Know what's **below.** **Call** before you dig.

TRAILS AT ASPEN RIDGE FILING NO.1

EL PASO COUNTY, CO

ROADWAY & STORM IMPROVEMENT PLANS

DECEMBER, 2019

SHEET NAME		SHEET No.
TS01	TITLE SHEET	1
GN01	ABBREVIATIONS/LEGEND/DETAILS	2
TY01	TYPICAL SECTIONS	3
FAE01-FAE02	FINANCIAL ASSURANCE ESTIMATE	3A-3B
RM01-B	BRADLEY ROAD REMOVAL PLAN	4
RDX1-B	ROAD SHEET KEY/SIDEWALK EXHIBIT	5
RD01-B-RD07-L	LEGACY DRIVE ROADWAY PLAN & PROFILE	6-13
RND01-L	ROUNDABOUT DETAIL	14
INT01-L-INT02-L	LEGACY DRIVE PEDESTRIAN RAMP DETAILS	15-16
SN01-B	BRADLEY ROAD SIGNAGE & STRIPING PLAN	17
SN01-L-SN02-L	LEGACY DRIVE SIGNAGE & STRIPING PLAN	18-19
RDX1-RDX3	FILING 1 ROADWAY SHEET INDEX	20-22
RD01-RD15	FILING 1 ROADWAY PLAN & PROFILE	23-37
INT01-INT05	FILING 1 PEDESTRIAN RAMP DETAILS	38-42
SN01-SN03	FILING 1 SIGNAGE & STRIPING PLAN	43-45
SDX1	STORM DRAIN INDEX	46
SD01-SD17	STORM DRAIN PLAN & PROFILE	47-63
SD18	POND PLAN	64
DT01-DT09	POND DETAILS	65-73

SITE MAP
N.T.S.

VICINITY MAP
N.T.S.

ENGINEER'S STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID DETAILED PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERION ESTABLISHED BY THE CITY FOR DETAILED DRAINAGE PLANS AND SPECIFICATIONS, AND SAID DETAILED PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH THE MASTER PLAN OF THE DRAINAGE BASIN. SAID DETAILED DRAINAGE PLANS AND SPECIFICATIONS 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.

By: _____ Date: 06 JAN 2020

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 COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

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

Approved
By: Elizabeth Nijkamp
Date:02/13/2020
El Paso County Planning & Community Development

OWNER/DEVELOPER:

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN AND ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

_____ 1-7-2020
DATE

COLA, LLC
555 MIDDLE PARKWAY
COLORADO SPRINGS, CO 80921

PCD File No. SF192

REFERENCE DRAWINGS

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\Road & Storm Plans\TS01.dwg
CTB FILE: ----
PLOT DATE: January 6, 2020 12:28:48 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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED NICOLE M. SCHANEL 52434 PROFESSIONAL ENGINEER

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

TRAILS AT ASPEN RIDGE
FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

TITLE SHEET

DESIGNED BY: NMS	SCALE		DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. N.A.			
CHECKED BY: NMS	VERT. N.A.		SHEET 1 OF 73	TS01

GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, REVISED 12-13-2016 AND CDOT STANDARD SPECIFICATIONS, LATEST REVISION.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH APPLICABLE STANDARDS AND REGULATIONS AS SET FORTH BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.).
3. NO FIELD CHANGES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE FIELD ENGINEER.
4. SUBMITTALS SHALL BE MADE FOR ALL MATERIALS TO BE INCORPORATED INTO THE PROJECT.
5. UTILITY LINES AS SHOWN ON THE PLAN SHEETS ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION AND PROTECTION OF ALL UTILITIES IN PLACE.
6. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 TWO BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION OR GRADING.
7. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL UTILITY AND STRUCTURES AFFECTED BY THE WORK AND ANY DAMAGE SHALL BE REPAIRED AND RESTORED TO THE SATISFACTION OF THE RESPECTIVE UTILITY OWNER. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE ALL UTILITY RELOCATIONS AS NECESSARY. THE COUNTY ENGINEERING INSPECTIONS, UTILITY DEPARTMENTS AND UTILITY OWNERS SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WHERE THESE UTILITIES MAY BE AFFECTED.
8. IN SOME OF THE PROPOSED AREAS OF CONSTRUCTION EXISTING UNDERGROUND TELEPHONE, FIBER AND CABLE TELEVISION FACILITIES MAY BE LOCATED IN CLOSE PROXIMITY TO THE WORK. THE CONTRACTOR MAY, IF NECESSARY, TEMPORARILY DISPLACE THE CABLES DURING CONSTRUCTION AND REINSTALL THEM IN ACCORDANCE WITH THE APPROPRIATE TELEPHONE, FIBER OR CABLE COMPANY'S GUIDELINES. COORDINATION WITH BOTH THE TELEPHONE AND CABLE TELEVISION COMPANY IS REQUIRED TO BE DONE BY THE CONTRACTOR.
9. THE CONTRACTOR SHALL OBTAIN AN APPROVED TRAFFIC CONTROL PLAN PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
10. THE PHYSICAL FEATURES WITHIN THE LIMITS OF THE PROJECT HAVE BEEN SHOWN BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE FEATURES SHOWN. THE CONTRACTOR SHALL REVIEW AND VERIFY EXISTING PHYSICAL FEATURES AND ELEVATIONS THEMSELVES OF THE CONDITIONS TO BE ENCOUNTERED DURING THE CONSTRUCTION.
11. THE CONTRACTOR SHALL LIMIT ALL WORK AND STORAGE AREAS TO THE PUBLIC RIGHT-OF-WAYS AND EASEMENTS. USE OF ANY PRIVATE AREAS FOR THIS PROJECT BY THE CONTRACTOR MUST BE APPROVED IN WRITING BY THE PROPERTY OWNER WITH A COPY OF THIS APPROVAL PROVIDED TO THE FIELD ENGINEER PRIOR TO USAGE.
12. ALL CONSTRUCTION IS TO INCLUDE COMPACTION AND FINISH GRADING IN THE UNIT PRICE RELATED WORK ITEM.
13. ALL WORK SHALL BE DONE TO THE LINES, GRADES, SECTIONS, AND ELEVATIONS SHOWN ON THE PLANS UNLESS OTHERWISE NOTED OR APPROVED BY THE FIELD ENGINEER.
14. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY EL PASO COUNTY AND THE FIELD ENGINEER.
15. THE FIELD ENGINEER SHALL BE NOTIFIED WITHIN 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
16. PAYMENT, DIMENSIONS AND RADII ARE SHOWN TO THE LIP OF CURB UNLESS OTHERWISE NOTED.
17. THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AND/OR TOES OF SLOPE AS SHOWN ON THE PLANS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITIONS BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.
18. THE CONTRACTOR SHALL CLOSELY MONITOR ACCESS FOR HEAVY CONSTRUCTION EQUIPMENT THROUGH THE PROJECT AREAS.
19. WHERE PAVEMENT IS TO ABUT EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE REMOVED TO A NEAT VERTICAL LINE BY FULL DEPTH SAWING. SAWING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCIDENTAL TO "REMOVAL OF ASPHALT PAVEMENT". THE CONTRACTOR WILL BE REQUIRED TO PAINT THE EDGE OF CUT PAVEMENT WITH DILUTED EMULSIFIED ASPHALT (SLOW SETTING) PRIOR TO PAVING OPERATIONS. VERTICAL EDGES SHALL NOT REMAIN OVERNIGHT. DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF ONE PART EMULSIFIED ASPHALT AND ONE PART WATER.
20. WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATIONS SHALL BE AS ORDERED. THE COST OF WATER SHALL BE INCIDENTAL TO OTHER BID ITEMS.
21. THE PHYSICAL FEATURES REQUIRING REMOVAL OR OBLITERATION WITHIN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF OFF-SITE.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING ANY MONUMENT, RANGE POINTS, TIES, BENCHMARKS AND/OR SURVEY CONTROL POINTS WHICH MAY BE DISTURBED OR DESTROYED BY CONSTRUCTION. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENT BY A REGISTERED PROFESSIONAL LAND SURVEYOR AUTHORIZED TO PRACTICE LAND SURVEYING IN THE STATE OF COLORADO.
23. THE CONTRACTOR SHALL HAVE A COPY OF ALL APPLICABLE STANDARDS AND PLANS ON SITE FOR THE DURATION OF THE PROJECT.
24. THE CONTRACTOR SHALL NOT STOCKPILE MATERIAL WITHIN 10 FEET OF THE EDGE OF TRAVELED WAY.
25. ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE SUCCEEDING LAYER IS PLACED.
26. BEFORE PLACEMENT OF THE TACK COAT, THE CONTRACTOR SHALL CLEAN THE PRESENT ROADWAY AS DIRECTED. CLEANING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PROJECT.
27. A TACK COAT OF EMULSIFIED ASPHALT (SLOW SETTING) IS TO BE APPLIED BETWEEN PAVEMENT COURSES TO IMPROVE BOND. DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF 1 PART EMULSIFIED ASPHALT AND 1 PART WATER.

GENERAL NOTES con't.:

28. THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN TEMPORARY TRAFFIC CONTROL DEVICES NECESSARY THROUGHOUT THE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL CONTACT TRAFFIC ENGINEERING FORTY-EIGHT (48) HOURS IN ADVANCE FOR ANY REQUIRED MODIFICATION OF TRAFFIC SIGNALS WITHIN CONSTRUCTION AREAS AS NECESSARY TO MAINTAIN SAFE OPERATIONS.
29. ANY DISCREPANCY WITHIN THESE PLANS SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND WORK SHALL STOP UNTIL THE DISCREPANCY IS DISCUSSED AND DECISIONS/AGREEMENTS HAVE BEEN MADE.

EARTHWORK:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LEGAL DISPOSAL OF ANY EXCESS SOIL, DEBRIS AND WASTE MATERIAL OFF OF THE PROJECT SITE.
2. ANY MATERIAL NOT SUITABLE FOR BACKFILL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF, BY AND AT THE EXPENSE OF THE CONTRACTOR.
3. ANY SOIL LYING BELOW THE SUBGRADE ELEVATION WHICH IS DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL IN ACCORDANCE WITH THE SPECIFICATION REQUIREMENTS.

BENCHMARK AND SURVEY CONTROL:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION STAKING OF BOTH HORIZONTAL AND VERTICAL LAYOUT ON THIS PROJECT. COORDINATES ARE REFERENCED IN THE COORDINATE LIST SHOWN ON THESE PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT ENGINEER FOR INTERPRETATION AND INFORMATION IN STAKING OF THE PROJECT FOR CONSTRUCTION.
2. PRIOR TO PROJECT COMPLETION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY PROPERTY MONUMENTATION DISTURBED OR REMOVED BY CONSTRUCTION OPERATIONS. THIS WORK SHALL BE PERFORMED BY A LAND SURVEYOR LICENSED IN THE STATE OF COLORADO. PROPERTY CORNERS WHICH FALL WITHIN NEW CONCRETE FLATWORK SHALL BE DURABLE AND SET FLUSH. THIS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

TRAFFIC GENERAL NOTES:

1. THE CONTRACTOR SHALL PREPARE A DETAILED TRAFFIC CONTROL PLAN, SUBMIT TO EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS FOR APPROVAL, AND OBTAIN APPROPRIATE PERMITS IN ACCORDANCE WITH THE M.U.T.C.D.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL, INCLUDING PEDESTRIAN DETOURS. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, AND MAINTAINING THE TEMPORARY TRAFFIC CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT.
3. APPROVAL OF THESE PLANS BY THE COUNTY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
4. THE APPROVAL OF THESE PLANS OR ISSUANCE OF A PERMIT BY EL PASO COUNTY DOES NOT AUTHORIZE THE OWNER OR CONTRACTOR TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES.
5. ALL TRAFFIC SIGNS, PAVEMENT MARKINGS, AND TRAFFIC SIGNALS SHALL MEET OR EXCEED M.U.T.C.D. STANDARDS.
6. THE CONTRACTOR SHALL NOT REMOVE ANY EXISTING SIGNS, PAVEMENT MARKINGS, OR TRAFFIC SIGNALS DURING THE PROJECT WITHOUT SIGNED AUTHORIZATION OF THE EL PASO COUNTY INSPECTOR ASSIGNED TO THE PROJECT.

CONSTRUCTION NOTES:

1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
   a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
   b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
   c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
   d. CDOT M & S STANDARDS
4. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.

CONSTRUCTION NOTES con't.:

6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

SIGNING & STRIPING NOTES :

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
7. ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS"
8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 12" WIDE AND 8' LONG PER CDOT S-627-1.
12. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

TYPICAL CURB TRANSITION DETAIL

TYPE A CURB TO TYPE C CURB TRANSITION NOTES:
1. BACK OF CURB TO OFFSET FROM CENTERLINE REMAINS CONSTANT.
2. EDGE OF PAVEMENT OFFSET FROM CENTERLINE REMAINS CONSTANT
3. FLOW LINE TRANSITIONS 0.83' TOWARDS EDGE OF PAVEMENT

ABBREVIATIONS:

ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
APPROX	APPROXIMATE or APPROXIMATELY
AVE	AVENUE
AVG	AVERAGE
BLVD	BOULEVARD
BTM	BOTTOM
CEN	CENTER
℄ or CL	CENTERLINE
CFS	CUBIC FEET PER SECOND
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EA	EACH
EGL	ENERGY GRADE LINE
ELEV or EL	ELEVATION
ELL	ELBOW
ESMT	EASEMENT
EW	EACHWAY
EX or EXIST	EXISTING
FES	FLARED END SECTION
FIN	FINISHED
℄ or FL	FLOWLINE
FLG	FLANGE
FT	FOOT / FEET
FRP	FIBERGLASS REINFORCED PIPE
GALV	GALVANIZED
GV	GATE VALVE
HBP	HOT BITUMINOUS PAVEMENT
HGL	HYDRAULIC GRADE LINE
HP	HIGH POINT
HORIZ	HORIZONTAL
HCL	HORIZONTAL CONTROL LINE
INV	INVERT
K	VERTICAL CURVE FACTOR
LBS	POUNDS
LF	LINEAR FEET
LN	LANE
LP	LOW POINT
LT	LEFT
MAX	MAXIMUM
MFGR	MANUFACTURER
MH	MANHOLE
MID	MIDDLE or MIDPOINT
MIN	MINIMUM
MJ	MECHANICAL JOINT

ABBREVIATIONS con't:

NC	NORMAL CROWN
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
O/S	OFFSET
P	PROPOSED
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PCR	POINT OF CURB RETURN
PE	PLAIN END
PIE	PUBLIC IMPROVEMENT EASEMENT
PGL	PROFILE GRADE LINE
℘ or P/L	PROPERTY LINE
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVE or POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENT
R OR RAD	RADIUS
RC	REVERSE CROWN
RCP	REINFORCED CONCRETE PIPE
RED	REDUCER
REF	REFERENCE
REINF	REINFORCING
REQ	REQUIRED
REV	REVISION
ROW	RIGHT-OF-WAY
RT	RIGHT
SCH	SCHEDULE
SD	STORM SEWER
SQ	SQUARE
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
SS OR SAN	SANITARY SEWER
SW OR S/W	SIDEWALK
TAN	TANGENT
TB	THRUST BLOCK
TBC	TOP BACK OF CURB
TFC	TOP FACE OF CURB
THD	THREADED
THK OR THICK	THICKNESS
TYP	TYPICAL
UG	UNDERGROUND
UTIL	UTILITY
VC	VERTICAL CURVE
VERT	VERTICAL
W	WIDTH
W/	WITH

MATERIALS LEGEND

AGGREGATE BASE COURSE
COMPACTED SUBGRADE
CONCRETE
BITUMINOUS PAVEMENT (ASPHALT)

SYMBOLS

PROPOSED CENTERLINE
EXISTING PAVED ROAD
E-SD — EXISTING UNDERGROUND UTILITY
P-W 8 — PROPOSED UNDERGROUND UTILITY
RIGHT OF WAY
EASEMENT
EXISTING CURB & GUTTER
PROPOSED CURB & GUTTER
6400 — EXISTING CONTOUR
6400 — PROPOSED CONTOUR
LIMITS OF CONSTRUCTION
PROPOSED MANHOLE
EXISTING POWER POLE
THRUST BLOCK
FIRE HYDRANT
EXISTING WATER VALVE
PROPOSED WATER VALVE
WATER FITTINGS
EXISTING STORM INLET
PROPOSED STORM INLET
PLUG PIPE
PROPOSED SIGN
EXISTING SIGN

EPC 2/13/2020

REFERENCE DRAWINGS

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\Road & Storm Plans\GN01-Bradley Road.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:06:47 AM
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:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
JACQUE W. SCHWEIZER
PE - 52434
PROFESSIONAL ENGINEER
1/13/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

BRADLEY ROAD & LEGACY HILL DRIVE ROADWAY GENERAL NOTES

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. N.A.		
CHECKED BY: NMS	VERT. N.A.	SHEET 2 OF 73	GN01

TYPICAL SECTION
LEGACY HILL DRIVE
STA. 3+12.49 to STA. 4+97.40
NOT TO SCALE

NOTE:
STA. 1+99.49 TO STA. 3+12.49 BRADLEY ROAD INTERSECTION
STA. 4+97.40 TO STA. 6+30.42 TRANSITION TO ROUNDABOUT.
STA. 6+30.42 TO STA. 9+15.38 SEE ROUNDABOUT LAYOUT PLAN.

TYPICAL SECTION
LEGACY HILL DRIVE
STA. 9+63.29 to STA. 12+62.10
STA. 16+63.83 to STA. 20+50.35
STA. 24+09.88 to STA. 28+56.54
NOT TO SCALE

NOTE:
STA. 9+15.38 TO STA. 9+63.29 TRANSITION FROM ROUNDABOUT.
STA. 12+62.00 TO STA. 14+30.70 LEFT TURN LANE TRANSITION.
STA. 20+50.35 TO STA. 21+91.67 LEFT TURN LANE TRANSITION.

TYPICAL SECTION
LEGACY HILL DRIVE
STA. 14+30.70 to STA. 15+73.65
STA. 21+91.67 to STA. 23+31.77
STA. 59+50.00 to STA. 30+50.00
NOT TO SCALE

NOTE:
STA. 15+80.84 TO STA. 16+63.83 MOOSE MEADOW STREET INTERSECTION.
STA. 23+31.77 TO STA. 24+09.88 SUNDAY GULCH DRIVE INTERSECTION.
STA. 28+56.54 TO STA. 29+41.97 BIG JOHNSON DRIVE INTERSECTION.

TYPICAL SECTION
FRONTSIDE DRIVE
STA. 27+86.86 to STA. 30+16.700
STA. 34+00.32 to STA. 36+87.12
NOT TO SCALE

NOTE:
STA. 30+16.70 TO STA. 30+73.19 TRANSITION TO ROUNDABOUT.
STA. 33+20.07 TO STA. 34+00.32 TRANSITION FROM ROUNDABOUT.

TYPICAL SECTION
BRADLEY ROAD
STA. 11+86.50 to STA. 18+33.21
NOT TO SCALE

TYPICAL SECTION
BRADLEY ROAD
STA. 18+33.21 to STA. 19+40.91
STA. 31+87.58 to STA. 32+99.42
NOT TO SCALE

TYPICAL SECTION
BRADLEY ROAD
STA. 20+60.48 to STA. 21+18.46
NOT TO SCALE

TYPICAL SECTION
BRADLEY ROAD
STA. 21+18.46 to STA. 29+74.97
NOT TO SCALE

NOTE:

PAVEMENT SECTIONS SHOWN ARE MINIMUM PAVEMENT SECTIONS. THE ULTIMATE REQUIRED PAVEMENT SECTION WILL BE PER THE PAVEMENT DESIGN REPORT.

TYPICAL SECTION
LOCAL ROADWAY
NOT TO SCALE

TYPICAL SECTION
BRADLEY ROAD
STA. 29+74.97 to STA. 31+87.58
STA. 33+97.99 to STA. 33+64.59
NOT TO SCALE

EPC 2/13/2020

REFERENCE DRAWINGS

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\Road & Storm Plans\TY01.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:07:29 AM
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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
REGISTERED
52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

TYPICAL SECTIONS

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. N/A		
CHECKED BY: NMS	VERT. N/A	SHEET 3 OF 73	TY01

SHEET No. 3A

Know what's **below.** **Call** before you dig.

ROADWAY
IMPROVEMENTS

N

STORM
IMPROVEMENTS

EPC 2/13/2020

REFERENCE DRAWINGS

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\Road & Storm Plans\FAE01-02.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:08:09 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NICOLE M. SCHAEFER
52434
PROFESSIONAL ENGINEER
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

FINANCIAL ASSURANCE ESTIMATE

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: MH	HORIZ. 1" = 250'		
CHECKED BY: MH	VERT. N/A	SHEET 3A OF 73	FAE-01

Xref: \102 XrefX-Title-Road.dwg

Know what's **below.** **Call** before you dig.

NOTE:
SUBJECT TO SECTION 8.7.2 OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, PORTIONS OF IMPROVEMENTS WITHIN THIS PROJECT ARE ELIGIBLE FOR REIMBURSEMENT FROM THE ADJACENT PROPERTY OWNER (TAX ID NUMBER: 5500000413) AND ARE LISTED BELOW. THE ELIGIBLE IMPROVEMENTS FOR COST RECOVERY SHALL RUN WITH THE LAND. THE LANDOWNERS, THEIR SUCCESSORS, HEIRS, OR ASSIGNS SHALL BE BOUND BY COST RECOVERY PER THE EL PASO COUNTY LAND DEVELOPMENT CODE, AS AMENDED.

Bradley Road-Recoverable

Description	Quantity	Unit
ROADWAY IMPROVEMENTS		
Aggregate Base Course (8" thick) (135 lbs/cf)	1,821	CY
Asphalt Pavement (4" thick)	7,885	SY
Raised Median, Paved	140	SF
Regulatory Sign/Advisory Sign	6	EA
Guide/Street Name Sign	4	EA
Epoxy Pavement Marking	2,747	SF
Thermoplastic Pavement Marking	362	SF
Curb and Gutter, Type A (6" Vertical)	462	LF
Curb and Gutter, Type B (Median)	74	LF
Curb and Gutter, Type C (Ramp)	11	LF
4" Sidewalk		SY
Pedestrian Ramp	2	EA
STORM DRAIN IMPROVEMENTS		
18" Reinforced Concrete Pipe	241	LF
24" Reinforced Concrete Pipe	178	LF
Flared End Section (FES) RCP Size = 18"	3	EA
Flared End Section (FES) RCP Size = 24"	1	EA
Grated Inlet (Type C), Depth < 5'	1	EA
Storm Sewer Manhole, Box Base	2	EA
Rip Rap, d50 size from 6" to 24"	11	Tons

Legacy Hill Road Recoverable

Description	Quantity	Unit
ROADWAY IMPROVEMENTS		
Aggregate Base Course (8" thick)	5,124	CY
Asphalt Pavement (4" thick)	21,296	SY
Raised Median, Paved	5,999	SF
Regulatory Sign/Advisory Sign	39	EA
Guide/Street Name Sign	14	EA
Epoxy Pavement Marking	4,026	SF
Thermoplastic Pavement Marking	1,071	SF
Barricade - Type 3		EA
Curb and Gutter, Type A (6" Vertical)	6,865	LF
Curb and Gutter, Type B (Median)	1,366	LF
Curb and Gutter, Type C (Ramp)	41	LF
4" Sidewalk (common areas only)	3,121	SY
Pedestrian Ramp	35	EA
STORM DRAIN IMPROVEMENTS		
18" Reinforced Concrete Pipe	182	LF
24" Reinforced Concrete Pipe	759	LF
30" Reinforced Concrete Pipe	1,051	LF
42" Reinforced Concrete Pipe	777	LF
48" Reinforced Concrete Pipe	185	LF
Flared End Section (FES) RCP Size = 48"	1	EA
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'	3	EA
Curb Inlet (Type R) L =10', 5' ≤ Depth < 10'	3	EA
Curb Inlet (Type R) L =15', 5' ≤ Depth < 10'	2	EA
Storm Sewer Manhole, Slab Base	11	EA
WATER SYSTEM IMPROVEMENTS		
Water Main Pipe (PVC), Size 8"		LF
Water Main Pipe (PVC), Size 12"		LF
Gate Valves, 8"		EA
Gate Valves, 12"		EA
SANITARY SEWER IMPROVEMENTS		
Sewer Main Pipe (PVC), Size 8"		LF
Sanitary Sewer Manhole, Depth < 15 feet		EA

Legacy Hill Road Non-Recoverable

Description	Quantity	Unit
ROADWAY IMPROVEMENTS		
Aggregate Base Course (8" thick)		CY
Asphalt Pavement (4" thick)		SY
Raised Median, Paved		SF
Regulatory Sign/Advisory Sign	12	EA
Guide/Street Name Sign	14	EA
Epoxy Pavement Marking		SF
Thermoplastic Pavement Marking		SF
Barricade - Type 3	18	EA
Curb and Gutter, Type A (6" Vertical)		LF
Curb and Gutter, Type B (Median)		LF
Curb and Gutter, Type C (Ramp)		LF
4" Sidewalk (common areas only)		SY
Pedestrian Ramp		EA
STORM DRAIN IMPROVEMENTS		
18" Reinforced Concrete Pipe	77	LF
24" Reinforced Concrete Pipe	41	LF
30" Reinforced Concrete Pipe	151	LF
42" Reinforced Concrete Pipe		LF
48" Reinforced Concrete Pipe		LF
Flared End Section (FES) RCP Size = 48"		EA
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'	1	EA
Curb Inlet (Type R) L =10', 5' ≤ Depth < 10'	3	EA
Curb Inlet (Type R) L =15', 5' ≤ Depth < 10'		EA
Storm Sewer Manhole, Slab Base	2	EA
WATER SYSTEM IMPROVEMENTS		
Water Main Pipe (PVC), Size 8"	351	LF
Water Main Pipe (PVC), Size 12"	1,207	LF
Gate Valves, 8"	3	EA
Gate Valves, 12"	5	EA
SANITARY SEWER IMPROVEMENTS		
Sewer Main Pipe (PVC), Size 8"	404	LF
Sanitary Sewer Manhole, Depth < 15 feet	2	EA

Filing 1 Recoverable

Description	Quantity	Unit
ROADWAY IMPROVEMENTS		
Aggregate Base Course (8" thick)		CY
Asphalt Pavement (4" thick)		SY
Regulatory Sign/Advisory Sign		EA
Guide/Street Name Sign		EA
Epoxy Pavement Marking		SF
Thermoplastic Pavement Marking		SF
Barricade - Type 3		EA
Curb and Gutter, Type A (6" Vertical)		LF
Curb and Gutter, Type C (Ramp)		LF
4" Sidewalk (common areas only)		SY
Pedestrian Ramp		EA
STORM DRAIN IMPROVEMENTS		
18" Reinforced Concrete Pipe		LF
24" Reinforced Concrete Pipe		LF
30" Reinforced Concrete Pipe		LF
36" Reinforced Concrete Pipe		LF
42" Reinforced Concrete Pipe	145	LF
48" Reinforced Concrete Pipe	1,590	LF
Flared End Section (FES) RCP Size = 30"		EA
Flared End Section (FES) RCP Size = 24"		EA
End Treatment- Headwall		EA
End Treatment- Wingwall		EA
End Treatment - Cutoff Wall		EA
Curb Inlet (Type R) L=5', Depth < 5'		EA
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		EA
Curb Inlet (Type R) L =5', 10' ≤ Depth < 15'		EA
Curb Inlet (Type R) L =10', Depth < 5'		EA
Curb Inlet (Type R) L =10', 5' ≤ Depth < 10'	2	EA
Curb Inlet (Type R) L =10', 10' ≤ Depth < 15'		EA
Curb Inlet (Type R) L =15', Depth < 5'		EA
Curb Inlet (Type R) L =15', 5' ≤ Depth < 10'		EA
Curb Inlet (Type R) L =15', 10' ≤ Depth < 15'		EA
Curb Inlet (Type R) L =20', Depth < 5'		EA
Curb Inlet (Type R) L =20', 5' ≤ Depth < 10'		EA
Grated Inlet (Type C), Depth < 5'	1	EA
Grated Inlet (Type D), Depth < 5'		EA
Storm Sewer Manhole, Box Base		EA
Storm Sewer Manhole, Slab Base	9	EA
Rip Rap, d50 size from 6" to 24"	5,542	TN
Drainage Channel Lining, Concrete	187	CY
Drainage Micropool	1	EA
Drainage Forebay	2	EA
Drainage Sand Filter Basin	1	EA
WATER SYSTEM IMPROVEMENTS		
Water Main Pipe (PVC), Size 8"		LF
Water Main Pipe (PVC), Size 12"		LF
Gate Valves, 8"		EA
Gate Valves, 12"		EA
Fire Hydrant Assembly, w/ all valves		EA
Water Service Line Installation, inc. tap and valves		EA
SANITARY SEWER IMPROVEMENTS		
Sewer Main Pipe (PVC), Size 8"		LF
Sanitary Sewer Manhole, Depth < 15 feet		EA
Sanitary Service Line Installation, complete		EA

Filing 1 Non-Recoverable

Description	Quantity	Unit
ROADWAY IMPROVEMENTS		
Aggregate Base Course (8" thick)	6,618	CY
Asphalt Pavement (4" thick)	24,639	SY
Regulatory Sign/Advisory Sign	11	EA
Guide/Street Name Sign	18	EA
Epoxy Pavement Marking		SF
Thermoplastic Pavement Marking		SF
Barricade - Type 3	6	EA
Curb and Gutter, Type A (6" Vertical)	1,614	LF
Curb and Gutter, Type C (Ramp)	11,670	LF
4" Sidewalk (common areas only)	7,341	SY
Pedestrian Ramp	40	EA
STORM DRAIN IMPROVEMENTS		
18" Reinforced Concrete Pipe	1,035	LF
24" Reinforced Concrete Pipe	1,205	LF
30" Reinforced Concrete Pipe	1,316	LF
36" Reinforced Concrete Pipe	57	LF
42" Reinforced Concrete Pipe	141	LF
48" Reinforced Concrete Pipe	90	LF
Flared End Section (FES) RCP Size = 30"	1	EA
Flared End Section (FES) RCP Size = 24"	2	EA
End Treatment- Headwall		EA
End Treatment- Wingwall		EA
End Treatment - Cutoff Wall		EA
Curb Inlet (Type R) L=5', Depth < 5'	3	EA
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'	4	EA
Curb Inlet (Type R) L =5', 10' ≤ Depth < 15'		EA
Curb Inlet (Type R) L =10', Depth < 5'		EA
Curb Inlet (Type R) L =10', 5' ≤ Depth < 10'	12	EA
Curb Inlet (Type R) L =10', 10' ≤ Depth < 15'		EA
Curb Inlet (Type R) L =15', Depth < 5'		EA
Curb Inlet (Type R) L =15', 5' ≤ Depth < 10'	2	EA
Curb Inlet (Type R) L =15', 10' ≤ Depth < 15'		EA
Curb Inlet (Type R) L =20', Depth < 5'		EA
Curb Inlet (Type R) L =20', 5' ≤ Depth < 10'		EA
Grated Inlet (Type C), Depth < 5'		EA
Grated Inlet (Type D), Depth < 5'		EA
Storm Sewer Manhole, Box Base		EA
Storm Sewer Manhole, Slab Base	19	EA
Rip Rap, d50 size from 6" to 24"		TN
Drainage Channel Lining, Concrete		CY
Drainage Micropool		EA
Drainage Forebay		EA
Drainage Sand Filter Basin		EA
WATER SYSTEM IMPROVEMENTS		
Water Main Pipe (PVC), Size 8"	4,580	LF
Water Main Pipe (PVC), Size 12"	2,720	LF
Gate Valves, 8"	35	EA
Gate Valves, 12"	27	EA
Fire Hydrant Assembly, w/ all valves	21	EA
Water Service Line Installation, inc. tap and valves	181	EA
SANITARY SEWER IMPROVEMENTS		
Sewer Main Pipe (PVC), Size 8"	404	LF
Sanitary Sewer Manhole, Depth < 15 feet	2	EA
Sanitary Service Line Installation, complete	181	EA

EPC 2/13/2020

REFERENCE DRAWINGS

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\Road & Storm Plans\FAE01-02.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:08:11 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 (2½" AULM. CAP PLS 17664) TO THE N¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED PROFESSIONAL ENGINEER JOYCE M. SCHULTZ No. 52434
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

FINANCIAL ASSURANCE ESTIMATE

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: MH	HORIZ. 1" = 250'		
CHECKED BY: MH	VERT. N/A	SHEET 3B OF 73	FAE-02

Xref: \102 Xref\X-Title-Road.dwg

EPC 2/13/2020

NOTE:
SEE SIGNING AND STRIPING PLANS FOR ALL SIGNS TO BE RELOCATED ON BRADLEY ROAD.

REFERENCE DRAWINGS

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\Road & Storm Plans\RM01-Bradley Road.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:09:48 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
JACQUE W. SCHWEIZER
PROFESSIONAL ENGINEER
NO. 52434
1/15/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

BRADLEY ROAD
PROJECT DEMOLITION

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1" = 50'	SHEET 4 OF 73	RM01-B
CHECKED BY: NMS	VERT. N.A.		

Know what's **below.** **Call** before you dig.

LEGEND

4" CONCRETE DEPTH
5" CONCRETE DEPTH

GRAPHIC SCALE
150 0 75 150 300
(IN FEET)
1 inch = 150 ft.

EPC 2/13/2020

REFERENCE DRAWINGS			
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\Road & Storm Plans\RD00.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:11:50 AM
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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NICOLE M. SCHWEIZER
52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

ROAD SHEET KEY/ SIDEWALK EXHIBIT

DESIGNED BY: KMZ	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: LCB	HORIZ. 1" = 150'		
CHECKED BY: NMS	VERT. N.A.	SHEET 5 OF 73	RDX1-B

Know what's below. Call before you dig.

EPC 2/13/2020

REFERENCE DRAWINGS

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\Road & Storm Plans\RD01-B.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:14:09 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 (2½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:

Matrix DESIGN GROUP

SEAL

COLORADO LICENSED
JACKIE W. SCHIVELY
PE 52434
PROFESSIONAL ENGINEER
1/23/20
EXP. 9/30/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

BRADLEY ROAD ROADWAY PLAN

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1" = 50'		
CHECKED BY: NMS	VERT. N.A.	SHEET 6 OF 73	RD01-B

Know what's below. Call before you dig.

LEGACY HILL DRIVE PLAN

LEGACY HILL DRIVE CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

EPC 2/13/2020

REFERENCE DRAWINGS				
	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\Road & Storm Plans\RD01-Legacy Road.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:15:46 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 (2½" AULM. CAP PLS 17664) TO THE N¼ CORNER OF SAID SECTION 9 (3¼" AULM. CAP PLS 10377)

PREPARED BY:

Matrix DESIGN GROUP

SEAL

COLORADO LICENSED — JACKIE W. SCHIVELY — 52434 — PROFESSIONAL ENGINEER

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

LEGACY HILL DRIVE PLAN & PROFILE

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1" = 40'		
CHECKED BY: NMS	VERT. 1" = 8'	SHEET 7 OF 73	RD01-L

Know what's below. Call before you dig.

LEGACY HILL DRIVE PLAN

LEGACY HILL DRIVE CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

EPC 2/13/2020

REFERENCE DRAWINGS			
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\Road & Storm Plans\RD01-Legacy Road.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:15:51 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 (2½" AULM. CAP PLS 17664) TO THE N¼ CORNER OF SAID SECTION 9 (3¼" AULM. CAP PLS 10377)

PREPARED BY:

Matrix DESIGN GROUP

SEAL

COLORADO LICENSED
NICOLE M. SCHWEGEL
52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

LEGACY HILL DRIVE
PLAN & PROFILE

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1" = 40'		
CHECKED BY: NMS	VERT. 1" = 8'	SHEET 8 OF 73	RD02-L

Know what's **below.** **Call** before you dig.

LEGACY HILL DRIVE PLAN

LEGACY HILL DRIVE CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

EPC 2/13/2020

REFERENCE DRAWINGS

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\Road & Storm Plans\RD01-Legacy Road.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:15:56 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NICOLE K. SEIVERT
52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

LEGACY HILL DRIVE
PLAN & PROFILE

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1" = 40'	SHEET 9 OF 73	RD03-L
CHECKED BY: NMS	VERT. 1" = 8'		

Know what's below. Call before you dig.

LEGACY HILL DRIVE PLAN

LEGACY HILL DRIVE CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

EPC 2/13/2020

REFERENCE DRAWINGS				
	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\Road & Storm Plans\RD01-Legacy Road.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:16:00 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:

Matrix DESIGN GROUP

SEAL

COLORADO LICENSED
NICOLE M. SCHWEIZER
52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

LEGACY HILL DRIVE PLAN & PROFILE

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1" = 40'		
CHECKED BY: NMS	VERT. 1" = 8'	SHEET 10 OF 73	RD04-L

Know what's **below.** **Call** before you dig.

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
1 inch = 40 ft.

LINE TABLE		
LINE #	BEARING	DISTANCE
L17	N69°44'49"E	17.08
L18	N69°45'39"E	13.32

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	ANGLE
C11	38.14	25.00	87°24'07"
C14	40.57	25.00	92°58'38"

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
1 inch = 40 ft.

LINE TABLE		
LINE #	BEARING	DISTANCE
L19	N69°43'14"E	5.52
L21	S15°46'20"E	23.51
L22	N69°45'39"E	50.51

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	ANGLE
C15	37.80	25.00	86°37'59"
C16	40.98	25.00	93°54'44"

MOOSE MEADOW SW FLOWLINE PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

MOOSE MEADOW SE FLOWLINE PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

MOOSE MEADOW NW FLOWLINE PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

MOOSE MEADOW NE FLOWLINE PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

EPC 2/13/2020

REFERENCE DRAWINGS			
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\Road & Storm Plans\RD01-Legacy Road.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:16:11 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NICOLE W. SCHWEIZER
52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

CURB RETURN DETAILS
LEGACY HILL DRIVE & MOOSE MEADOW ST

DESIGNED BY: NMS	SCALE		DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: AAL	HORIZ. 1" = 40'			
CHECKED BY: NMS	VERT. 1" = 8'		SHEET 11 OF 73	RD05-L

Know what's **below.** **Call** before you dig.

SUNDAY GULCH SW FLOWLINE PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

SUNDAY GULCH SE FLOWLINE PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

LINE TABLE		
LINE #	BEARING	DISTANCE
L23	S08°00'56"W	10.00
L24	S12°47'44"W	9.78
L26	N17°34'33"E	10.00
L27	N12°47'44"E	10.23

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	ANGLE
C18	37.98	25.00	87°02'20"
C19	37.96	25.00	86°59'40"

N

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
1 inch = 40 ft.

EPC 2/13/2020

REFERENCE DRAWINGS

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\Road & Storm Plans\RD01-Legacy Road.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:16:18 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 (2½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NICOLE M. SCHWEIZER
52434
PROFESSIONAL ENGINEER
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

CURB RETURN DETAILS
LEGACY HILL DRIVE & SUNDAY GULCH DRIVE

DESIGNED BY: NMS
DRAWN BY: AAL
CHECKED BY: NMS
SCALE HORIZ 1" = 40' VERT. 1" = 8'
DATE ISSUED: SEPTEMBER, 2019
SHEET 12 OF 73
DRAWING No. RD06-L

Know what's below. Call before you dig.

BIG JOHNSON SW FLOWLINE PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

BIG JOHNSON SE FLOWLINE PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

LINE TABLE		
LINE #	BEARING	DISTANCE
L28	N90°00'00"E	10.00
L29	S03°07'44"W	10.00
L30	N11°49'49"E	10.00
L31	N05°39'16"E	5.68
L32	N90°00'00"E	10.00

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	ANGLE
C21	42.24	25.00	96°48'18"
C24	37.03	25.00	84°51'32"

BIG JOHNSON NW FLOWLINE PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

BIG JOHNSON NE FLOWLINE PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

LINE TABLE		
LINE #	BEARING	DISTANCE
L34	N04°17'19"E	10.00
L37	S05°13'42"E	10.00
L38	N90°00'00"E	20.10

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	ANGLE
C25	39.41	25.00	90°19'32"
C26	39.11	25.00	89°38'00"

EPC 2/13/2020

REFERENCE DRAWINGS

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\Road & Storm Plans\RD01-Legacy Road.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:16:29 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NICOLE M. SCHWYHART
52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

CURB RETURN DETAIL
LEGACY HILL DRIVE & BIG JOHNSON DRIVE

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: AAL	HORIZ. 1" = 40'		
CHECKED BY: NMS	VERT. 1" = 8'	SHEET 13 OF 73	RD07-L

Know what's below. Call before you dig.

EPC 2/13/2020

REFERENCE DRAWINGS			
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\Road & Storm Plans\RND-01.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:18:19 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 (2½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3¼" AULM. CAP PLS 10377)

PREPARED BY:

Matrix DESIGN GROUP

SEAL

COLORADO LICENSED
NICOLE M. SCHWEIZER
52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

LEGACY HILL ROUNDABOUT DETAILS

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1" = 30'		
CHECKED BY: NMS	VERT. N/A	SHEET 14 OF 73	RND01-L

Know what's below. Call before you dig.

NORTH ISLAND
SCALE: 1" = 10'

WEST ISLAND
SCALE: 1" = 10'

EAST ISLAND
SCALE: 1" = 10'

SOUTH ISLAND
SCALE: 1" = 10'

N

GRAPHIC SCALE
10' 0 5' 10' 20'
(IN FEET)
1 inch = 10' ft.

LINE TABLE		
LINE #	BEARING	DISTANCE
L1	N74°20'48"E	2.35
L2	S74°20'48"W	13.02
L3	N74°20'48"E	18.54
L4	S23°39'26"E	17.30
L5	N23°39'26"W	11.94
L6	S27°09'08"E	1.40
L7	N74°20'48"E	17.16
L8	S74°20'48"W	12.06
L9	N74°20'48"E	1.70
L10	N15°38'59"W	18.07
L11	S15°38'59"E	13.07
L12	N15°38'59"W	2.77

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	ANGLE
C1	7.60	5.00	87°05'53"
C2	9.16	109.03	4°48'51"
C3	1.71	1.00	97°42'58"
C4	1.79	1.00	102°45'48"
C5	9.77	162.00	3°27'19"
C6	7.04	5.00	80°41'31"
C7	1.33	1.00	75°55'01"
C8	22.69	109.03	11°55'30"
C9	2.28	1.00	130°36'46"
C10	30.46	73.50	23°44'45"
C11	6.43	3.00	122°44'16"
C12	18.28	162.00	6°27'59"
C13	1.27	1.00	72°52'11"
C14	7.20	5.00	82°29'29"
C15	9.19	98.00	5°22'18"
C16	1.73	1.00	99°23'07"
C17	1.75	1.00	100°23'21"
C18	9.61	188.00	2°55'40"
C19	7.51	5.00	86°02'01"
C20	1.28	1.00	73°29'02"
C21	22.83	98.00	13°20'43"
C22	2.26	1.00	129°44'29"
C23	29.85	73.50	23°16'15"
C24	6.48	3.00	123°40'20"
C25	20.24	188.00	6°10'08"
C26	1.32	1.00	75°53'16"
C27	7.64	5.00	87°30'27"
C28	9.13	109.00	4°47'50"
C29	1.70	1.00	97°17'23"
C30	1.77	1.00	101°19'29"

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	ANGLE
C31	9.63	162.00	3°24'20"
C32	7.16	5.00	82°04'52"
C33	1.33	1.00	76°21'02"
C34	23.53	109.00	12°21'57"
C35	2.28	1.00	130°47'23"
C36	29.04	73.50	22°38'09"
C37	6.29	3.00	120°08'25"
C38	18.70	162.00	6°36'54"
C39	1.30	1.00	74°20'11"
C40	1.79	1.00	102°42'15"
C41	7.01	5.00	80°17'10"
C42	7.84	5.00	89°49'41"
C43	8.93	98.00	5°13'25"
C44	1.66	1.00	95°23'44"
C45	1.35	1.00	77°34'12"
C46	22.94	98.00	13°24'48"
C47	2.26	1.00	129°38'27"
C48	29.60	73.50	23°04'20"
C49	6.36	3.00	121°30'16"
C50	18.92	188.00	5°45'59"
C51	1.28	1.00	73°32'11"
C52	9.81	188.00	2°59'25"

NOTE:
LIGHT POLE LOCATIONS ARE SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL PLANS BY SEPARATE CONSULTANT FOR FINAL DESIGN.

EPC 2/13/2020

REFERENCE DRAWINGS

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\Road & Storm Plans\RND-01.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:18:28 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NICOLE M. SCHWYHART
52434
PROFESSIONAL ENGINEER
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

LEGACY HILL ROUNDABOUT DETAILS

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1" = 30'		
CHECKED BY: NMS	VERT. N/A	SHEET 14A OF 73	RND02-L

Know what's below. Call before you dig.

DETAIL A
LEGACY HILL DRIVE/
SUNDAY GULCH DRIVE
PED RAMP DETAILS

DETAIL B
LEGACY HILL DRIVE/
BIG JOHNSON DRIVE
PED RAMP DETAILS

N

GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1 inch = 10 ft.

EPC 2/13/2020

REFERENCE DRAWINGS			
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\Road & Storm Plans\RD01-Legacy Road.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:20:08 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NICOLE M. SCHWEIZER
52434
PROFESSIONAL ENGINEER
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

INTERSECTION DETAIL
SUNDAY GULCH DRIVE/BIG JOHNSON DRIVE

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: AAL	HORIZ. 1" = 10'		
CHECKED BY: NMS	VERT. N/A	SHEET 15 OF 73	INT01-L

Know what's **below.** **Call** before you dig.

DETAIL C
LEGACY HILL DRIVE/ MOOSEMEADOW STREET PED RAMP DETAILS

EPC 2/13/2020

REFERENCE DRAWINGS

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\Road & Storm Plans\RD01-Legacy Road.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:20:13 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
JACQUE W. SCHWEIZER
PROFESSIONAL ENGINEER
PE 52434
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

INTERSECTION DETAIL MOOSEMEADOW STREET

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: AAL	HORIZ. 1" = 10'		
CHECKED BY: NMS	VERT. N/A	SHEET 16 OF 73	INT02-L

Know what's below. Call before you dig.

EPC 2/13/2020

REFERENCE DRAWINGS

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\Road & Storm Plans\SN01-Bradley-Legacy.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:21:23 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
JACQUELINE K. SEAVER
52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

BRADLEY ROAD SIGNING & STRIPING

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1" = 50'		
CHECKED BY: NMS	VERT. N.A.	SHEET 17 OF 73	SN01-B

Know what's below. Call before you dig.

TYPICAL SPLITTER ISLAND DETAIL

SCALE: 1" = 50'

EPC 2/13/2020

REFERENCE DRAWINGS				
	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\Road & Storm Plans\SN01-Bradley-Legacy.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:21:26 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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:

Matrix DESIGN GROUP

SEAL

COLORADO LICENSED
JACQUE M. SCHWEIZER
PROFESSIONAL ENGINEER
NO. 52434

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

LEGACY HILL DRIVE SIGNING & STRIPING

DESIGNED BY: NMS	SCALE		DATE ISSUED: SEPTEMBER, 2019	DRAWING No.	
DRAWN BY: TJC	HORIZ. 1" = 50'				
CHECKED BY: NMS	VERT. N.A.		SHEET 18 OF 73	SN01-L	

Know what's below. Call before you dig.

EPC 2/13/2020

REFERENCE DRAWINGS			
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\Road & Storm Plans\SN01-Bradley-Legacy.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:21:29 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
JESSE E. SCHWYHART
52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

LEGACY DRIVE
SIGNING & STRIPING

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1" = 50'		
CHECKED BY: NMS	VERT. N.A.	SHEET 19 OF 73	SN02-L

Know what's **below.** **Call** before you dig.

N

GRAPHIC SCALE

100 0 50 100 200

(IN FEET)
1 inch = 100 ft.

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

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\Road & Storm Plans\RD-MAP.dwg
CTB FILE: ----
PLOT DATE: January 24, 2020 10:30:15 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒
DETACHED ☒
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA☐ PCC☐
THICKNESS:

COMPOSITE SECTION:
HMA____ BASE____

REVIEW:

STREET DESIGN:

CURB & GUTTER REVIEW _____ DATE: _____

FINAL REVIEW _____ DATE: _____

DRAINAGE DESIGN:
BY: _____ DATE: _____

TRAFFIC DESIGN:
BY: _____ DATE: _____

"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:

Matrix DESIGN GROUP

SEAL

COLORADO LICENSED
NICOLE M. SCHAFER
PE 52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1 EPC 2/13/2020
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

KEY MAP
INTERNAL ROADWAY PLAN & PROFILE SHEETS

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1" = 100'		
CHECKED BY: NMS	VERT. N/A	SHEET 20 OF 73	RDX1

Know what's below. Call before you dig.

N

GRAPHIC SCALE

100 0 50 100 200

(IN FEET)
1 inch = 100 ft.

EPC 2/13/2020

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 (2½" AULM. CAP PLS 17664) TO THE N¼ CORNER OF SAID SECTION 9 (3½" AULM. CAP PLS 10377)

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\Road & Storm Plans\RD-MAP.dwg
CTB FILE: ----
PLOT DATE: January 24, 2020 10:30:36 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒
DETACHED ☒
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA☐ PCC☐
THICKNESS:

COMPOSITE SECTION:
HMA ____ BASE ____

REVIEW:

STREET DESIGN:

CURB & GUTTER REVIEW _____ DATE: _____

FINAL REVIEW _____ DATE: _____

DRAINAGE DESIGN:
BY: _____ DATE: _____

TRAFFIC DESIGN:
BY: _____ DATE: _____

"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:

Matrix DESIGN GROUP

SEAL

COLORADO LICENSED
KYLE M. SCHMIT
No. 52434
1/6/20
PROFESSIONAL ENGINEER

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

KEY MAP
CURB RETURN FLOW LINE PROFILE SHEETS

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1" = 100'		
CHECKED BY: NMS	VERT. N/A	SHEET 21 OF 73	RDX2

Know what's below. Call before you dig.

N

GRAPHIC SCALE

100 0 50 100 200

(IN FEET)
1 inch = 100 ft.

EPC 2/13/2020

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

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\Road & Storm Plans\RD-MAP.dwg
CTB FILE: ----
PLOT DATE: January 24, 2020 10:30:55 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒
DETACHED ☒
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA☐ PCC☐
THICKNESS:

COMPOSITE SECTION:
HMA ____ BASE ____

REVIEW:

STREET DESIGN:

CURB & GUTTER REVIEW _____ DATE: _____

FINAL REVIEW _____ DATE: _____

DRAINAGE DESIGN:
BY: _____ DATE: _____

TRAFFIC DESIGN:
BY: _____ DATE: _____

"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:

Matrix DESIGN GROUP

SEAL

COLORADO LICENSED
COLE W. SHAFER
PE 52434
PROFESSIONAL ENGINEER
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

KEY MAP
PEDESTRIAN RAMP DETAIL SHEETS

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1" = 100'		
CHECKED BY: NMS	VERT. N/A	SHEET 22 OF 73	RDX3

Know what's below. Call before you dig.

BUFFALO HORN DRIVE PLAN

BUFFALO HORN DRIVE CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
1 inch = 40 ft.

LINE TABLE		
LINE #	BEARING	DISTANCE
L125	S00°26'32"E	20.94
L126	N89°33'35"E	403.00
L127	N89°33'35"E	270.00
L128	N89°33'35"E	270.00

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C130	215.49	45.00	274°22'14"
C131	37.06	45.00	47°11'07"
C132	81.68	52.00	89°59'53"
C160	37.06	45.00	47°11'07"
C161	22.03	48.83	25°50'31"
C162	124.45	51.17	139°21'09"

EPC 2/13/2020

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

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\road & storm plans\RD01-04.dwg
CTB FILE: COMM-TECH_D-SIZE_BW.ctb
PLOT DATE: January 23, 2020 11:23:38 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:
SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒ DETACHED ☒
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL
PAVEMENT: TYPE: HMA☐ PCC☐ THICKNESS:
COMPOSITE SECTION: HMA BASE

SHEET KEY

REVIEW:
STREET DESIGN:
CURB & GUTTER REVIEW DATE:
FINAL REVIEW DATE:
DRAINAGE DESIGN: BY: DATE:
TRAFFIC DESIGN: BY: DATE:
"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY: Matrix DESIGN GROUP

SEAL
COLORADO LICENSED — NICOLE M. SCHWAB — 52434 — PROFESSIONAL ENGINEER — 1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

DESIGNED BY: NMS
DRAWN BY: TJC
CHECKED BY: NMS
SCALE HORIZ. 1"=40' VERT. 1"=8'
DATE ISSUED: SEPTEMBER, 2019
SHEET 23 OF 73
DRAWING No. RD01

Know what's below. Call before you dig.

BUFFALO HORN DRIVE PLAN

BUFFALO HORN DRIVE CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
1 inch = 40 ft.

LINE TABLE		
LINE #	BEARING	DISTANCE
L129	N89°33'35"E	284.41
L130	N89°33'35"E	297.94
L131	N89°33'35"E	282.52

EPC 2/13/2020

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

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\road & storm plans\RD01-04.dwg
CTB FILE: COMM-TECH_D-SIZE_BW.ctb
PLOT DATE: January 23, 2020 11:23:45 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:
SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒ DETACHED ☒
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL
PAVEMENT: TYPE: HMA☐ PCC☐ THICKNESS:
COMPOSITE SECTION: HMA BASE

SHEET KEY

REVIEW:
STREET DESIGN:
CURB & GUTTER REVIEW DATE:
FINAL REVIEW DATE:
DRAINAGE DESIGN: BY: DATE:
TRAFFIC DESIGN: BY: DATE:
"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY: Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
BRIDGE W. SCHWEIZER
52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1"=40'		
CHECKED BY: NMS	VERT. 1"=8'	SHEET 24 OF 73	RD02

BUFFALO HORN DRIVE PLAN

BUFFALO HORN DRIVE CDS FL PLAN

BUFFALO HORN DRIVE/
SIDEWINDER DRIVE
CURB RETURNS PLAN

Know what's **below.**
Call before you dig.

LINE TABLE		
LINE #	BEARING	DISTANCE
L132	N89°33'35"E	261.04
L232	N41°15'54"E	10.00
L233	S89°34'46"E	10.00
L234	S65°37'06"E	9.93
L235	N73°16'19"E	9.93

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C144	33.66	38.83	49°39'34"
C145	19.00	46.17	23°34'39"
C146	33.69	38.83	49°42'01"
C164	22.45	47.00	27°22'19"
C165	15.85	47.00	19°19'10"
C166	129.06	46.17	160°10'16"

N

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
1 inch = 40 ft.

LINE TABLE		
LINE #	BEARING	DISTANCE
L159	N84°47'46"E	10.03
L160	N04°19'24"E	10.03
L163	N05°12'14"W	10.03
L164	N85°40'36"W	10.03

BUFFALO HORN DRIVE CL PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'

BUFFALO HORN DRIVE CDS FL
PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'

BUFFALO HORN DRIVE /
SIDEWINDER DRIVE NW FL
CURB RETURN PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'

BUFFALO HORN DRIVE /
SIDEWINDER DRIVE NE FL
CURB RETURN PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C159	31.42	20.00	90°00'00"
C168	31.42	20.00	90°00'00"

EPC 2/13/2020

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)

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\road & storm plans\RD01-04.dwg
CTB FILE: COMM-TECH_D-SIZE_BW.ctb
PLOT DATE: January 23, 2020 11:23:56 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:
SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒
DETACHED ☒
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL
PAVEMENT:
TYPE: HMA☐ PCC☐
THICKNESS:
COMPOSITE SECTION:
HMA BASE

SHEET KEY

REVIEW:
STREET DESIGN:
CURB & GUTTER REVIEW DATE:
FINAL REVIEW DATE:
DRAINAGE DESIGN:
BY: DATE:
TRAFFIC DESIGN:
BY: DATE:
"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NICOLE W. SONNEK
52434
PROFESSIONAL ENGINEER
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

DESIGNED BY: NMS
DRAWN BY: TJC
CHECKED BY: NMS
SCALE
HORIZ. 1"=40'
VERT. 1"=8'
DATE ISSUED: SEPTEMBER, 2019
SHEET 25 OF 73
DRAWING No. RD03

SIDEWINDER DRIVE PLAN

LAZY RIDGE DRIVE PLAN

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
1 inch = 40 ft.

BUFFALO HORN DRIVE/
LAZY RIDGE DRIVE
CURB RETURNS PLAN

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
1 inch = 40 ft.

LINE TABLE		
LINE #	BEARING	DISTANCE
L133	N00°26'25"W	15.00
L134	N00°26'25"W	100.00
L135	N00°26'25"W	15.00
L136	N00°26'25"W	101.04

LINE TABLE		
LINE #	BEARING	DISTANCE
L166	N89°33'35"E	56.80
L167	N84°47'46"E	10.03
L168	N00°26'25"W	20.41
L169	N09°01'19"E	5.07
L170	N00°26'25"W	12.59
L171	S09°54'09"E	5.07
L172	S00°26'25"E	20.41
L173	S85°40'36"E	10.03

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C170	31.42	20.00	90°00'00"
C175	31.42	20.00	90°00'00"

SIDEWINDER DRIVE CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

LAZY RIDGE DRIVE CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

BUFFALO HORN DRIVE /
LAZY RIDGE DRIVE NW FL
CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

BUFFALO HORN DRIVE /
LAZY RIDGE DRIVE NE FL
CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

EPC 2/13/2020

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

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\road & storm plans\RD01-04.dwg
CTB FILE: COMM-TECH_D-SIZE_BW.ctb
PLOT DATE: January 23, 2020 11:24:06 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒
DETACHED ☒
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA☐ PCC☐
THICKNESS:
COMPOSITE SECTION:
HMA ____ BASE ____

SHEET KEY

REVIEW:
STREET DESIGN:
CURB & GUTTER REVIEW _____ DATE: _____
FINAL REVIEW _____ DATE: _____
DRAINAGE DESIGN:
BY: _____ DATE: _____
TRAFFIC DESIGN:
BY: _____ DATE: _____

"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NICOLE M. SCHWAB
52434
PROFESSIONAL ENGINEER
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

DESIGNED BY: NMS
DRAWN BY: TJC
CHECKED BY: NMS
SCALE HORIZ. 1"=40' VERT. 1"=8'
DATE ISSUED: SEPTEMBER, 2019
SHEET 26 OF 73
DRAWING No. RD04

WAGON HAMMER DRIVE PLAN

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
1 inch = 40 ft.

LINE TABLE		
LINE #	BEARING	DISTANCE
L137	N00°26'25"W	15.00
L138	N00°26'25"W	174.59

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C133	229.33	350.00	37°32'28"

BUFFALO HORN DRIVE/ WAGON HAMMER DRIVE CURB RETURNS PLAN

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
1 inch = 40 ft.

LINE TABLE		
LINE #	BEARING	DISTANCE
L176	S89°33'35"W	34.12
L177	S84°47'46"W	10.03
L178	S00°26'25"E	18.00
L179	S09°01'19"W	5.07
L181	S09°54'09"E	5.07
L182	S00°26'25"E	18.00
L183	S85°40'36"E	10.03

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C180	31.42	20.00	90°00'00"
C185	31.42	20.00	90°00'00"

WAGON HAMMER DRIVE CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

BUFFALO HORN DRIVE / WAGON HAMMER DRIVE W FL CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

BUFFALO HORN DRIVE / WAGON HAMMER DRIVE E FL CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

EPC 2/13/2020

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)

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\road & storm plans\RD05-08.dwg
CTB FILE: COMM-TECH_D-SIZE_BW.ctb
PLOT DATE: January 23, 2020 11:25:16 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:
SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒ DETACHED ☒
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL
PAVEMENT:
TYPE: HMA☐ PCC☐
THICKNESS:
COMPOSITE SECTION:
HMA BASE

SHEET KEY

REVIEW:
STREET DESIGN:
CURB & GUTTER REVIEW DATE:
FINAL REVIEW DATE:
DRAINAGE DESIGN:
BY: DATE:
TRAFFIC DESIGN:
BY: DATE:
"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY: Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
BRIAN W. SCHULTZ
52434
1/16/20
PROFESSIONAL ENGINEER
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1"=40'		
CHECKED BY: NMS	VERT. 1"=8'	SHEET 27 OF 73	RD05

Know what's **below.** **Call** before you dig.

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C134	701.57	1040.00	38°39'03"
C260	38.55	45.00	49°05'19"
C261	215.45	45.00	274°19'01"
C262	35.69	45.00	45°26'34"

WAGON HAMMER DRIVE PLAN

BUFFALO HORN DRIVE/ STORM CASTLE COURT CURB RETURNS PLAN

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C190	31.42	20.00	90°00'00"
C195	31.42	20.00	90°00'00"

LINE TABLE		
LINE #	BEARING	DISTANCE
L186	N84°47'46"E	10.03
L187	N04°19'24"E	10.03
L188	N00°26'25"W	36.87
L190	N05°12'14"W	10.03
L191	N85°40'36"W	10.03

WAGON HAMMER DRIVE CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

BUFFALO HORN DRIVE / STORM CASTLE COURT W FL CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

BUFFALO HORN DRIVE / STORM CASTLE COURT E FL CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

EPC 2/13/2020

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)

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\road & storm plans\RD05-08.dwg
CTB FILE: COMM-TECH_D-SIZE_BW.ctb
PLOT DATE: January 23, 2020 11:25:25 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒
DETACHED ☐
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA☐ PCC☐
THICKNESS:
COMPOSITE SECTION:
HMA BASE

SHEET KEY

REVIEW:
STREET DESIGN:
CURB & GUTTER REVIEW DATE:
FINAL REVIEW DATE:
DRAINAGE DESIGN:
BY: DATE:
TRAFFIC DESIGN:
BY: DATE:

"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
KYLE M. SCHWAB
52434
PROFESSIONAL ENGINEER
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1"=40'		
CHECKED BY: NMS	VERT. 1"=8'	SHEET 28 OF 73	RD06

Know what's **below.** **Call** before you dig.

STORM CASTLE COURT PLAN

LINE TABLE		
LINE #	BEARING	DISTANCE
L139	N00°26'25"W	15.00
L140	N00°26'25"W	188.36

STORM CASTLE COURT CDS PLAN

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C147	33.67	38.83	49°40'47"
C148	225.10	46.17	279°21'34"
C149	33.67	38.83	49°40'47"

STORM CASTLE COURT CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

STORM CASTLE COURT CDS FL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
1 inch = 40 ft.

EPC 2/13/2020

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)

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\road & storm plans\RD05-08.dwg
CTB FILE: COMM-TECH_D-SIZE_BW.ctb
PLOT DATE: January 23, 2020 11:25:33 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒ DETACHED ☐
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA☐ PCC☐
THICKNESS:
COMPOSITE SECTION:
HMA ____ BASE ____

SHEET KEY

REVIEW:
STREET DESIGN:
CURB & GUTTER REVIEW _____ DATE: _____
FINAL REVIEW _____ DATE: _____
DRAINAGE DESIGN:
BY: _____ DATE: _____
TRAFFIC DESIGN:
BY: _____ DATE: _____

"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NICOLE W. SONNEK
52434
PROFESSIONAL ENGINEER
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1"=40'		
CHECKED BY: NMS	VERT. 1"=8'	SHEET 29 OF 73	RD07

Know what's below. Call before you dig.

WINDY PASS COURT PLAN

LINE TABLE		
LINE #	BEARING	DISTANCE
L141	N00°26'25"W	15.00
L142	N00°26'25"W	188.36

WINDY PASS COURT CDS PLAN

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C150	33.67	38.83	49°40'47"
C151	225.10	46.17	279°21'34"
C152	33.67	38.83	49°40'47"

WINDY PASS COURT CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

WINDY PASS COURT CDS CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
1 inch = 40 ft.

EPC 2/13/2020

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

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\road & storm plans\RD05-08.dwg
CTB FILE: COMM-TECH_D-SIZE_BW.ctb
PLOT DATE: January 23, 2020 11:25:40 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒
DETACHED ☒
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA☐ PCC☐
THICKNESS:
COMPOSITE SECTION:
HMA ____ BASE ____

SHEET KEY

REVIEW:

STREET DESIGN:

CURB & GUTTER REVIEW _____ DATE: _____

FINAL REVIEW _____ DATE: _____

DRAINAGE DESIGN:
BY: _____ DATE: _____

TRAFFIC DESIGN:
BY: _____ DATE: _____

"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:

Matrix DESIGN GROUP

SEAL

COLORADO LICENSED
NICOLE M. SCHWAB
52434
1/6/20
PROFESSIONAL ENGINEER

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1"=40'		
CHECKED BY: NMS	VERT. 1"=8'	SHEET 30 OF 73	RD08

Know what's below. Call before you dig.

LINE TABLE		
LINE #	BEARING	DISTANCE
L143	N00°00'00"E	15.00
L144	N00°00'00"E	187.33
L145	N26°34'55"W	266.89
L146	N26°34'55"W	201.11

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C135	162.38	350.00	26°34'55"

SUNDAY GULCH DRIVE PLAN

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
1 inch = 40 ft.

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
1 inch = 40 ft.

SUNDAY GULCH DRIVE/ LOOKOUT COURT CURB RETURNS PLAN

LINE TABLE		
LINE #	BEARING	DISTANCE
L213	S31°20'44"E	10.03
L214	N68°10'54"E	10.03
L216	N21°49'06"W	10.03
L217	N63°25'05"E	26.05
L218	N58°38'16"E	10.00
L232	N63°25'05"E	26.01
L234	N26°34'55"W	27.33

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C220	31.42	20.00	90°00'00"
C225	31.42	20.00	90°00'00"

SUNDAY GULCH DRIVE CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

SUNDAY GULCH DRIVE / LOOKOUT COURT SOUTH FL CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

SUNDAY GULCH DRIVE / LOOKOUT COURT NORTH FL CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

EPC 2/13/2020

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)

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\road & storm plans\RD09-12.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:26:56 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒ DETACHED ☒
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA☐ PCC☐
THICKNESS:
COMPOSITE SECTION:
HMA BASE

SHEET KEY

REVIEW:
STREET DESIGN:
CURB & GUTTER REVIEW DATE:
FINAL REVIEW DATE:
DRAINAGE DESIGN:
BY: DATE:
TRAFFIC DESIGN:
BY: DATE:

"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
52434
PROFESSIONAL ENGINEER
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1"=40'		
CHECKED BY: NMS	VERT. 1"=8'	SHEET 31 OF 73	RD09

Know what's below. Call before you dig.

SUNDAY GULCH DRIVE PLAN

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
1 inch = 40 ft.

SUNDAY GULCH DRIVE CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

LINE TABLE		
LINE #	BEARING	DISTANCE
L147	N12°47'44"E	30.03
L148	N12°47'44"E	190.06

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C136	446.72	650.00	39°22'39"

EPC 2/13/2020

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ½" AULM. CAP PLS 10377)

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\road & storm plans\RD09-12.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:27:02 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒ DETACHED ☒
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL
PAVEMENT: TYPE: HMA☐ PCC☐ THICKNESS:
COMPOSITE SECTION: HMA BASE

SHEET KEY

REVIEW:
STREET DESIGN:
CURB & GUTTER REVIEW _____ DATE: _____
FINAL REVIEW _____ DATE: _____
DRAINAGE DESIGN: BY: _____ DATE: _____
TRAFFIC DESIGN: BY: _____ DATE: _____
*Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY: Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
KYLE W. SCHWIER
52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

DESIGNED BY: NMS
DRAWN BY: TJC
CHECKED BY: NMS
SCALE HORIZ. 1"=40' VERT. 1"=8'
DATE ISSUED: SEPTEMBER, 2019
SHEET 32 OF 73
DRAWING No. RD10

Know what's below. Call before you dig.

LOOKOUT COURT PLAN

LINE TABLE		
LINE #	BEARING	DISTANCE
L149	N63°25'05"E	15.00
L150	N63°25'05"E	282.97

LOOKOUT COURT CDS PLAN

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C153	33.67	38.83	49°40'47"
C154	225.10	46.17	279°21'34"
C155	33.67	38.83	49°40'47"

LOOKOUT COURT CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

LOOKOUT COURT CDS CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

EPC 2/13/2020

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

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\road & storm plans\RD09-12.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:27:10 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒
DETACHED ☒
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA☐ PCC☐
THICKNESS:

COMPOSITE SECTION:
HMA ____ BASE ____

SHEET KEY

REVIEW:

STREET DESIGN:

CURB & GUTTER REVIEW _____ DATE: _____

FINAL REVIEW _____ DATE: _____

DRAINAGE DESIGN:
BY: _____ DATE: _____

TRAFFIC DESIGN:
BY: _____ DATE: _____

"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:

Matrix DESIGN GROUP

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

SEAL

COLORADO LICENSED
NICOLE M. SCHWEIZER
52434
PROFESSIONAL ENGINEER
1/6/20

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1"=40'		
CHECKED BY: NMS	VERT. 1"=8'	SHEET 33 OF 73	RD11

Know what's below. Call before you dig.

FALLING ROCK DRIVE PLAN

LINE TABLE		
LINE #	BEARING	DISTANCE
L151	S15°53'58"E	44.94

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C137	155.60	940.00	9°29'04"
C138	120.50	940.00	7°20'42"
C139	276.67	300.00	52°50'26"
C140	82.92	300.00	15°50'13"

FALLING ROCK DRIVE CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

EPC 2/13/2020

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ½" AULM. CAP PLS 10377)

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\road & storm plans\RD09-12.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:27:16 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒
DETACHED ☒
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA☐ PCC☐
THICKNESS:

COMPOSITE SECTION:
HMA ____ BASE ____

SHEET KEY

REVIEW:
STREET DESIGN:
CURB & GUTTER REVIEW _____ DATE: _____
FINAL REVIEW _____ DATE: _____
DRAINAGE DESIGN:
BY: _____ DATE: _____
TRAFFIC DESIGN:
BY: _____ DATE: _____

"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
STEVE M. SCHULTZ
32434
PROFESSIONAL ENGINEER
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

DESIGNED BY: NMS
DRAWN BY: TJC
CHECKED BY: NMS
SCALE HORIZ. 1"=40' VERT. 1"=8'
DATE ISSUED: SEPTEMBER, 2019
SHEET 34 OF 73
DRAWING No. RD12

FALLING ROCK DRIVE CDS PLAN

LINE TABLE		
LINE #	BEARING	DISTANCE

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C156	32.45	40.00	46°29'11"
C157	72.23	46.17	89°38'41"
C158	37.17	40.00	53°14'57"

FALLING ROCK CDS FL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

BIG JOHNSON DRIVE PLAN

LINE TABLE		
LINE #	BEARING	DISTANCE
L152	N58°15'49"E	15.00
L153	N58°15'49"E	97.16
L154	N00°18'57"W	18.70
L155	N00°18'57"W	60.00

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C141	306.72	300.00	58°34'46"

BIG JOHNSON CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

EPC 2/13/2020

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

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\road & storm plans\RD13-15.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:28:25 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒
DETACHED ☒
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA☐ PCC☐
THICKNESS:
COMPOSITE SECTION:
HMA BASE

SHEET KEY

REVIEW:
STREET DESIGN:
CURB & GUTTER REVIEW DATE:
FINAL REVIEW DATE:
DRAINAGE DESIGN:
BY: DATE:
TRAFFIC DESIGN:
BY: DATE:

"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NICOLE M. SCHALL
52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

DESIGNED BY: NMS
DRAWN BY: TJC
CHECKED BY: NMS
SCALE HORIZ. 1"=40' VERT. 1"=8'
DATE ISSUED: SEPTEMBER, 2019
SHEET 35 OF 73
DRAWING No. RD13

SUNDAY GULCH DRIVE / FALLING ROCK DRIVE CURB RETURNS PLAN

LINE TABLE		
LINE #	BEARING	DISTANCE
L219	S07°03'46"W	10.00
L220	S74°26'51"E	14.10
L221	N17°36'47"E	9.92
L222	N16°33'38"E	9.96
L223	S84°27'46"E	10.00
L224	S08°01'55"W	10.03
L225	S76°02'58"E	10.00

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C229	17.57	957.00	1°03'07"
C230	30.49	20.00	87°20'00"
C235	32.30	20.00	92°32'26"
C240	30.85	20.00	88°23'08"
C245	32.29	20.00	92°29'29"

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
1 inch = 40 ft.

SUNDAY GULCH DRIVE / FALLING ROCK DRIVE NW FL CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

SUNDAY GULCH DRIVE / FALLING ROCK DRIVE SW FL CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

SUNDAY GULCH DRIVE / FALLING ROCK DRIVE NE FL CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

SUNDAY GULCH DRIVE / FALLING ROCK DRIVE SE FL CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

BIG JOHNSON DRIVE/ FALLING ROCK DRIVE CURB RETURNS PLAN

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
1 inch = 40 ft.

LINE TABLE		
LINE #	BEARING	DISTANCE
L226	S42°47'01"E	10.00
L227	N58°15'49"E	31.77
L228	N63°01'21"E	10.00
L229	N19°47'03"W	10.08
L230	N58°15'49"E	29.96
L231	N53°30'09"E	10.00

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C250	29.22	20.00	83°41'48"
C255	29.22	20.00	83°41'48"

BIG JOHNSON DRIVE / FALLING ROCK DRIVE NORTH FL CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

BIG JOHNSON DRIVE / FALLING ROCK DRIVE SOUTH FL CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

EPC 2/13/2020

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)

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\road & storm plans\RD13-15.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:28:36 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒ DETACHED ☐
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL
PAVEMENT:
TYPE: HMA☐ PCC☐
THICKNESS:
COMPOSITE SECTION:
HMA BASE

SHEET KEY

REVIEW:
STREET DESIGN:
CURB & GUTTER REVIEW DATE:
FINAL REVIEW DATE:
DRAINAGE DESIGN:
BY: DATE:
TRAFFIC DESIGN:
BY: DATE:
Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NOLE M. SCHAFER
52434
PROFESSIONAL ENGINEER
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

DESIGNED BY: NMS
DRAWN BY: TJC
CHECKED BY: NMS
SCALE HORIZ. 1"=40' VERT. 1"=8'
DATE ISSUED: SEPTEMBER, 2019
SHEET 36 OF 73
DRAWING No. RD14

Know what's **below.** **Call** before you dig.

BUFFALO HORN DRIVE / WINDY PASS COURT CURB RETURNS PLAN

LINE TABLE		
LINE #	BEARING	DISTANCE
L193	N84°47'46"E	10.03
L194	N04°19'24"E	10.03
L195	N00°26'25"W	29.25
L232	S05°12'14"E	10.03
L233	S85°40'36"E	10.03

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C200	31.42	20.00	90°00'00"
C260	31.42	20.00	90°00'00"

BUFFALO HORN DRIVE / SUNDAY GULCH DRIVE CURB RETURNS PLAN

LINE TABLE		
LINE #	BEARING	DISTANCE
L200	N89°33'35"E	14.00
L201	N84°47'46"E	10.03
L202	N00°00'00"E	20.68
L204	N04°46'45"E	10.00
L205	N00°00'00"E	16.39
L206	S00°00'00"E	17.11
L207	S04°46'47"E	10.00
L208	S00°00'00"E	19.39
L210	S85°40'36"E	10.03
L211	N89°33'35"E	5.00

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C210	31.26	20.00	89°33'35"
C215	31.57	20.00	90°26'25"

BUFFALO HORN DRIVE / WINDY PASS COURT WEST FL CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

BUFFALO HORN DRIVE / WINDY PASS COURT EAST FL CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

BUFFALO HORN DRIVE / SUNDAY GULCH DRIVE WEST FL CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

BUFFALO HORN DRIVE / SUNDAY GULCH DRIVE EAST FL CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

EPC 2/13/2020

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 (2½" AULM. CAP PLS 17664) TO THE N¼ CORNER OF SAID SECTION 9 (3¼" AULM. CAP PLS 10377)

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\road & storm plans\RD13-15.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:28:46 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒
DETACHED ☒
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA☐ PCC☐
THICKNESS:
COMPOSITE SECTION:
HMA BASE

SHEET KEY

REVIEW:
STREET DESIGN:
CURB & GUTTER REVIEW DATE:
FINAL REVIEW DATE:
DRAINAGE DESIGN:
BY: DATE:
TRAFFIC DESIGN:
BY: DATE:

"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NICOLE M. SONNEK
52434
PROFESSIONAL ENGINEER
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

DESIGNED BY: NMS
DRAWN BY: TJC
CHECKED BY: NMS
SCALE HORIZ. 1"=40' VERT. 1"=8'
DATE ISSUED: SEPTEMBER, 2019
SHEET 37 OF 73
DRAWING No. RD15

Know what's **below.** **Call** before you dig.

DETAIL D
BUFFALO HORN DRIVE/
SIDEWINDER DRIVE
PED RAMP DETAILS

DETAIL E
BUFFALO HORN DRIVE/
LAZY RIDGE DRIVE
PED RAMP DETAILS

N

GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1 inch = 10 ft.

EPC 2/13/2020

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)

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\road & storm plans\RD16-21.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:29:26 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:
SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒
DETACHED ☒
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL
PAVEMENT:
TYPE: HMA ☐ PCC ☐
THICKNESS:
COMPOSITE SECTION:
HMA BASE

SHEET KEY

REVIEW:
STREET DESIGN:
CURB & GUTTER REVIEW DATE:
FINAL REVIEW DATE:
DRAINAGE DESIGN:
BY: DATE:
TRAFFIC DESIGN:
BY: DATE:
"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
BRIDGE W. SCHULTZ
52434
PROFESSIONAL ENGINEER
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

INTERSECTION DETAILS

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1" = 10'		
CHECKED BY: NMS	VERT. N/A	SHEET 38 OF 73	INT01

Know what's below. Call before you dig.

DETAIL F
BUFFALO HORN DRIVE/
WAGON HAMMER DRIVE
PED RAMP DETAILS

DETAIL G
BUFFALO HORN DRIVE/
STORM CASTLE COURT
PED RAMP DETAILS

N

GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1 inch = 10 ft.

EPC 2/13/2020

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ½" AULM. CAP PLS 10377)

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\road & storm plans\RD16-21.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:29:32 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:
SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒
DETACHED ☒
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL
PAVEMENT:
TYPE: HMA☐ PCC☐
THICKNESS:
COMPOSITE SECTION:
HMA BASE

SHEET KEY

REVIEW:
STREET DESIGN:
CURB & GUTTER REVIEW DATE:
FINAL REVIEW DATE:
DRAINAGE DESIGN:
BY: DATE:
TRAFFIC DESIGN:
BY: DATE:
"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
KYLE M. SCHWEIZER
No. 52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

INTERSECTION DETAILS

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1" = 10'		
CHECKED BY: NMS	VERT. N/A	SHEET 39 OF 73	INT02

44

Know what's **below.** **Call** before you dig.

DETAIL H
BUFFALO HORN DRIVE/
WINDY PASS COURT
PED RAMP DETAILS

DETAIL I
BUFFALO HORN DRIVE/
SUNDAY GULCH DRIVE
PED RAMP DETAILS

N

GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1 inch = 10 ft.

EPC 2/13/2020

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ½" AULM. CAP PLS 10377)

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\road & storm plans\RD16-21.dwg
CTB FILE: ---
PLOT DATE: January 23, 2020 11:29:39 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:
SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒ DETACHED ☒
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL
PAVEMENT:
TYPE: HMA☐ PCC☐
THICKNESS:
COMPOSITE SECTION:
HMA ____ BASE ____

SHEET KEY

REVIEW:
STREET DESIGN:
CURB & GUTTER REVIEW _____ DATE: _____
FINAL REVIEW _____ DATE: _____
DRAINAGE DESIGN:
BY: _____ DATE: _____
TRAFFIC DESIGN:
BY: _____ DATE: _____
"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
BRIAN W. SCHUMP
52434
PROFESSIONAL ENGINEER
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

INTERSECTION DETAILS

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1" = 10'		
CHECKED BY: NMS	VERT. N/A	SHEET 40 OF 73	INT03

Know what's **below.** **Call** before you dig.

DETAIL J
WAGON HAMMER DRIVE/
TRACT G TRAIL
PED RAMP DETAILS

DETAIL K
LOOKOUT DRIVE/
SUNDAY GULCH DRIVE
PED RAMP DETAILS

N

GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1 inch = 10 ft.

EPC 2/13/2020

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)

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\road & storm plans\RD16-21.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:29:45 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:
SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒ DETACHED ☒
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL
PAVEMENT:
TYPE: HMA☐ PCC☐
THICKNESS:
COMPOSITE SECTION:
HMA BASE

SHEET KEY

REVIEW:
STREET DESIGN:
CURB & GUTTER REVIEW DATE:
FINAL REVIEW DATE:
DRAINAGE DESIGN:
BY: DATE:
TRAFFIC DESIGN:
BY: DATE:
"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NICOLE M. SCHNELL
52434
1/6/20
PROFESSIONAL ENGINEER

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

INTERSECTION DETAILS

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1" = 10'		
CHECKED BY: NMS	VERT. N/A	SHEET 41 OF 73	INT04

Know what's below. Call before you dig.

DETAIL L
SUNDAY GULCH DRIVE/
FALLING ROCK DRIVE
PED RAMP DETAILS

DETAIL M
FALLING ROCK DRIVE/
BIG JOHNSON DRIVE
PED RAMP DETAILS

N

GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1 inch = 10 ft.

EPC 2/13/2020

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)

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\road & storm plans\RD16-21.dwg
CTB FILE: ---
PLOT DATE: January 23, 2020 11:29:51 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:
SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒
DETACHED ☒
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL
PAVEMENT:
TYPE: HMA☐ PCC☐
THICKNESS:
COMPOSITE SECTION:
HMA ____ BASE ____

SHEET KEY

REVIEW:
STREET DESIGN:
CURB & GUTTER REVIEW _____ DATE: _____
FINAL REVIEW _____ DATE: _____
DRAINAGE DESIGN:
BY: _____ DATE: _____
TRAFFIC DESIGN:
BY: _____ DATE: _____
"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
CHRISTIE M. SCHAFER
52434
PROFESSIONAL ENGINEER
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

INTERSECTION DETAILS

DESIGNED BY: NMS
DRAWN BY: TJC
CHECKED BY: NMS
SCALE HORIZ. 1" = 10' VERT. N/A
DATE ISSUED: SEPTEMBER, 2019
SHEET 42 OF 73
DRAWING No. INT05

Know what's **below.** **Call** before you dig.

GRAPHIC SCALE

50 0 25 50 100

(IN FEET)
1 inch = 50 ft.

EPC 2/13/2020

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 (2½" AULM. CAP PLS 17664) TO THE N¼ CORNER OF SAID SECTION 9 (3½" AULM. CAP PLS 10377)

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\road & storm plans\SN01.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:30:13 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒
DETACHED ☒
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA☐ PCC☐
THICKNESS:

COMPOSITE SECTION:
HMA BASE

SHEET KEY

REVIEW:

STREET DESIGN:

CURB & GUTTER REVIEW _____ DATE: _____

FINAL REVIEW _____ DATE: _____

DRAINAGE DESIGN:
BY: _____ DATE: _____

TRAFFIC DESIGN:
BY: _____ DATE: _____

"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:

Matrix DESIGN GROUP

SEAL

COLORADO LICENSED
NICOLE M. SONNEK
52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

FILING 1 SIGNAGE PLAN

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1" = 50'		
CHECKED BY: NMS	VERT. N/A	SHEET 43 OF 73	SN01

Know what's below. Call before you dig.

GRAPHIC SCALE

50 0 25 50 100

(IN FEET)
1 inch = 50 ft.

EPC 2/13/2020

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 (2½" AULM. CAP PLS 17664) TO THE N¼ CORNER OF SAID SECTION 9 (3½" AULM. CAP PLS 10377)

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\road & storm plans\SN01.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:30:15 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒
DETACHED ☒
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA☐ PCC☐
THICKNESS:

COMPOSITE SECTION:
HMA BASE

SHEET KEY

REVIEW:

STREET DESIGN:

CURB & GUTTER REVIEW DATE:

FINAL REVIEW DATE:

DRAINAGE DESIGN:
BY: DATE:

TRAFFIC DESIGN:
BY: DATE:

"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:

Matrix DESIGN GROUP

SEAL

COLORADO LICENSED
CHRISTIE M. SCHULTZ
52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

FILING 1 SIGNAGE PLAN

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1" = 50'		
CHECKED BY: NMS	VERT. N/A	SHEET 44 OF 73	SN02

Know what's below. Call before you dig.

N

GRAPHIC SCALE

50 0 25 50 100

(IN FEET)
1 inch = 50 ft.

EPC 2/13/2020

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ½" AULM. CAP PLS 10377)

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\road & storm plans\SN01.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:30:18 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒
DETACHED ☒
DESIGN SPEED: 25 MPH
CURB TYPE ☒A ☐B ☒C ☐D ☐E
ROW WIDTH 50' FL-FL 32.33'
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA☐ PCC☐
THICKNESS:

COMPOSITE SECTION:
HMA ____ BASE ____

SHEET KEY

REVIEW:

STREET DESIGN:

CURB & GUTTER REVIEW _____ DATE: _____

FINAL REVIEW _____ DATE: _____

DRAINAGE DESIGN:
BY: _____ DATE: _____

TRAFFIC DESIGN:
BY: _____ DATE: _____

"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:

Matrix DESIGN GROUP

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

SEAL

COLORADO LICENSED
NICOLE M. SCHWEIZER
52434
PROFESSIONAL ENGINEER
1/6/20

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

FILING 1 SIGNAGE PLAN

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1" = 50'		
CHECKED BY: NMS	VERT. N/A	SHEET 45 OF 73	SN03

Know what's **below.** **Call** before you dig.

EPC 2/13/2020

REFERENCE DRAWINGS

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\road & storm plans\SD00.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:33:03 AM
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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
REGISTERED
No. 52434
PROFESSIONAL ENGINEER
2/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

STORM SHEET KEY

DESIGNED BY: KMZ	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: LCB	HORIZ. 1" = 150'		
CHECKED BY: NMS	VERT. N.A.	SHEET 46 OF 73	SDX1

Know what's below. Call before you dig.

GRADE SWALE AT 0.2% TO WEST POND. FOR SWALE AND POND INFO SEE TRAILS AT ASPEN RIDGE FILING 1 GRADING & EROSION CONTROL PLAN AND WEST POND PLANS.

TRIPLE TREE STORM MAIN PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 73	N47°25'33"E	23.2'	0.50%	30" RCP
PIPE - 74	N00°13'35"W	177.7'	0.30%	30" RCP

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
FES - 1	24" FES	RIM = 5872.60 PIPE - 74 INV IN (30") = 5870.67	N: 5654.37 E: 11865.23
INLET 1-O	10' SUMP TYPE R INLET	RIM = 5875.95 PIPE - 73 INV OUT (30") = 5871.51	N: 5460.93 E: 11848.83
MH - 36	4' TYPE II MH	RIM = 5876.17 PIPE - 73 INV IN (30") = 5871.40 PIPE - 74 INV OUT (30") = 5871.20	N: 5476.64 E: 11865.94

NOTES:
1. ALL STATION, OFFSET, AND NORTHING/EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
2. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
3. ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
4. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES,
5. TOP OF BOX ELEVATIONS GIVEN FOR CDOT TYPE R INLETS REFER TO THE COUNTY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.
6. ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
7. PIPES OF DIFFERENT SIZES ARE TO BE MATCHED TO THE CROWN OF THE INSIDE WALL OF PIPE.
8. ALL TYPE C INLETS ARE TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD TYPE M-604-10.
9. PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE."
10. SECTIONS OF STORM PIPE WITH PRESSURE HEAD DURING THE 100 YR STORM SHALL USE WATERTIGHT JOINTS WITH A 100 YR SERVICE LIFE PER ECM 3.3.1.B.2.

REFERENCE DRAWINGS

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\road & storm plans\SD01-05.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:35:22 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
JACQUE W. SCHWEIGERT
PE 52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

STORM DRAIN PLAN & PROFILE

EPC 2/13/2020

DESIGNED BY: KMZ	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: LCB	HORIZ. 1" = 40'		
CHECKED BY: NMS	VERT. 1" = 8'	SHEET 47 OF 73	SD01

Know what's below. Call before you dig.

BUFFALO HORN DRIVE MAIN PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'

UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
2	N 5,448.39 E 12,592.08	12" PVC WATER 5862.36	24" RCP STORM 5864.36	2.00'
29	N 5,438.39 E 12,592.15	8" PVC SAN 5852.77	24" RCP STORM 5864.27	11.50'

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 44	S00°26'25"E	59.2'	0.98%	24" RCP
PIPE - 45	N89°33'35"E	270.0'	3.78%	24" RCP
PIPE - 49	N89°33'35"E	500.0'	3.27%	30" RCP

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
MH - 21	4' TYPE II MH	RIM = 5869.89 PIPE - 42 INV IN (18") = 5865.48 PIPE - 43 INV IN (18") = 5865.48 PIPE - 44 INV OUT (24") = 5864.98	N: 5486.86 E: 12591.78
MH - 22	4' TYPE II MH	RIM = 5870.95 PIPE - 44 INV IN (24") = 5864.40 PIPE - 45 INV OUT (24") = 5864.10	N: 5427.64 E: 12592.24
MH - 23	4' TYPE II 1' DROP MH	RIM = 5860.23 PIPE - 45 INV IN (24") = 5853.90 PIPE - 46 INV IN (24") = 5853.90 PIPE - 49 INV OUT (30") = 5852.90	N: 5429.71 E: 12862.23

NOTES:
1. ALL STATION, OFFSET, AND NORTHING/EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
2. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
3. ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
4. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES,
5. TOP OF BOX ELEVATIONS GIVEN FOR CDOT TYPE R INLETS REFER TO THE COUNTY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.
6. ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
7. PIPES OF DIFFERENT SIZES ARE TO BE MATCHED TO THE CROWN OF THE INSIDE WALL OF PIPE.
8. ALL TYPE C INLETS ARE TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD TYPE M-604-10.
9. PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE."
10. SECTIONS OF STORM PIPE WITH PRESSURE HEAD DURING THE 100 YR STORM SHALL USE WATERTIGHT JOINTS WITH A 100 YR SERVICE LIFE PER ECM 3.3.1.B.2.

REFERENCE DRAWINGS

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\road & storm plans\SD01-05.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:35:38 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 (2½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NICOLE M. SCHWEIZER
52434
PROFESSIONAL ENGINEER
5/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

STORM DRAIN PLAN & PROFILE

EPC 2/13/2020

DESIGNED BY: KMZ	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: LCB	HORIZ. 1" = 40'	SHEET 48 OF 73	SD02
CHECKED BY: NMS	VERT. 1" = 8'		

Know what's below. Call before you dig.

BUFFALO HORN DRIVE MAIN PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'

UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
10	N 5,459.05 E 13,980.01	12" PVC WATER 5819.73	36" RCP STORM 5821.20	1.47'
26	N 5,435.79 E 13,747.75	8" PVC WATER 5825.45	30" RCP STORM 5827.45	2.00'
33	N 5,449.06 E 13,979.41	8" PVC SAN 5812.75	36" RCP STORM 5821.31	8.56'

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 58	N03°02'37"W	108.3'	0.60%	42" RCP
PIPE - 59	N27°39'23"E	16.2'	0.55%	42" RCP
PIPE - 56	N89°40'08"E	252.5'	1.95%	30" RCP
PIPE - 49	N89°33'35"E	500.0'	3.27%	30" RCP
PIPE - 52	N89°40'05"E	364.1'	2.25%	30" RCP
PIPE - 57	N03°16'52"E	57.2'	2.96%	42" RCP

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
INLET 11-H	10' SUMP TYPE R INLET	RIM = 5827.38 PIPE - 57 INV IN (42") = 5820.53 PIPE - 58 INV OUT (42") = 5820.23	N: 5494.22 E: 13982.02
MH - 25	4' TYPE II MH	RIM = 5841.80 PIPE - 49 INV IN (30") = 5836.53 PIPE - 50 INV IN (24") = 5836.93 PIPE - 51 INV IN (24") = 5836.93 PIPE - 52 INV OUT (30") = 5836.43	N: 5433.56 E: 13362.21
MH - 26	4' TYPE II MH	RIM = 5835.17 PIPE - 52 INV IN (30") = 5828.25 PIPE - 53 INV IN (24") = 5828.75 PIPE - 56 INV OUT (30") = 5828.15	N: 5435.67 E: 13726.25
MH - 28	6.33' X 6.33' TYPE I MH	RIM = 5828.14 PIPE - 56 INV IN (30") = 5823.22 PIPE - 60 INV IN (30") = 5823.22 PIPE - 57 INV OUT (42") = 5822.22	N: 5437.13 E: 13978.74
MH - 29	6.33' X 6.33' TYPE I MH	RIM = 5825.91 PIPE - 58 INV IN (42") = 5819.58 PIPE - 59 INV OUT (42") = 5819.28	N: 5602.37 E: 13976.27

NOTES:
1. ALL STATION, OFFSET, AND NORTHING/EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
2. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
3. ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
4. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES,
5. TOP OF BOX ELEVATIONS GIVEN FOR CDOT TYPE R INLETS REFER TO THE COUNTY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.
6. ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
7. PIPES OF DIFFERENT SIZES ARE TO BE MATCHED TO THE CROWN OF THE INSIDE WALL OF PIPE.
8. ALL TYPE C INLETS ARE TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD TYPE M-604-10.
9. PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE."
10. SECTIONS OF STORM PIPE WITH PRESSURE HEAD DURING THE 100 YR STORM SHALL USE WATERTIGHT JOINTS WITH A 100 YR SERVICE LIFE PER ECM 3.3.1.B.2.

REFERENCE DRAWINGS

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\road & storm plans\SD01-05.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:35:57 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NICOLE M. SCHWYHART
52434
PROFESSIONAL ENGINEER
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

STORM DRAIN PLAN & PROFILE

EPC 2/13/2020

DESIGNED BY: KMZ	SCALE HORIZ. 1" = 40'	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: LCB	VERT. 1" = 8'	SHEET 49 OF 73	SD03
CHECKED BY: NMS			

UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
4	N 5,450.46 E 12,862.07	12" PVC WATER 5851.76	24" RCP STORM 5853.76	2.00'
7	N 5,454.33 E 13,365.05	12" PVC WATER 5835.33	24" RCP STORM 5836.78	1.45'
12	N 5,487.91 E 12,882.53	8" PVC WATER 5852.57	18" RCP STORM 5854.57	2.00'
25	N 5,488.93 E 12,612.52	8" PVC WATER 5863.38	18" RCP STORM 5865.38	2.00'
30	N 5,440.41 E 12,862.12	8" PVC SAN 5846.23	24" RCP STORM 5853.64	7.41'
31	N 5,444.33 E 13,365.12	8" PVC SAN 5829.51	24" RCP STORM 5837.34	7.83'
34	N 5,487.95 E 12,602.18	8" PVC SAN 5852.87	18" RCP STORM 5865.42	12.55'
35	N 5,486.13 E 12,872.55	8" PVC SAN 5846.52	18" RCP STORM 5854.46	7.94'

Know what's **below.**
Call before you dig.

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 42	S88°38'36"E	8.4'	1.00%	18" RCP
PIPE - 50	N00°26'25"W	29.8'	0.50%	24" RCP
PIPE - 51	S00°30'03"W	8.4'	0.50%	24" RCP
PIPE - 46	N00°26'25"W	54.5'	0.50%	24" RCP
PIPE - 47	N73°17'59"W	8.8'	0.50%	18" RCP
PIPE - 48	N79°52'38"E	30.4'	0.50%	18" RCP
PIPE - 43	N84°18'03"E	30.0'	0.50%	18" RCP

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
INLET 1-H	10' SUMP TYPE R INLET	RIM = 5870.20 PIPE - 42 INV OUT (18") = 5865.56	N: 5487.06 E: 12583.36
INLET 2-H	5' SUMP TYPE R INLET	RIM = 5870.18 PIPE - 43 INV OUT (18") = 5865.63	N: 5489.84 E: 12621.68
INLET 3-H	10' SUMP TYPE R INLET	RIM = 5859.46 PIPE - 47 INV OUT (18") = 5854.72	N: 5486.74 E: 12853.37
INLET 4-H	5' SUMP TYPE R INLET	RIM = 5859.31 PIPE - 48 INV OUT (18") = 5854.82	N: 5489.55 E: 12891.69
INLET 5-H	10' ON-GRADE TYPE R INLET	RIM = 5841.99 PIPE - 50 INV OUT (24") = 5837.08	N: 5463.49 E: 13364.98
INLET 6-H	10' ON-GRADE TYPE R INLET	RIM = 5841.99 PIPE - 51 INV OUT (24") = 5836.97	N: 5425.15 E: 13365.13
MH - 21	4' TYPE II MH	RIM = 5869.89 PIPE - 42 INV IN (18") = 5865.48 PIPE - 43 INV IN (18") = 5865.48 PIPE - 44 INV OUT (24") = 5864.98	N: 5486.86 E: 12591.78
MH - 23	4' TYPE II 1' DROP MH	RIM = 5860.23 PIPE - 45 INV IN (24") = 5853.90 PIPE - 46 INV IN (24") = 5853.90 PIPE - 49 INV OUT (30") = 5852.90	N: 5429.71 E: 12862.23
MH - 24	4' TYPE II MH	RIM = 5859.17 PIPE - 47 INV IN (18") = 5854.67 PIPE - 48 INV IN (18") = 5854.67 PIPE - 46 INV OUT (24") = 5854.17	N: 5484.21 E: 12861.81
MH - 25	4' TYPE II MH	RIM = 5841.80 PIPE - 49 INV IN (30") = 5836.53 PIPE - 50 INV IN (24") = 5836.93 PIPE - 51 INV IN (24") = 5836.93 PIPE - 52 INV OUT (30") = 5836.43	N: 5433.56 E: 13362.21

LAZY RIDGE DRIVE LATERAL 1 PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'

WAGON HAMMER DRIVE LATERAL 1 PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'

WAGON HAMMER DRIVE LATERAL 2 PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'

BUFFALO HORN DRIVE LATERAL 1 PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'

NOTES:
1. ALL STATION, OFFSET, AND NORTHING/EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
2. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
3. ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
4. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES,
5. TOP OF BOX ELEVATIONS GIVEN FOR CDOT TYPE R INLETS REFER TO THE COUNTY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.
6. ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
7. PIPES OF DIFFERENT SIZES ARE TO BE MATCHED TO THE CROWN OF THE INSIDE WALL OF PIPE.
8. ALL TYPE C INLETS ARE TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD TYPE M-604-10.
9. PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE."
10. SECTIONS OF STORM PIPE WITH PRESSURE HEAD DURING THE 100 YR STORM SHALL USE WATERTIGHT JOINTS WITH A 100 YR SERVICE LIFE PER ECM 3.3.1.B.2.

REFERENCE DRAWINGS

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\road & storm plans\SD01-05.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:36:35 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 (2½" AULM. CAP PLS 17664) TO THE N¼ CORNER OF SAID SECTION 9 (3¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NICOLE M. SCHWEGEL
52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

STORM DRAIN PLAN & PROFILE

EPC 2/13/2020

DESIGNED BY: KMZ	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: LCB	HORIZ. 1" = 40'	SHEET 50 OF 73	SD04
CHECKED BY: NMS	VERT. 1" = 8'		

Know what's below. Call before you dig.

SUNDAY GULCH DRIVE LATERAL 1 PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'

SUNDAY GULCH DRIVE LATERAL 2 PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'

N

GRAPHIC SCALE
(IN FEET)
1 inch = 40 ft.

UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
28	N 5,494.09 E 13,747.74	8" PVC WATER 5827.80	18" RCP STORM 5830.12	2.32'
32	N 5,447.15 E 13,727.17	8" PVC SAN 5816.47	24" RCP STORM 5828.59	12.12
37	N 5,494.09 E 13,737.52	8" PVC SAN 5815.51	18" RCP STORM 5830.03	14.52'
49	N 5,457.28 E 13,726.12	12" PVC WATER 5826.41	24" RCP STORM 5828.82	2.41'

BUFFALO HORN DRIVE LATERAL 2 PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
FES - 2	24" FES	RIM = 5831.49 PIPE - 62 INV OUT (24") = 5829.16	N: 5302.70 E: 13539.07
INLET 7-H	10' ON-GRADE TYPE R INLET	RIM = 5835.85 PIPE - 54 INV OUT (18") = 5830.18	N: 5494.09 E: 13718.57
INLET 8-H	10' ON-GRADE TYPE R INLET	RIM = 5835.43 PIPE - 55 INV OUT (18") = 5830.41	N: 5494.09 E: 13756.91
INLET 9-H	TYPE C INLET WITH PEDESTRIAN GRATE	RIM = 5828.69 PIPE - 62 INV IN (24") = 5824.60 PIPE - 61 INV OUT (30") = 5824.10	N: 5306.92 E: 13998.54
INLET 10-H	5' SUMP TYPE R INLET	RIM = 5829.03 PIPE - 61 INV IN (30") = 5823.63 PIPE - 60 INV OUT (30") = 5823.43	N: 5400.12 E: 13998.75
MH - 26	4' TYPE II MH	RIM = 5835.17 PIPE - 52 INV IN (30") = 5828.25 PIPE - 53 INV IN (24") = 5828.75 PIPE - 56 INV OUT (30") = 5828.15	N: 5435.67 E: 13726.25
MH - 27	4' TYPE II MH	RIM = 5835.38 PIPE - 54 INV IN (18") = 5830.12 PIPE - 55 INV IN (18") = 5830.12 PIPE - 53 INV OUT (24") = 5829.62	N: 5494.09 E: 13726.24
MH - 28	6.33' X 6.33' TYPE I MH	RIM = 5828.14 PIPE - 56 INV IN (30") = 5823.22 PIPE - 60 INV IN (30") = 5823.22 PIPE - 57 INV OUT (42") = 5822.22	N: 5437.13 E: 13978.74

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 53	N00°00'29"W	58.4'	1.49%	24" RCP
PIPE - 54	N90°00'00"W	7.7'	0.78%	18" RCP
PIPE - 55	N90°00'00"E	30.7'	0.95%	18" RCP
PIPE - 60	S28°23'40"E	42.1'	0.50%	30" RCP
PIPE - 61	S00°07'35"W	93.2'	0.50%	30" RCP
PIPE - 62	S89°28'24"W	459.5'	0.99%	24" RCP

NOTES:
1. ALL STATION, OFFSET, AND NORTHING/EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
2. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
3. ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
4. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES,
5. TOP OF BOX ELEVATIONS GIVEN FOR CDOT TYPE R INLETS REFER TO THE COUNTY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.
6. ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
7. PIPES OF DIFFERENT SIZES ARE TO BE MATCHED TO THE CROWN OF THE INSIDE WALL OF PIPE.
8. ALL TYPE C INLETS ARE TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD TYPE M-604-10.
9. PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE."
10. SECTIONS OF STORM PIPE WITH PRESSURE HEAD DURING THE 100 YR STORM SHALL USE WATERTIGHT JOINTS WITH A 100 YR SERVICE LIFE PER ECM 3.3.1.B.2.

REFERENCE DRAWINGS

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\road & storm plans\SD01-05.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:37:02 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
JESSE W. SCHWAB
52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

STORM DRAIN PLAN & PROFILE

EPC 2/13/2020

DESIGNED BY: KMZ	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: LCB	HORIZ. 1" = 40'	SHEET 51 OF 73	SD05
CHECKED BY: NMS	VERT. 1" = 8'		

Know what's below. Call before you dig.

UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
47	N 8,155.02 E 12,702.00	12" PVC WATER 5736.19	24" RCP STORM 5738.19	2.00'

LEGACY HILL DRIVE STORM MAIN PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 1	S15°28'07"E	168.3'	3.36%	24" RCP
PIPE - 2	S16°48'16"E	488.9'	2.70%	24" RCP
PIPE - 9	S15°32'08"E	444.0'	3.00%	30" RCP

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
INLET 1-OS	24" FES	RIM = 5926.58 PIPE - 1 INV OUT (24") = 5924.25	N: 8759.66 E: 12523.50
MH - 1	4' TYPE II 1' DROP MH	RIM = 5924.68 PIPE - 1 INV IN (24") = 5918.60 PIPE - 2 INV OUT (24") = 5917.60	N: 8597.45 E: 12568.39
MH - 2	4' TYPE II STM MH	RIM = 5914.37 PIPE - 2 INV IN (24") = 5904.41 PIPE - 3 INV IN (30") = 5903.91 PIPE - 6 INV IN (24") = 5904.41 PIPE - 9 INV OUT (30") = 5903.41	N: 8129.44 E: 12709.73

NOTES:
1. ALL STATION, OFFSET, AND NORTHING/EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
2. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
3. ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
4. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES,
5. TOP OF BOX ELEVATIONS GIVEN FOR CDOT TYPE R INLETS REFER TO THE COUNTY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.
6. ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
7. PIPES OF DIFFERENT SIZES ARE TO BE MATCHED TO THE CROWN OF THE INSIDE WALL OF PIPE.
8. ALL TYPE C INLETS ARE TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD TYPE M-604-10.
9. PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE."
10. SECTIONS OF STORM PIPE WITH PRESSURE HEAD DURING THE 100 YR STORM SHALL USE WATERTIGHT JOINTS WITH A 100 YR SERVICE LIFE PER ECM 3.3.1.B.2.

REFERENCE DRAWINGS

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\road & storm plans\SD06-07.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:39:32 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED PROFESSIONAL ENGINEER JESSE W. SCHWAB 52434
2/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

STORM DRAIN PLAN & PROFILE
EPC 2/13/2020

DESIGNED BY: KMZ
DRAWN BY: LCB
CHECKED BY: NMS
SCALE HORIZ. 1" = 40' VERT. 1" = 8'
DATE ISSUED: SEPTEMBER, 2019
SHEET 52 OF 73
DRAWING No. SD06

Know what's below. Call before you dig.

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
44	N 7,340.43 E 12,930.04	8" PVC WATER 5733.39	30" RCP STORM 5735.39	2.00'
52	N 7,330.77 E 12,932.75	8" PVC SAN 5875.40	30" RCP STORM 5877.24	1.84'

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 9	S15°32'08"E	444.0'	3.00%	30" RCP
PIPE - 11	S15°40'40"E	396.7'	3.00%	30" RCP
PIPE - 10	S76°57'39"W	13.8'	2.00%	18" RCP

PIPE TABLE					
PIPE NAME	RADIUS	CHORD LENGTH	LENGTH	SLOPE	SIZE
PIPE - 20	772.34'	201.10'	201.68'	3.000%	42" RCP

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
INLET 1-B	10' ON-GRADE TYPE R INLET	RIM = 5900.60 PIPE - 10 INV OUT (18") = 5891.37	N: 7698.52 E: 12815.19
MH - 5	4' TYPE II MH	RIM = 5900.42 PIPE - 9 INV IN (30") = 5890.09 PIPE - 10 INV IN (18") = 5891.09 PIPE - 11 INV OUT (30") = 5889.09	N: 7701.64 E: 12828.66
MH - 6	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5886.63 PIPE - 11 INV IN (30") = 5877.18 PIPE - 12 INV IN (30") = 5877.18 PIPE - 16 INV IN (30") = 5877.18 PIPE - 20 INV OUT (42") = 5876.18	N: 7319.66 E: 12935.87

LEGACY HILL DRIVE STORM MAIN PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

LEGACY HILL DRIVE LATERAL 1 PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

NOTES:
1. ALL STATION, OFFSET, AND NORTHING/EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
2. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
3. ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
4. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES.
5. TOP OF BOX ELEVATIONS GIVEN FOR CDOT TYPE R INLETS REFER TO THE COUNTY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.
6. ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
7. PIPES OF DIFFERENT SIZES ARE TO BE MATCHED TO THE CROWN OF THE INSIDE WALL OF PIPE.
8. ALL TYPE C INLETS ARE TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD TYPE M-604-10.
9. PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE."
10. SECTIONS OF STORM PIPE WITH PRESSURE HEAD DURING THE 100 YR STORM SHALL USE WATERTIGHT JOINTS WITH A 100 YR SERVICE LIFE PER ECM 3.3.1.B.2.

REFERENCE DRAWINGS

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\road & storm plans\SD06-07.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:39:49 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NICOLE M. SCHWYHART
52434
PROFESSIONAL ENGINEER
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

STORM DRAIN PLAN & PROFILE

EPC 2/13/2020

DESIGNED BY:	KMZ	SCALE		DATE ISSUED:	SEPTEMBER, 2019	DRAWING No.
DRAWN BY:	LCB	HORIZ.	1" = 40'	SHEET	53 OF 73	SD07
CHECKED BY:	NMS	VERT.	1" = 8'			

Know what's below. Call before you dig.

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
MH - 9	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5879.65 PIPE - 20 INV IN (42") = 5870.13 PIPE - 21 INV OUT (42") = 5869.13	N: 7141.68 E: 13029.49
MH - 10	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5872.11 PIPE - 21 INV IN (42") = 5863.33 PIPE - 22 INV OUT (42") = 5862.33	N: 6999.25 E: 13159.53
MH - 11	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5864.85 PIPE - 22 INV IN (42") = 5856.78 PIPE - 23 INV IN (24") = 5858.28 PIPE - 24 INV OUT (42") = 5855.78	N: 6894.86 E: 13311.48
MH - 12	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5858.78 PIPE - 24 INV IN (42") = 5850.69 PIPE - 25 INV OUT (42") = 5849.69	N: 6830.62 E: 13468.19

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 25	S12°35'09"W	172.5'	1.39%	42" RCP
PIPE - 20	S27°44'40"E	201.7'	3.00%	42" RCP

PIPE TABLE					
PIPE NAME	RADIUS	CHORD LENGTH	LENGTH	SLOPE	SIZE
PIPE - 22	832.43'	184.35'	184.73'	3.004%	42" RCP
PIPE - 24	832.43'	169.37'	169.67'	3.000%	42" RCP
PIPE - 21	772.34'	192.86'	193.37'	2.999%	42" RCP

LEGACY HILL DRIVE STORM MAIN PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

NOTES:

1. ALL STATION, OFFSET, AND NORTHING/EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
2. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
3. ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
4. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES,
5. TOP OF BOX ELEVATIONS GIVEN FOR CDOT TYPE R INLETS REFER TO THE COUNTY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.
6. ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
7. PIPES OF DIFFERENT SIZES ARE TO BE MATCHED TO THE CROWN OF THE INSIDE WALL OF PIPE.
8. ALL TYPE C INLETS ARE TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD TYPE M-604-10.
9. PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE."
10. SECTIONS OF STORM PIPE WITH PRESSURE HEAD DURING THE 100 YR STORM SHALL USE WATERTIGHT JOINTS WITH A 100 YR SERVICE LIFE PER ECM 3.3.1.B.2.

REFERENCE DRAWINGS

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\road & storm plans\SD08-09.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:43:43 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 (2½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NICOLE M. SCHWEIZER
52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

STORM DRAIN PLAN & PROFILE

EPC 2/13/2020

DESIGNED BY: KMZ	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: LCB	HORIZ. 1" = 40'		
CHECKED BY: NMS	VERT. 1" = 8'	SHEET 54 OF 73	SD08

Know what's below. Call before you dig.

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
17	N 6,685.98 E 13,435.90	8" PVC WATER 5845.27	42" RCP STORM 5847.27	2.00'
21	N 6,033.19 E 13,565.70	8" PVC WATER 5831.26	48" RCP STORM 5833.26	2.00'
40	N 6,024.19 E 13,570.18	8" PVC SAN 5822.92	48" RCP STORM 5832.99	10.07'
54	N 6,654.15 E 13,428.58	8" PVC SAN 5842.99	48" RCP STORM 5846.26	3.27'

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
MH - 13	6.33' X 6.33' TYPE I MH	RIM = 5856.07 PIPE - 25 INV IN (42") = 5847.30 PIPE - 26 INV IN (30") = 5848.30 PIPE - 29 INV OUT (48") = 5846.80	N: 6662.28 E: 13430.61
MH - 15	6.33' X 6.33' TYPE I MH	RIM = 5853.83 PIPE - 29 INV IN (48") = 5843.40 PIPE - 30 INV OUT (48") = 5843.10	N: 6437.47 E: 13413.13
MH - 16	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5849.54 PIPE - 30 INV IN (48") = 5839.44 PIPE - 31 INV OUT (48") = 5838.44	N: 6204.53 E: 13481.04
MH - 17	6.33' X 6.33' TYPE I DROP MH	RIM = 5841.92 PIPE - 31 INV IN (48") = 5833.14 PIPE - 34 INV IN (30") = 5834.64 PIPE - 32 INV OUT (48") = 5827.07	N: 6014.58 E: 13574.89

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 25	S12°35'09"W	172.5'	1.39%	42" RCP
PIPE - 31	S26°17'39"E	211.9'	2.50%	48" RCP

PIPE TABLE					
PIPE NAME	RADIUS	CHORD LENGTH	LENGTH	SLOPE	SIZE
PIPE - 29	651.52'	225.49'	226.63'	1.500%	48" RCP
PIPE - 30	644.02'	242.64'	244.10'	1.500%	48" RCP

LEGACY HILL DRIVE STORM MAIN PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

NOTES:
1. ALL STATION, OFFSET, AND NORTHING/EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
2. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
3. ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
4. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES,
5. TOP OF BOX ELEVATIONS GIVEN FOR CDOT TYPE R INLETS REFER TO THE COUNTY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.
6. ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
7. PIPES OF DIFFERENT SIZES ARE TO BE MATCHED TO THE CROWN OF THE INSIDE WALL OF PIPE.
8. ALL TYPE C INLETS ARE TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD TYPE M-604-10.
9. PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE."
10. SECTIONS OF STORM PIPE WITH PRESSURE HEAD DURING THE 100 YR STORM SHALL USE WATERTIGHT JOINTS WITH A 100 YR SERVICE LIFE PER ECM 3.3.1.B.2.

REFERENCE DRAWINGS

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\road & storm plans\SD08-09.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:43:59 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
BRUCE W. SCHWEIGERT
PE 52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

STORM DRAIN PLAN & PROFILE

EPC 2/13/2020

DESIGNED BY: KMZ	SCALE		DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: LCB	HORIZ. 1" = 40'			
CHECKED BY: NMS	VERT. 1" = 8'		SHEET 55 OF 73	SD09

Know what's **below.** **Call** before you dig.

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
INLET 1-A	10' SUMP TYPE R INLET	RIM = 5911.51 PIPE - 1680 INV IN (18") = 5905.23 PIPE - 4 INV OUT (30") = 5904.93	N: 8095.89 E: 12529.23
INLET 2-A	5' SUMP TYPE R INLET	RIM = 5911.51 PIPE - 5 INV OUT (30") = 5904.87	N: 8049.42 E: 12561.15
INLET 3-A	5' SUMP TYPE R INLET	RIM = 5911.42 PIPE - 1600 INV IN (18") = 5906.75 PIPE - 7 INV OUT (18") = 5906.45	N: 8229.83 E: 12901.61
INLET 4-A	5' SUMP TYPE R INLET	RIM = 5911.37 PIPE - 8 INV OUT (18") = 5906.37	N: 8177.41 E: 12923.39
MH - 2	4' TYPE II STM MH	RIM = 5914.37 PIPE - 2 INV IN (24") = 5904.41 PIPE - 3 INV IN (30") = 5903.91 PIPE - 6 INV IN (24") = 5904.41 PIPE - 9 INV OUT (30") = 5903.41	N: 8129.44 E: 12709.73
MH - 3	4' TYPE II MH	RIM = 5911.49 PIPE - 4 INV IN (30") = 5904.76 PIPE - 5 INV IN (30") = 5904.76 PIPE - 3 INV OUT (30") = 5904.76	N: 8070.24 E: 12551.19
MH - 4	4' TYPE II MH	RIM = 5911.36 PIPE - 8 INV IN (18") = 5906.26 PIPE - 7 INV IN (18") = 5906.26 PIPE - 6 INV OUT (24") = 5905.96	N: 8193.72 E: 12910.02

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 4	N40°33'21"W	33.8'	0.50%	30" RCP
PIPE - 5	S25°33'54"E	23.1'	0.50%	30" RCP
PIPE - 6	N72°12'21"E	210.3'	0.74%	24" RCP
PIPE - 8	S39°20'17"E	21.1'	0.50%	18" RCP
PIPE - 7	N13°06'38"W	37.1'	0.50%	18" RCP
PIPE - 3	S69°31'23"W	169.4'	0.50%	30" RCP

UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
46	N 8,087.07 E 12,536.78	12" PVC WATER 5736.77	30" RCP STORM 5737.88	1.10'
48	N 8,212.11 E 12,905.73	12" PVC WATER 5736.45	18" RCP STORM 5739.45	3.00'

FRONTSIDE DRIVE LATERAL 2 PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

FRONTSIDE DRIVE LATERAL 1 PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

FRONTSIDE DRIVE LATERAL 3 PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

NOTES:
1. ALL STATION, OFFSET, AND NORTHING/EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
2. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
3. ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
4. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES,
5. TOP OF BOX ELEVATIONS GIVEN FOR CDOT TYPE R INLETS REFER TO THE COUNTY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.
6. ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
7. PIPES OF DIFFERENT SIZES ARE TO BE MATCHED TO THE CROWN OF THE INSIDE WALL OF PIPE.
8. ALL TYPE C INLETS ARE TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD TYPE M-604-10.
9. PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE."
10. SECTIONS OF STORM PIPE WITH PRESSURE HEAD DURING THE 100 YR STORM SHALL USE WATERTIGHT JOINTS WITH A 100 YR SERVICE LIFE PER ECM 3.3.1.B.2.

REFERENCE DRAWINGS

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\road & storm plans\SD10-11.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:47:49 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NICOLE M. SCHWEIZER
PROFESSIONAL ENGINEER
NO. 52434
2/13/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

STORM DRAIN PLAN & PROFILE

EPC 2/13/2020

DESIGNED BY: KMZ	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: LCB	HORIZ. 1" = 40'		
CHECKED BY: NMS	VERT. 1" = 8'	SHEET 56 OF 73	SD10

Know what's **below.** **Call** before you dig.

UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
43	N 7,322.55 E 12,881.54	8" PVC WATER 5733.39	18" RCP STORM 5736.54	3.15'
45	N 7,374.85 E 13,023.39	8" PVC WATER 5734.51	24" RCP STORM 5736.51	2.00'
50	N 7,313.18 E 12,885.05	8" PVC SAN 5875.60	18" RCP STORM 5878.59	2.99'
51	N 7,365.47 E 13,026.85	8" PVC SAN 5875.00	24" RCP STORM 5878.56	3.56'

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 12	S69°45'49"W	49.9'	1.00%	30" RCP
PIPE - 13	N20°30'26"W	30.7'	1.00%	18" RCP
PIPE - 14	S18°10'43"E	7.7'	1.00%	18" RCP
PIPE - 16	N69°45'35"E	101.2'	1.00%	30" RCP
PIPE - 19	N69°45'39"E	25.7'	1.00%	18" RCP
PIPE - 17	N20°14'21"W	30.7'	1.00%	24" RCP
PIPE - 18	S20°14'21"E	7.7'	1.00%	18" RCP
PIPE - 15	S68°56'14"W	15.8'	1.00%	24" RCP
PIPE - 10	S76°57'39"W	13.8'	2.00%	18" RCP

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
INLET 1-B	10' ON-GRADE TYPE R INLET	RIM = 5900.60 PIPE - 10 INV OUT (18") = 5891.37	N: 7698.52 E: 12815.19
INLET 3-C	10' SUMP TYPE R INLET	RIM = 5886.98 PIPE - 13 INV OUT (18") = 5878.99	N: 7331.13 E: 12878.33
INLET 4-C	10' SUMP TYPE R INLET	RIM = 5886.92 PIPE - 14 INV OUT (18") = 5878.76	N: 7295.12 E: 12891.47
INLET 5-C	10' SUMP TYPE R INLET	RIM = 5886.57 PIPE - 17 INV OUT (24") = 5879.00	N: 7383.45 E: 13020.22
INLET 6-C	5' SUMP TYPE R INLET	RIM = 5886.71 PIPE - 18 INV OUT (18") = 5879.27	N: 7347.48 E: 13033.48
MH - 5	4' TYPE II MH	RIM = 5900.42 PIPE - 9 INV IN (30") = 5890.09 PIPE - 10 INV IN (18") = 5891.09 PIPE - 11 INV OUT (30") = 5889.09	N: 7701.64 E: 12828.66
MH - 6	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5886.63 PIPE - 11 INV IN (30") = 5877.18 PIPE - 12 INV IN (30") = 5877.18 PIPE - 16 INV IN (30") = 5877.18 PIPE - 20 INV OUT (42") = 5876.18	N: 7319.66 E: 12935.87
MH - 7	4' TYPE II 1' DROP MH	RIM = 5886.63 PIPE - 13 INV IN (18") = 5878.68 PIPE - 14 INV IN (18") = 5878.68 PIPE - 15 INV IN (24") = 5878.18 PIPE - 12 INV OUT (30") = 5877.68	N: 7302.41 E: 12889.08
MH - 8	4' TYPE II MH	RIM = 5886.34 PIPE - 19 INV IN (18") = 5879.19 PIPE - 17 INV IN (24") = 5878.69 PIPE - 18 INV IN (18") = 5879.19 PIPE - 16 INV OUT (30") = 5878.19	N: 7354.68 E: 13030.83

MOOSE MEADOW STREET LATERAL 2 PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

MOOSE MEADOW STREET LATERAL 3 PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

MOOSE MEADOW STREET LATERAL 1 PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

NOTES:
1. ALL STATION, OFFSET, AND NORTHING/EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
2. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
3. ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
4. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES,
5. TOP OF BOX ELEVATIONS GIVEN FOR CDOT TYPE R INLETS REFER TO THE COUNTY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.
6. ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
7. PIPES OF DIFFERENT SIZES ARE TO BE MATCHED TO THE CROWN OF THE INSIDE WALL OF PIPE.
8. ALL TYPE C INLETS ARE TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD TYPE M-604-10.
9. PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE."
10. SECTIONS OF STORM PIPE WITH PRESSURE HEAD DURING THE 100 YR STORM SHALL USE WATERTIGHT JOINTS WITH A 100 YR SERVICE LIFE PER ECM 3.3.1.B.2.

REFERENCE DRAWINGS

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\road & storm plans\SD10-11.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:48:11 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
SCOTT A. SEAMAN
52434
1/16/20
PROFESSIONAL ENGINEER

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

STORM DRAIN PLAN & PROFILE

EPC 2/13/2020

DESIGNED BY: KMZ	SCALE HORIZ. 1" = 40'	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: LCB	VERT. 1" = 8'	SHEET 57 OF 73	SD11
CHECKED BY: NMS			

Know what's **below.** **Call** before you dig.

UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
16	N 6,703.91 E 13,372.42	8" PVC WATER 5845.27	24" RCP STORM 5849.65	4.38'
53	N 6,667.51 E 13,414.51	8" PVC SAN 5843.18	30" RCP STORM 5848.09	4.91'

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 26	N71°59'55"W	68.3'	0.50%	30" RCP
PIPE - 28	N17°33'46"E	30.8'	1.00%	24" RCP
PIPE - 27	S18°20'37"W	7.6'	1.00%	24" RCP
PIPE - 23	S37°42'09"W	15.3'	1.00%	24" RCP

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
INLET 1-D	15' ON-GRADE TYPE R INLET	RIM = 5865.12 PIPE - 23 INV OUT (24") = 5858.43	N: 6882.78 E: 13302.14
INLET 1-E	10' SUMP TYPE R INLET	RIM = 5855.39 PIPE - 28 INV OUT (24") = 5849.95	N: 6712.74 E: 13374.91
INLET 2-E	10' SUMP TYPE R INLET	RIM = 5855.39 PIPE - 27 INV OUT (24") = 5849.72	N: 6676.22 E: 13363.24
MH - 11	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5864.85 PIPE - 22 INV IN (42") = 5856.78 PIPE - 23 INV IN (24") = 5858.28 PIPE - 24 INV OUT (42") = 5855.78	N: 6894.86 E: 13311.48
MH - 13	6.33' X 6.33' TYPE I MH	RIM = 5856.07 PIPE - 25 INV IN (42") = 5847.30 PIPE - 26 INV IN (30") = 5848.30 PIPE - 29 INV OUT (48") = 5846.80	N: 6662.28 E: 13430.61
MH - 14	4' TYPE II MH	RIM = 5855.10 PIPE - 28 INV IN (24") = 5849.64 PIPE - 27 INV IN (24") = 5849.64 PIPE - 26 INV OUT (30") = 5848.64	N: 6683.40 E: 13365.62

LEGACY HILL DRIVE LATERAL 2 PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

FALLING ROCK DRIVE LATERAL 2 PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

FALLING ROCK DRIVE LATERAL 1 PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

NOTES:
1. ALL STATION, OFFSET, AND NORTHING/EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
2. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
3. ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
4. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES,
5. TOP OF BOX ELEVATIONS GIVEN FOR CDOT TYPE R INLETS REFER TO THE COUNTY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.
6. ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
7. PIPES OF DIFFERENT SIZES ARE TO BE MATCHED TO THE CROWN OF THE INSIDE WALL OF PIPE.
8. ALL TYPE C INLETS ARE TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD TYPE M-604-10.
9. PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE."
10. SECTIONS OF STORM PIPE WITH PRESSURE HEAD DURING THE 100 YR STORM SHALL USE WATERTIGHT JOINTS WITH A 100 YR SERVICE LIFE PER ECM 3.3.1.B.2.

REFERENCE DRAWINGS

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\road & storm plans\SD12.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:51:22 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 (2½" AULM. CAP PLS 17664) TO THE N¼ CORNER OF SAID SECTION 9 (3¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
REGISTERED
52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

STORM DRAIN PLAN & PROFILE

EPC 2/13/2020

DESIGNED BY: KMZ	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: LCB	HORIZ. 1" = 40'		
CHECKED BY: NMS	VERT. 1" = 8'	SHEET 58 OF 73	SD12

Know what's below. Call before you dig.

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
FES - 6	48" FES	RIM = 5846.60 PIPE - 1420 INV OUT (48") = 5842.10	N: 6942.52 E: 13970.17
INLET 1-I	10' SUMP TYPE R INLET	RIM = 5849.30 PIPE - 65 INV OUT (18") = 5845.25	N: 6868.66 E: 13884.96
INLET 2-I	5' SUMP TYPE R INLET	RIM = 5849.30 PIPE - 66 INV OUT (18") = 5844.89	N: 6812.31 E: 13884.17
MH - 30	4' TYPE II MH	RIM = 5849.06 PIPE - 65 INV IN (18") = 5844.79 PIPE - 66 INV IN (18") = 5844.79 PIPE - 64 INV OUT (24") = 5844.29	N: 6822.48 E: 13884.73
MH - 31	6.33' X 6.33' TYPE I MH	RIM = 5850.03 PIPE - 63 INV IN (48") = 5840.21 PIPE - 64 INV IN (24") = 5841.31 PIPE - 67 INV OUT (48") = 5839.91	N: 6821.46 E: 14003.48
MH - 204	6.33' X 6.33' TYPE I MH	RIM = 5849.18 PIPE - 203 INV IN (48") = 5840.84 PIPE - 223 INV IN (18") = 5843.34 PIPE - 222 INV IN (18") = 5843.34 PIPE - 232 INV OUT (48") = 5840.74	N: 6927.98 E: 14002.74

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 1420	N45°24'43"W	45.9'	3.16%	48" RCP
PIPE - 64	N89°30'31"W	118.8'	2.51%	24" RCP
PIPE - 65	N00°16'54"E	46.2'	1.00%	18" RCP
PIPE - 66	S03°09'19"W	10.2'	1.00%	18" RCP

LEGACY HILL DRIVE LATERAL 4 PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

LEGACY HILL DRIVE LATERAL 3 PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

UNDEVELOPED FLOW COLLECTION PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

NOTES:

1. ALL STATION, OFFSET, AND NORTHING/EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
2. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
3. ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
4. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES,
5. TOP OF BOX ELEVATIONS GIVEN FOR CDOT TYPE R INLETS REFER TO THE COUNTY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.
6. ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
7. PIPES OF DIFFERENT SIZES ARE TO BE MATCHED TO THE CROWN OF THE INSIDE WALL OF PIPE.
8. ALL TYPE C INLETS ARE TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD TYPE M-604-10.
9. PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE."
10. SECTIONS OF STORM PIPE WITH PRESSURE HEAD DURING THE 100 YR STORM SHALL USE WATERTIGHT JOINTS WITH A 100 YR SERVICE LIFE PER ECM 3.3.1.B.2.

REFERENCE DRAWINGS

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\road & storm plans\SD13-14.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:53:26 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
JACQUE W. SCHWEIZER
PE 52434
PROFESSIONAL ENGINEER
2/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

STORM DRAIN PLAN & PROFILE

EPC 2/13/2020

DESIGNED BY: KMZ	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: LCB	HORIZ. 1" = 40'		
CHECKED BY: NMS	VERT. 1" = 8'	SHEET 59 OF 73	SD13

UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
18	N 6,527.71 E 13,794.11	8" PVC WATER 5830.27	48" RCP STORM 5834.68	4.52'
41	N 6,373.53 E 13,823.63	8" PVC SAN 5826.60	48" RCP STORM 5829.29	2.69'
42	N 6,522.39 E 13,785.59	8" PVC SAN 5832.96	48" RCP STORM 5834.52	1.56'

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
HEADWALL 1	25'-1/2" HEADWALL	RIM = 5824.23 PIPE - 72 INV IN (48") = 5819.57	N: 6121.72 E: 13768.57
INLET 5-I	10' SUMP TYPE R INLET (1' DROP)	RIM = 5840.32 PIPE - 70 INV IN (48") = 5829.04 PIPE - 71 INV OUT (48") = 5828.04	N: 6346.94 E: 13826.64
MH - 31	6.33' X 6.33' TYPE I MH	RIM = 5850.03 PIPE - 63 INV IN (48") = 5840.21 PIPE - 64 INV IN (24") = 5841.31 PIPE - 67 INV OUT (48") = 5839.91	N: 6821.46 E: 14003.48
MH - 32	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5844.99 PIPE - 67 INV IN (48") = 5837.11 PIPE - 68 INV OUT (48") = 5836.11	N: 6582.59 E: 13879.65
MH - 33	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5844.05 PIPE - 68 INV IN (48") = 5834.87 PIPE - 69 INV OUT (48") = 5833.87	N: 6516.10 E: 13776.02
MH - 34	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5841.43 PIPE - 69 INV IN (48") = 5831.93 PIPE - 70 INV OUT (48") = 5830.93	N: 6435.89 E: 13812.37
MH - 35	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5831.97 PIPE - 71 INV IN (48") = 5824.23 PIPE - 72 INV OUT (48") = 5820.67	N: 6173.69 E: 13747.51
MH - 204	6.33' X 6.33' TYPE I MH	RIM = 5849.18 PIPE - 203 INV IN (48") = 5840.84 PIPE - 223 INV IN (18") = 5843.34 PIPE - 222 INV IN (18") = 5843.34 PIPE - 232 INV OUT (48") = 5840.74	N: 6927.98 E: 14002.74

BIG JOHNSON DRIVE STORM MAIN PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 68	S57°19'01"W	123.1'	1.00%	48" RCP
PIPE - 72	S22°03'30"E	56.1'	1.96%	48" RCP
PIPE - 63	S00°23'44"E	88.8'	0.48%	48" RCP
PIPE - 70	S09°06'55"E	90.1'	2.10%	48" RCP
PIPE - 71	S24°32'55"W	190.5'	2.00%	48" RCP

PIPE TABLE					
PIPE NAME	RADIUS	CHORD LENGTH	LENGTH	SLOPE	SIZE
PIPE - 67	292.32'	269.07'	279.60'	1.000%	48" RCP
PIPE - 69	368.81'	88.06'	88.27'	2.200%	48" RCP

NOTES:
1. ALL STATION, OFFSET, AND NORTHING/EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
2. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
3. ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
4. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES,
5. TOP OF BOX ELEVATIONS GIVEN FOR CDOT TYPE R INLETS REFER TO THE COUNTY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.
6. ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
7. PIPES OF DIFFERENT SIZES ARE TO BE MATCHED TO THE CROWN OF THE INSIDE WALL OF PIPE.
8. ALL TYPE C INLETS ARE TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD TYPE M-604-10.
9. PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE."
10. SECTIONS OF STORM PIPE WITH PRESSURE HEAD DURING THE 100 YR STORM SHALL USE WATERTIGHT JOINTS WITH A 100 YR SERVICE LIFE PER ECM 3.3.1.B.2.

REFERENCE DRAWINGS

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\road & storm plans\SD13-14.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:53:40 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
JESSE W. SCHWYHART
52434
PROFESSIONAL ENGINEER
2/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

STORM DRAIN PLAN & PROFILE

EPC 2/13/2020

DESIGNED BY: KMZ
DRAWN BY: LCB
CHECKED BY: NMS
SCALE HORIZ. 1" = 40' VERT. 1" = 8'
DATE ISSUED: SEPTEMBER, 2019
SHEET 60 OF 73
DRAWING No. SD14

Know what's **below.** **Call** before you dig.

UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
13	N 5,982.06 E 13,049.72	18" RCP STORM 5857.05	8" PVC WATER 5858.05	1.00'
36	N 5,986.69 E 13,040.96	8" PVC SAN 5850.14	18" RCP STORM 5854.56	4.42'

LOOKOUT COURT STORM MAIN - 1 PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
INLET 5-F	10' ON-GRADE TYPE R INLET (1' DROP)	RIM = 5863.61 PIPE - 41 INV IN (18") = 5857.28 PIPE - 40 INV OUT (18") = 5856.28	N: 5995.43 E: 13023.79
INLET 6-F	10' ON-GRADE TYPE R INLET (1' DROP)	RIM = 5863.57 PIPE - 40 INV IN (18") = 5855.13 PIPE - 39 INV OUT (18") = 5854.13	N: 5977.85 E: 13057.86
MH - 19	4' TYPE II 1' DROP MH	RIM = 5847.06 PIPE - 38 INV IN (18") = 5841.17 PIPE - 37 INV OUT (24") = 5840.17	N: 5901.55 E: 13349.10
MH - 20	4' TYPE II 1' DROP MH	RIM = 5857.63 PIPE - 39 INV IN (18") = 5848.48 PIPE - 38 INV OUT (18") = 5847.48	N: 5934.33 E: 13141.31

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 38	N81°02'02"W	210.4'	3.00%	18" RCP
PIPE - 39	N62°27'25"W	94.1'	6.00%	18" RCP
PIPE - 40	N62°43'00"W	38.3'	3.00%	18" RCP
PIPE - 41	N63°12'15"W	126.4'	4.00%	18" RCP
PIPE - 37	S63°24'17"W	212.9'	2.15%	24" RCP

NOTES:
1. ALL STATION, OFFSET, AND NORTHING/EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
2. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
3. ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
4. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES,
5. TOP OF BOX ELEVATIONS GIVEN FOR CDOT TYPE R INLETS REFER TO THE COUNTY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.
6. ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
7. PIPES OF DIFFERENT SIZES ARE TO BE MATCHED TO THE CROWN OF THE INSIDE WALL OF PIPE.
8. ALL TYPE C INLETS ARE TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD TYPE M-604-10.
9. PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE."
10. SECTIONS OF STORM PIPE WITH PRESSURE HEAD DURING THE 100 YR STORM SHALL USE WATERTIGHT JOINTS WITH A 100 YR SERVICE LIFE PER ECM 3.3.1.B.2.

REFERENCE DRAWINGS

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\road & storm plans\SD15-16.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:57:21 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NICOLE M. SCHWEGEL
52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

STORM DRAIN PLAN & PROFILE

EPC 2/13/2020

DESIGNED BY: KMZ	SCALE		DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: LCB	HORIZ. N.A.			
CHECKED BY: NMS	VERT. N.A.		SHEET 61 OF 73	SD15

Know what's **below.** **Call** before you dig.

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'
20	N 6,015.43 E 13,530.21	8" PVC WATER 5831.26	18" RCP STORM 5836.10	4.84'
38	N 6,020.11 E 13,585.98	8" PVC SAN 5821.49	48" RCP STORM 5823.46	1.97'
39	N 6,006.40 E 13,534.70	8" PVC SAN 5824.56	18" RCP STORM 5836.00	11.44'

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
HEADWALL 2	24'-5 1/8" HEADWALL	RIM = 5824.23 PIPE - 33 INV IN (48") = 5819.57	N: 6088.17 E: 13738.21
INLET 1-G	10' ON-GRADE TYPE R INLET (1' DROP)	RIM = 5842.12 PIPE - 32 INV IN (48") = 5826.37 PIPE - 33 INV OUT (48") = 5825.38	N: 6028.42 E: 13603.45
INLET 7-F	10' SUMP TYPE R INLET	RIM = 5841.74 PIPE - 35 INV OUT (18") = 5836.40	N: 6023.63 E: 13526.12
INLET 8-F	5' SUMP TYPE R INLET	RIM = 5841.64 PIPE - 36 INV OUT (18") = 5836.18	N: 5989.35 E: 13543.28
MH - 17	6.33' X 6.33' TYPE I DROP MH	RIM = 5841.92 PIPE - 31 INV IN (48") = 5833.14 PIPE - 34 INV IN (30") = 5834.64 PIPE - 32 INV OUT (48") = 5827.07	N: 6014.58 E: 13574.89
MH - 18	4' TYPE II MH	RIM = 5841.39 PIPE - 35 INV IN (18") = 5836.10 PIPE - 37 INV IN (24") = 5835.60 PIPE - 36 INV IN (18") = 5836.10 PIPE - 34 INV OUT (30") = 5835.10	N: 5996.88 E: 13539.51

LOOKOUT COURT STORM MAIN PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

LOOKOUT COURT LATERAL 1 PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 34	S63°25'00"W	39.6'	1.15%	30" RCP
PIPE - 33	N66°05'26"E	147.4'	3.94%	48" RCP
PIPE - 32	S64°08'25"W	31.7'	2.20%	48" RCP
PIPE - 37	S63°24'17"W	212.9'	2.15%	24" RCP

NOTES:
1. ALL STATION, OFFSET, AND NORTHING/EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
2. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
3. ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
4. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES,
5. TOP OF BOX ELEVATIONS GIVEN FOR CDOT TYPE R INLETS REFER TO THE COUNTY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.
6. ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
7. PIPES OF DIFFERENT SIZES ARE TO BE MATCHED TO THE CROWN OF THE INSIDE WALL OF PIPE.
8. ALL TYPE C INLETS ARE TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD TYPE M-604-10.
9. PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE."
10. SECTIONS OF STORM PIPE WITH PRESSURE HEAD DURING THE 100 YR STORM SHALL USE WATERTIGHT JOINTS WITH A 100 YR SERVICE LIFE PER ECM 3.3.1.B.2.

REFERENCE DRAWINGS

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\road & storm plans\SD15-16.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 11:57:47 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
JACQUELYN M. SEMPLE
52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

STORM DRAIN PLAN & PROFILE

EPC 2/13/2020

DESIGNED BY: KMZ	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: LCB	HORIZ. 1" = 40'		
CHECKED BY: NMS	VERT. 1" = 8'	SHEET 62 OF 73	SD16

Know what's **below.** **Call** before you dig.

TRAILS AT ASPEN RIDGE
(FUTURE FILINGS)

BRADLEY RD MEDIAN CULVERT PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

BLACKMER ST CULVERT PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

NOTES:
1. ALL STATION, OFFSET, AND NORTHING/EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
2. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
3. ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
4. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES,
5. ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
6. PIPES OF DIFFERENT SIZES ARE TO BE MATCHED TO THE CROWN OF THE INSIDE WALL OF PIPE.

REFERENCE DRAWINGS

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\road & storm plans\SD17.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 12:01:25 PM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
JACQUE W. SCHWEIZER
No. 52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

STORM DRAIN PLAN & PROFILE

EPC 2/13/2020

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: LCB	HORIZ. 1" = 40'		
CHECKED BY: NMS	VERT. 1" = 8'	SHEET 63 OF 73	SD17

Know what's **below.** **Call** before you dig.

GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

18" DEEP CLASS VI MATERIAL
(HS 20 LOADING)

TYPICAL ACCESS ROAD
N.T.S.

SECTION A
H: 1"=50'
V: 1"=10'

SECTION B
H: 1"=50'
V: 1"=10'

DETENTION BASIN TRICKLE CHANNEL
N.T.S.

REFERENCE DRAWINGS

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\road & storm plans\DF01-DF04.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 12:02:38 PM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NICOLE K. SCHWEIZER
52434
PROFESSIONAL ENGINEER
1/16/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

POND LAYOUT

EPC 2/13/2020

DESIGNED BY: NMS	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. 1" = 50'		
CHECKED BY: NMS	VERT. 1" = 10'	SHEET 64 OF 73	SD18

Know what's below. Call before you dig.

PLAN

SCALE: 1/2"=1'-0"

ELEVATION

SCALE: 1/2"=1'-0"

REFERENCE DRAWINGS			
	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\road & storm plans\Structures\Outlet Structure 1.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 12:02:56 PM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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:

Matrix DESIGN GROUP

SEAL

COLORADO LICENSED
SCOTT M. SCHAFER
PE 52434
PROFESSIONAL ENGINEER
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

OUTLET STRUCTURE DETAILS - 1

EPC 2/13/2020

DESIGNED BY: AAC	SCALE		DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: AAC	HORIZ. N.A.			
CHECKED BY: KSL	VERT. N.A.		SHEET 65 OF 73	DT01

Know what's below. Call before you dig.

SECTION A DT01
SCALE: 1/2"=1'-0"

SECTION B DT01
SCALE: 1/2"=1'-0"

SECTION C DT01
SCALE: 1/2"=1'-0"

SECTION E DT01
SCALE: 3/4"=1'-0"

SECTION D –
SCALE: 1/2"=1'-0"

SECTION F DT01
SCALE: 1/2"=1'-0"

SECTION G DT01
SCALE: 3/4"=1'-0"

REFERENCE DRAWINGS

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\road & storm plans\Structures\Outlet Structure 1.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 12:03:02 PM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 (2½" AULM. CAP PLS 17664) TO THE N¼ CORNER OF SAID SECTION 9 (3¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
JESSE M. SCHAFER
PE 52434
PROFESSIONAL ENGINEER
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

OUTLET STRUCTURE DETAILS - 2

EPC 2/13/2020

DESIGNED BY: AAC	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: AAC	HORIZ. N.A.		
CHECKED BY: KSL	VERT. N.A.	SHEET 66 OF 73	DT02

Know what's **below.** **Call** before you dig.

GRATE W/ HATCH DETAIL

SCALE: N.T.S.

NOTES:

WATERSTOP SHALL BE VOLCLAY WATERSTOP RX 101 OR EARTHSHIELD JP 648 OR APPROVED EQUAL.

PLACE WATERSTOP FOR ENTIRETY OF EACH HORIZONTAL & VERTICAL CONSTRUCTION JOINT.

FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

WATERSTOP DETAIL

SCALE: N.T.S

CORNER DETAIL

SCALE: N.T.S

FIGURE 1

SCALE: 6"=1'-0"

RESTRICTOR PLATE DETAIL

SCALE: 3/4" = 1'-0"

ORIFICE PLATE 1 DETAIL

SCALE: 1-1/2" = 1'-0"

REFERENCE DRAWINGS

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\road & storm plans\Structures\Outlet Structure 1.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 12:03:12 PM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 (2½" AULM. CAP PLS 17664) TO THE N¼ CORNER OF SAID SECTION 9 (3 ¾" AULM. CAP PLS 10377)

PREPARED BY:

Matrix DESIGN GROUP

SEAL

COLORADO LICENSED PROFESSIONAL ENGINEER
JOSEPH M. SCHAFER
No. 52434
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

OUTLET STRUCTURE DETAILS -3

EPC 2/13/2020

DESIGNED BY: AAC	SCALE		DATE ISSUED: SEPTEMBER, 2019	DRAWING No.	
DRAWN BY: AAC	HORIZ. N.A.		SHEET 67 OF 73	DT03	
CHECKED BY: KSL	VERT. N.A.				

Know what's **below.** **Call** before you dig.

NOTES:
1. ALL WINGWALLS PER CDOT STANDARD M-601-20.
2. RAIL SPACING TO NOT EXCEED 8'-0" O.C.
3. TERMINATE RAILING WHERE FALL HEIGHT IS LESS THAN 30".
4. LIMIT GAP IN ADJACENT RAILING POSTS TO MAXIMUM OF 4".

OUTLET STRUCTURE PLAN

SCALE: 1/4" = 1'-0"

EAST WINGWALL ELEVATION

SCALE: 1/4" = 1'-0"

WEST WINGWALL ELEVATION

SCALE: 1/4" = 1'-0"

* RAILING NOT SHOW FOR CLARITY

REFERENCE DRAWINGS

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\road & storm plans\Structures\Outlet Structure Wing Walls.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 12:03:29 PM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 (2½" AULM. CAP PLS 17664) TO THE N¼ CORNER OF SAID SECTION 9 (3¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
SCOTT M. SCHWAB
52434
1/6/20
PROFESSIONAL ENGINEER

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

OUTLET STRUCTURE DETAILS - 4

EPC 2/13/2020

DESIGNED BY: AAC	SCALE		DATE ISSUED: SEPTEMBER, 2019	DRAWING No.	
DRAWN BY: AAC	HORIZ. N.A.		SHEET 68 OF 73	DT04	
CHECKED BY: KSL	VERT. N.A.				

Know what's below. Call before you dig.

SOUTH FOREBAY PLAN

SCALE: 3/16"= 1'-0"

VOLUME PROVIDED = 1,290 cf
VOLUME REQUIRED = 634 cf

TYPICAL DISSIPATION BLOCK LAYOUT

SCALE: 1/2"= 1'-0"

TYPICAL DISSIPATION BLOCK ELEVATION

SCALE: 1/2"= 1'-0"

WINGWALL PENETRATION DETAIL

SCALE: 1/2"= 1'-0"

* RAILING NOT SHOW FOR CLARITY

EAST WINGWALL ELEVATION

SCALE: 3/16"= 1'-0"

WEST WINGWALL ELEVATION

SCALE: 3/16"= 1'-0"

NOTES:
1. ALL WINGWALLS PER CDOT STANDARD M-601-20.
2. 1'-6" WIDE NOTCH TO EXTEND TO TOP OF APRON.
3. RAIL SPACING TO NOT EXCEED 8'-0" O.C.
4. TERMINATE RAILING WHERE FALL HEIGHT IS LESS THAN 30".
5. LIMIT GAP IN ADJACENT RAILING POSTS TO MAXIMUM OF 4".

REFERENCE DRAWINGS

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\road & storm plans\Structures\South Forebay.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 12:03:47 PM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 (2½" AULM. CAP PLS 17664) TO THE N¼ CORNER OF SAID SECTION 9 (3¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
SCOTT M. SCHWAB
52434
1/6/20
PROFESSIONAL ENGINEER

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

SOUTH FOREBAY

EPC 2/13/2020

DESIGNED BY: AAC	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: AAC	HORIZ. 3/16" = 1'		
CHECKED BY: KSL	VERT. N.A.	SHEET 69 OF 73	DT05

Know what's below. Call before you dig.

NOTES:
1. ALL WINGWALLS PER CDOT STANDARD M-601-20.
2. 1'-6" WIDE NOTCH TO EXTEND TO TOP OF APRON.
3. RAIL SPACING TO NOT EXCEED 8'-0" O.C.
4. TERMINATE RAILING WHERE FALL HEIGHT IS LESS THAN 30".
5. LIMIT GAP IN ADJACENT RAILING POSTS TO MAXIMUM OF 4".

NORTH FOREBAY PLAN

SCALE: 1/8" = 1'-0"

VOLUME PROVIDED = 2,867 cf
VOLUME REQUIRED = 2,702 cf

TYPICAL DISSIPATION BLOCK LAYOUT

SCALE: 1/2"= 1'-0"

TYPICAL DISSIPATION BLOCK ELEVATION

SCALE: 1/2"= 1'-0"

SOUTH WINGWALL ELEVATION

SCALE: 1/8"= 1'-0"

NORTH WINGWALL ELEVATION

SCALE: 1/8"= 1'-0"

WINGWALL PENETRATION DETAIL

SCALE: 1/2"= 1'-0"

REFERENCE DRAWINGS

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\road & storm plans\Structures\North Forebay.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 12:04:04 PM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 (2½" AULM. CAP PLS 17664) TO THE N¼ CORNER OF SAID SECTION 9 (3¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
NICOLE M. SCHALL
PE. 52434
PROFESSIONAL ENGINEER
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

NORTH FOREBAY

EPC 2/13/2020

DESIGNED BY: AAC	SCALE	DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: AAC	HORIZ. N.A.		
CHECKED BY: KSL	VERT. N.A.	SHEET 70 OF 73	DT06

Know what's below. Call before you dig.

WINGWALL HANDRAIL DETAIL

SCALE: 3/4" = 1'-0"

SLOPED WINGWALL HANDRAIL DETAIL

SCALE: 3/4" = 1'-0"

SECTION A

SCALE: 3/4"=1'-0"

RAILING NOTES:

1. ALL PIPE IS 1½"Ø HOT-DIPPED GALV. SCH 40 STEEL PIPE.
2. DIMENSIONS SHOWN ARE FROM CENTER OF PIPE UNLESS OTHERWISE NOTED.
3. RAILING SHALL BE PLACED AT ALL LOCATIONS WHERE FALL HEIGHT IS GREATER THAN 30".

RAIL CORNER DETAIL

SCALE: 1 1/2"= 1'-0"

RAIL ANCHORAGE DETAIL

SCALE: 1 1/2" = 1'-0"

REFERENCE DRAWINGS

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\road & storm plans\Structures\Railing.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 12:04:13 PM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 (2½" AULM. CAP PLS 17664) TO THE N¼ CORNER OF SAID SECTION 9 (3¼" AULM. CAP PLS 10377)

PREPARED BY:

Matrix DESIGN GROUP

SEAL

COLORADO LICENSED PROFESSIONAL ENGINEER
COLLIE M. SCHAFER
No. 52434
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

RAILING DETAILS

EPC 2/13/2020

DESIGNED BY: AAC	SCALE		DATE ISSUED: SEPTEMBER, 2019	DRAWING No.
DRAWN BY: AAC	HORIZ. N.A.			
CHECKED BY: KSL	VERT. N.A.		SHEET 71 OF 73	DT07

NOTES:

1. ALL STATION, OFFSET, AND NORTHING/EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
2. PIPE LENGTHS ARE MEASURED FROM THE OUTSIDE FACE OF ALL STRUCTURES.
3. ALL PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
4. ALL PIPE BEND ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
5. CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES.
6. UNDERDRAIN AND SAND FILTER SHALL BE INSTALLED IN ACCORDANCE WITH UDFCD T-06 (SAND FILTER) AND T-02 (GRASS SWALE) RECOMMENDATIONS

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
1 inch = 40 ft.

Know what's below. Call before you dig.

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 = 5872.550 SUMP = 5867.210 UD - 8 INV IN = 5867.459 OUTFALL PIPE INV OUT = 5867.210

NOTES:

1. ALL CLEAN OUTS (C/O) TO BE INSTALLED WITH 90° SWEEP AND WATERTIGHT CAPS.
2. ALL CLEAN OUT RIM ELEVATIONS WITHIN SWALE TO MATCH FINISHED GRADE.
3. ALL CLEAN OUT RIM ELEVATIONS WITHIN SAND FILTER MEDIA TO BE 1' HIGHER THAN BOTTOM OF POND ELEVATION 5869.32.

TYPICAL ACCESS ROAD
N.T.S.

SWALE CLEAN OUT

GRASS SWALE AND FILTER

UNDERDRAIN AT SAND FILTER

SECTION A
H: 1" = 40'
V: 1" = 5'

SECTION B
H: 1" = 40'
V: 1" = 5'

UNDERDRAIN

TABLE SF-1 Gradation specifications for CDOT Class B or C filter material

(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).

REFERENCE DRAWINGS

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\road & storm plans\SD19.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 12:05:05 PM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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:

Matrix DESIGN GROUP

SEAL

COLORADO LICENSED
SCOTT M. SCHAFER
PE 52434
1/6/20
PROFESSIONAL ENGINEER

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

TRAILS AT ASPEN RIDGE

FILING NO. 1 EPC 2/13/2020
ROADWAY & STORM IMPROVEMENT PLANS

WEST POND LAYOUT, PROFILES, SECTIONS, DETAILS, AND TABLES

		SCALE			
DESIGNED BY:	WME	HORIZ.	1" = 40'	DATE ISSUED:	JANUARY, 2020
DRAWN BY:	WME	VERT.	1" = 5'	SHEET	72 OF 73
CHECKED BY:	JTS				

DRAWING No. DT08

Know what's below. Call before you dig.

GRATE INSTALLATION DETAIL

NOTE:
EXTEND $\frac{1}{4}$" ANGLE IRON ACROSS GAP FOR ORIFICE PLATE. ANCHOR ANGEL IRON 3" TO EITHER SIDE OF OPENING.

JOHNSON SCREENS STAINLESS STEEL VEE WIRE FILTERS WELL-SCREEN (OR EQUAL)

STRUCTURE	SCREEN #93 VEE WIRE SLOT OPENING	SUPPORT ROD TYPE & SPACING	TOTAL SCREEN THICKNESS	CARBON STEEL FRAME TYPE
OUTLET STRUCTURES	0.139	#156 VEE @ 3/4" O.C.	0.31"	3/8" x 1" BAR

NOTE:
STRUCTURE SHALL BE CONSTRUCTED TO ALLOW FOR INSTALLATION OF WELL SCREEN BELOW PROPOSED SAND FILTER MEDIA IN A FUTURE FILING. IF BOLTS OR BOLT HOLES ARE PROVIDED, THEY SHALL BE PROTECTED FROM CORROSION AND PLUGGING BY SAND MEDIA. THE SCREEN SHALL NOT BE INSTALLED IN THE SAND FILTER MEDIA.

SECTION D
H: 1"=2'

SECTION F
H: 1"=1'

INSET U/
ORIFICE PLATE DETAIL
H: 2"=1'

NOTE:
ORIFICE PLATE WILL BE REPLACED OR MODIFIED BY FUTURE FILINGS.

SECTION E
H: 1"=2'

SECTION C
H: 1"=1'

SPILLWAY STEM WALL DETAIL
(NOT TO SCALE)

EMERGENCY SPILLWAY DETAILS
(NTS)

REFERENCE DRAWINGS

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\road & storm plans\Structures\West Pond Structures.dwg
CTB FILE: ----
PLOT DATE: January 23, 2020 12:05:14 PM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
COLORADO LICENSED
JOSIE W. SCHALL
52434
PROFESSIONAL ENGINEER
1/6/20

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

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

WEST POND SECTIONS AND DETAILS

EPC 2/13/2020

DESIGNED BY: WME	SCALE	DATE ISSUED: JANUARY 2020	DRAWING No.
DRAWN BY: WME	HORIZ. N/A		
CHECKED BY: JTS	VERT. N/A	SHEET 73 OF 73	DT09