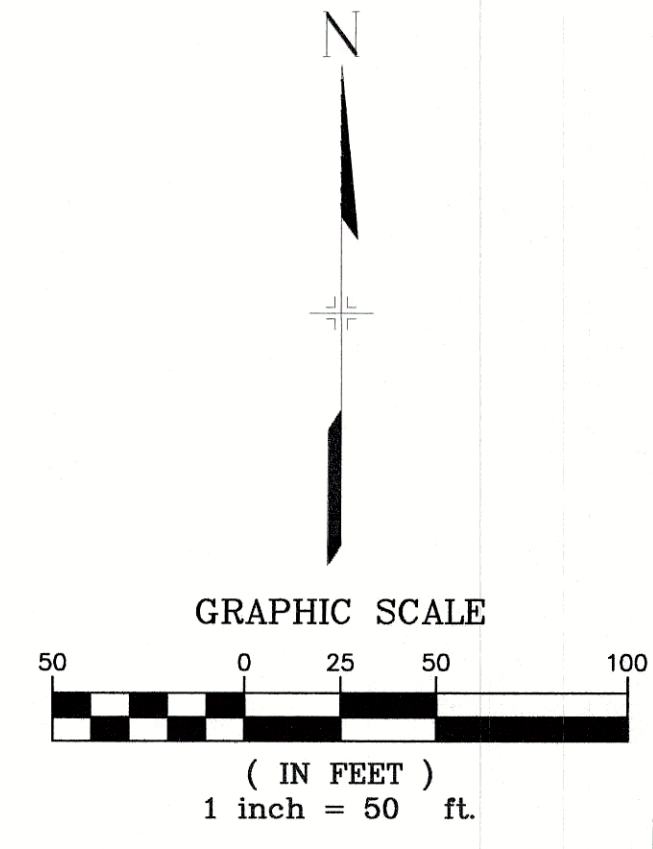
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE

FILING NO. 1
8" & 12" PUBLIC WATER LINE PLANS

WATER LINE PLAN & PROFILE

DESIGNED BY:	WME	SCALE	DATE ISSUED:	SEPTEMBER, 2019	DRAWING No. WT05
DRAWN BY:	WME	HORIZ. 1" = 50'			
CHECKED BY:	NMS	VERT. 1" = 5'	SHEET	7 OF 12	



CURVE TABLE				
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING
C11	10.23	807.79	0°43'31"	N78°22'31"W
C12	148.52	755.23	11°16'02"	N72°20'18"W
C13	108.19	930.00	6°39'56"	S70°02'12"E
C14	73.23	1515.65	2°46'05"	S75°03'06"E
C15	61.92	1664.88	2°07'52"	S77°26'23"E
C16	247.96	310.00	45°49'41"	N61°38'37"W
C17	47.84	310.00	8°50'30"	N34°18'31"W
C18	75.68	310.00	13°59'18"	N22°53'37"W

NOTES:

1. ALL DEFLECTIONS ARE ACHIEVED UTILIZING HIGH-DEFLECTION COUPLERS.
2. WATER CROSSINGS REQUIRING SECONDARY CONTAINMENT SHALL BE IN ACCORDANCE WITH WIDFIELD WATER STANDARDS DETAIL W-16

THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

THE WIDEFIELD WATER AND SANITATION DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN AND HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

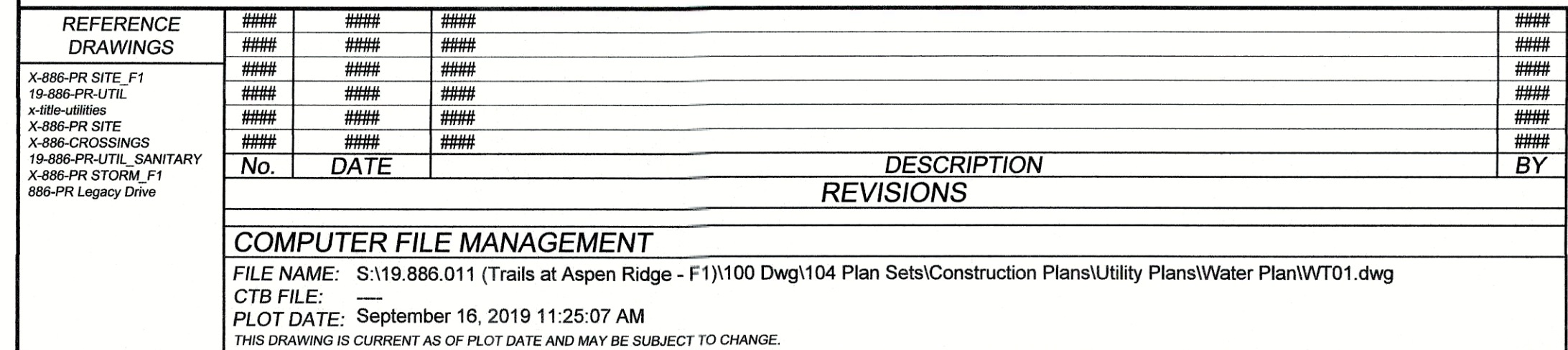
**WIDEFIELD WATER AND SANITATION DISTRICT
WATER DESIGN APPROVAL**

DATE: _____ BY: _____

PROJECT NUMBER: _____

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT THE STANDARDS AS DEFINED IN THE "RULES AND REGULATIONS FOR INSTALLATION OF WATER MAINS AND SERVICES" SHALL RULE.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL

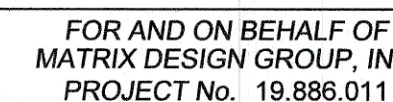


BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A
ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS
BOULEVARD,
ELEVATION - 5897.89' U.S. SURVEY FT

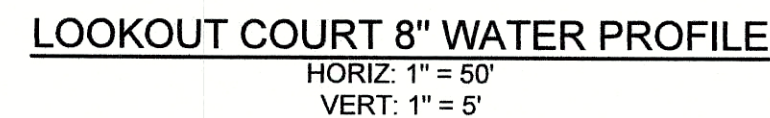
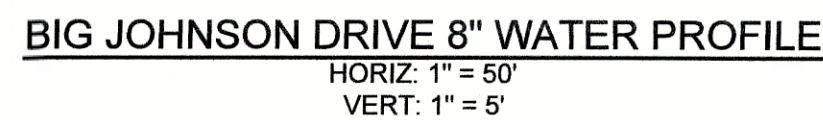
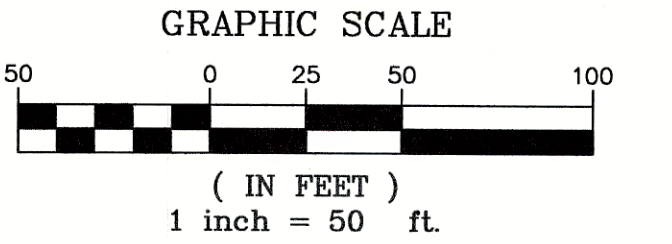
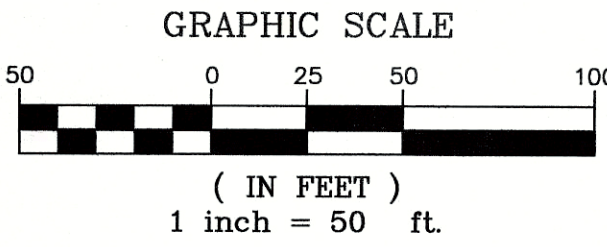
BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9,
TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE
NORTHWEST CORNER OF SAID SECTION 9 (2 1/4" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID
SECTION 9 (3 3/4" AULM. CAP PLS 10377)

PREPARED BY:

Matrix
DESIGN GROUP



DESIGNED BY:	WME	SCALE	DATE ISSUED:	SEPTEMBER, 2019	DRAWING No. WT06
DRAWN BY:	WME	HORIZ. 1" = 50'			
CHECKED BY:	NMS	VERT. 1" = 5'	SHEET	8 OF 12	



UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
20	N 6,015.43 E 13,530.21	8" PVC WATER 5831.26	18" RCP STORM 5830.10	4.84'
21	N 6,033.19 E 13,565.70	8" PVC WATER 5831.26	48" RCP STORM 5833.26	2.00'
22	N 6,038.76 E 13,576.84	8" PVC SEWER 5822.80	8" PVC WATER 5835.62	12.82'

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL

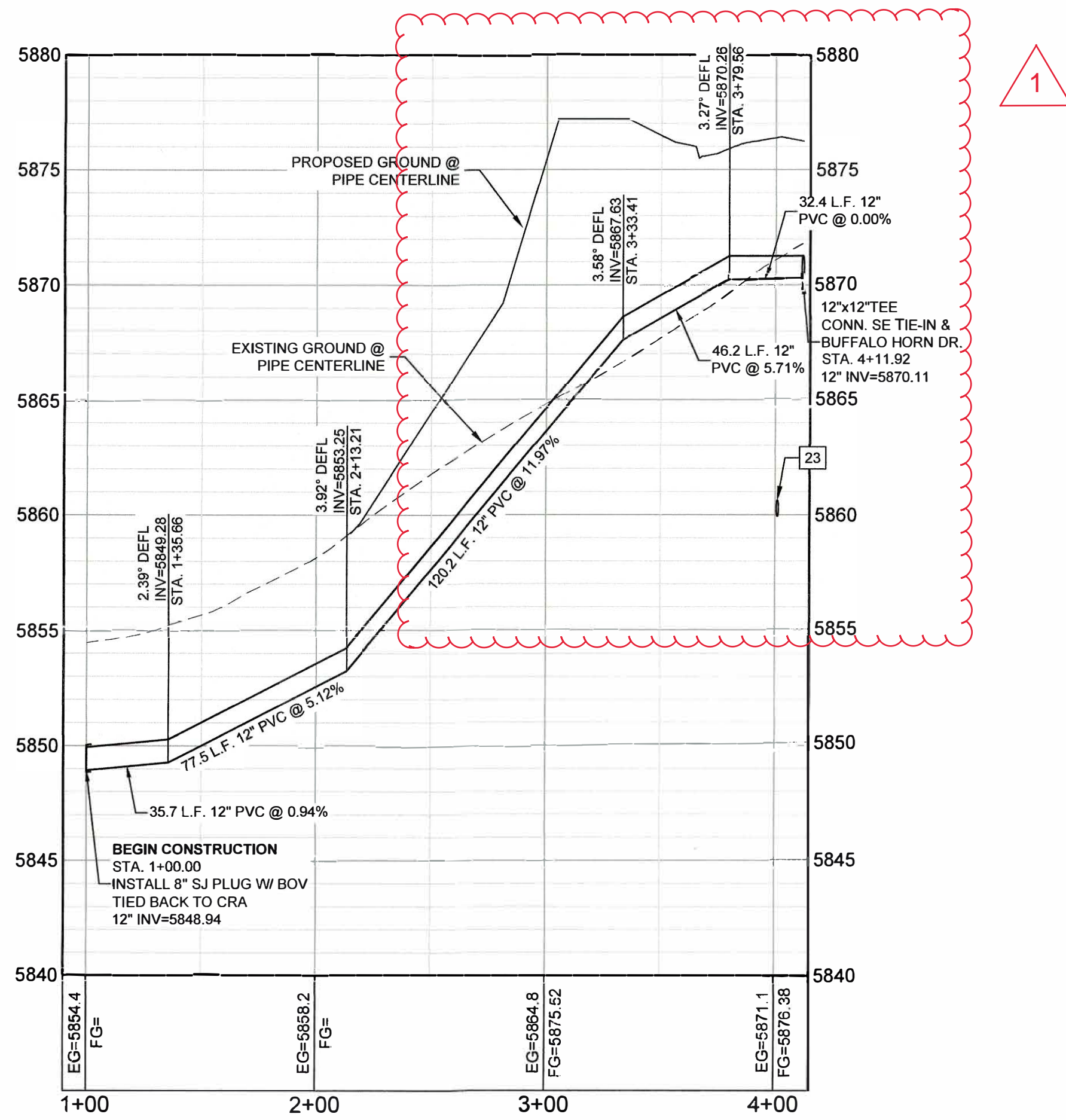
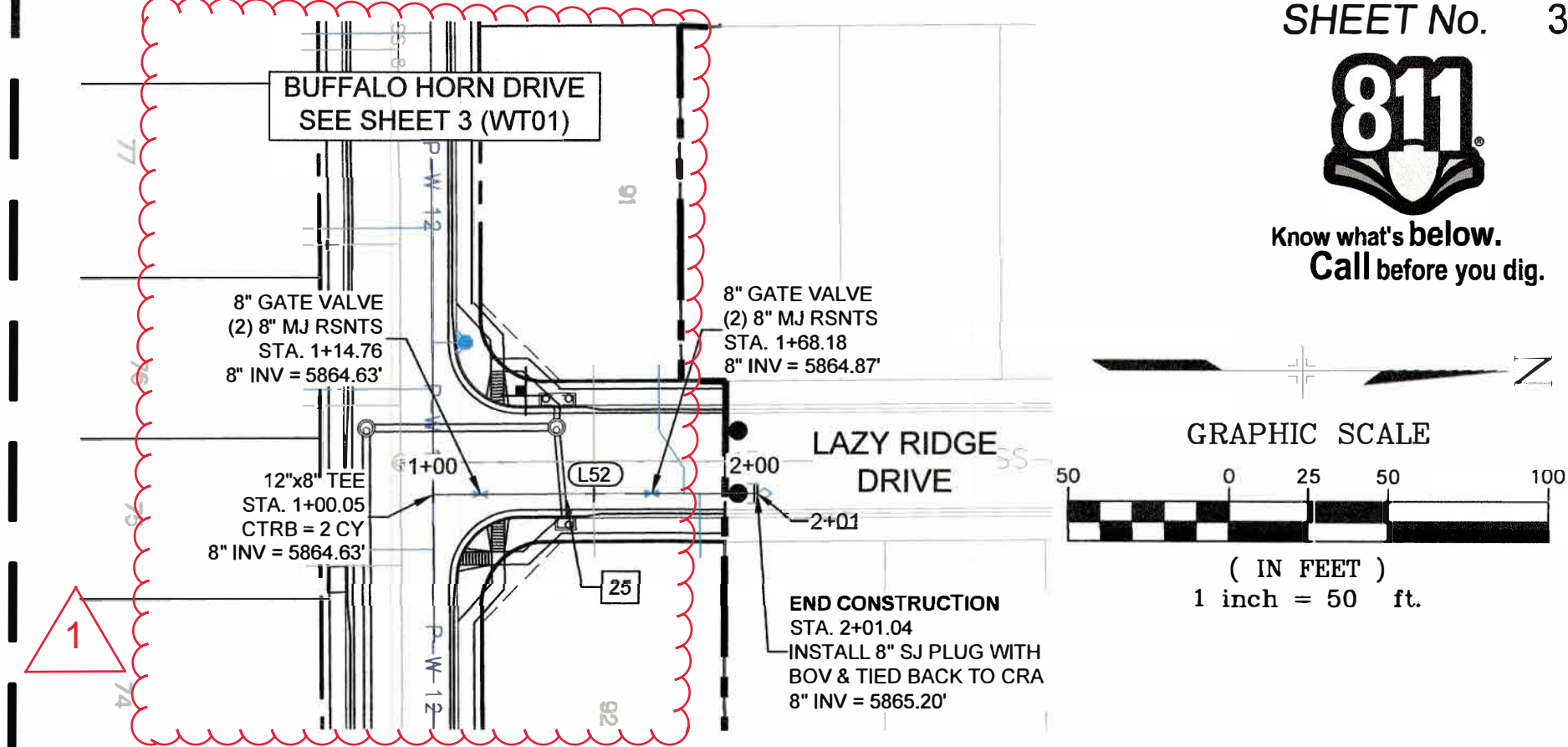
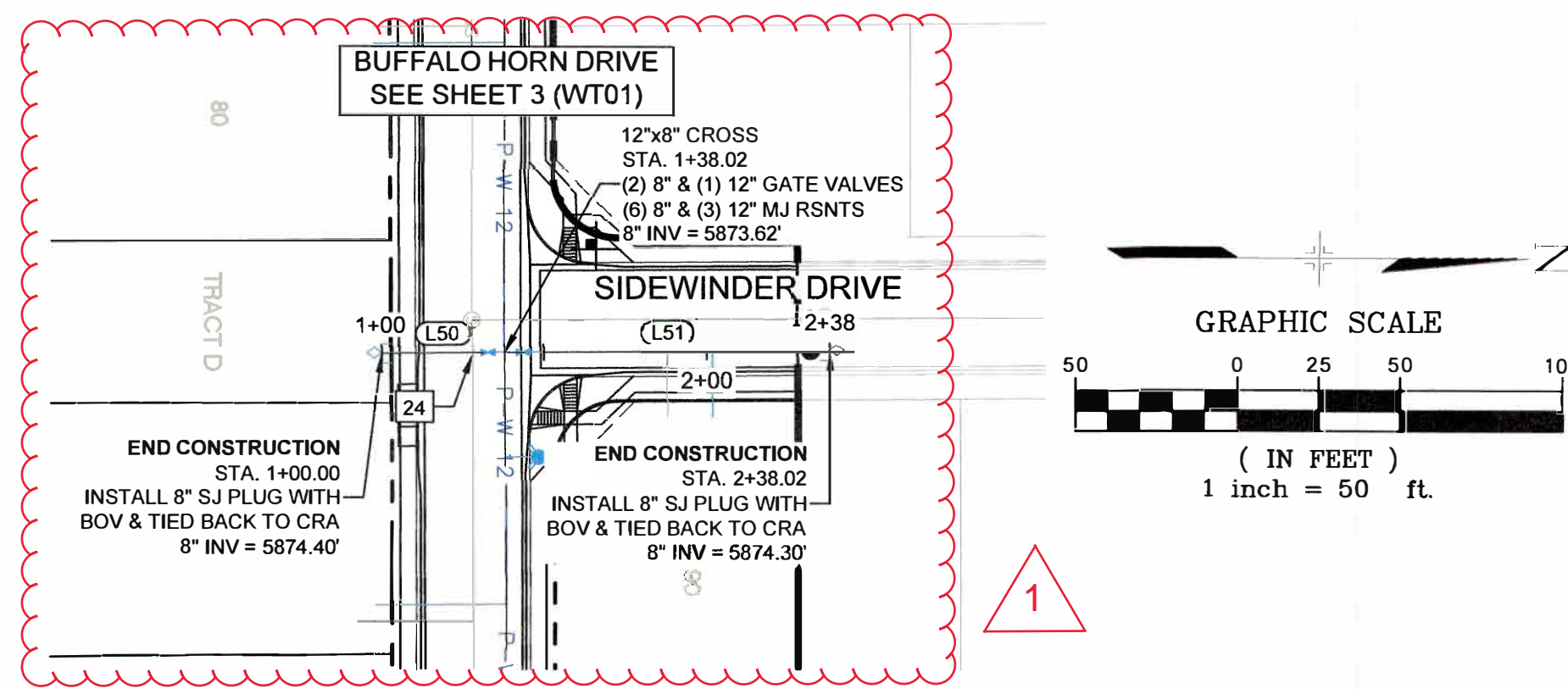
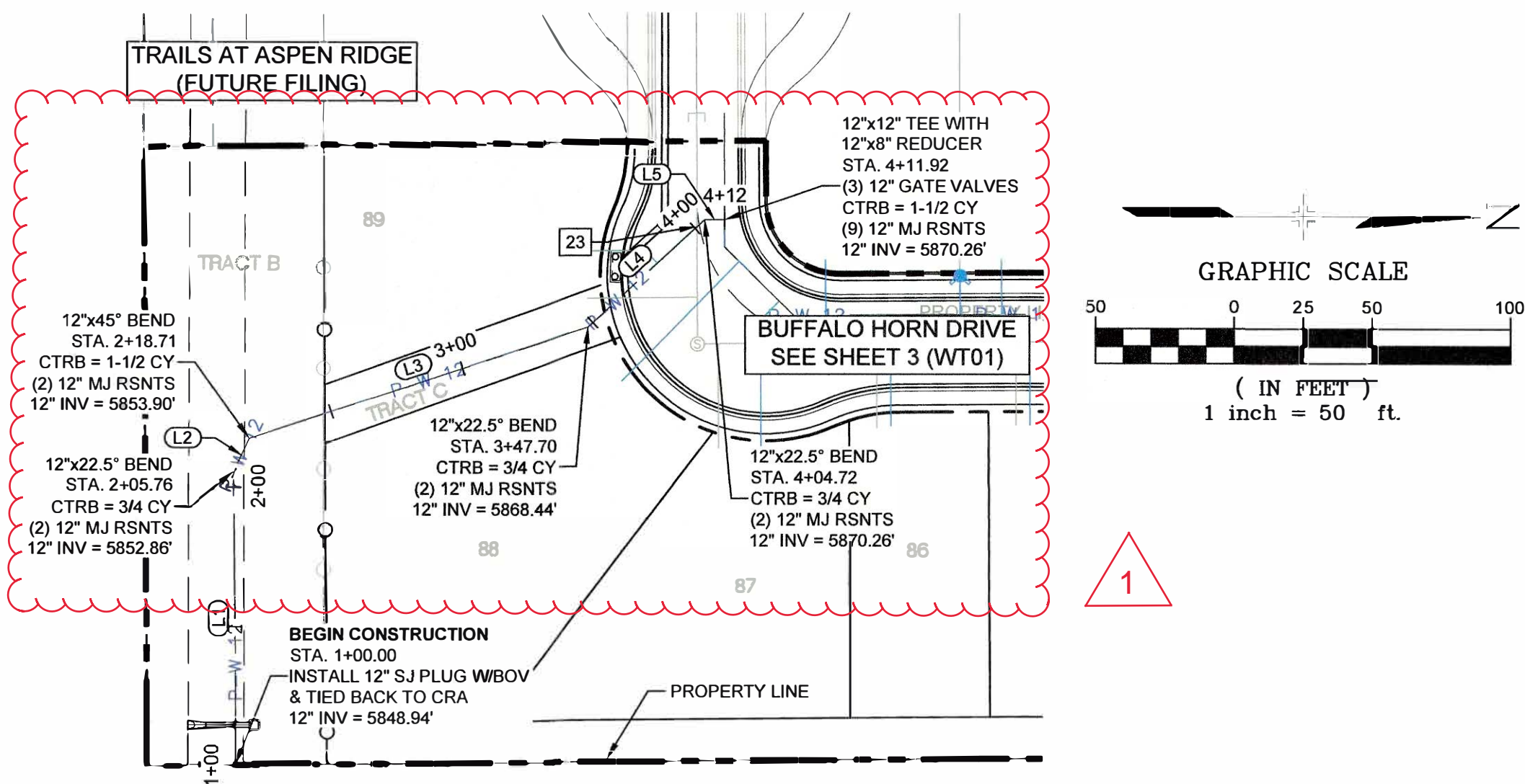
DESIGNED BY:	WME	SCALE	DATE ISSUED:	SEPTEMBER, 2019	DRAWING No. WT07
DRAWN BY:	WME	HORIZ. 1" = 50'			
CHECKED BY:	NMS	VERT. 1" = 5'	SHEET	9 OF 12	



Know what's below.
Call before you dig.

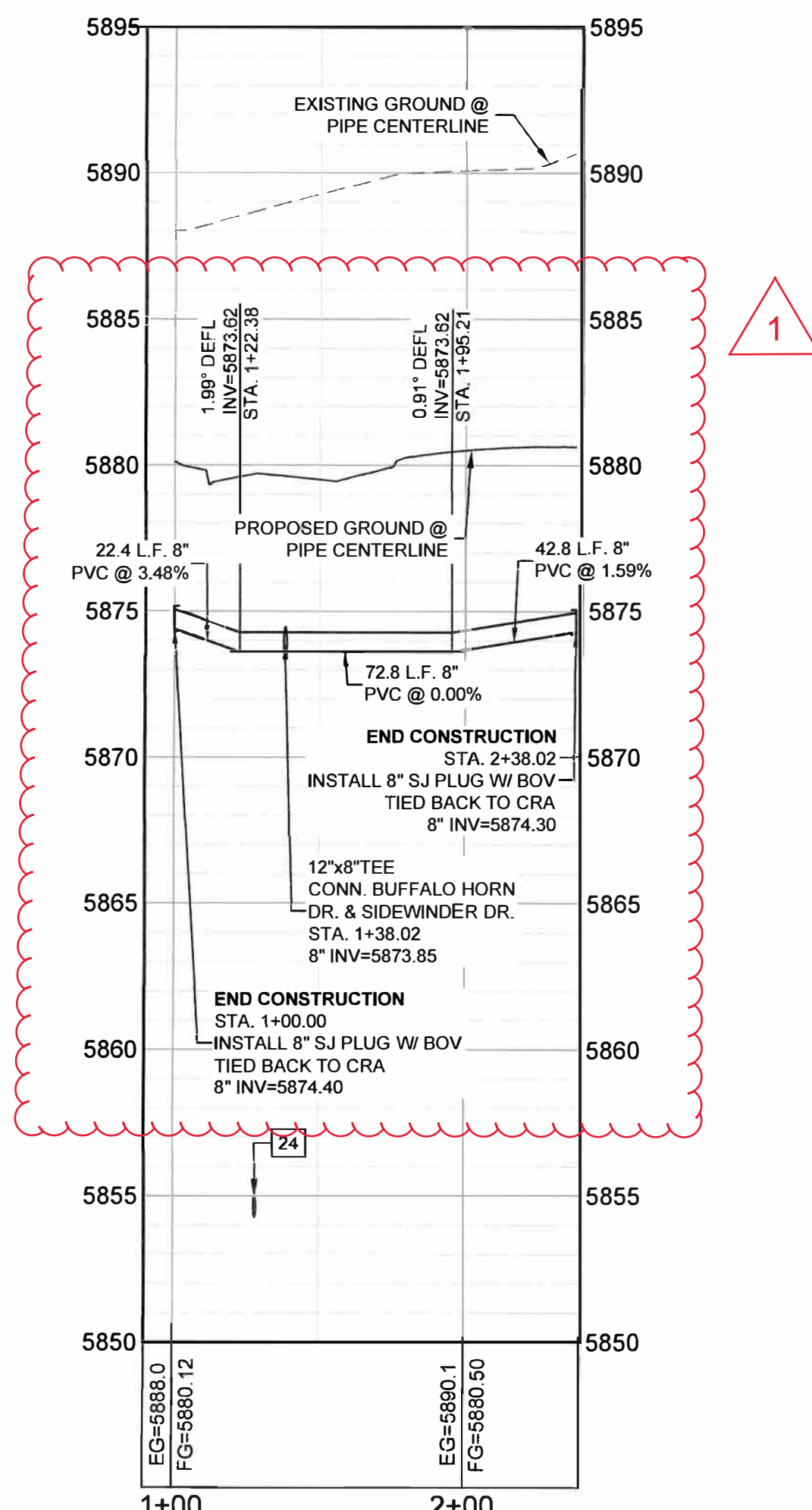
GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.



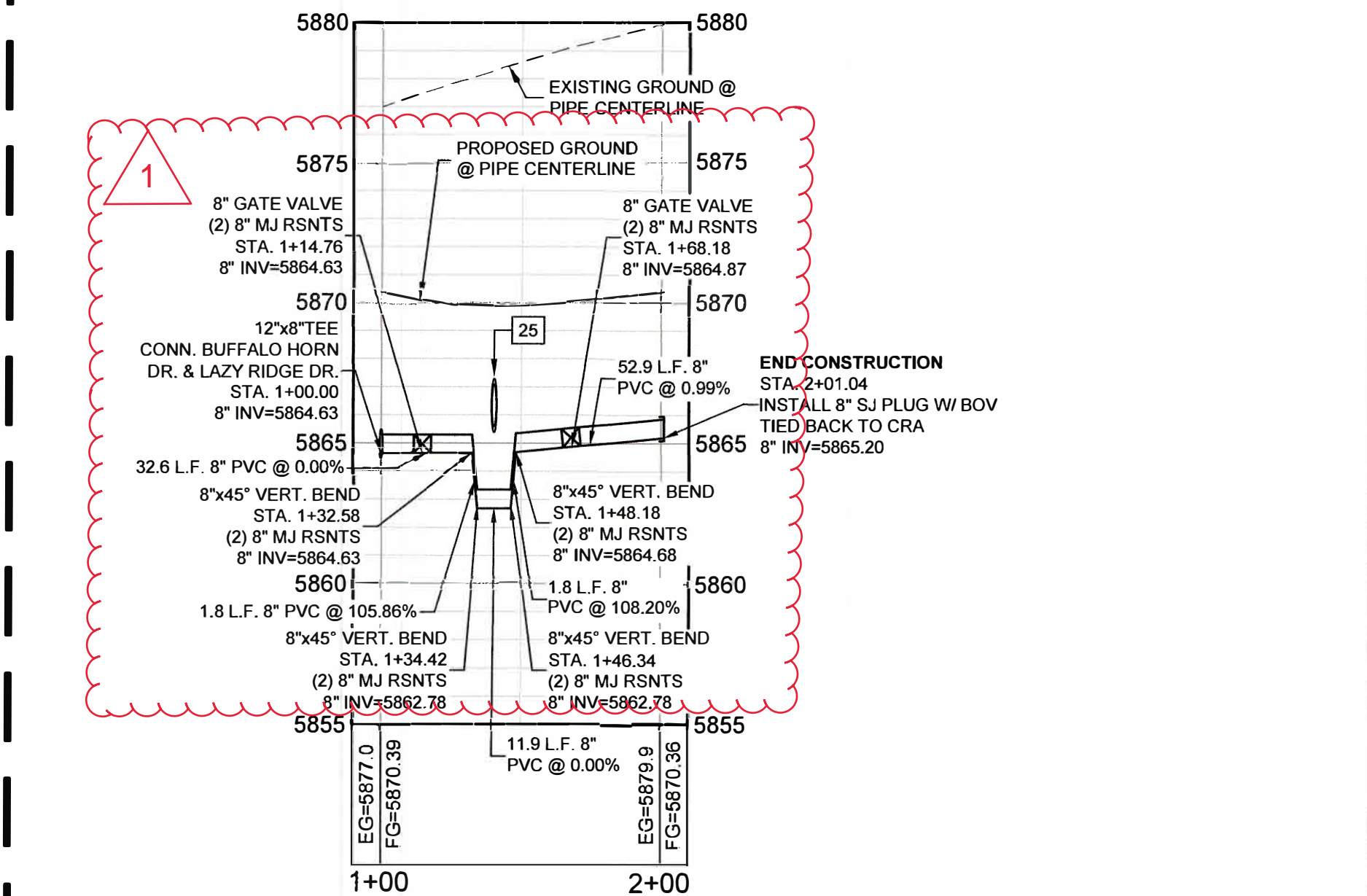
SW TIE-IN 8" WATER PROFILE

HORIZ: 1" = 50'
VERT: 1" = 5'



SIDEWINDER DRIVE 8" WATER PROFILE

HORIZ: 1" = 50'
VERT: 1" = 5'



LAZY RIDGE DRIVE 8" WATER PROFILE

HORIZ: 1" = 50'
VERT: 1" = 5'

- NOTES:
1. ALL DEFLECTIONS ARE ACHIEVED UTILIZING HIGH-DEFLECTION COUPLERS.
 2. WATER CROSSINGS REQUIRING SECONDARY CONTAINMENT SHALL BE IN ACCORDANCE WITH WIDEFIELD WATER STANDARDS DETAIL W-16

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THE WIDEFIELD WATER AND SANITATION DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN AND HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

WIDEFIELD WATER AND SANITATION DISTRICT WATER DESIGN APPROVAL

DATE: _____ BY: _____

PROJECT NUMBER: _____

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT THE STANDARDS AS DEFINED IN THE "RULES AND REGULATIONS FOR INSTALLATION OF WATER MAINS AND SERVICES" SHALL RULE.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL

LINE TABLE		
LINE #	BEARING	DISTANCE
L1	N00°29'03"W	105.76
L2	N24°30'57"E	12.95
L3	N71°54'35"E	129.00
L4	N47°30'00"E	57.02
L5	N89°33'35"E	7.20
L50	N00°26'25"W	38.02
L51	N00°26'25"W	100.00
L52	N00°26'25"W	101.04

UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
23	N 5,475.12 E 11,877.59	8" PVC SEWER 5860.64	8" PVC WATER 5870.08	9.44'
24	N 5,436.47 E 12,342.91	8" PVC SEWER 5854.98	8" PVC WATER 5873.83	18.85'
25	N 5,488.93 E 12,612.52	8" PVC WATER 5863.38	18" RCP STORM 5865.38	2.00'

BENCHMARK

COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING

BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/2" AULM. CAP PLS 10377)

PREPARED BY:

Matrix
DESIGN GROUP

SEAL



FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE

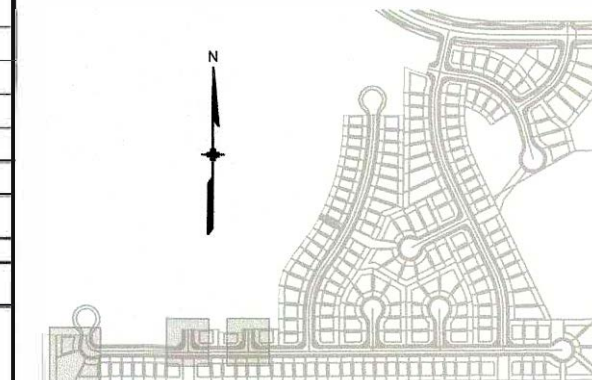
FILING NO. 1
8" & 12" PUBLIC WATER LINE PLANS

WATER LINE PLAN & PROFILE

DESIGNED BY: WME SCALE: 1" = 50' DATE ISSUED: SEPTEMBER, 2019 DRAWING No. WT08
DRAWN BY: WME HORIZ: 1" = 50' SHEET 10 OF 12
CHECKED BY: NMS VERT: 1" = 5'

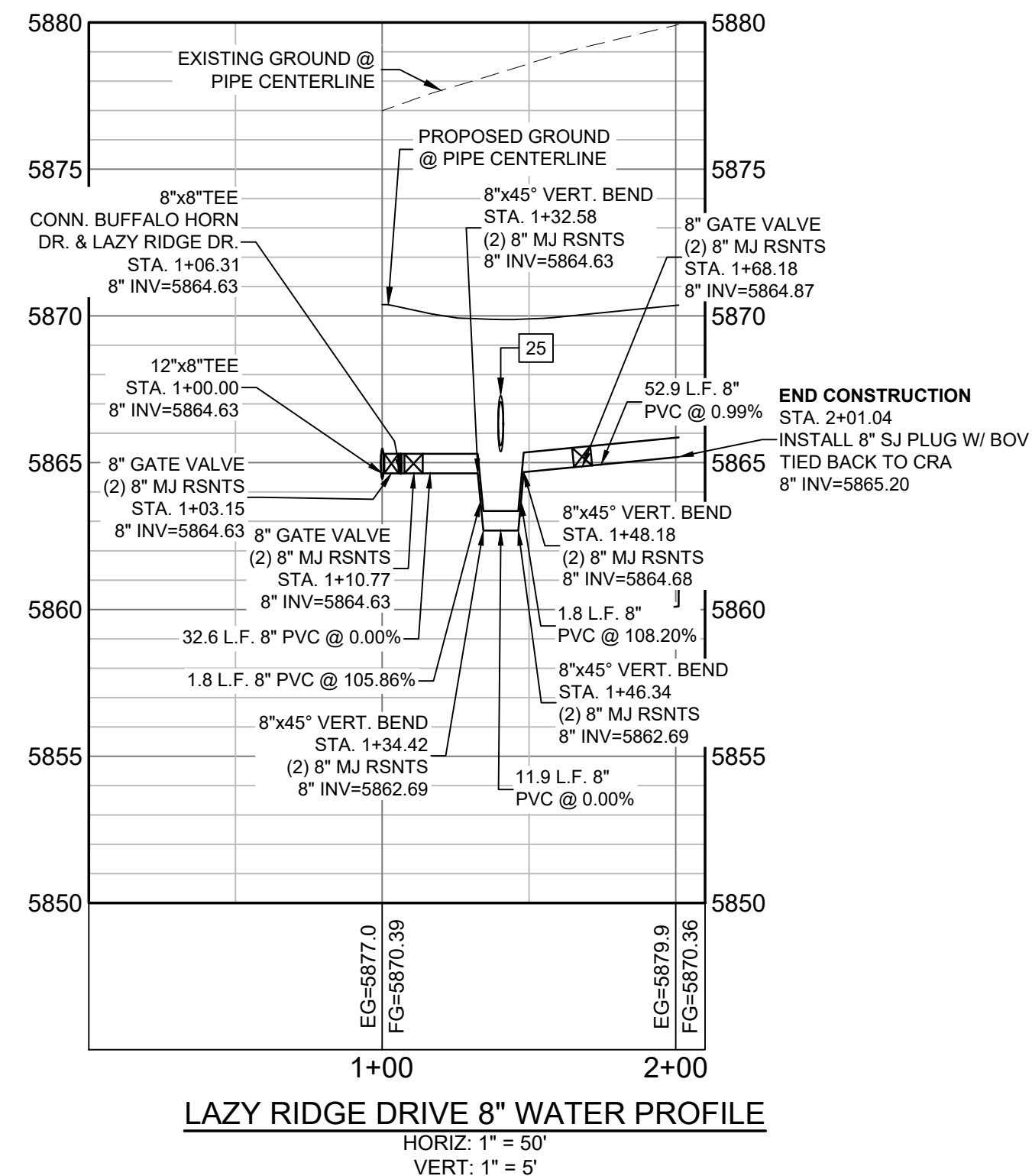
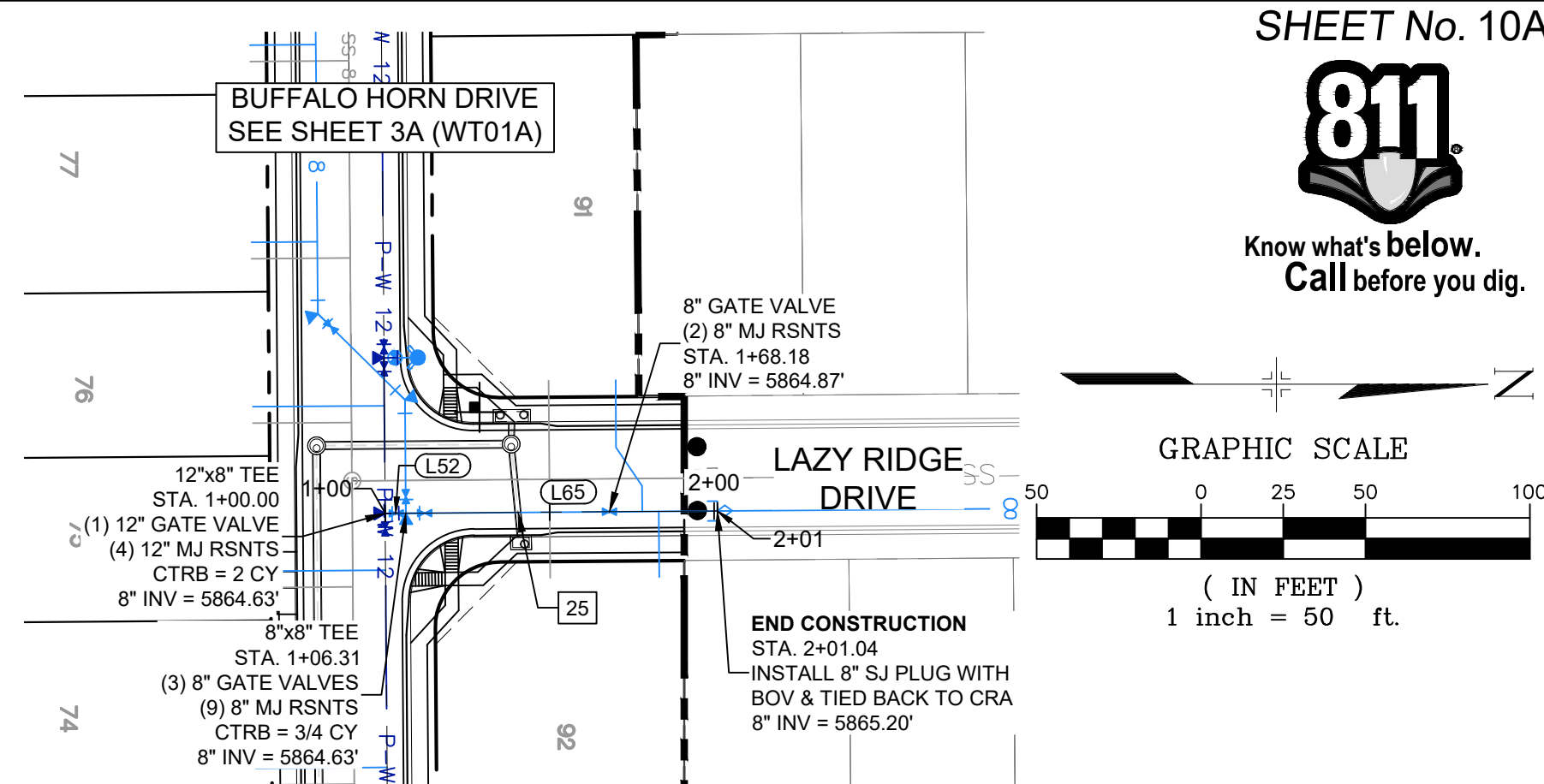
REFERENCE DRAWINGS	10/18/2019	REVISION OF 12" WATERLINE & ADDITION OF 8" WATERLINE IN BUFFALO HORN DR.	KZNS
X-886-PR SITE F1	####	####	####
19-886P RUTL	####	####	####
X-1006-UTILITIES	####	####	####
X-886-PR SITE	####	####	####
X-886-CROSSINGS	####	####	####
19-886-PR-UTIL. SANITARY	No.	DATE	DESCRIPTION
X-886-PR STORM F1			REVISIONS
886-PR Legacy Drive			BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Utility Plans\Water Plan\WT01.dwg			
CTB FILE:			
PLOT DATE: September 16, 2019 11:25:45 AM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

SHEET KEY





Know what's below.
Call before you dig.



THE WIDEFIELD WATER AND SANITATION DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN AND HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

WIDEFIELD WATER AND SANITATION DISTRICT WATER DESIGN APPROVAL

DATE: _____ BY: _____

PROJECT NUMBER: _____

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT THE STANDARDS AS DEFINED IN THE "RULES AND REGULATIONS FOR INSTALLATION OF WATER MAINS AND SERVICES" SHALL RULE.

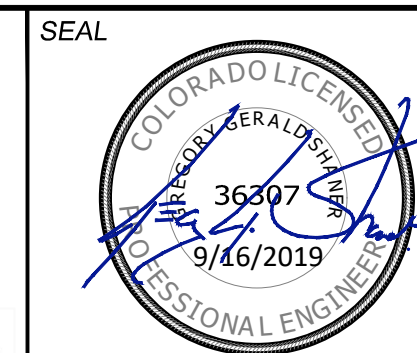
APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL

TRAILS AT ASPEN RIDGE

FILING NO. 1
8" & 12" PUBLIC WATER LINE PLANS

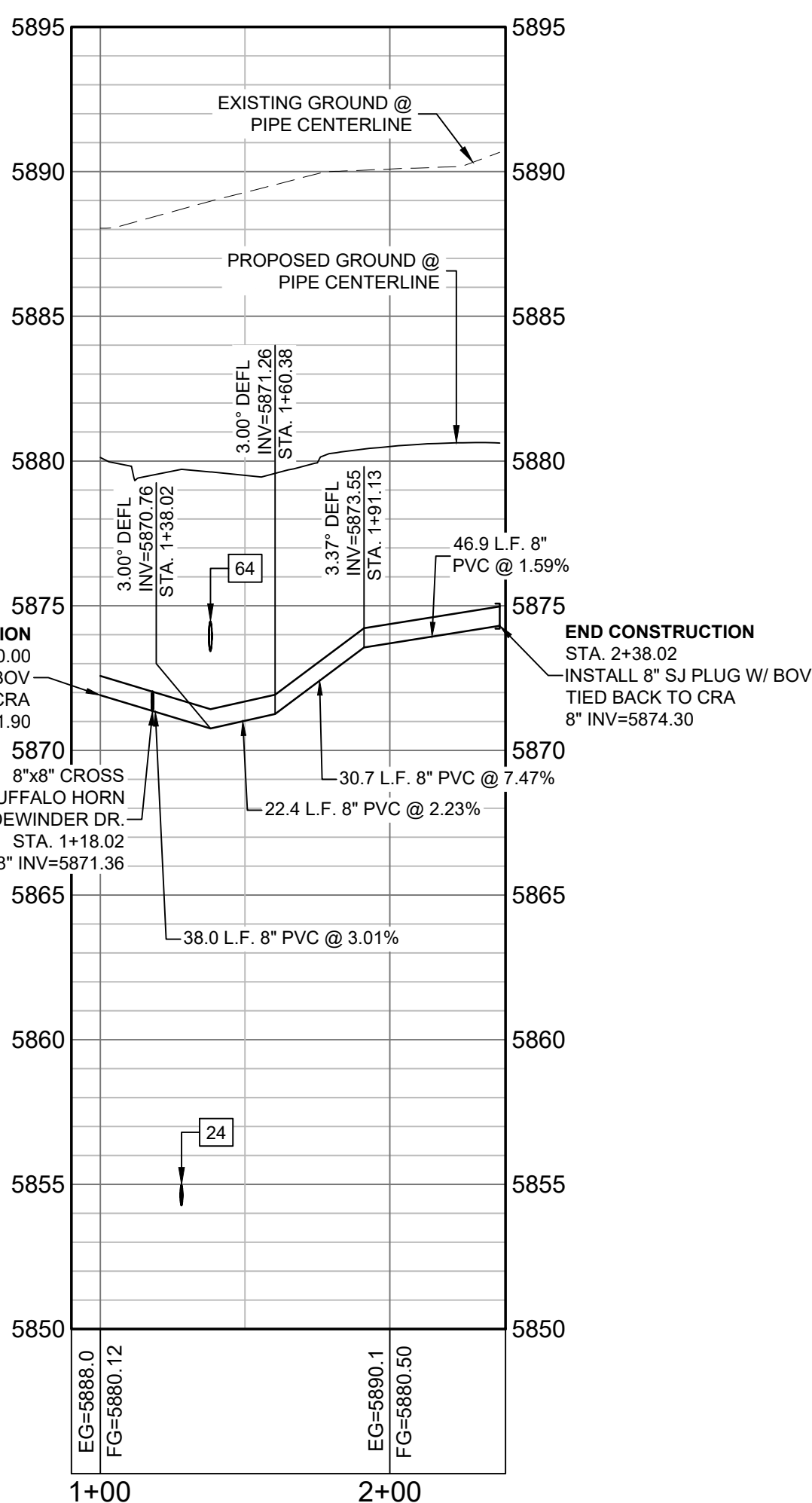
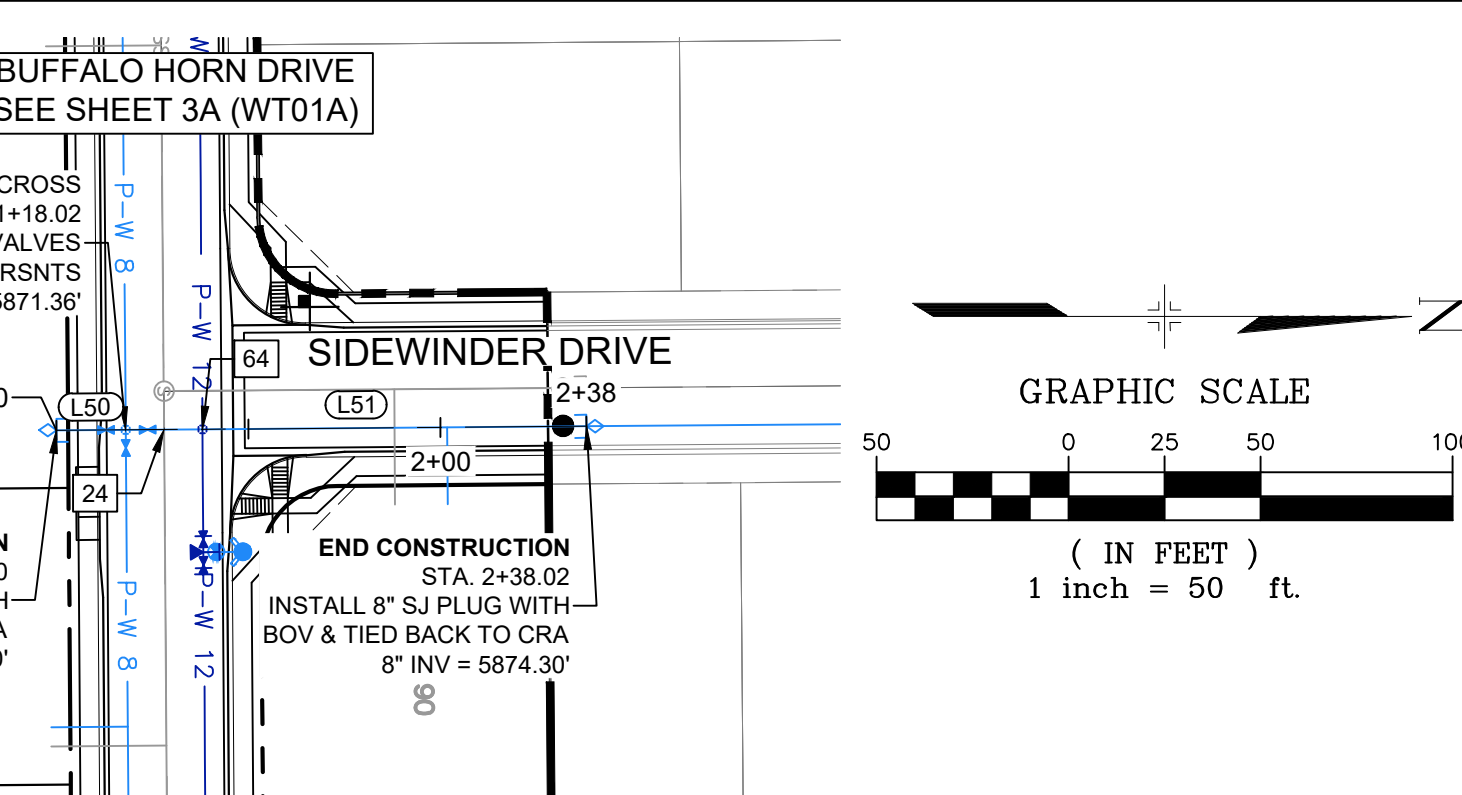
WATER LINE PLAN & PROFILE

DESIGNED BY: WME SCALE: 1" = 50' DATE ISSUED: OCTOBER, 2019 DRAWING No. 10A OF 12
DRAWN BY: NMS HORIZ. 1" = 50' SHEET
CHECKED BY: NMS VERT. 1" = 5'



FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

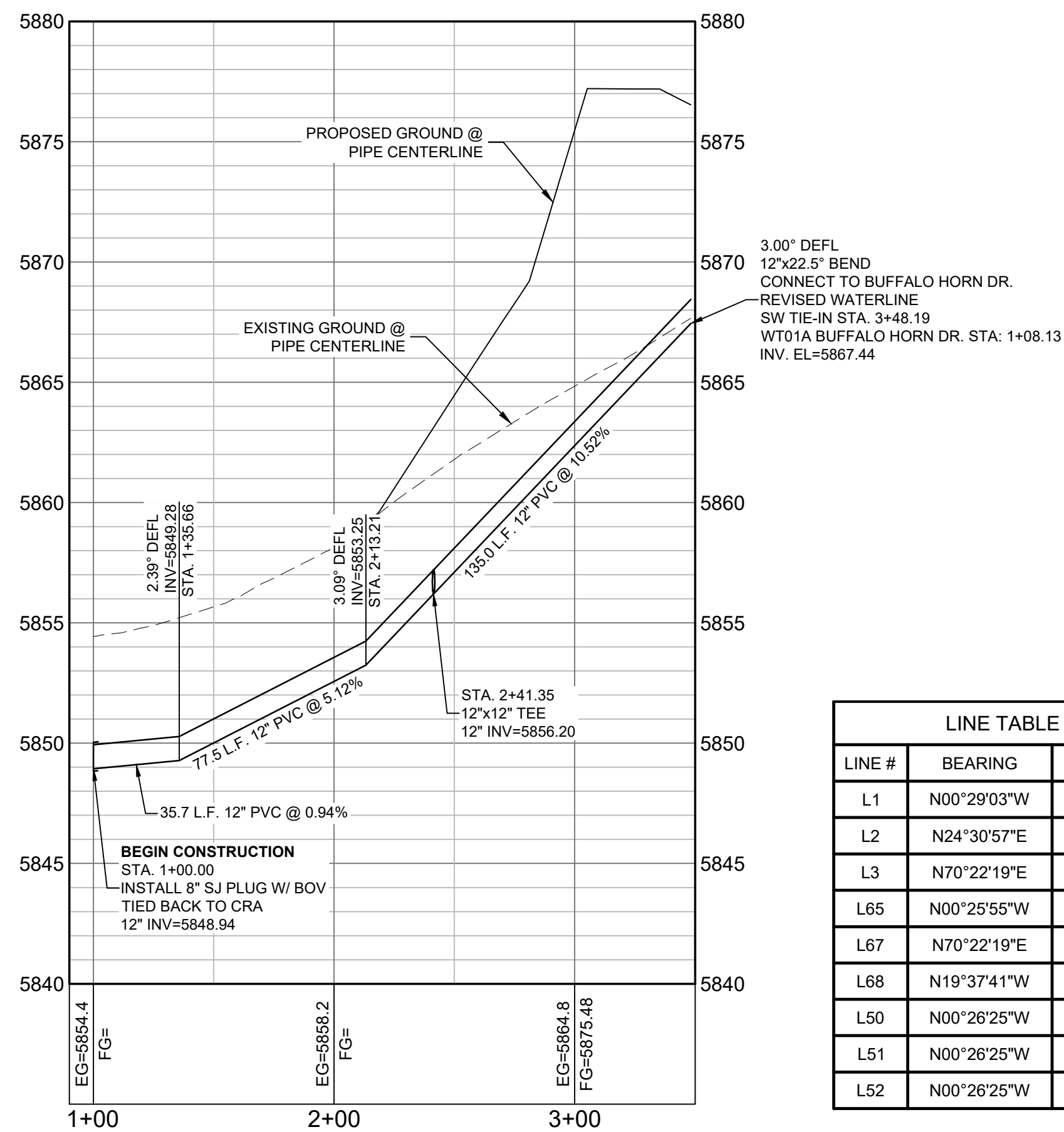
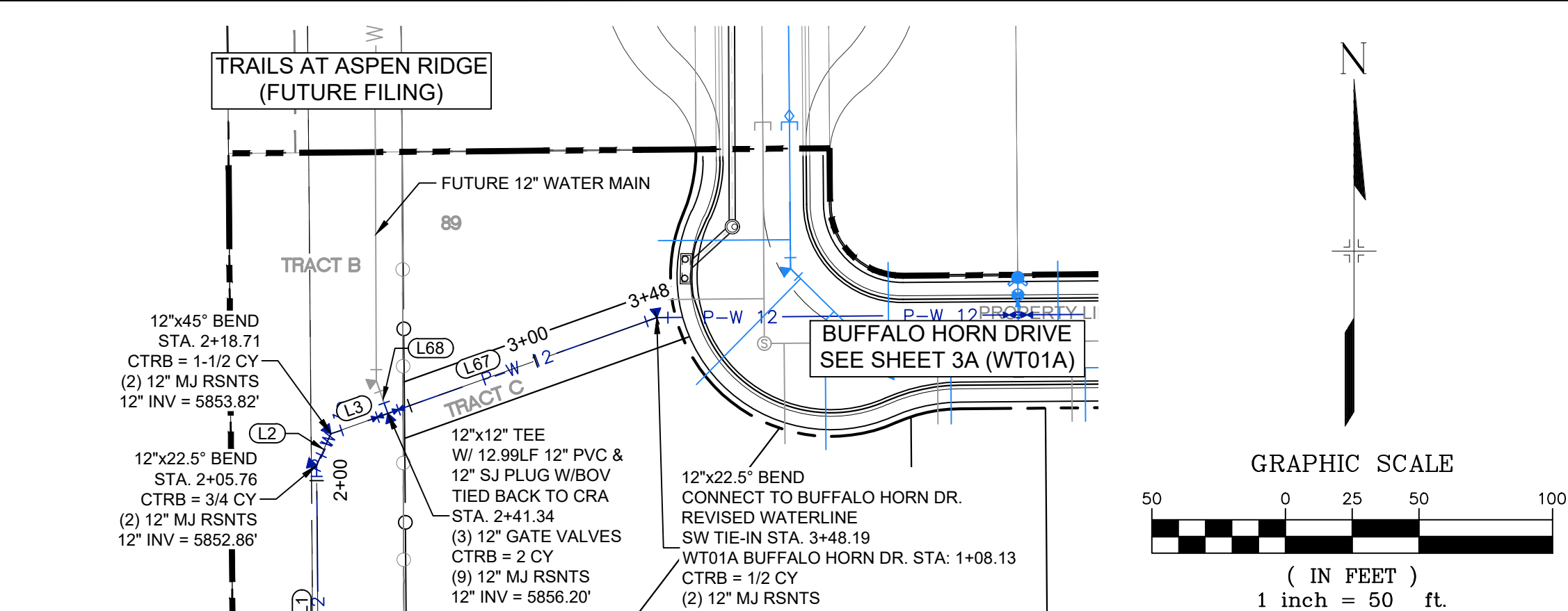
PREPARED BY:



NOTES:

1. ALL DEFLECTIONS ARE ACHIEVED UTILIZING HIGH-DEFLECTION COUPLERS.
2. WATER CROSSINGS REQUIRING SECONDARY CONTAINMENT SHALL BE IN ACCORDANCE WITH WIDEFIELD WATER STANDARDS DETAIL W-16

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SW TIE-IN 8" WATER PROFILE

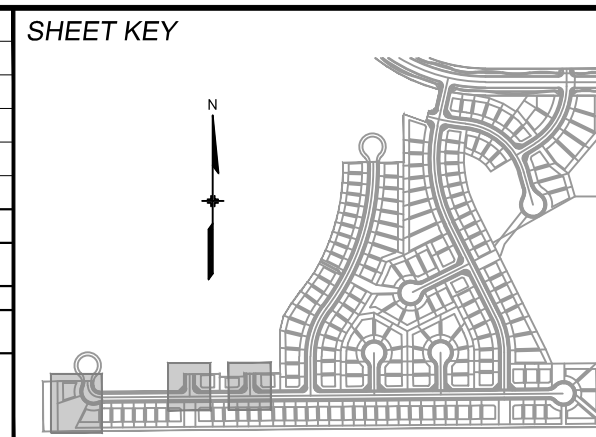
HORIZ: 1" = 50'
VERT: 1" = 5'

LINE TABLE		
LINE #	BEARING	DISTANCE
L1	N00°29'03"W	105.76
L2	N24°30'57"E	12.95
L3	N70°22'19"E	22.64
L65	N00°25'55"W	94.76
L67	N70°22'19"E	106.85
L68	N19°37'41"W	12.99
L50	N00°26'25"W	18.02
L51	N00°26'25"W	120.00
L52	N00°26'25"W	6.31

UTILITY CROSSING DETAILS

CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
24	N 5,436.47 E 12,342.91	8" PVC SEWER 5854.98	8" PVC WATER 5873.83	18.85'
25	N 5,488.93 E 12,612.52	8" PVC WATER 5863.38	18" RCP STORM 5865.38	2.00'
64	N 5,446.47 E 12,342.83	8" PVC WATER 5871.42	12" PVC WATER 5873.42	2.00'

REFERENCE DRAWINGS		REVISIONS		DESCRIPTION	BY
No.	DATE	No.	DATE		
1	10/18/2019	1	10/18/2019	REVISION OF 12" WATERLINE & ADDITION OF 8" WATERLINE IN BUFFALO HORN DR.	KZNS
2		2			
3		3			
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BENCHMARK

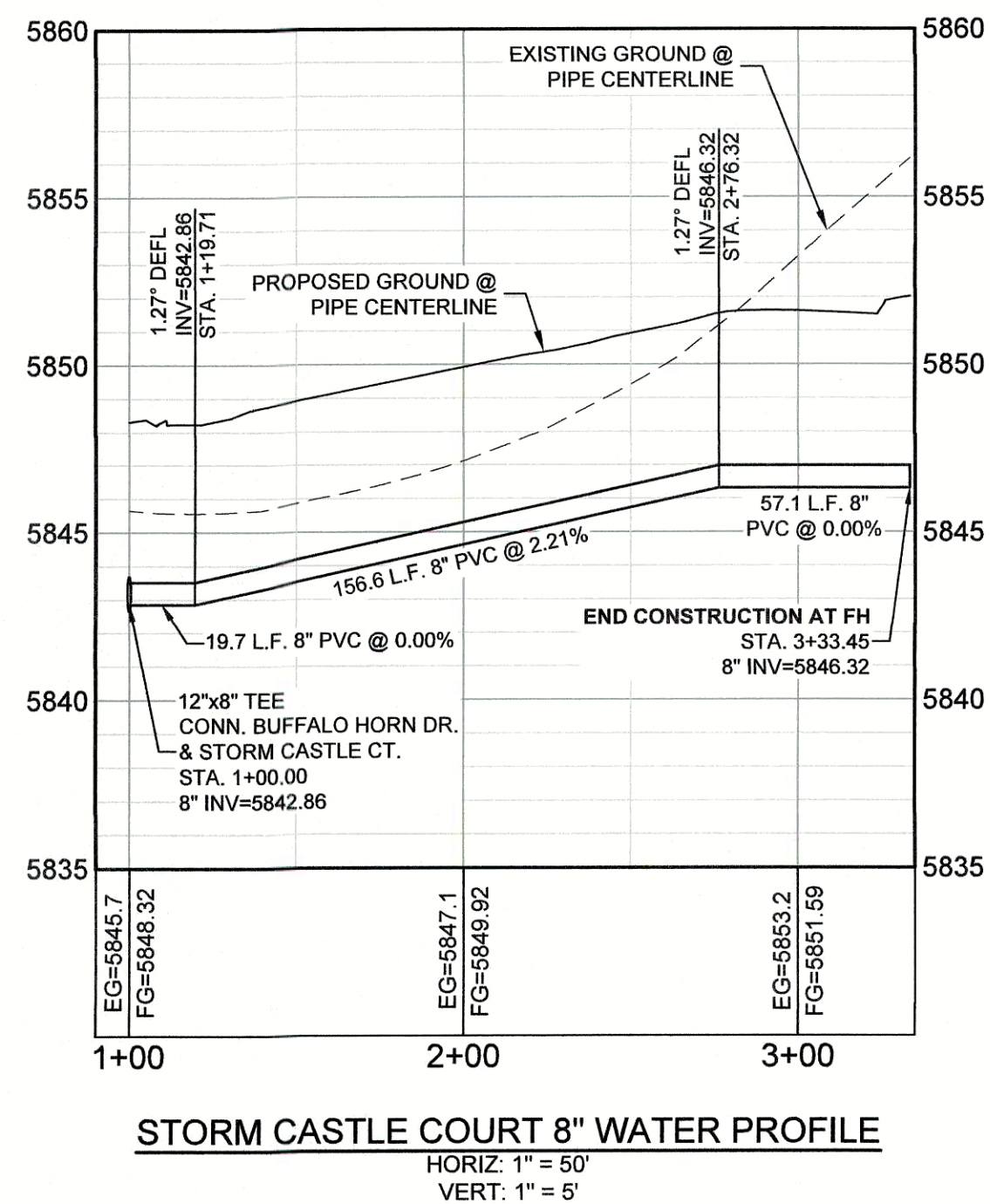
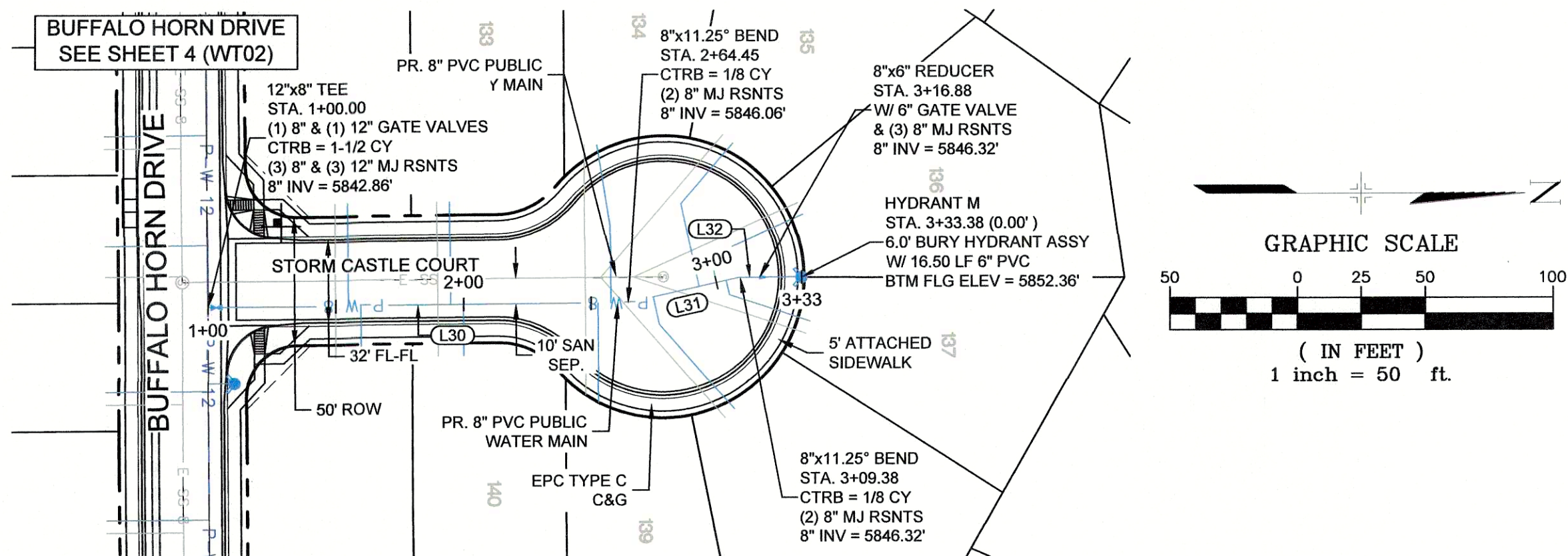
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING

BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/2" AULM. CAP PLS 10377)

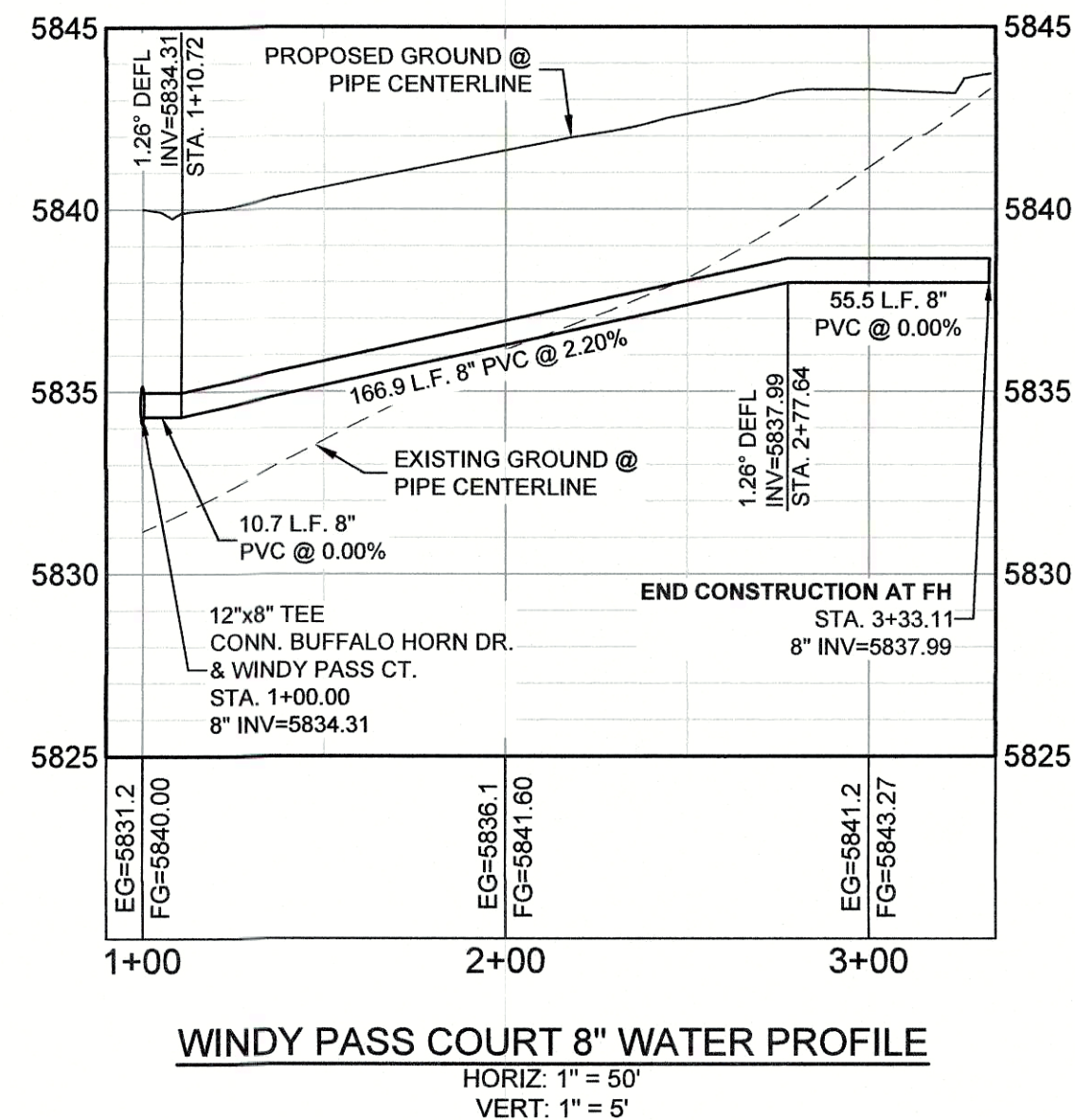
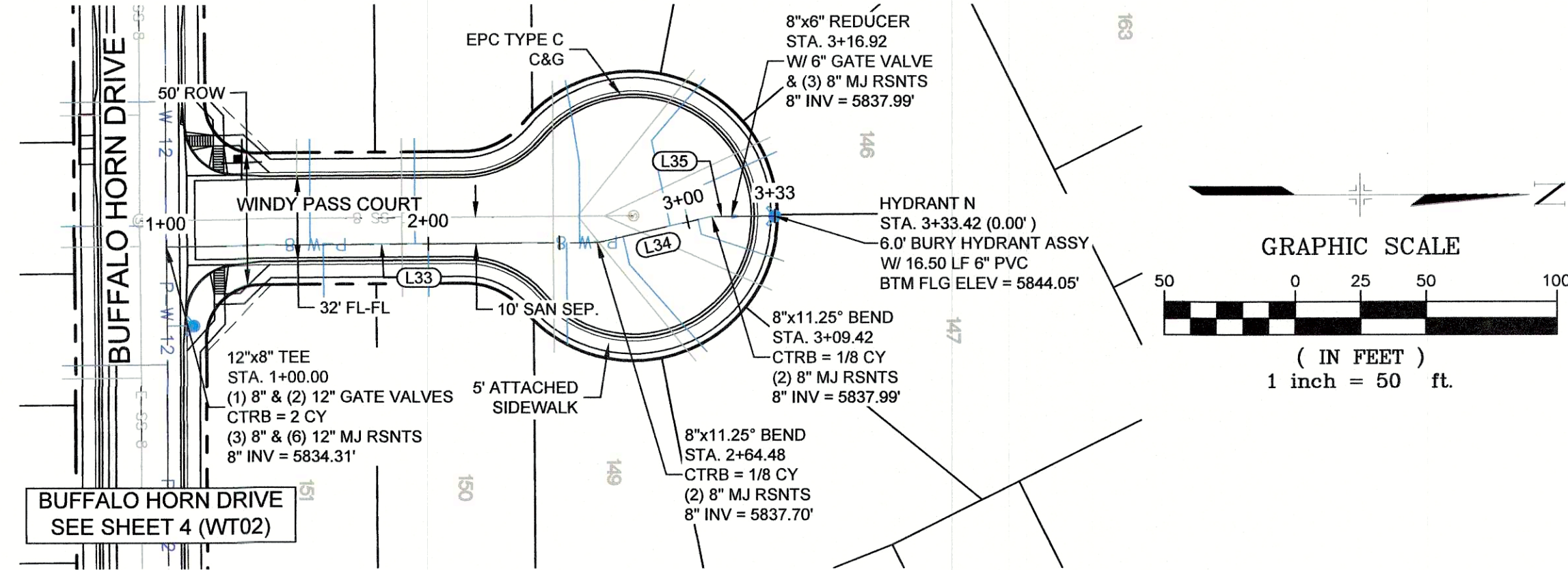


Know what's below.
Call before you dig.



STORM CASTLE COURT 8" WATER PROFILE

HORIZ. 1" = 50'
VERT. 1" = 5'



WINDY PASS COURT 8" WATER PROFILE

HORIZ. 1" = 50'
VERT. 1" = 5'

LINE TABLE		
LINE #	BEARING	DISTANCE
L30	N00°26'25"W	164.45
L31	N12°37'24"W	44.94
L32	N00°26'25"W	7.50
L33	N00°26'25"W	164.48
L34	N12°37'23"W	44.94
L35	N00°26'25"W	7.50

NOTES:

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WIDEFIELD WATER AND SANITATION DISTRICT
WATER DESIGN APPROVAL

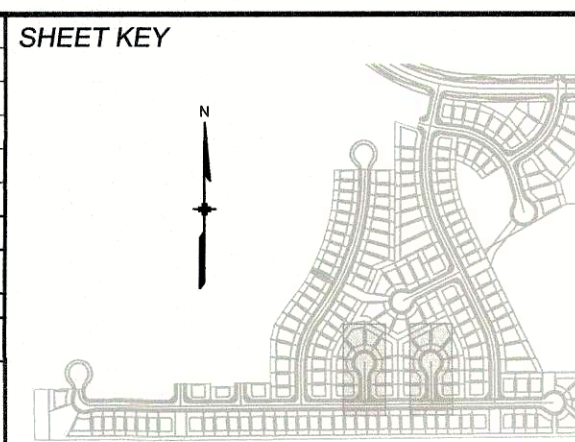
DATE: _____ BY: _____

PROJECT NUMBER: _____

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APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL

REFERENCE DRAWINGS	####	####	####		####
X-886-PR SITE_F1	####	####	####		####
19-886-PR UTIL	####	####	####		####
x-title-utilities	####	####	####		####
X-886-PR SITE	####	####	####		####
X-886-CROSSINGS	####	####	####		####
19-886-PR-UTIL_SANITARY	####	####	####		####
X-886-PR STORM_F1	No.	DATE		DESCRIPTION	BY
886-PR Legacy Drive				REVISIONS	
COMPUTER FILE MANAGEMENT					
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Utility Plans\Water Plan\WT01.dwg					
CTB FILE:					
PLOT DATE: September 16, 2019 11:25:56 AM					
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.					



BENCHMARK

COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F208
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING

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PREPARED BY:

Matrix
DESIGN GROUP

SEAL



FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

DESIGNED BY: WME SCALE: 1" = 50'
DRAWN BY: NMS HORIZ. 1" = 50'
CHECKED BY: NMS VERT. 1" = 5' SHEET: 11 OF 12
DATE ISSUED: SEPTEMBER, 2019
DRAWING No. WT09

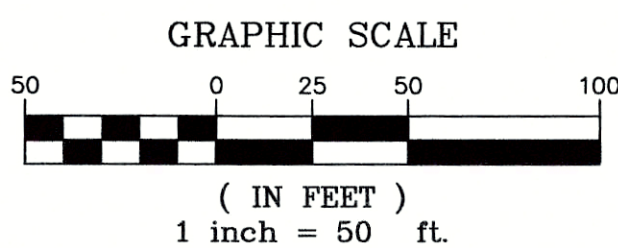
TRAILS AT ASPEN RIDGE

FILING NO. 1
8" & 12" PUBLIC WATER LINE PLANS

WATER LINE PLAN & PROFILE



Know what's below.
Call before you dig.



LINE TABLE		
LINE #	BEARING	DISTANCE
L53	N69°45'39"E	183.39
L54	N63°21'56"E	59.40
L55	N74°20'48"E	55.80
L56	N74°20'48"E	285.89

NOTES:

1. ALL DEFLECTIONS ARE ACHIEVED UTILIZING HIGH-DEFLECTION COUPLERS.
2. WATER CROSSINGS REQUIRING SECONDARY CONTAINMENT SHALL BE IN ACCORDANCE WITH WIDEFIELD WATER STANDARDS DETAIL W-16

THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

THE WIDEFIELD WATER AND SANITATION DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN AND HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

WIDEFIELD WATER AND SANITATION DISTRICT
WATER DESIGN APPROVAL

DATE: _____ BY: _____

PROJECT NUMBER: _____

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT THE STANDARDS AS DEFINED IN THE "RULES AND REGULATIONS FOR INSTALLATION OF WATER MAINS AND SERVICES" SHALL RULE.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL

TRAILS AT ASPEN RIDGE

FILING NO. 1
8" & 12" PUBLIC WATER LINE PLANS

WATER LINE PLAN & PROFILE

DESIGNED BY: WME SCALE: 1" = 50' DATE ISSUED: SEPTEMBER, 2019 DRAWING No. WT10
DRAWN BY: WME HORIZ. 1" = 50' SHEET 12 OF 12
CHECKED BY: NMS VERT. 1" = 5'

SEAL



FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

PREPARED BY:

Matrix
DESIGN GROUP

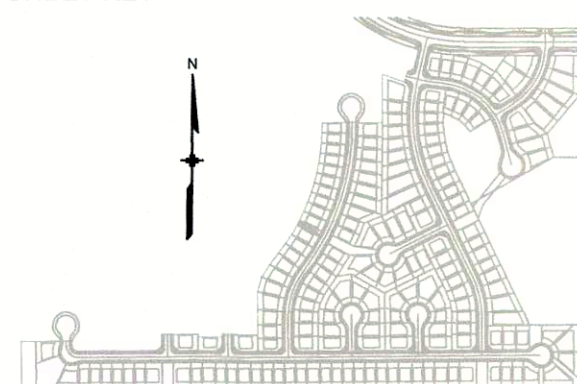
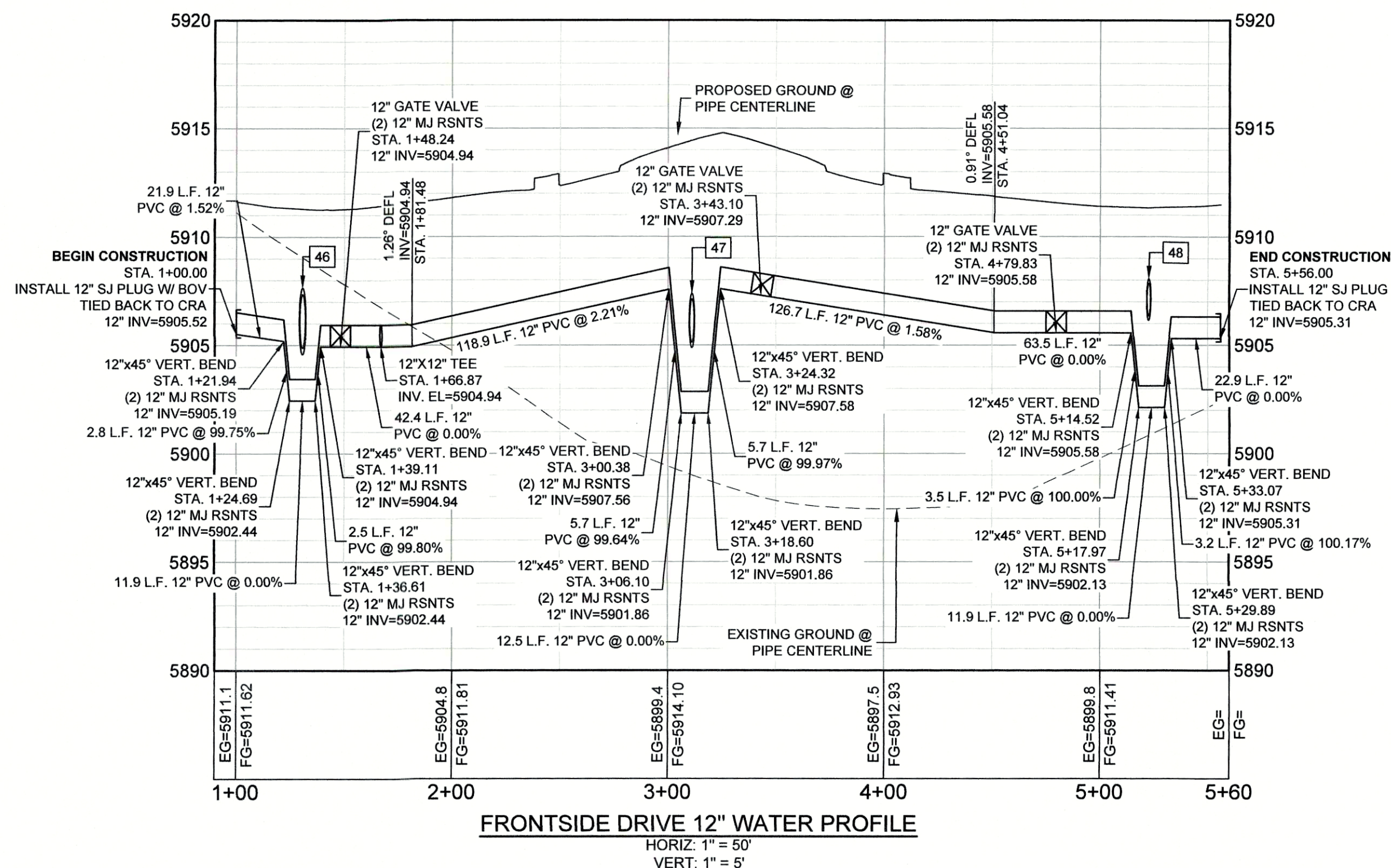
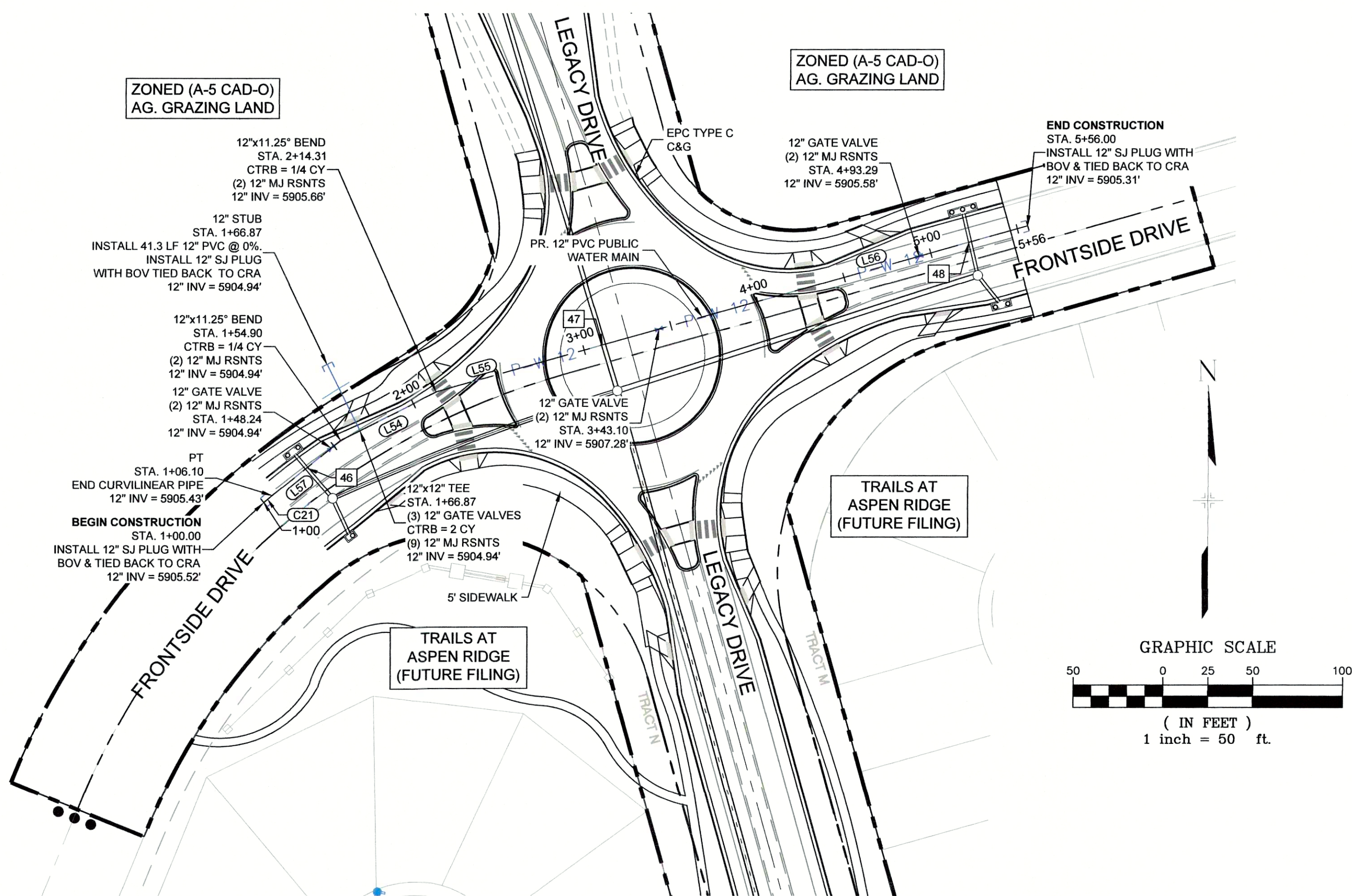
BENCHMARK

COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD,
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING

BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/2" AULM. CAP PLS 10377)

SHEET KEY

ZONED (A-5 CAD-O)
AG. GRAZING LANDZONED (A-5 CAD-O)
AG. GRAZING LAND

FRONTSIDE DRIVE 12" WATER PROFILE

HORIZ. 1" = 50'
VERT. 1" = 5'

REFERENCE DRAWINGS	####	####	####		####
X-886-PR SITE_F1	####	####	####		####
19-886-PR-UTIL	####	####	####		####
x-886-utilities	####	####	####		####
X-886-PR SITE	####	####	####		####
X-886-CROSSINGS	####	####	####		####
19-886-PR-UTIL_SANITARY	####	####	####		####
X-886-PR STORM_F1	No.	DATE	DESCRIPTION		BY
886-PR Legacy Drive	REVISIONS				
	COMPUTER FILE MANAGEMENT				
	FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Utility Plans\Water Plan\WT01.dwg				
	CTB FILE:				
	PLOT DATE: September 26, 2019 12:01:08 PM				
	THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.				