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

# TRAILS AT ASPEN RIDGE FILING NO.1

## EL PASO COUNTY, CO

# ROADWAY & STORM IMPROVEMENT PLANS

## SEPTEMBER, 2019


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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: _____

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. DATE
COUNTY ENGINEER / ECM ADMINISTRATOR

### 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.

_____ _____
RANDY O'LEARY, PRESIDENT DATE
COLA, LLC
555 MIDDLE PARKWAY
COLORADO SPRINGS, CO 80921

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: September 27, 2019 9:53:26 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 (2½" AULM. CAP PLS 17664) TO THE N¼ CORNER OF SAID SECTION 9 (3½" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL

PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

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. | | SHEET 1 OF 73 | TS01 |
| CHECKED BY: NMS | VERT. N.A. | | | |

## 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.

## ABBREVIATIONS:

| | |
|---|---|
| AD | ALGEBRAIC DIFFERENCE |
| ASSY | ASSEMBLY |
| ASTM | AMERICAN SOCIETY OF TESTING AND MATERIALS |
| APPROX | APPROXIMATE or APPROXIMATELY |
| AVE | AVENUE |
| AVG | AVERAGE |
| B/C | BACK OF CURB |
| ₥ or B/L | BASELINE |
| BLVD | BOULEVARD |
| BTM | BOTTOM |
| CI | CAST IRON |
| 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 |
| GAL | GALLON |
| GALV | GALVANIZED |
| GAU | GAUGE (MATERIAL) |
| GV | GATE VALVE |
| GW | GROUNDWATER |
| HBP | HOT BITUMINOUS PAVEMENT |
| HGL | HYDRAULIC GRADE LINE |
| HP | HIGH POINT |
| HORIZ | HORIZONTAL |
| HCL | HORIZONTAL CONTROL LINE |
| HR | HOUR |
| INV | INVERT |
| K | VERTICAL CURVE FACTOR |
| LBS | POUNDS |
| LF | LINEAR FEET |
| LN | LANE |
| LP | LOW POINT |
| LS | LANDSCAPING |
| LT | LEFT |
| MAX | MAXIMUM |
| MFGR | MANUFACTURER |
| MH | MANHOLE |
| MID | MIDDLE or MIDPOINT |
| MIN | MINIMUM |
| MJ | MECHANICAL JOINT |
| MSL | MEAN SEA LEVEL |

## 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
CONCRETE
COMPACTED SUBGRADE
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 DRAIN/INLET
PLUG PIPE
PROPOSED SIGN
EXISTING SIGN

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: September 27, 2019 9:53:36 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

PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

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 |

Provide Legacy Hill Drive typical cross section round the 3+00 to 5+00 range

THE SECTION PROVIDED IS FOR THESE STATIONS

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

NOTE:
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. 29+74.97
NOT TO SCALE

Reverse drainage direction to the outside ditch not median per typical street sections.

DONE

Update leader.

DONE

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

EPC Optional Type C

DONE

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

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

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

PREPARED BY:
Matrix DESIGN GROUP

SEAL

PRELIMINARY
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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

REFERENCE DRAWINGS

| No. | DATE | DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

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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: ----
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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

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PREPARED BY:

Matrix DESIGN GROUP

SEAL

PRELIMINARY
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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 Xref\X-Title-Road.dwg

Know what's below. Call before you dig.

A NOTE HAS BEEN ADDED TO THE PLANS TO STATE THAT THE REIMBURSEMENT IS FROM ADJACENT PROPERTY OWNERS, NOT THE COUNTY

No improvements are reimbursable with the County

THICKNESS ADDED TO TABLE

For all the ABC quantities, identify the assumed thickness used for the calculation.
Per Table D-2:
Local road min pavement section is 3" HMA / 4"ABC
Nonresidential is 4" HMA / 8"ABC

## Bradley Road-Recoverable

| Description | Quantity | Unit |
|---|---|---|
| **ROADWAY IMPROVEMENTS** | | |
| Aggregate Base Course (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) CSP 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 |

DONE

Revise to RCP. All stormsewer within the County's ROW are required to be RCP. ECM 3.3.1.J.1

## Legacy Road Recoverable

| Description | Quantity | Unit |
|---|---|---|
| **ROADWAY IMPROVEMENTS** | | |
| Aggregate Base Course | 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 Road Non-Recoverable

| Description | Quantity | Unit |
|---|---|---|
| **ROADWAY IMPROVEMENTS** | | |
| Aggregate Base Course | | 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 | | 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) CSP 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 | 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) CSP 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 |

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
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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

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PREPARED BY:
Matrix DESIGN GROUP

SEAL

PRELIMINARY
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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

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
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SHEET KEY

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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)

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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' | | |
| CHECKED BY: NMS | VERT. N.A. | SHEET 4 OF 73 | RM01-B |

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

SIDWALK EXHIBIT WAS ADDED TO THIS SHEET PER FAE COMMENTS

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

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: September 27, 2019 9:57:46 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

PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

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

| | | | | | |
|---|---|---|---|---|---|
| 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.

| 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: September 27, 2019 9:58:05 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

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PREPARED BY:

Matrix DESIGN GROUP

SEAL

PRELIMINARY
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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'

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

| 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: September 27, 2019 9:58:47 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 (2½" AULM. CAP PLS 17664) TO THE N¼ CORNER OF SAID SECTION 9 (3¼" AULM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL
PRELIMINARY
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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'

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

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: September 27, 2019 9:58:50 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,
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BASIS OF BEARING
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PREPARED BY:
Matrix DESIGN GROUP

SEAL
PRELIMINARY
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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 8 OF 73 | RD02-L |
| CHECKED BY: NMS | VERT. 1" = 8' | | |

Know what's below. Call before you dig.

what is this line? Remove or label.

DONE

## LEGACY HILL DRIVE PLAN

## LEGACY HILL DRIVE CL PROFILE

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

GRAPHIC SCALE

40 0 20 40 80

( IN FEET )
1 inch = 40 ft.

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: September 27, 2019 9:58:54 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

PRELIMINARY
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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 9 OF 73 | RD03-L |

Know what's below. Call before you dig.

LEGACY HILL DRIVE PLAN

GRAPHIC SCALE

40 0 20 40 80

( IN FEET )
1 inch = 40 ft.

LEGACY HILL DRIVE CL PROFILE

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

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: September 27, 2019 9:58:57 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

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PREPARED BY:

Matrix DESIGN GROUP

SEAL

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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" |

## MOOSE MEADOW SW FLOWLINE PROFILE

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

## MOOSE MEADOW SE FLOWLINE 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 |
| 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 NW FLOWLINE PROFILE

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

## MOOSE MEADOW NE FLOWLINE PROFILE

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

| 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: September 27, 2019 9:59:07 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,
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PREPARED BY:

Matrix DESIGN GROUP

SEAL

PRELIMINARY
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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.

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: September 27, 2019 9:59:12 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

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PREPARED BY:
Matrix DESIGN GROUP

SEAL

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

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: September 27, 2019 9:59:21 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,
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PREPARED BY:
Matrix DESIGN GROUP

SEAL
PRELIMINARY
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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.

PER GILBER PHONE CALL 01/06, SHOW LIGHT LOCATIONS ON PLAN WITH NOTE TO REFER TO ELECTRICAL PLANS. THIS NOTE HAS BEEN ADDED TO RND02-L

Submit lighting plans for the roundabout.

STA. 4+97.40, 42.00' R
ELEV. 5920.19
R=100.00'
Δ=9°11'43"
L=16.05'
STA. 5+13.26, 40.73' R
ELEV. 5919.48
FUTURE 5' CONC. WALK
S 24°50'55" E 118.81'
STA. 5+11.51, 36.00' L
ELEV. 5919.49
R=112.00'
Δ=8°12'03"
L=16.03'
STA. 5+27.49, 34.85' L
ELEV. 5918.97
S 7°26'55" E 104.09'
FUTURE 5' CONC. WALK
STA. 6+30.51, 20.00' L
ELEV. 5915.32
SEE NORTH ISLAND DETAIL SHEET RND02-L
STA. 6+30.54, 21.73' R
ELEV. 5915.33
S 20°20'09" E 21.18'
STA. 6+51.77, 20.00' R
ELEV. 5914.69
R=94.03'
Δ=47°28'05"
L=77.90'
STA. 7+21.05, 50.47' R
ELEV. 5912.88
R=173.00'
Δ=31°04'51"
L=93.85'
SEE WEST ISLAND DETAIL SHEET RND02-L
STA. 30+73.25, 20.01' L
ELEV. 5911.49
S 65°58'36" W 48.44'
STA. 30+27.72, 26.02' L
ELEV. 5911.15
R=435.88'
Δ=33°40'10"
L=256.14'
STA. 27+86.86, 26.01' L
ELEV. 5917.09
PC: 27+86.86
STA. 27+86.81, 26.06' R
ELEV. 5917.29
R=383.88'
Δ=32°08'24"
L=215.34'
R=147.00'
Δ=39°48'14"
L=102.12'
STA. 7+24.62, 54.07' L
ELEV. 5912.83
R=83.00'
Δ=50°11'34"
L=72.71'
STA. 7+24.48, 0.00'
ELEV. 5914.13
STA. 7+39.11, 35.35' L
ELEV. 5913.46
STA. 7+39.12, 35.36' R
ELEV. 5913.46
STA. 7+74.57, 50.00' R
ELEV. 5912.81
STA. 7+74.57, 50.00' L
ELEV. 5912.81
STA. 8+09.83, 35.35' L
ELEV. 5912.54
STA. 8+09.83, 35.36' R
ELEV. 5912.47
STA. 8+24.48, 0.00'
ELEV. 5912.44
R=83.00'
Δ=75°18'40"
L=109.10'
STA. 30+67.62, 19.99' R
ELEV. 5911.44
STA. 8+46.77, 36.93' R
ELEV. 5911.57
N 50°35'54" E 48.35'
SEE SOUTH ISLAND DETAIL SHEET RND02-L
STA. 30+16.77, 25.98' R
ELEV. 5910.95
R=147.00'
Δ=27°46'02"
L=71.24'
STA. 9+15.25, 20.00' R
ELEV. 5910.25
S 8°31'27" E 48.28'
STA. 9+63.29, 26.00' R
ELEV. 5908.99
STA. 33+19.94, 19.99' L
ELEV. 5911.61
N 67°13'31" E 48.48'
STA. 33+68.04, 26.00' L
ELEV. 5911.08
N 74°20'48" E 319.08'
N 74°20'48" E 287.05'
FRONTSIDE DRIVE
STA. 36+87.12, 26.00' L
ELEV. 5909.91
STA. 36+87.12, 26.00' R
ELEV. 5909.91
STA. 34+00.08, 26.00' R
ELEV. 5910.95
N 81°28'30" E 48.26'
STA. 33+52.19, 20.01' R
ELEV. 5911.28
R=173.00'
Δ=27°10'12"
L=82.04'
SEE EAST ISLAND DETAIL SHEET RND02-L
STA. 8+13.57, 71.06' L
ELEV. 5911.84
R=94.00'
Δ=62°50'01"
L=103.09'
STA. 8+97.20, 20.00' L
ELEV. 5910.63
N 22°46'42" W 48.37'
STA. 9+45.20, 26.00' L
ELEV. 5909.48
TRACT M
TRACT N
LEGACY HILL DRIVE
PVI 27+19.25
PVI 31+31.0
PVI 34+31.0
PVI 10+00
PVI 00+6
PVI 00+8
PVI 00+1
PVI 00+4
PVI 00+5
PVI 00+6
PVI 00+7
PVI 00+9
PVI 00+10
PVI 00+11
PVI 00+12
PVI 00+13
PVI 00+14
PVI 00+15
PVI 00+16
PVI 00+17
PVI 00+18
PVI 00+19
PVI 00+20
PVI 00+21
PVI 00+22
PVI 00+23
PVI 00+24
PVI 00+25
PVI 00+26
PVI 00+27
PVI 00+28
PVI

Know what's below. Call before you dig.

## NORTH ISLAND

SCALE: 1" = 10'

What is the cover material within the splitter island? Provide construction details. Will these be patterned median paving per ECM Detail SD-2_21 or something else?

NOTE HAS BEEN ADDED TO EACH MEDIAN REFERENCING PATTERNED CONCRETE DETAIL PER ECM

## WEST ISLAND

SCALE: 1" = 10'

## EAST ISLAND

SCALE: 1" = 10'

## SOUTH ISLAND

SCALE: 1" = 10'

N

GRAPHIC SCALE

30 0 15 30 60

( IN FEET )
1 inch = 30 ft.

DONE

Update graphic scale

| 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" |

DONE

Update layer management. Contour lines are overlapping the table

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: September 27, 2019 10:00:40 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 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

PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

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' | SHEET 14A OF 73 | RND02-L |
| CHECKED BY: NMS | VERT. N/A | | |

Know what's below. Call before you dig.

Update construction plans to reference the pedestrian ramp details or include details in the construction plans. Based on the slopes provided, some of the ramp configuration does not meet criteria. Based on the County standard details for pedestrian ramps and truncated domes, the detectable warning area is installed at 2% slope with the 12:1 ramps starting behind the detectable warning area.

Update all ramps to meet criteria.

DONE

DONE

2% max cross slopes for ADA accessibility path. Review and update all ramp access.

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

DONE

Show the detectable warning area at all ramps.

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

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

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: September 27, 2019 10:01:25 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
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PREPARED BY:
Matrix DESIGN GROUP

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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

N

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

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: September 27, 2019 10:01:30 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
PRELIMINARY
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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.

| | | | |
|---|---|---|---|
| Eastbound right-turn deceleration lane on Bradley Road approaching Legacy Hill Drive | With initial development/final plat of either the residential or commercial portion of the Springs at Waterview East. The trigger is an eastbound right-turn volume of 50 vehicles per hour. | 290' plus 200' taper | Create a continuous right-turn acceleration/deceleration lane between Powers Boulevard and Legacy Hills Drive by using a solid white stripe for 235' feet approaching Legacy Hill Drive. Lane drop (short-dashed white line) markings should be extended back to the existing solid striping for the northbound to eastbound right-turn acceleration lane |

| | | | |
|---|---|---|---|
| Eastbound right-turn acceleration lanes on Bradley Road in the form of continuous accel/decel lanes between Legacy Hill Drive and the right-in/right-out site access and between the right-in/right-out site access and the city access point to the east. | With the applicable final plat of either the residential or commercial portion of the Springs at Waterview East which results in the turn lane threshold to be exceeded (as determined by final plat traffic reports). Right-turn acceleration lanes are not typically required on Minor Arterial Stets, however, this lane is required as part of the approved deviation for the access points to Bradley Road. LSC recommends a threshold of 50 vehicles per hour for the northbound right-turn volume based on the criteria for Principal Arterials. LSC would not see an issue if this lane were installed prior to the volumes exceeding the threshold. | 760' plus 200' taper | Create a continuous right-turn acceleration/deceleration lane between Legacy Hill Drive and the right-in/right-out access by using a solid white stripe for 380' feet leaving Legacy Hill Drive, a 235' solid white stripe approaching the access point and lane drop (short-dashed white line) markings between these solid lines. |
| Eastbound right-turn deceleration lane on Bradley Road approaching the right-in/right-out access | With development of the residential portion of the Springs at Waterview East (Parcel P-18) **OR** if the access is required for a secondary access **and** the right turning volume would exceed 50 vehicles per hour. | 290' plus 200' taper | |

Update the Eastbound Acceleration Lane striping on Bradley per the Traffic Impact Study (TIS) recommendation.

Coordinate with the traffic engineer if the directional pavement marking arrow should be installed. If it is then TIS table 5 must be updated to include the arrows in the recommendation.

Also, coordinate striping east of Blackmer Drive.

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: September 27, 2019 10:01:45 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
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PREPARED BY:
Matrix DESIGN GROUP

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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' | SHEET 17 OF 73 | SN01-B |
| CHECKED BY: NMS | VERT. N.A. | | |

Know what's below. Call before you dig.

Update the Traffic Study to include analysis/recommendation. Issue is that access to the future commercial is limited to this general area. The given configuration seems to conflict with the future access.

Access is not permitted on Legacy Drive and access is not permitted near the roundabout entry. Unresolved.

DONE

See the attached "FDM 11-26 attachment 35.1 Example Pavement Markings for Typical Designs". Update striping per the example specifically items: A, F, M, R

Unresolved

| REFERENCE DRAWINGS | | | |
|---|---|---|---|
| No. | DATE | DESCRIPTION | BY |

REVISIONS

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

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PREPARED BY:

Matrix DESIGN GROUP

SEAL

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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

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: September 27, 2019 10:01:46 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

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

- Based on the 2040 total traffic volumes and the criteria contained in the *El Paso County Engineering Criteria Manual* (ECM) left-turn lanes would be required on Legacy Hill Drive approaching Moose Meadows Drive. The northbound left-turn lane should be 205 feet long plus a 160-foot taper. The southbound left-turn lane should be 210 feet long plus a 160-foot taper.

Know what's below. Call before you dig.

Install a speed limit sign.

Unresolved. Discuss with the traffic engineer and have him update the TIS to provide sign location recommendation within the report.

GRAPHIC SCALE
50' 0 25' 50' 100'
( IN FEET )
1 inch = 50' ft.

GRAPHIC SCALE
50' 0 25' 50' 100'
( IN FEET )
1 inch = 50' ft.

| 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: September 27, 2019 10:01:49 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
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PREPARED BY:
Matrix DESIGN GROUP

SEAL
PRELIMINARY
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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.

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

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| No. | DATE | DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

COMPUTER FILE MANAGEMENT

FILE NAME: s:\19.886.011 (trails at aspen ridge - f1)\100 Dwg\104 plan sets\construction plans\road & storm plans\RD-MAP.dwg
CTB FILE: ----
PLOT DATE: September 27, 2019 10:12:54 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

*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
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.

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: September 27, 2019 10:12:59 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

*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.

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 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\RD-MAP.dwg
CTB FILE: ----
PLOT DATE: September 27, 2019 10:13:05 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

*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'

N

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" |

**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\RD01-04.dwg
CTB FILE: COMM-TECH_D-SIZE_BW.ctb
PLOT DATE: September 27, 2019 10:14:00 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

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.

| 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 |

BUFFALO HORN DRIVE CL PROFILE

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

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

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| No. | DATE | DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

COMPUTER FILE MANAGEMENT

FILE NAME: s:\19.886.011 (trails at aspen ridge - f1)\100 Dwg\104 plan sets\construction plans\road & storm plans\RD01-04.dwg
CTB FILE: COMM-TECH_D-SIZE_BW.ctb
PLOT DATE: September 27, 2019 10:14:06 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

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 24 OF 73
DRAWING No. 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.

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'

| 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 |

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

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: September 27, 2019 10:14:17 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

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

BUFFALO HORN DRIVE/
LAZY RIDGE DRIVE
CURB RETURNS PLAN

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

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

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

| 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 |

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'

| 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" |

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: September 27, 2019 10:14:27 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
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 | 20.89 |
| 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'

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
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| No. | DATE | DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

COMPUTER FILE MANAGEMENT
FILE NAME: s:\19.886.011 (trails at aspen ridge - f1)\100 Dwg\104 plan sets\construction plans\road & storm plans\RD05-08.dwg
CTB FILE: COMM-TECH_D-SIZE_BW.ctb
PLOT DATE: September 27, 2019 10:15:18 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

SEAL
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 27 OF 73
DRAWING No. RD05

Know what's below. Call before you dig.

## WAGON HAMMER DRIVE PLAN

| 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" |

## 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 |

## 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'

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)

## WAGON HAMMER DRIVE CL PROFILE

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

| 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: September 27, 2019 10:15:24 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

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 28 OF 73
DRAWING No. 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.

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: September 27, 2019 10:15:31 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

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 29 OF 73
DRAWING No. 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 PL PROFILE

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

GRAPHIC SCALE

40 0 20 40 80

( IN FEET )
1 inch = 40 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\RD05-08.dwg
CTB FILE: COMM-TECH_D-SIZE_BW.ctb
PLOT DATE: September 27, 2019 10:15:39 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

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

| | | SCALE | | | |
|---|---|---|---|---|---|
| DESIGNED BY: | NMS | | | DATE ISSUED: | SEPTEMBER, 2019 |
| DRAWN BY: | TJC | HORIZ. | 1"=40' | | |
| CHECKED BY: | NMS | VERT. | 1"=8' | SHEET | 30 OF 73 |

DRAWING No. 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.

SUNDAY GULCH DRIVE/ LOOKOUT COURT CURB RETURNS PLAN

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

| 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'

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: September 27, 2019 10:16:32 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

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 31 OF 73
DRAWING No. RD09

Know what's below. Call before you dig.

## 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" |

**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**

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| No. | DATE | DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

COMPUTER FILE MANAGEMENT

FILE NAME: s:\19.886.011 (trails at aspen ridge - f1)\100 Dwg\104 plan sets\construction plans\road & storm plans\RD09-12.dwg
CTB FILE: ----
PLOT DATE: September 27, 2019 10:16:38 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

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'

N

GRAPHIC SCALE

40 0 20 40 80

( IN FEET )
1 inch = 40 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

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| No. | DATE | DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

COMPUTER FILE MANAGEMENT

FILE NAME: s:\19.886.011 (trails at aspen ridge - f1)\100 Dwg\104 plan sets\construction plans\road & storm plans\RD09-12.dwg
CTB FILE: ----
PLOT DATE: September 27, 2019 10:16:46 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*

*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 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'

**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**

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| No. | DATE | DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

COMPUTER FILE MANAGEMENT

FILE NAME: s:\19.886.011 (trails at aspen ridge - f1)\100 Dwg\104 plan sets\construction plans\road & storm plans\RD09-12.dwg
CTB FILE: ----
PLOT DATE: September 27, 2019 10:16:52 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

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'

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\RD13-15.dwg
CTB FILE: ----
PLOT DATE: September 27, 2019 10:17:42 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

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

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

| 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" |

## 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" |

## 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 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'

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: September 27, 2019 10:17:54 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
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'

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

## 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'

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: September 27, 2019 10:18:05 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

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

GRAPHIC SCALE

10 0 5 10 20

( IN FEET )
1 inch = 10 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

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| No. | DATE | DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

COMPUTER FILE MANAGEMENT

FILE NAME: s:\19.886.011 (trails at aspen ridge - f1)\100 Dwg\104 plan sets\construction plans\road & storm plans\RD16-21.dwg
CTB FILE: ----
PLOT DATE: September 27, 2019 10:18:30 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

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 38 OF 73
DRAWING No. 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

GRAPHIC SCALE

10 0 5 10 20

( IN FEET )
1 inch = 10 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

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| No. | DATE | DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

COMPUTER FILE MANAGEMENT

FILE NAME: s:\19.886.011 (trails at aspen ridge - f1)\100 Dwg\104 plan sets\construction plans\road & storm plans\RD16-21.dwg
CTB FILE: ----
PLOT DATE: September 27, 2019 10:18:36 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

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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 39 OF 73
DRAWING No. 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

GRAPHIC SCALE

10 0 5 10 20

( IN FEET )
1 inch = 10 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

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| No. | DATE | DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

COMPUTER FILE MANAGEMENT

FILE NAME: s:\19.886.011 (trails at aspen ridge - f1)\100 Dwg\104 plan sets\construction plans\road & storm plans\RD16-21.dwg
CTB FILE: ---
PLOT DATE: September 27, 2019 10:18:41 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

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.

ADDED TO GENERAL NOTES SHEET PAGE 2

Provide a detail for the transition length from ramp curbs to vertical curbs. See an example to the left from a different project.

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

**DETAIL K**
LOOKOUT DRIVE/
SUNDAY GULCH DRIVE
PED RAMP DETAILS

GRAPHIC SCALE
10 0 5 10 20
( IN FEET )
1 inch = 10 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
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| No. | DATE | DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

COMPUTER FILE MANAGEMENT
FILE NAME: s:\19.886.011 (trails at aspen ridge - f1)\100 Dwg\104 plan sets\construction plans\road & storm plans\RD16-21.dwg
CTB FILE: ----
PLOT DATE: September 27, 2019 10:18:45 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

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

GRAPHIC SCALE

10 0 5 10 20

( IN FEET )
1 inch = 10 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\RD16-21.dwg
CTB FILE: ----
PLOT DATE: September 27, 2019 10:18:50 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

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 42 OF 73 | INT05 |

Know what's below. Call before you dig.

GRAPHIC SCALE

50 0 25 50 100

( IN FEET )
1 inch = 50 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 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\SN01.dwg
CTB FILE: ----
PLOT DATE: September 27, 2019 10:19:02 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

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.

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: September 27, 2019 10:19:04 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

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.

SEE SHEET 44 - SN02

GRAPHIC SCALE

50 0 25 50 100

( IN FEET )
1 inch = 50 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 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: September 27, 2019 10:19:05 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

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 45 OF 73 | SN03 |

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

GRAPHIC SCALE

150 0 75 150 300

( IN FEET )
1 inch = 150 ft.

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: September 27, 2019 8:36:58 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

PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

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<br>PIPE - 74 INV IN (30") = 5870.67 | N: 5654.37<br>E: 11865.23 |
| INLET 1-O | 10' SUMP TYPE R INLET | RIM = 5875.95<br>PIPE - 73 INV OUT (30") = 5871.51 | N: 5460.93<br>E: 11848.83 |
| MH - 36 | 4' TYPE II MH | RIM = 5876.17<br>PIPE - 73 INV IN (30") = 5871.40<br>PIPE - 74 INV OUT (30") = 5871.20 | N: 5476.64<br>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: September 27, 2019 8:43:19 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 (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
PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

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

| | | | | |
|---|---|---|---|---|
| DESIGNED BY: KMZ | SCALE | DATE ISSUED: SEPTEMBER, 2019 | DRAWING No. |
| DRAWN BY: LCB | HORIZ. 1" = 40' | SHEET 47 OF 73 | SD01 |
| 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 |
| 2 | N 5,448.39<br>E 12,592.08 | 12" PVC WATER<br>5862.36 | 24" RCP STORM<br>5864.36 | 2.00' |
| 29 | N 5,438.39<br>E 12,592.15 | 8" PVC SAN<br>5852.77 | 24" RCP STORM<br>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<br>PIPE - 42 INV IN (18") = 5865.48<br>PIPE - 43 INV IN (18") = 5865.48<br>PIPE - 44 INV OUT (24") = 5864.98 | N: 5486.86<br>E: 12591.78 |
| MH - 22 | 4' TYPE II MH | RIM = 5870.95<br>PIPE - 44 INV IN (24") = 5864.40<br>PIPE - 45 INV OUT (24") = 5864.10 | N: 5427.64<br>E: 12592.24 |
| MH - 23 | 4' TYPE II 1' DROP MH | RIM = 5860.23<br>PIPE - 45 INV IN (24") = 5853.90<br>PIPE - 46 INV IN (24") = 5853.90<br>PIPE - 49 INV OUT (30") = 5852.90 | N: 5429.71<br>E: 12862.23 |

BUFFALO HORN DRIVE MAIN 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: September 27, 2019 8:43:30 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
PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

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

| | | | | |
|---|---|---|---|---|
| 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.

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

| PIPE TABLE | | | | |
|---|---|---|---|---|
| PIPE NAME | BEARING | LENGTH | SLOPE | SIZE |
| 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 |
| PIPE - 58 | N03°02'37"W | 108.3' | 0.60% | 42" RCP |
| PIPE - 59 | N27°39'23"E | 16.2' | 0.55% | 42" RCP |

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

| STRUCTURE TABLE | | | |
|---|---|---|---|
| NAME | TYPE | DETAILS | N & E |
| INLET 11-H | 10' SUMP TYPE R INLET | RIM = 5827.38<br>PIPE - 57 INV IN (42") = 5820.53<br>PIPE - 58 INV OUT (42") = 5820.23 | N: 5494.22<br>E: 13982.02 |
| MH - 25 | 4' TYPE II MH | RIM = 5841.80<br>PIPE - 49 INV IN (30") = 5836.53<br>PIPE - 50 INV IN (24") = 5836.93<br>PIPE - 51 INV IN (24") = 5836.93<br>PIPE - 52 INV OUT (30") = 5836.43 | N: 5433.56<br>E: 13362.21 |
| MH - 26 | 4' TYPE II MH | RIM = 5835.17<br>PIPE - 52 INV IN (30") = 5828.25<br>PIPE - 53 INV IN (24") = 5828.75<br>PIPE - 56 INV OUT (30") = 5828.15 | N: 5435.67<br>E: 13726.25 |
| MH - 28 | 6.33' X 6.33' TYPE I MH | RIM = 5828.14<br>PIPE - 56 INV IN (30") = 5823.22<br>PIPE - 60 INV IN (30") = 5823.22<br>PIPE - 57 INV OUT (42") = 5822.22 | N: 5437.13<br>E: 13978.74 |
| MH - 29 | 6.33' X 6.33' TYPE I MH | RIM = 5825.91<br>PIPE - 58 INV IN (42") = 5819.58<br>PIPE - 59 INV OUT (42") = 5819.28 | N: 5602.37<br>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: September 27, 2019 8:43:47 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

PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

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

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

Know what's below. Call before you dig.

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

| 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<br>PIPE - 42 INV OUT (18") = 5865.56 | N: 5487.06<br>E: 12583.36 |
| INLET 2-H | 5' SUMP TYPE R INLET | RIM = 5870.18<br>PIPE - 43 INV OUT (18") = 5865.63 | N: 5489.84<br>E: 12621.68 |
| INLET 3-H | 10' SUMP TYPE R INLET | RIM = 5859.36<br>PIPE - 47 INV OUT (18") = 5854.72 | N: 5486.74<br>E: 12853.37 |
| INLET 4-H | 5' SUMP TYPE R INLET | RIM = 5859.34<br>PIPE - 48 INV OUT (18") = 5854.82 | N: 5489.55<br>E: 12891.69 |
| INLET 5-H | 10' ON-GRADE TYPE R INLET | RIM = 5841.99<br>PIPE - 50 INV OUT (24") = 5837.08 | N: 5463.49<br>E: 13364.98 |
| INLET 6-H | 10' ON-GRADE TYPE R INLET | RIM = 5841.99<br>PIPE - 51 INV OUT (24") = 5836.97 | N: 5425.15<br>E: 13365.13 |
| MH - 21 | 4' TYPE II MH | RIM = 5869.89<br>PIPE - 42 INV IN (18") = 5865.48<br>PIPE - 43 INV IN (18") = 5865.48<br>PIPE - 44 INV OUT (24") = 5864.98 | N: 5486.86<br>E: 12591.78 |
| MH - 23 | 4' TYPE II 1' DROP MH | RIM = 5860.23<br>PIPE - 45 INV IN (24") = 5853.90<br>PIPE - 46 INV IN (24") = 5853.90<br>PIPE - 49 INV OUT (30") = 5852.90 | N: 5429.71<br>E: 12862.23 |
| MH - 24 | 4' TYPE II MH | RIM = 5859.10<br>PIPE - 47 INV IN (18") = 5854.67<br>PIPE - 48 INV IN (18") = 5854.67<br>PIPE - 46 INV OUT (24") = 5854.17 | N: 5484.21<br>E: 12861.81 |
| MH - 25 | 4' TYPE II MH | RIM = 5841.80<br>PIPE - 49 INV IN (30") = 5836.53<br>PIPE - 50 INV IN (24") = 5836.93<br>PIPE - 51 INV IN (24") = 5836.93<br>PIPE - 52 INV OUT (30") = 5836.43 | N: 5433.56<br>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.
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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: September 27, 2019 8:44:04 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
PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

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

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

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'

| UTILITY CROSSING DETAILS | | | | |
|---|---|---|---|---|
| CROSSING # | N & E | TOP OF PIPE | BTM OF PIPE | SEPARATION |
| 28 | N 5,494.09<br>E 13,747.74 | 8" PVC WATER<br>5827.80 | 18" RCP STORM<br>5830.12 | 2.32' |
| 32 | N 5,447.15<br>E 13,727.17 | 8" PVC SAN<br>5816.47 | 24" RCP STORM<br>5828.59 | 12.12 |
| 37 | N 5,494.09<br>E 13,737.52 | 8" PVC SAN<br>5815.51 | 18" RCP STORM<br>5830.03 | 14.52' |
| 49 | N 5,457.28<br>E 13,726.12 | 12" PVC WATER<br>5826.41 | 24" RCP STORM<br>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<br>PIPE - 62 INV OUT (24") = 5829.16 | N: 5302.70<br>E: 13539.07 |
| INLET 7-H | 10' ON-GRADE TYPE R INLET | RIM = 5835.85<br>PIPE - 54 INV OUT (18") = 5830.18 | N: 5494.09<br>E: 13718.57 |
| INLET 8-H | 10' ON-GRADE TYPE R INLET | RIM = 5835.43<br>PIPE - 55 INV OUT (18") = 5830.41 | N: 5494.09<br>E: 13756.91 |
| INLET 9-H | TYPE C INLET WITH PEDESTRIAN GRATE | RIM = 5828.69<br>PIPE - 62 INV IN (24") = 5824.60<br>PIPE - 61 INV OUT (30") = 5824.10 | N: 5306.92<br>E: 13998.54 |
| INLET 10-H | 5' SUMP TYPE R INLET | RIM = 5829.03<br>PIPE - 61 INV IN (30") = 5823.63<br>PIPE - 60 INV OUT (30") = 5823.43 | N: 5400.12<br>E: 13998.75 |
| MH - 26 | 4' TYPE II MH | RIM = 5835.17<br>PIPE - 52 INV IN (30") = 5828.25<br>PIPE - 53 INV IN (24") = 5828.75<br>PIPE - 56 INV OUT (30") = 5828.15 | N: 5435.67<br>E: 13726.25 |
| MH - 27 | 4' TYPE II MH | RIM = 5835.50<br>PIPE - 54 INV IN (18") = 5830.12<br>PIPE - 55 INV IN (18") = 5830.12<br>PIPE - 53 INV OUT (24") = 5829.62 | N: 5494.09<br>E: 13726.24 |
| MH - 28 | 6.33' X 6.33' TYPE I MH | RIM = 5828.14<br>PIPE - 56 INV IN (30") = 5823.22<br>PIPE - 60 INV IN (30") = 5823.22<br>PIPE - 57 INV OUT (42") = 5822.22 | N: 5437.13<br>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 - 62 | S89°28'24"W | 459.5' | 0.99% | 24" 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 |

NOTES:
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3. ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
4. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES,
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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: September 27, 2019 8:44:29 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 1/2" ALUM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4" ALUM. CAP PLS 10377)

PREPARED BY:
Matrix DESIGN GROUP

SEAL

PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

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

| | | | | |
|---|---|---|---|---|
| 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.

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

| 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' |

| 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<br>PIPE - 1 INV OUT (24") = 5924.25 | N: 8759.66<br>E: 12523.50 |
| MH - 1 | 4' TYPE II 1' DROP MH | RIM = 5924.68<br>PIPE - 1 INV IN (24") = 5918.60<br>PIPE - 2 INV OUT (24") = 5917.60 | N: 8597.45<br>E: 12568.39 |
| MH - 2 | 4' TYPE II STM MH | RIM = 5913.88<br>PIPE - 2 INV IN (24") = 5904.41<br>PIPE - 3 INV IN (30") = 5903.91<br>PIPE - 6 INV IN (24") = 5904.41<br>PIPE - 9 INV OUT (30") = 5903.41 | N: 8129.44<br>E: 12709.73 |

NOTES:
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4. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES,
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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: September 27, 2019 8:51:15 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

PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

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

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.

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

| PIPE TABLE | | | | |
|---|---|---|---|---|
| PIPE NAME | BEARING | LENGTH | SLOPE | SIZE |
| PIPE - 10 | S76°57'39"W | 13.8' | 2.00% | 18" RCP |
| PIPE - 11 | S15°40'40"E | 396.7' | 3.00% | 30" RCP |
| PIPE - 9 | S15°32'08"E | 444.0' | 3.00% | 30" 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<br>PIPE - 10 INV OUT (18") = 5891.37 | N: 7698.52<br>E: 12815.19 |
| MH - 5 | 4' TYPE II MH | RIM = 5900.42<br>PIPE - 9 INV IN (30") = 5890.09<br>PIPE - 10 INV IN (18") = 5891.09<br>PIPE - 11 INV OUT (30") = 5889.09 | N: 7701.64<br>E: 12828.66 |
| MH - 6 | 6.33' X 6.33' TYPE I 1' DROP MH | RIM = 5886.63<br>PIPE - 11 INV IN (30") = 5877.18<br>PIPE - 12 INV IN (30") = 5877.18<br>PIPE - 16 INV IN (30") = 5877.18<br>PIPE - 20 INV OUT (42") = 5876.18 | N: 7319.66<br>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: September 27, 2019 8:51:30 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

PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

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

| | | | | | |
|---|---|---|---|---|---|
| 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.

delete the reception reference.

DONE

| STRUCTURE TABLE | | | |
|---|---|---|---|
| NAME | TYPE | DETAILS | N & E |
| MH - 9 | 6.33' X 6.33' TYPE I 1' DROP MH | RIM = 5879.65<br>PIPE - 20 INV IN (42") = 5870.13<br>PIPE - 21 INV OUT (42") = 5869.13 | N: 7141.68<br>E: 13029.49 |
| MH - 10 | 6.33' X 6.33' TYPE I 1' DROP MH | RIM = 5872.11<br>PIPE - 21 INV IN (42") = 5863.33<br>PIPE - 22 INV OUT (42") = 5862.33 | N: 6999.25<br>E: 13159.53 |
| MH - 11 | 6.33' X 6.33' TYPE I 1' DROP MH | RIM = 5864.85<br>PIPE - 22 INV IN (42") = 5856.78<br>PIPE - 23 INV IN (24") = 5858.28<br>PIPE - 24 INV OUT (42") = 5855.78 | N: 6894.86<br>E: 13311.48 |
| MH - 12 | 6.33' X 6.33' TYPE I 1' DROP MH | RIM = 5858.78<br>PIPE - 24 INV IN (42") = 5850.69<br>PIPE - 25 INV OUT (42") = 5849.69 | N: 6830.62<br>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: September 27, 2019 8:54:28 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 (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
PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

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

| | | | | | |
|---|---|---|---|---|---|
| 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<br>E 13,435.90 | 8" PVC WATER<br>5845.27 | 42" RCP STORM<br>5847.27 | 2.00' |
| 21 | N 6,033.19<br>E 13,565.70 | 8" PVC WATER<br>5831.26 | 48" RCP STORM<br>5833.26 | 2.00' |
| 40 | N 6,024.19<br>E 13,570.18 | 8" PVC SAN<br>5822.92 | 48" RCP STORM<br>5832.99 | 10.07' |
| 54 | N 6,654.15<br>E 13,428.58 | 8" PVC SAN<br>5842.99 | 48" RCP STORM<br>5846.26 | 3.27' |

| STRUCTURE TABLE | | | |
|---|---|---|---|
| NAME | TYPE | DETAILS | N & E |
| MH - 13 | 6.33' X 6.33' TYPE I MH | RIM = 5856.07<br>PIPE - 25 INV IN (42") = 5847.30<br>PIPE - 26 INV IN (30") = 5848.30<br>PIPE - 29 INV OUT (48") = 5846.80 | N: 6662.28<br>E: 13430.61 |
| MH - 15 | 6.33' X 6.33' TYPE I MH | RIM = 5853.83<br>PIPE - 29 INV IN (48") = 5843.40<br>PIPE - 30 INV OUT (48") = 5843.10 | N: 6437.47<br>E: 13413.13 |
| MH - 16 | 6.33' X 6.33' TYPE I 1' DROP MH | RIM = 5849.54<br>PIPE - 30 INV IN (48") = 5839.44<br>PIPE - 31 INV OUT (48") = 5838.44 | N: 6204.53<br>E: 13481.04 |
| MH - 17 | 6.33' X 6.33' TYPE I MH WITH 7.57' DROP | RIM = 5841.92<br>PIPE - 31 INV IN (48") = 5833.14<br>PIPE - 34 INV IN (30") = 5834.64<br>PIPE - 32 INV OUT (48") = 5827.07 | N: 6014.58<br>E: 13574.89 |

| PIPE TABLE | | | | |
|---|---|---|---|---|
| PIPE NAME | BEARING | LENGTH | SLOPE | SIZE |
| PIPE - 31 | S26°17'39"E | 211.9' | 2.50% | 48" RCP |
| PIPE - 25 | S12°35'09"W | 172.5' | 1.39% | 42" 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.
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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: September 27, 2019 8:54:42 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
PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

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

| | | | | | |
|---|---|---|---|---|---|
| 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<br>PIPE - 4 INV OUT (30") = 5904.93<br>PIPE - 168 INV OUT (18") = 5905.23 | N: 8095.89<br>E: 12529.23 |
| INLET 2-A | 5' SUMP TYPE R INLET | RIM = 5911.51<br>PIPE - 5 INV OUT (30") = 5904.87 | N: 8049.42<br>E: 12561.15 |
| INLET 3-A | 5' SUMP TYPE R INLET | RIM = 5911.42<br>PIPE - 7 INV OUT (18") = 5906.45<br>PIPE - 160 INV OUT (18") = 5906.75 | N: 8229.83<br>E: 12901.61 |
| INLET 4-A | 5' SUMP TYPE R INLET | RIM = 5911.37<br>PIPE - 8 INV OUT (18") = 5906.37 | N: 8177.41<br>E: 12923.39 |
| MH - 2 | 4' TYPE II STM MH | RIM = 5913.88<br>PIPE - 2 INV IN (24") = 5904.41<br>PIPE - 3 INV IN (30") = 5903.91<br>PIPE - 6 INV IN (24") = 5904.41<br>PIPE - 9 INV OUT (30") = 5903.41 | N: 8129.44<br>E: 12709.73 |
| MH - 3 | 4' TYPE II MH | RIM = 5911.49<br>PIPE - 4 INV IN (30") = 5904.76<br>PIPE - 5 INV IN (30") = 5904.76<br>PIPE - 3 INV OUT (30") = 5904.76 | N: 8070.24<br>E: 12551.19 |
| MH - 4 | 4' TYPE II MH | RIM = 5911.36<br>PIPE - 8 INV IN (18") = 5906.26<br>PIPE - 7 INV IN (18") = 5906.26<br>PIPE - 6 INV OUT (24") = 5905.96 | N: 8193.72<br>E: 12910.02 |

| PIPE TABLE | | | | |
|---|---|---|---|---|
| PIPE NAME | BEARING | LENGTH | SLOPE | SIZE |
| PIPE - 3 | S69°31'23"W | 169.4' | 0.50% | 30" RCP |
| 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 |

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

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

Label the stub as private. In the drainage report sub-basin narrative identify who is responsible for this private stub.

DONE

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'

Provide a stub for the future commercial or identify in the drainage report how the commercial onsite detention will connect to the system.

DONE

NOTES:
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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: September 27, 2019 8:59:02 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 (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
PRELIMINARY
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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

DESIGNED BY: KMZ
DRAWN BY: LCB
CHECKED BY: NMS
SCALE HORIZ. 1" = 40' VERT. 1" = 8'
DATE ISSUED: SEPTEMBER, 2019
SHEET 56 OF 73
DRAWING No. 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<br>E 12,881.54 | 8" PVC WATER<br>5733.39 | 18" RCP STORM<br>5736.54 | 3.15' |
| 45 | N 7,374.85<br>E 13,023.39 | 8" PVC WATER<br>5734.51 | 24" RCP STORM<br>5736.51 | 2.00' |
| 50 | N 7,313.18<br>E 12,885.05 | 8" PVC SAN<br>5875.60 | 18" RCP STORM<br>5878.59 | 2.99' |
| 51 | N 7,365.47<br>E 13,026.85 | 8" PVC SAN<br>5875.00 | 24" RCP STORM<br>5878.56 | 3.56' |

| PIPE TABLE | | | | |
|---|---|---|---|---|
| PIPE NAME | BEARING | LENGTH | SLOPE | SIZE |
| PIPE - 15 | S68°56'14"W | 15.8' | 1.00% | 24" RCP |
| PIPE - 10 | S76°57'39"W | 13.8' | 2.00% | 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 - 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 |

| STRUCTURE TABLE | | | |
|---|---|---|---|
| NAME | TYPE | DETAILS | N & E |
| INLET 1-B | 10' ON-GRADE TYPE R INLET | RIM = 5900.60<br>PIPE - 10 INV OUT (18") = 5891.37 | N: 7698.52<br>E: 12815.19 |
| INLET 3-C | 10' SUMP TYPE R INLET | RIM = 5886.97<br>PIPE - 13 INV OUT (18") = 5878.99 | N: 7331.13<br>E: 12878.33 |
| INLET 4-C | 10' SUMP TYPE R INLET | RIM = 5886.92<br>PIPE - 14 INV OUT (18") = 5878.76 | N: 7295.12<br>E: 12891.47 |
| INLET 5-C | 10' SUMP TYPE R INLET | RIM = 5886.56<br>PIPE - 17 INV OUT (24") = 5879.00 | N: 7383.45<br>E: 13020.22 |
| INLET 6-C | 5' SUMP TYPE R INLET | RIM = 5886.71<br>PIPE - 18 INV OUT (18") = 5879.27 | N: 7347.48<br>E: 13033.48 |
| MH - 5 | 4' TYPE II MH | RIM = 5900.42<br>PIPE - 9 INV IN (30") = 5890.09<br>PIPE - 10 INV IN (18") = 5891.09<br>PIPE - 11 INV OUT (30") = 5889.09 | N: 7701.64<br>E: 12828.66 |
| MH - 6 | 6.33' X 6.33' TYPE I 1' DROP MH | RIM = 5886.63<br>PIPE - 11 INV IN (30") = 5877.18<br>PIPE - 12 INV IN (30") = 5877.18<br>PIPE - 16 INV IN (30") = 5877.18<br>PIPE - 20 INV OUT (42") = 5876.18 | N: 7319.66<br>E: 12935.87 |
| MH - 7 | 4' TYPE II 1' DROP MH | RIM = 5886.63<br>PIPE - 13 INV IN (18") = 5878.68<br>PIPE - 14 INV IN (18") = 5878.68<br>PIPE - 15 INV IN (24") = 5878.18<br>PIPE - 12 INV OUT (30") = 5877.68 | N: 7302.41<br>E: 12889.08 |
| MH - 8 | 4' TYPE II MH | RIM = 5886.34<br>PIPE - 19 INV IN (18") = 5879.19<br>PIPE - 17 INV IN (24") = 5878.69<br>PIPE - 18 INV IN (18") = 5879.19<br>PIPE - 16 INV OUT (30") = 5878.19 | N: 7354.68<br>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:
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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: September 27, 2019 8:59:25 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
PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

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

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

Know what's below. Call before you dig.

GRAPHIC SCALE

40' 0' 40' 80'

( IN FEET )
1 inch = 40 ft.

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

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

| STRUCTURE TABLE | | | |
|---|---|---|---|
| NAME | TYPE | DETAILS | N & E |
| INLET 1-D | 15' ON-GRADE TYPE R INLET | RIM = 5865.12<br>PIPE - 23 INV OUT (24") = 5858.43 | N: 6882.78<br>E: 13302.14 |
| INLET 1-E | 10' SUMP TYPE R INLET | RIM = 5855.46<br>PIPE - 28 INV OUT (24") = 5849.95 | N: 6712.74<br>E: 13374.91 |
| INLET 2-E | 10' SUMP TYPE R INLET | RIM = 5855.46<br>PIPE - 27 INV OUT (24") = 5849.72 | N: 6676.22<br>E: 13363.24 |
| MH - 11 | 6.33' X 6.33' TYPE I 1' DROP MH | RIM = 5864.85<br>PIPE - 22 INV IN (42") = 5856.78<br>PIPE - 23 INV IN (24") = 5858.28<br>PIPE - 24 INV OUT (42") = 5855.78 | N: 6894.86<br>E: 13311.48 |
| MH - 13 | 6.33' X 6.33' TYPE I MH | RIM = 5856.07<br>PIPE - 25 INV IN (42") = 5847.30<br>PIPE - 26 INV IN (30") = 5848.30<br>PIPE - 29 INV OUT (48") = 5846.80 | N: 6662.28<br>E: 13430.61 |
| MH - 14 | 4' TYPE II MH | RIM = 5855.10<br>PIPE - 28 INV IN (24") = 5849.64<br>PIPE - 27 INV IN (24") = 5849.64<br>PIPE - 26 INV OUT (30") = 5848.64 | N: 6683.40<br>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.
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3. ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
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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: September 27, 2019 9:05:38 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 (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

PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

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

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

Know what's below. Call before you dig.

| STRUCTURE TABLE | | | |
|---|---|---|---|
| NAME | TYPE | DETAILS | N & E |
| FES - 6 | 48" FES | RIM = 5846.61<br>PIPE - 142 INV OUT (48") = 5842.11 | N: 6942.72<br>E: 13969.73 |
| INLET 1-I | 10' SUMP TYPE R INLET | RIM = 5849.30<br>PIPE - 65 INV OUT (18") = 5845.25 | N: 6868.66<br>E: 13884.96 |
| INLET 2-I | 5' SUMP TYPE R INLET | RIM = 5849.30<br>PIPE - 66 INV OUT (18") = 5844.89 | N: 6812.31<br>E: 13884.17 |
| MH - 30 | 4' TYPE II MH | RIM = 5849.06<br>PIPE - 65 INV IN (18") = 5844.79<br>PIPE - 66 INV IN (18") = 5844.79<br>PIPE - 64 INV OUT (24") = 5844.29 | N: 6822.48<br>E: 13884.73 |
| MH - 31 | 6.33' X 6.33' TYPE I MH | RIM = 5850.03<br>PIPE - 63 INV IN (48") = 5840.21<br>PIPE - 64 INV IN (24") = 5841.31<br>PIPE - 67 INV OUT (48") = 5839.91 | N: 6821.46<br>E: 14003.48 |
| MH - 48 | 6.33' X 6.33' TYPE I MH | RIM = 5849.23<br>PIPE - 152 INV IN (48") = 5840.84<br>PIPE - 142 INV IN (48") = 5840.94<br>PIPE - 63 INV OUT (48") = 5840.74<br>PIPE - 223 INV OUT (24") = 5840.64<br>PIPE - 224 INV OUT (24") = 5840.64 | N: 6927.90<br>E: 14005.16 |

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'

| PIPE TABLE | | | | |
|---|---|---|---|---|
| PIPE NAME | BEARING | LENGTH | SLOPE | SIZE |
| 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 |
| PIPE - 142 | N67°18'32"W | 38.4' | 3.05% | 48" RCP |

NOTES:
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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: September 27, 2019 9:52:11 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 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
PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

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

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

Know what's below. Call before you dig.

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

| STRUCTURE TABLE | | | |
|---|---|---|---|
| NAME | TYPE | DETAILS | N & E |
| HEADWALL 1 | 25'-1/2" HEADWALL | RIM = 5824.23<br>PIPE - 72 INV IN (48") = 5819.57 | N: 6121.72<br>E: 13768.57 |
| INLET 5-I | 10' SUMP TYPE R INLET WITH 1' DROP | RIM = 5840.32<br>PIPE - 70 INV IN (48") = 5829.04<br>PIPE - 71 INV OUT (48") = 5828.04 | N: 6346.94<br>E: 13826.64 |
| MH - 31 | 6.33' X 6.33' TYPE I MH | RIM = 5850.03<br>PIPE - 63 INV IN (48") = 5840.21<br>PIPE - 64 INV IN (24") = 5841.31<br>PIPE - 67 INV OUT (48") = 5839.91 | N: 6821.46<br>E: 14003.48 |
| MH - 32 | 6.33' X 6.33' TYPE I 1' DROP MH | RIM = 5844.99<br>PIPE - 67 INV IN (48") = 5837.11<br>PIPE - 68 INV OUT (48") = 5836.11 | N: 6582.59<br>E: 13879.65 |
| MH - 33 | 6.33' X 6.33' TYPE I 1' DROP MH | RIM = 5844.05<br>PIPE - 68 INV IN (48") = 5834.87<br>PIPE - 69 INV OUT (48") = 5833.87 | N: 6516.10<br>E: 13776.02 |
| MH - 34 | 6.33' X 6.33' TYPE I 1' DROP MH | RIM = 5841.43<br>PIPE - 69 INV IN (48") = 5831.93<br>PIPE - 70 INV OUT (48") = 5830.93 | N: 6435.89<br>E: 13812.37 |
| MH - 35 | 6.33' X 6.33' TYPE I 1' DROP MH | RIM = 5831.97<br>PIPE - 71 INV IN (48") = 5824.23<br>PIPE - 72 INV OUT (48") = 5820.67 | N: 6173.69<br>E: 13747.51 |
| MH - 48 | 6.33' X 6.33' TYPE I MH | RIM = 5849.23<br>PIPE - 152 INV IN (48") = 5840.84<br>PIPE - 142 INV IN (48") = 5840.94<br>PIPE - 63 INV OUT (48") = 5840.74<br>PIPE - 223 INV OUT (24") = 5840.64<br>PIPE - 224 INV OUT (24") = 5840.64 | N: 6927.90<br>E: 14005.16 |

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°54'08"W | 106.5' | 0.50% | 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 |

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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: September 27, 2019 9:52:22 AM
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SHEET KEY

BENCHMARK
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PREPARED BY:
Matrix DESIGN GROUP

SEAL
PRELIMINARY
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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

| | | | | | |
|---|---|---|---|---|---|
| DESIGNED BY: KMZ | SCALE | DATE ISSUED: SEPTEMBER, 2019 | DRAWING No. |
| DRAWN BY: LCB | HORIZ. 1" = 40' | SHEET 60 OF 73 | SD14 |
| 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 |
| 13 | N 5,982.06<br>E 13,049.72 | 18" RCP STORM<br>5857.05 | 8" PVC WATER<br>5858.05 | 1.00' |
| 36 | N 5,986.69<br>E 13,040.96 | 8" PVC SAN<br>5850.14 | 18" RCP STORM<br>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 WITH 1' DROP | RIM = 5863.61<br>PIPE - 41 INV IN (18") = 5857.28<br>PIPE - 40 INV OUT (18") = 5856.28 | N: 5995.43<br>E: 13023.79 |
| INLET 6-F | 10' ON-GRADE TYPE R INLET WITH 1' DROP | RIM = 5863.57<br>PIPE - 40 INV IN (18") = 5855.13<br>PIPE - 39 INV OUT (18") = 5854.13 | N: 5977.85<br>E: 13057.86 |
| MH - 19 | 4' TYPE II 1' DROP MH | RIM = 5847.06<br>PIPE - 38 INV IN (18") = 5841.17<br>PIPE - 37 INV OUT (24") = 5840.17 | N: 5901.55<br>E: 13349.10 |
| MH - 20 | 4' TYPE II 1' DROP MH | RIM = 5857.63<br>PIPE - 39 INV IN (18") = 5848.48<br>PIPE - 38 INV OUT (18") = 5847.48 | N: 5934.33<br>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:
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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: September 27, 2019 9:18:07 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
PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

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

| | | | | | |
|---|---|---|---|---|---|
| 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<br>E 13,595.07 | 48" RCP STORM<br>5830.98 | 8" PVC WATER<br>5836.23 | 5.25' |
| 20 | N 6,015.43<br>E 13,530.21 | 8" PVC WATER<br>5831.26 | 18" RCP STORM<br>5836.10 | 4.84' |
| 38 | N 6,020.11<br>E 13,585.98 | 8" PVC SAN<br>5821.49 | 48" RCP STORM<br>5823.46 | 1.97' |
| 39 | N 6,006.40<br>E 13,534.70 | 8" PVC SAN<br>5824.56 | 18" RCP STORM<br>5836.00 | 11.44' |

| STRUCTURE TABLE | | | |
|---|---|---|---|
| NAME | TYPE | DETAILS | N & E |
| HEADWALL 2 | 24'-5 1/8" HEADWALL | RIM = 5824.23<br>PIPE - 33 INV IN (48") = 5819.57 | N: 6088.17<br>E: 13738.21 |
| INLET 1-G | 10' ON-GRADE TYPE R INLET WITH 1' DROP | RIM = 5842.12<br>PIPE - 32 INV IN (48") = 5826.37<br>PIPE - 33 INV OUT (48") = 5825.38 | N: 6028.42<br>E: 13603.45 |
| INLET 7-F | 10' SUMP TYPE R INLET | RIM = 5841.74<br>PIPE - 35 INV OUT (18") = 5836.40 | N: 6023.63<br>E: 13526.12 |
| INLET 8-F | 5' SUMP TYPE R INLET | RIM = 5841.64<br>PIPE - 36 INV OUT (18") = 5836.18 | N: 5989.35<br>E: 13543.28 |
| MH - 17 | 6.33' X 6.33' TYPE I MH WITH 7.57' DROP | RIM = 5841.92<br>PIPE - 31 INV IN (48") = 5833.14<br>PIPE - 34 INV IN (30") = 5834.64<br>PIPE - 32 INV OUT (48") = 5827.07 | N: 6014.58<br>E: 13574.89 |
| MH - 18 | 4' TYPE II MH | RIM = 5841.39<br>PIPE - 35 INV IN (18") = 5836.10<br>PIPE - 37 INV IN (24") = 5835.60<br>PIPE - 36 INV IN (18") = 5836.10<br>PIPE - 34 INV OUT (30") = 5835.10 | N: 5996.88<br>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 - 32 | S64°08'25"W | 31.7' | 2.20% | 48" RCP |
| 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 - 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: September 27, 2019 9:18:29 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

PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

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

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

LOOKED AT BROKEN BACK OPTION, BUT MH IS BETTER DESIGN FOR HGLS

Analyze if a single-broken back culvert will work with no manhole.

Double check the criteria manual, but I believe the ECM or the DCM is silent with regards to broken back culvert design.

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: September 27, 2019 9:25:49 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

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PREPARED BY:
Matrix DESIGN GROUP

SEAL
PRELIMINARY
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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

| | | | | |
|---|---|---|---|---|
| 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 |

FDR REVISED

side slopes does not match the drainage report

**User Input: Emergency Spillway (Rectangular or Trapezoidal)**

| | | |
|---|---|---|
| Spillway Invert Stage= | 8.08 | ft (relative to basin bottom at Stage = 0 ft) |
| Spillway Crest Length = | 136.00 | feet |
| Spillway End Slopes = | 5.00 | H:V |
| Freeboard above Max Water Surface = | 1.00 | feet |

**Routed Hydrograph Results**

low.
you dig.

GRAPHIC SCALE

50' 0' 50' 100'

( IN FEET )
1 inch = 50 ft.

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 |
|---|---|---|---|

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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: September 27, 2019 9:27:44 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

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PREPARED BY:
Matrix DESIGN GROUP

SEAL

PRELIMINARY
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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

| | | | |
|---|---|---|---|
| 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: September 27, 2019 10:21:44 AM
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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

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PREPARED BY:

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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

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

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: September 27, 2019 10:21:50 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.
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PREPARED BY:
Matrix DESIGN GROUP

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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

| | | | | | |
|---|---|---|---|---|---|
| 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: September 27, 2019 10:22:00 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,
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PREPARED BY:

Matrix DESIGN GROUP

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PROJECT No. 19.886.011

# TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

## OUTLET STRUCTURE DETAILS -3

| | | | | | |
|---|---|---|---|---|---|
| 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: September 27, 2019 10:22:12 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

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PREPARED BY:
Matrix DESIGN GROUP

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PROJECT No. 19.886.011

# TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

## OUTLET STRUCTURE DETAILS - 4

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

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: September 27, 2019 10:22:25 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

BENCHMARK
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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
PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

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

| | | | | | |
|---|---|---|---|---|---|
| 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

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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

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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

| | | | | | |
|---|---|---|---|---|---|
| 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 |
|---|---|---|---|

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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,
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PROJECT No. 19.886.011

# TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

## RAILING DETAILS

| | | | | | |
|---|---|---|---|---|---|
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| CHECKED BY: KSL | VERT. N.A. | | SHEET 71 OF 73 | DT07 |

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

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 F
H: 1"=1'

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

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

SECTION D
H: 1"=2'

SECTION C
H: 1"=1'

SECTION E
H: 1"=2'

SPILLWAY STEM WALL DETAIL
(NOT TO SCALE)

EMERGENCY SPILLWAY DETAILS
(NTS)

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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.
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PREPARED BY:
Matrix DESIGN GROUP

SEAL
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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

| | | | | | |
|---|---|---|---|---|---|
| DESIGNED BY: WME | SCALE | DATE ISSUED: SEPTEMBER 2019 | DRAWING No. |
| DRAWN BY: WME | HORIZ. N/A | SHEET 73 OF 73 | DT09 |
| CHECKED BY: JTS | VERT. N/A | | |

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.

811 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<br>SUMP = 5868.730<br>UD - 1 INV IN = 5868.730<br>UD - 2 INV OUT = 5868.733 |
| CO - 2 | RIM = 5870.103<br>SUMP = 5868.440<br>UD - 2 INV IN = 5868.440<br>UD - 3 INV OUT = 5868.440 |
| CO - 3 | RIM = 5869.912<br>SUMP = 5868.246<br>UD - 3 INV IN = 5868.246<br>UD - 4 INV OUT = 5868.250 |
| CO - 4 | RIM = 5869.806<br>SUMP = 5867.950<br>UD - 4 INV IN = 5867.950<br>UD - 5 INV OUT = 5867.950 |
| CO - 5 | RIM = 5870.320<br>SUMP = 5867.650<br>UD - 6 INV IN = 5867.653<br>UD - 7 INV OUT = 5867.650 |
| CO - 6 | RIM = 5870.320<br>SUMP = 5867.490<br>UD - 7 INV IN = 5867.492<br>UD - 8 INV OUT = 5867.490 |
| OUTLET STRUCTURE | RIM = 5872.550<br>SUMP = 5867.210<br>UD - 8 INV IN = 5867.459<br>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.

(HS 20 LOADING)

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 |
|---|---|---|---|

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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,
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BASIS OF BEARING

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PREPARED BY:

Matrix DESIGN GROUP

SEAL

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PROJECT No. 19.886.011

# TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

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

| | | | | | |
|---|---|---|---|---|---|
| DESIGNED BY: WME | SCALE | | DATE ISSUED: SEPTEMBER, 2019 | DRAWING No. |
| DRAWN BY: WME | HORIZ. 1" = 40' | | | |
| CHECKED BY: JTS | VERT. 1" = 5' | | SHEET 72 OF 73 | DT08 |