# TRAILS AT ASPEN RIDGE FILING NO.1 EL PASO COUNTY, CO **ROADWAY & STORM IMPROVEMENT PLANS**



# A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A

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

# **ENGINEER'S STATEMENT:**

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND S DETAILED PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO T CITY FOR DETAILED DRAINAGE PLANS AND SPECIFICATIONS, AND SAID DETAILED PLANS AND WITH THE MASTER PLAN OF THE DRAINAGE BASIN. SAID DETAILED DRAINAGE PLANS AND IONS MEET THE PURPOSE FOR WHICH THE PARTICULAR DRAINAGE FACILITY(S) IS DESIGNED. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THE DETAILED DRAINAGE PLANS AND SPECIFICATIONS.

NICOLE SCHANEL, PE #52434 FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.

# **EL PASO COUNTY:**

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNT COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE. DRAINAGE CRITERIA MANUAL. VOLUMES 1 AND 2. AND ENGINEERING CRITERIA MANUAL AS AMENDED

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

JENNIFER IRVINE, P.E. COUNTY ENGINEER / ECM ADMINISTRATOR

SEAL

MATRIX DESIGN GROUP, INC.

PROJECT No. 19.886.011







Date:

DATE

DRAWN BY:

CHECKED BY:

ACCEPTED for FILE **Engineering Review** 11/30/2022 7:46:20 AM dsdlaforce **EPC Planning & Community Development Department** 

**TS01** 

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# TRAILS AT ASPEN RIDGE FILING NO. 1 **ROADWAY & STORM IMPROVEMENT PLANS** TITLE SHEET FOR AND ON BEHALF OF SCALE DESIGNED BY: NMS SEPTEMBER, 2019 DRAWING No. DATE ISSUED:

N.A.

ΝΑ

SHEET

TJC HORIZ.

NMS VERT.







Pipe Table						
Pipe Name	Size	Bearing	Length	Slope		
OUTFALL PIPE	24"	N89°51'42"W	62.02	1.08%		
UD - 1	4"	N00°00'00"E	150.00	0.20%		
UD - 2	4"	N00°00'00"E	146.46	0.20%		
UD - 3	4"	N11°15'00"E	97.04	0.20%		
UD - 4	4"	N10°59'51"W	150.00	0.20%		
UD - 5	4"	N10°59'51"W	126.45	0.20%		
UD - 6	4"	N15°53'42"W	23.55	0.20%		
UD - 7	4"	N15°53'42"W	79.16	0.20%		
UD - 8	4"	N89°57'54"W	7.67	0.40%		

Structure Table			
Structure Name	Structure Details		
CO - 1	RIM = 5870.390 SUMP = 5868.730 UD - 1 INV IN = 5868.730 UD - 2 INV OUT = 5868.733		
CO - 2	RIM = 5870.103 SUMP = 5868.440 UD - 2 INV IN = 5868.440 UD - 3 INV OUT = 5868.440		
CO - 3	RIM = 5869.912 SUMP = 5868.246 UD - 3 INV IN = 5868.246 UD - 4 INV OUT = 5868.250		
CO - 4	RIM = 5869.806 SUMP = 5867.950 UD - 4 INV IN = 5867.950 UD - 5 INV OUT = 5867.950		
CO - 5	RIM = 5870.320 SUMP = 5867.650 UD - 6 INV IN = 5867.653 UD - 7 INV OUT = 5867.650		
CO - 6	RIM = 5870.320 SUMP = 5867.490 UD - 7 INV IN = 5867.492 UD - 8 INV OUT = 5867.490		
OUTLET STRUCTURE	RIM = <del>5872.550 5872.67</del> SUMP = <del>5867.210 5864.82</del> UD - 8 INV IN = 5867.459 <b>5867</b> . OUTFALL PIPE INV OUT = <del>5867.210</del>		

# UNDERDRAIN

# TABLE SF-1 Gradation specifications for CDOT Class B or C filter material 000T Takia 700 -

(Source: CDOT Table 703-7)				
	CDOT CLASS B FILTER MATERIAL	CDOT CLASS C FILTER MATERIAL		
SIEVE SIZE	MASS PERCENT PASSING SQUARE MESH SIEVES			
37.5mm (1.5")	100			
19.0 mm (0.75")		100		
4.75 mm (No. 4)	20-60	60-100		
1.18 um (No. 16)	10-30			
300 um (No. 50)	0-10	10-30		
150 um (No. 100)		0-10		
75 um (No. 200)	0-3	0-3		

# TABLE SF-2 Dimensions for slotted pipe

PIPE SIZE	SLOT LENGTH	MAXIMUM SLOT WIDTH	SLOT CENTERS	OPEN AREA (per foot)	
4"	1-1/16"	0.032"	0.413"	1.90 sq-in	
6"	1-3/8"	0.032"	0.516"	1.98 sq-in	
Pipe must conform to requirements of ASTM designation F949. There shall be no evidence of					

splitting, cracking, or breaking when the pipe is tested per ASTM test method D2412 in accordance with F949 Section 7.5 and ASTM F794 Section 8.5. Contech A-2000 slotted pipe (or equal).

# TRAILS AT ASPEN RIDGE FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS WEST POND LAYOUT, PROFILES, SECTIONS, DETAILS, AND TABLES

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FOR AND ON BEHALF OF		DESIGNED BY: W	WME	SCALE   VME HORIZ. 1" = 40'   JTS VERT. 1" = 5'	ALE	DATE ISSUED:	OCTOBER, 2022	DRAWING No.
	PROJECT No. 19.886.011	CHECKED BY: JTS	SHEET		72 OF 73	DT08		

