

DRAINAGE LETTER REPORT

For
BENT GRASS COMMERCIAL

Bent Grass Market View
El Paso County, Colorado

August, 2026

PCD File No: **PPR2625**

Prepared for:

Copetstone General Contractors
555 Amelia Street, Suite 100
Colorado Springs, CO 80915
Contact: Nathan Derwick
(719) 578-6155

Prepared by:

Drexel, Barrell & Co.
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APPENDICES

VICINITY MAP
SOILS MAP
FLOODPLAIN MAP
HYDROLOGY CALCULATIONS
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DRAINAGE MAP

No drainage map was included for the pre-development conditions.

DRAINAGE LETTER REPORT
for
BENT GRASS COMMERCIAL

1.0 CERTIFICATION STATEMENTS

Engineer's Statement

The attached drainage plan and report were prepared under my direction and supervision and are correct to the best of my knowledge and belief. Said drainage report has been prepared according to the criteria established by the city/county for drainage reports and said report is in conformity with the master plan of the drainage basin. I accept responsibility for any liability caused by any negligent acts, errors or omissions on my part in preparing this report.

SIGNATURE (Affix Seal): _____
For and on behalf of Drexel, Barrell & Co. Date
Katherine Varnum, P.E. #53459

Developer's Statement

I, the owner/developer have read and will comply with all of the requirements specified in this drainage report and plan.

Nathan Derwick, President Date
Copestone General Contractors
555 Amelia Street, Suite 100
Colorado Springs, CO 80915

El Paso County

Filed in accordance with the requirements of the Drainage Criteria Manual, Volumes 1 and 2, El Paso County Engineering Criteria Manual and Land Development Code as amended.

Joshua Palmer, P.E. Date
County Engineer / ECM Administrator

Conditions:

Please insert the initial "J."

DRAINAGE LETTER REPORT
for
BENT GRASS COMMERCIAL

2.0 PURPOSE

The purpose of this letter is to supplement the Final Drainage Report for Bent Grass East Commercial Filing No. 3 (approved November 2, 2021) with regards to the development Bent Grass Commercial, a replat of Lots 4, 5, & 6 Bent Grass East Commercial Filing No. 3, in order to establish that the development is in conformance with the approved drainage design.

Runoff patterns, drainage facilities and the ability to safely pass developed runoff to historic downstream facilities shall be presented.

3.0 GENERAL SITE DESCRIPTION

Location

Bent Grass Commercial, a replat of Lots 4, 5, & 6 of Bent Grass East Commercial Filing No. 3 is located in Peyton, El Paso County, Colorado, within the Southeast Quarter of Section 1, Township 13 South, Range 65 West of the 6th P.M. El Paso County, Colorado. The property is bounded to the north by Bent Grass Market View, to the east is Meridian Park Drive, Tract A of Bent Grass East Commercial to the south, and Bent Grass Residential Filing No. 1 lots to the west.

Proposed Development

The proposed development of Lots 4, 5, & 6 is the construction of a child care facility, with associated parking and landscaping. The proposed disturbed area consists of 1.36 acres. The property is proposed to be replatted as Bent Grass Commercial with three different lots.

Soils

According to the Soil Survey of El Paso County Area, Colorado, prepared by the U.S. Department of Agriculture Soil Conservation Service, the site is underlain by the Columbine gravelly sandy loam (Soil No. 19), a hydrologic type A soils. See appendix for Soils map.

Climate

This area of El Paso County can be described as the foothills, with total precipitation amounts typical of a semi-arid region. Winters are generally cold and dry, and summers relatively warm and dry. Precipitation ranges from 12 to 14 inches per year, with the majority of this moisture occurring in the spring and summer in the form of rainfall. Thunderstorms are common during the summer months.

Floodplain Statement

According to the Federal Emergency Management Agency Flood Insurance Rate Map (FIRM) Panel 08041C055, the site lies within a designated floodplain.

Please do not refer to the approved Final Drainage Report instead borrow from it what you need, then provide the existing related exhibits, label them, and then provide the necessary discussions.

Insurance Rate Map (FIRM) Panel 08041C055, the site lies within a designated floodplain.

4.0 DRAINAGE CRITERIA

The drainage analysis has been prepared in accordance with the current El Paso County Drainage Criteria Manual. Calculations were performed to determine runoff quantities during the 5-year and 100-year frequency storms for existing and developed conditions using the Rational Method as required for basins containing less than 100 acres.

5.0 EXISTING CONDITION

The existing condition is as described in the aforementioned approved Final Drainage Report for the Bent Grass East Commercial Filing No. 3 development, as part of Basins B, C, and D (see appendix for drainage report excerpts). Overlot grading has been completed and an access roadway, detention facility and utility infrastructure have been installed. The site generally follows a 3%-5% grade from north to south and currently drains directly to the south towards the existing water quality detention facility.

6.0 DEVELOPED CONDITION

The proposed development consists of a childcare facility and associated parking and landscaping. The proposed grading and storm system will route flows to the south where they will enter the existing private 24" RCP storm sewer and be directed towards the existing water quality detention facility, Pond 2. Which was approved as part of Bent Grass East Commercial Filing No. 2 (SF1412).

The table below lists the basins and design points along with their developed flow rates.

DEVELOPED				
BASIN	DP	Area (Ac.)	Q ₅ (CFS)	Q ₁₀₀ (CFS)
OS1	OS1	0.42	0.1	0.9
A	1	0.28	1.0	1.9
B	2	0.23	0.8	1.4
C	3	0.44	1.7	3.2
D	4	0.15	0.1	0.4
E	5	0.07	0.1	0.3
F	6	0.02	0.07	0.1
G	7	0.57	0.2	1.4
H		0.84	0.3	1.9
DPOS1+H	8	1.27	0.4	2.8

Provide similar table to the existing conditions and then compare the results for the 5 - year and 100 - year between development conditions to developed conditions that would allow you to make the conclusion you made.

Basin A is 0.28-acres of primarily parking area with some surrounding landscaping, located at the northern side of the site. The runoff generated within this basin is directed via curb and gutter as well as a concrete drainage chase towards a proposed, private, Type C area inlet located on the east side of the basin. The runoff entering the inlet, **Design Point 1**, has rates of $Q_5=1.0$ cfs and $Q_{100}=1.9$ cfs, and flows directly into the existing, private, 24" RCP storm sewer that bisects the site.

Basin B represents the 10,000 s.f. proposed single-story building, located in the middle of the site. The runoff captured on the buildings roof is directed towards the roof drains at rates of $Q_5=0.8$ cfs and $Q_{100}=1.4$ cfs before being discharged directly into the same existing, private, 24" RCP storm sewer as previously mentioned for **Basin A**.

Basin C is 0.44-acres and consists of the western parking area for the site, as well as some surrounding sidewalks and landscaping. The runoff generated within this basin has rates of $Q_5=1.7$ cfs and $Q_{100}=3.2$ cfs and is directed south via a combination of curb and gutters as well as a concrete drainage chase. Eventually the runoff is captured by a proposed, private, 5' Type R curb inlet located at the southern end of the site, **Design Point 3**. After being captured at **DP3** the runoff is directed east via a proposed, private, 18" RCP storm sewer before joining the same existing, private, 24" RCP storm sewer mentioned for the previous basins.

Basin D is 0.15-acres located along the southern side of the site and is primarily made up of playground area for the childcare facility. This basin creates runoff rates of $Q_5=0.1$ cfs and $Q_{100}=0.4$ cfs, this runoff sheet flows to the south before being directly discharged into the existing, private, detention pond directly south of the site.

Basin E is a relatively small, 0.07-acre, basin that runs down the east side of the proposed building and playground, **Basin B** and **Basin D**. This basin creates runoff with rates of $Q_5=0.1$ cfs and $Q_{100}=0.3$ cfs, that will be directed east and south. Eventually this runoff will be directly discharged into the existing, private, detention pond.

Basin F consists of a proposed 5' sidewalk that will run along the southern side of Bent Grass Market View. This 0.02-acre basin directs runoff with rates of $Q_5=0.07$ cfs and $Q_{100}=0.1$ cfs, directly into Bent Grass Market View, where it will travel east via curb and gutter towards an existing, private, 5' Type R sump inlet. This runoff from the site was already accounted for in the original Bent Grass East Commercial Filing No. 3 Drainage Report. See Appendix for inlet calculations.

Basin G represents the eastern portion of the site which will remain undisturbed for this development. This 0.57-acre basin produces runoff with rates of $Q_5=0.2$ cfs and $Q_{100}=1.4$ cfs, whose drainage pattern will remain unchanged from the previous report. Runoff sheet flows into Lot 3B of Bent Grass East Commercial Filing No. 2B.

Basin OS1 is a 0.42-acre offsite basin that is located along the western boundary of the site, containing the backyards of a number of residential lots from the Bent Grass Residential Filing No. 1 development. This basin creates runoff with rates of $Q_5=0.1$ cfs and $Q_{100}=0.9$ cfs that are directed southeast, sheet flowing into **Basin H** through **Design Point OS1 (DPOS1)**.

Basin H represents the western portion of the site which will remain largely undisturbed for the development, aside from a concrete pad being added to the southeast corner of the basin to act as a vehicle turnaround. This 0.84-acre basin creates runoff with rates of $Q_5=0.3$ cfs and $Q_{100}=1.9$ cfs that follows the same drainage pattern as described in the previous drainage report, flowing south and discharging directly into the detention pond south of the site.

Flow Comparison

Comparison Flows					
Existing	Q5	Q100	Developed	Q5	Q100
DP3	7.0	13.0	DP1-5+DP8	4.1	10.1
Basin D	3.0	6.0	DP7	0.2	1.4

The above table shows the comparison of existing vs. proposed flows leaving the site. As indicated, developed flows are less than those calculated in the existing conditions.

7.0 FOUR STEP PROCESS

This project conforms to the El Paso County Four Step Process. The process for this site focuses on reducing runoff volumes, treating the water quality capture volume (WQCV), stabilizing drainage ways, and implementing long-term source controls.

1. **Employ Runoff Reduction Practices:** Proposed impervious areas on this site (roofs, asphalt/sidewalk) will sheet flow across landscaped ground as much as possible to slow runoff and increase time of concentration prior to being conveyed to the proposed public streets and storm sewer system. This will minimize directly connected impervious areas within the project site.
2. **Implement BMP's that provide a Water Quality Capture Volume with slow release:** Runoff from this project will be routed through onsite storm sewer to an existing detention basin to the south. This will allow for the runoff to be treated for water quality before discharging into the offsite storm system. Provide PCM identifier (Pond 2) and PCD file number
3. **Stabilize Drainage Ways:** No drainage ways exist within the project boundaries. Runoff will enter the storm sewer system, and be directed towards the existing detention basin to the south, this will allow for flow rate reduction and protection of downstream facilities.
4. **Implement Site Specific and Other Source Control BMP's:** Standard commercial source control will be utilized in order to minimize potential pollutants entering the storm system. Example source control measures consist of: indoor storage of chemicals; and trash receptacles in common areas.

8.0 DRAINAGE & BRIDGE FEES

Drainage and bridge fees are not required as the site has been previously platted.

Add a section that discusses if pond 2 was designed to accept these flows, if the current proposal falls within the previous design assumptions (compare i% values for the basins), and if any improvements to the pond are required. Verify if the existing orifice plate will need to be updated to maintain drain times mandated by state senate bill 15-212, CRS 37-92-602(8), or if drain times will be met with the existing plate. Reference previous reports as necessary.

If any pond updates/upgrades are required provide a cost estimate in this report and include the value in the FAE form



9.0 SUMMARY

Development of Bent Grass Commercial, a replat of Lots 4, 5, & 6 of Bent Grass East Commercial Filing No. 3 will not adversely affect surrounding or downstream developments. All the of the developed flows being generated on, and subsequently leaving the site are less than those anticipated in the initial Final Drainage Report and analysis of the existing storm system that conveys the flows to the south has determined that the storm system adequately sized to accommodate the flows from the site. Therefore, it is acceptable to state that the drainage design for Lots 4, 5, & 6 (Bent Grass Commercial replat) is in conformance with the Final Drainage Report from the original Bent Grass East Commercial Filing No. 3.

The downstream existing detention facility is functioning as intended and was designed to treat flows generated by this property.

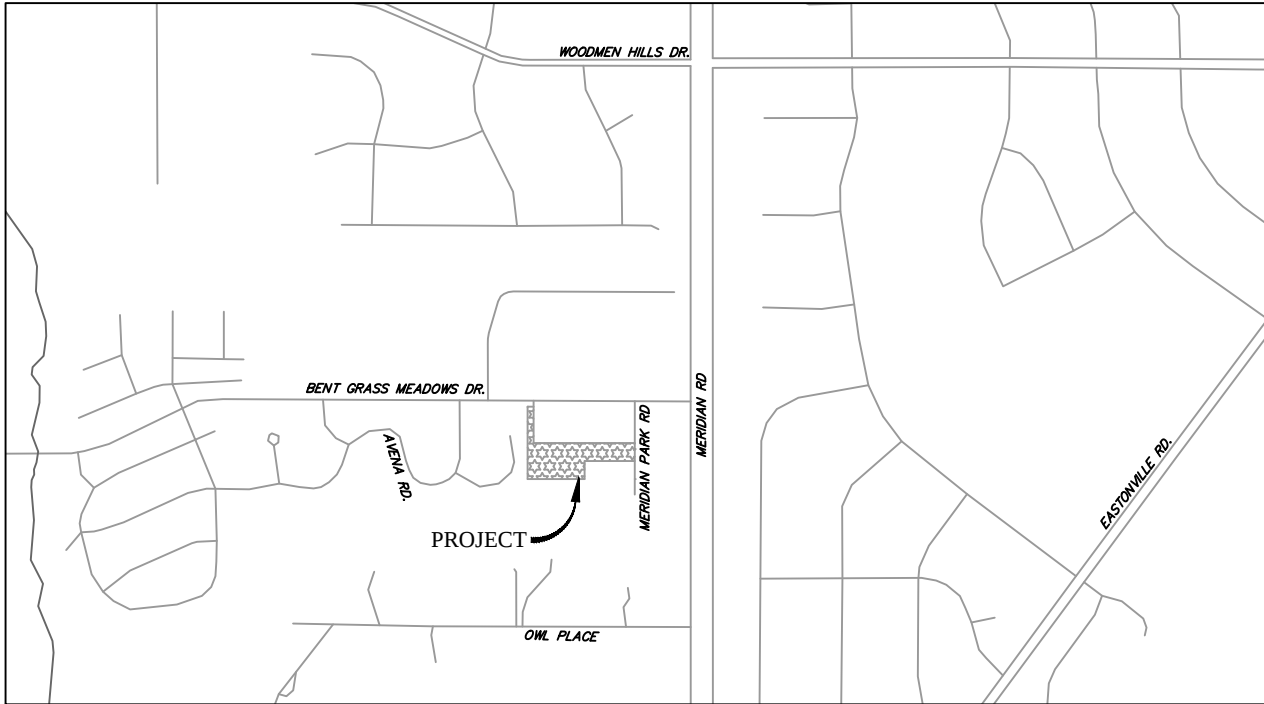
10.0 REFERENCES

The sources of information used in the development of this study are listed below:

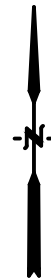
1. El Paso County Drainage Criteria Manual, 10-31-2018.
2. El Paso County Land Development Code, 5-25-2023.
3. Final Drainage Report for Bent Grass East Commercial Filing No. 3 (Classic Consulting) 11-02-2021. Amended 4-21-2022
4. United States Department of Agriculture – National Resources Conservation Service. Web Soil Survey.
5. Federal Emergency Management Agency (FEMA) Flood Map Service Center.

Use Section 9 for to discuss Basin fee and Bridge Fee here: Indicate that Basin and Bridge Fee were paid with the Final Plat for Brent Grass East Commercial Filing No. 3 "R15062". No additional Basin fee and no additional Bridge fee are required.

Appendix



Vicinity Map
Not to scale



BENT GRASS COMMERCIAL
EL PASO COUNTY, CO
VICINITY MAP

Drexel, Barrell & Co.
Engineers • Surveyors

DATE:

DWG. NO.

JOB NO:

21814-01CSCV

VMAP

SHEET 1 OF 1



United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

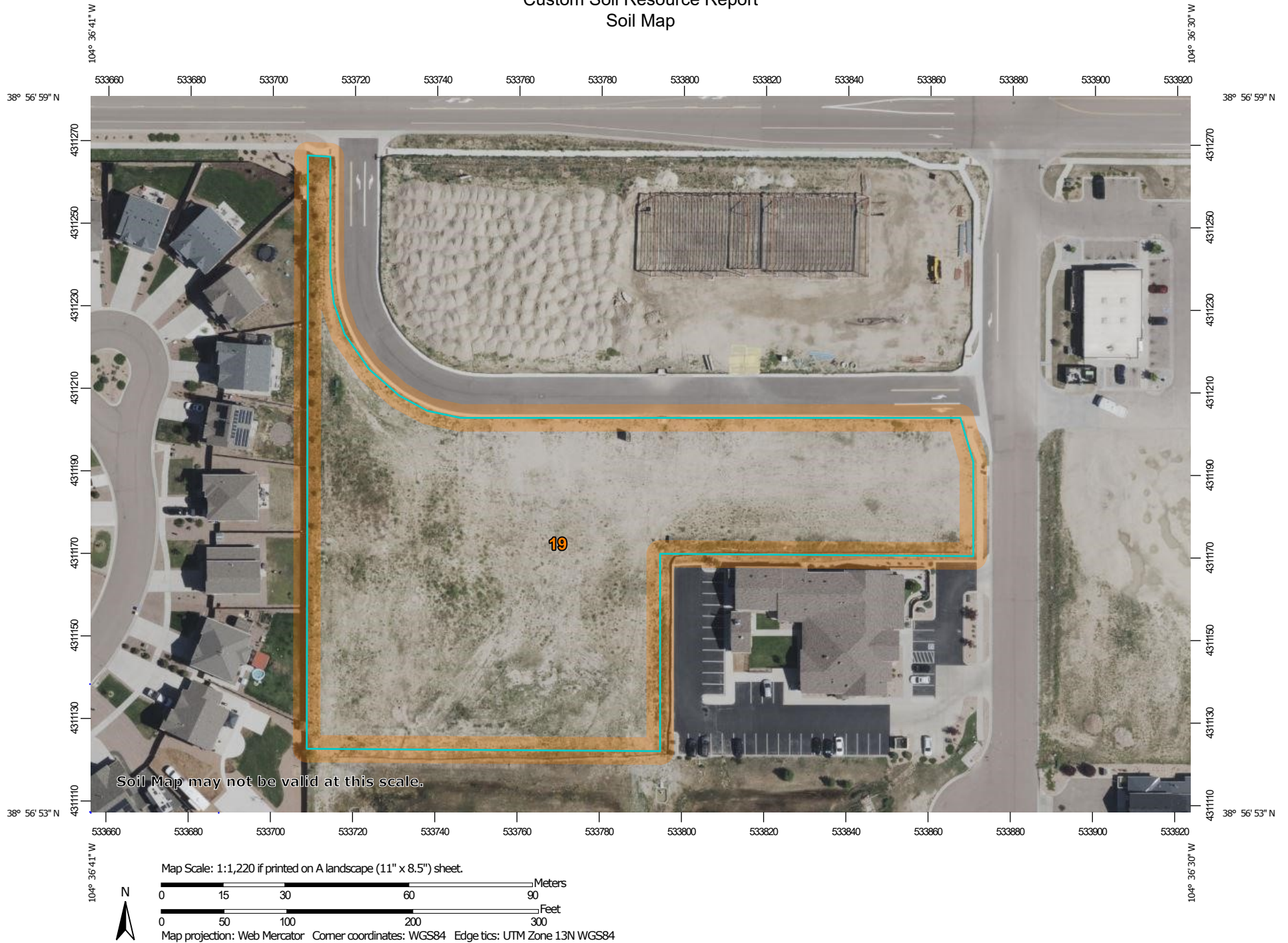
A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for **El Paso County Area, Colorado**



August 12, 2026

Custom Soil Resource Report Soil Map



Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot

 Sinkhole

 Slide or Slip

 Sodic Spot

 Spoil Area

 Stony Spot

 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals

Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: El Paso County Area, Colorado
Survey Area Data: Version 23, Aug 29, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 23, 2024—Aug 4, 2024

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
19	Columbine gravelly sandy loam, 0 to 3 percent slopes	2.5	100.0%
Totals for Area of Interest		2.5	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Custom Soil Resource Report

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

El Paso County Area, Colorado

19—Columbine gravelly sandy loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 367p
Elevation: 6,500 to 7,300 feet
Mean annual precipitation: 14 to 16 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 125 to 145 days
Farmland classification: Not prime farmland

Map Unit Composition

Columbine and similar soils: 97 percent
Minor components: 3 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Columbine

Setting

Landform: Fans, Fan terraces, Flood plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium

Typical profile

A - 0 to 14 inches: gravelly sandy loam
C - 14 to 60 inches: very gravelly loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: A
Ecological site: R049XY214CO - Gravelly Foothill
Hydric soil rating: No

Minor Components

Fluvaquentic haplaquolls

Percent of map unit: 1 percent
Landform: Swales
Hydric soil rating: Yes

Custom Soil Resource Report

Other soils

Percent of map unit: 1 percent

Hydric soil rating: No

Pleasant

Percent of map unit: 1 percent

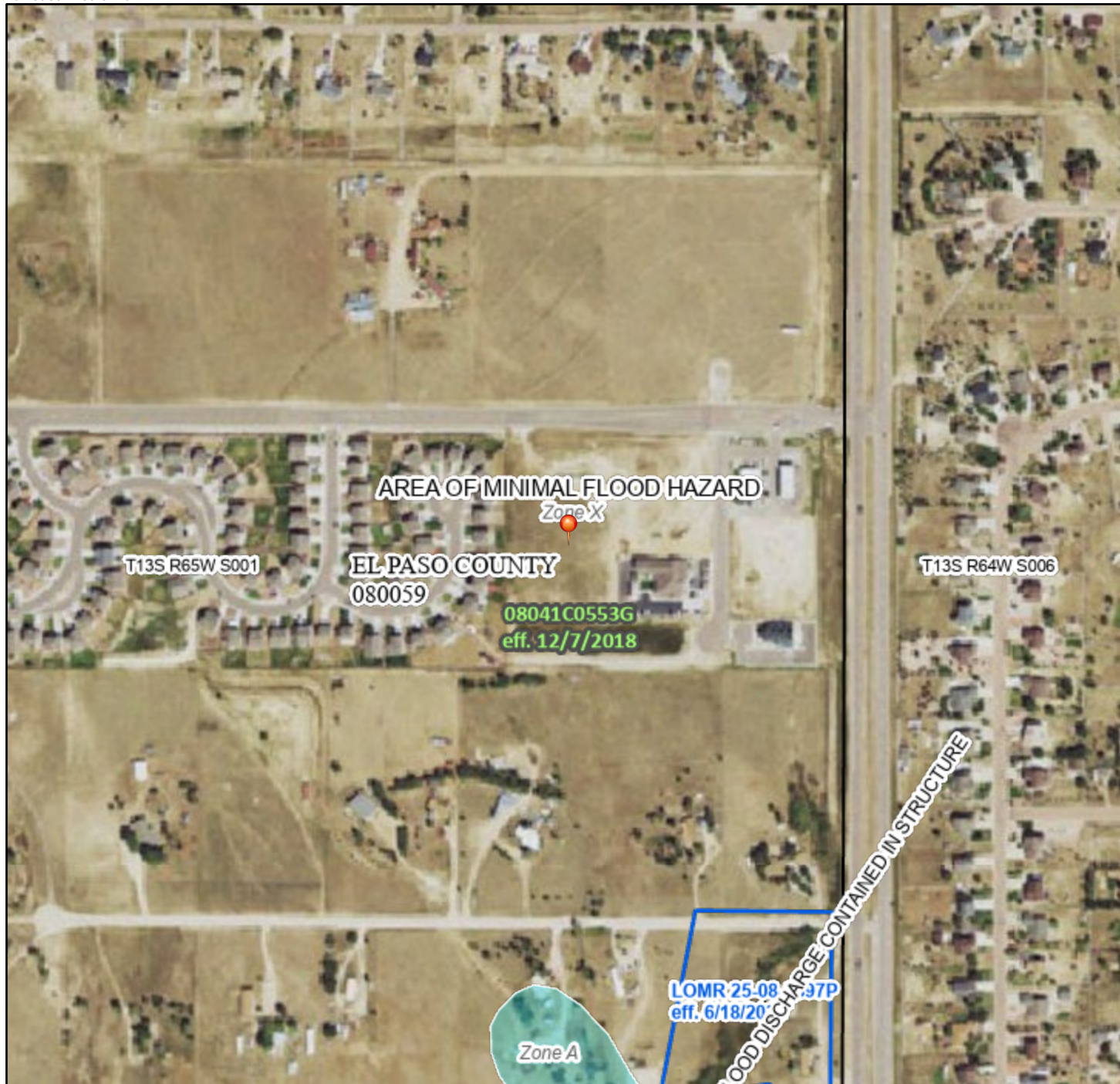
Landform: Depressions

Hydric soil rating: Yes

National Flood Hazard Layer FIRMette



104°36'56"W 38°57'10"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

104°36'19"W 38°56'42"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **8/12/2026 at 8:55 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Label these sheets as reference material from a previous report (and provide PCD file number) or provide difference appendix sections for reference material and your calculations

Ensure reference sheets are clearly labeled throughout report. It's difficult to track when they are mixed together, and it can be confusing when basin IDs/DPs aren't shared.

JOB NAME: **BENT GRASS EAST COMMERCIAL FILING NO. 3**
 JOB NUMBER: **2177.64**
 DATE: **11/04/20**
 CALCULATED BY: **MAW**

FINAL DRAINAGE REPORT ~ BASIN RUNOFF COEFFICIENT SUMMARY

BASIN	TOTAL AREA (AC)	IMPERVIOUS AREA / STREETS				LANDSCAPE/UNDEVELOPED AREAS				WEIGHTED			WEIGHTED CA		
		AREA (AC)	C(2)	C(5)	C(100)	AREA (AC)	C(2)	C(5)	C(100)	C(2)	C(5)	C(100)	CA(2)	CA(5)	CA(100)
A	1.4	1.10	0.89	0.90	0.96	0.30	0.02	0.08	0.35	0.70	0.72	0.83	0.99	1.01	1.16
B	0.4	0.30	0.89	0.90	0.96	0.10	0.02	0.08	0.35	0.67	0.70	0.81	0.27	0.28	0.32
C	2.0	1.60	0.89	0.90	0.96	0.40	0.02	0.08	0.35	0.72	0.74	0.84	1.43	1.47	1.68
D	0.9	0.75	0.89	0.90	0.96	0.15	0.02	0.08	0.35	0.75	0.76	0.86	0.67	0.69	0.77
E	0.3	0.05	0.89	0.90	0.96	0.25	0.02	0.08	0.35	0.17	0.22	0.45	0.05	0.07	0.14
K	1.0	0.35	0.89	0.90	0.96	0.65	0.02	0.08	0.35	0.32	0.37	0.56	0.32	0.37	0.56

JOB NAME: BENT GRASS EAST COMMERCIAL FILING NO. 3
 JOB NUMBER: 2177.64
 DATE: 11/04/20
 CALC'D BY: MAW

Table 6-7. Conveyance Coefficient, C_v

Type of Land Surface	C_v
Heavy meadow	2.5
Tillage/field	5
Riprap (not buried)* $t_c = \frac{L}{180} + 10$	6.5
Short pasture and lawns	7
Nearly bare ground	10
Grassed waterway	15
Paved areas and shallow paved swales	20

*For buried riprap, select C_v value based on type of vegetative cover.

$$t_i = \frac{0.395(1.1 - C_s)\sqrt{L}}{S^{0.33}} \quad V = C_v S_w^{0.5} \quad T_c = L/V$$

FINAL DRAINAGE REPORT ~ BASIN RUNOFF SUMMARY

BASIN	TOTAL AREA (AC)	WEIGHTED			OVERLAND				STREET / CHANNEL FLOW				Tc TOTAL (min)	INTENSITY			TOTAL FLOWS		
		CA(2)	CA(5)	CA(100)	C(5)	Length (ft)	Height (ft)	Tc (min)	Length (ft)	Slope (%)	Velocity (fps)	Tc (min)		I(2) (in/hr)	I(5) (in/hr)	I(100) (in/hr)	Q(2) (cfs)	Q(5) (cfs)	Q(100) (cfs)
A	1.4	0.99	1.01	1.16	0.08	30	2	5.4	250	2.0%	1.0	4.2	9.6	3.34	4.19	7.03	3	4	8
B	0.4	0.27	0.28	0.32	0.08	10	0.2	4.6	100	1.5%	0.9	1.9	6.6	3.79	4.76	7.99	1	1	3
C	2.0	1.43	1.47	1.68	0.08	30	1.5	5.9	400	2.0%	1.0	6.7	12.7	3.01	3.77	6.34	4	6	11
D	0.9	0.67	0.69	0.77	0.08	10	0.2	4.6	200	2.0%	1.4	2.4	7.0	3.72	4.67	7.83	2	3	6
E	0.3	0.05	0.07	0.14	0.08	25	0.5	7.3					7.3	3.67	4.60	7.72	0.2	0.3	1.0
K	1.0	0.32	0.37	0.56	0.08	65	3	9.0					9.0	3.43	4.29	7.21	1	2	4

JOB NAME: BENT GRASS EAST COMMERCIAL FILING NO. 3
 JOB NUMBER: 2177.64
 DATE: 11/04/20
 CALCULATED BY: MAW

FINAL DRAINAGE REPORT ~ SURFACE ROUTING SUMMARY

Design Point(s)	Contributing Basins	Equivalent CA(5)	Equivalent CA(100)	Maximum Tc	Intensity		Flow		Outfall / Inlet Size
					I(5)	I(100)	Q(5)	Q(100)	
1	A	1.01	1.16	9.6	4.19	7.03	4	8	5' Type R Sump Inlet
2	B	0.28	0.32	6.6	4.76	7.99	1	3	5' Type R Sump Inlet
3	C, 70% K	1.73	2.07	12.7	3.77	6.34	7	13	24" RCP Stub
4	A, B, C, 70% K	3.02	3.55	12.8	3.76	6.32	11	22	Concrete Forebay

PROJECT INFORMATION

PROJECT: Bent Grass Commercial
 PROJECT NO: 21814-01CSCV
 DESIGN BY: CGH
 REV. BY: KGV
 AGENCY: El Paso County
 REPORT TYPE: Final
 DATE: 8/13/2026



	C2*	C5*	C10*	C100*	% IMPERV
Roofs		0.73		0.81	90
Lawns/Landscaping		0.08		0.35	0
Drive and Walks		0.90		0.96	100

*C-Values and Basin Imperviousness based on Table 6-6, City of Colorado Springs Drainage Criteria Manual

SUB-BASIN	SURFACE DESIGNATION		AREA ACRE	COMPOSITE RUNOFF COEFFICIENTS				% IMPERV
				C2	C5	C10	C100	
DEVELOPED								
OS1	Roofs		0.00		0.73		0.81	90
	Lawns/Landscaping		0.42		0.08		0.35	0
	Drive and Walks		0.00		0.90		0.96	100
OS1 TOTAL	WEIGHTED AVERAGE		0.42		0.08		0.35	0
A	Roofs		0.00		0.73		0.81	90
	Lawns/Landscaping		0.07		0.08		0.35	0
	Drive and Walks		0.21		0.90		0.96	100
A TOTAL	WEIGHTED AVERAGE		0.28		0.70		0.81	76
B	Roofs		0.23		0.73		0.81	90
	Lawns/Landscaping		0.00		0.08		0.35	0
	Drive and Walks		0.00		0.90		0.96	100
B TOTAL	WEIGHTED AVERAGE		0.23		0.73		0.81	90
C	Roofs		0.00		0.73		0.81	90
	Lawns/Landscaping		0.08		0.08		0.35	0
	Drive and Walks		0.36		0.90		0.96	100
C TOTAL	WEIGHTED AVERAGE		0.44		0.76		0.86	83
D	Roofs		0.00		0.73		0.81	90
	Lawns/Landscaping		0.14		0.08		0.35	0
	Drive and Walks		0.02		0.90		0.96	100
D TOTAL	WEIGHTED AVERAGE		0.15		0.17		0.42	11
E	Roofs		0.00		0.73		0.81	90
	Lawns/Landscaping		0.05		0.08		0.35	0
	Drive and Walks		0.02		0.90		0.96	100
E TOTAL	WEIGHTED AVERAGE		0.07		0.29		0.51	26
F	Roofs		0.00		0.73		0.81	90
	Lawns/Landscaping		0.00		0.08		0.35	0
	Drive and Walks		0.02		0.90		0.96	100
F TOTAL	WEIGHTED AVERAGE		0.02		0.90		0.96	100

PROJECT INFORMATION

PROJECT: Bent Grass Commercial
 PROJECT NO: 21814-01CSCV
 DESIGN BY: CGH
 REV. BY: KGV
 AGENCY: El Paso County
 REPORT TYPE: Final
 DATE: 8/13/2026



Drexel, Barrell & Co.

	C2*	C5*	C10*	C100*	% IMPERV
Roofs		0.73		0.81	90
Lawns/Landscaping		0.08		0.35	0
Drive and Walks		0.90		0.96	100

*C-Values and Basin Imperviousness based on Table 6-6, City of Colorado Springs Drainage Criteria Manual

G	Roofs		0.00		0.73		0.81	90
	Lawns/Landscaping		0.57		0.08		0.35	0
	Drive and Walks		0.00		0.90		0.96	100
G TOTAL	WEIGHTED AVERAGE		0.57		0.08		0.35	0
H	Roofs		0.00		0.73		0.81	90
	Lawns/Landscaping		0.83		0.08		0.35	0
	Drive and Walks		0.01		0.90		0.96	100
H TOTAL	WEIGHTED AVERAGE		0.84		0.09		0.36	1

What's the weighted imperviousness of the on-site basins and how does it compare to the assumed imperviousness in the original pond design

PROJECT INFORMATION

PROJECT: Bent Grass Commercial
 PROJECT NO: 21814-01CSCV
 DESIGN BY: CGH
 REV. BY: KGV
 AGENCY: El Paso County
 REPORT TYPE: Final
 DATE: 8/13/2026



RATIONAL METHOD CALCULATIONS FOR STORM WATER RUNOFF

DEVELOPED TIME OF CONCENTRATION STANDARD FORM SF-2

SUB-BASIN DATA					CA		INITIAL/OVERLAND TIME (t _i)			TRAVEL TIME (t _t)				TIME OF CONC. t _c		FINAL t _c
BASIN	DESIGN PT.	C _s	C ₁₀₀	AREA	5	100	LENGTH	SLOPE	t _i	LENGTH	SLOPE	VEL.	t _t	COMP.	MINIMUM	
				Ac			Ft	%	Min	Ft	%	FPS	Min	t _c	t _c	Min
DEVELOPED																
OS1	OS1	0.08	0.35	0.42	0.03	0.15	100	3.7	12.3	256	2.7	8.5	0.5	12.8	5.0	12.8
A	1	0.70	0.81	0.28	0.19	0.23	50	4.4	3.2	180	2.4	9.0	0.3	3.5	5.0	5.0
B	2	0.73	0.81	0.23	0.17	0.19	70	0.5	7.3	70	0.5	5.5	0.2	7.5	5.0	7.5
C	3	0.76	0.86	0.44	0.33	0.38	50	3.8	2.9	290	2.2	8.6	0.6	3.5	5.0	5.0
D	4	0.17	0.42	0.15	0.03	0.06	65	1.6	12.0	65	5.8	11.3	0.1	12.1	5.0	12.1
E	5	0.29	0.51	0.07	0.02	0.04	25	2.0	6.0	75	4.4	12.2	0.1	6.1	5.0	6.1
F	6	0.90	0.96	0.02	0.01	0.02	20	2.0	1.3	20	3.0	13.5	0.0	1.4	5.0	5.0
G	7	0.08	0.35	0.57	0.05	0.20	100	7.6	9.7	105	2.7	7.0	0.3	10.0	5.0	10.0
H		0.09	0.36	0.84	0.08	0.30	100	5.0	11.0	508	2.7	7.0	1.2	12.3	5.0	12.3
DPOS1+H	8	0.09	0.36	1.27	0.11	0.45	From Basin H							12.3	5.0	12.3

PROJECT INFORMATION

PROJECT: Bent Grass Commercial
PROJECT NO: 21814-01CSCV
DESIGN BY: CGH
REV. BY: KGV
AGENCY: El Paso County
REPORT TYPE: Final
DATE: 8/13/2026



RATIONAL METHOD CALCULATIONS FOR STORM WATER RUNOFF

DEVELOPED RUNOFF 5 YR STORM P1= 1.50

BASIN (S)	DIRECT RUNOFF						
	DESIGN POINT	AREA (AC)	RUNOFF COEFF	t _c (MIN)	C * A	I (IN/HR)	Q (CFS)
DEVELOPED							
OS1	OS1	0.42	0.08	12.8	0.03	3.66	0.1
A	1	0.28	0.70	5.0	0.19	5.09	1.0
B	2	0.23	0.73	7.5	0.17	4.51	0.8
C	3	0.44	0.76	5.0	0.33	5.09	1.7
D	4	0.15	0.17	12.1	0.03	3.75	0.1
E	5	0.07	0.29	6.1	0.02	4.81	0.1
F	6	0.02	0.90	5.0	0.01	5.09	0.07
G	7	0.57	0.08	10.0	0.05	4.06	0.2
H		0.84	0.09	12.3	0.08	3.73	0.3
DPOS1+H	8	1.27	0.09	12.3	0.11	3.73	0.4

PROJECT INFORMATION

PROJECT: Bent Grass Commercial
PROJECT NO: 21814-01CSCV
DESIGN BY: CGH
REV. BY: KGV
AGENCY: El Paso County
REPORT TYPE: Final
DATE: 8/13/2026

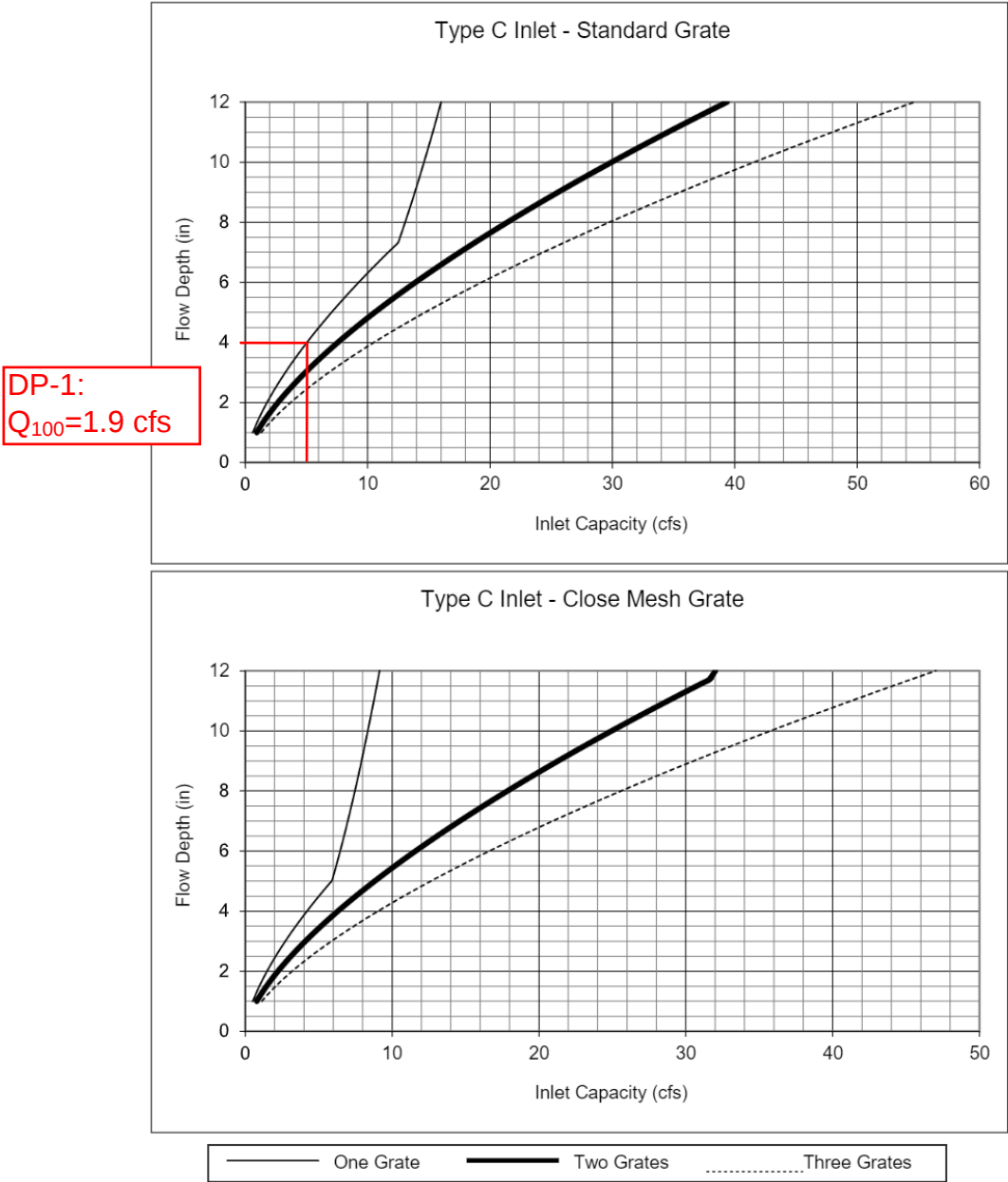


RATIONAL METHOD CALCULATIONS FOR STORM WATER RUNOFF

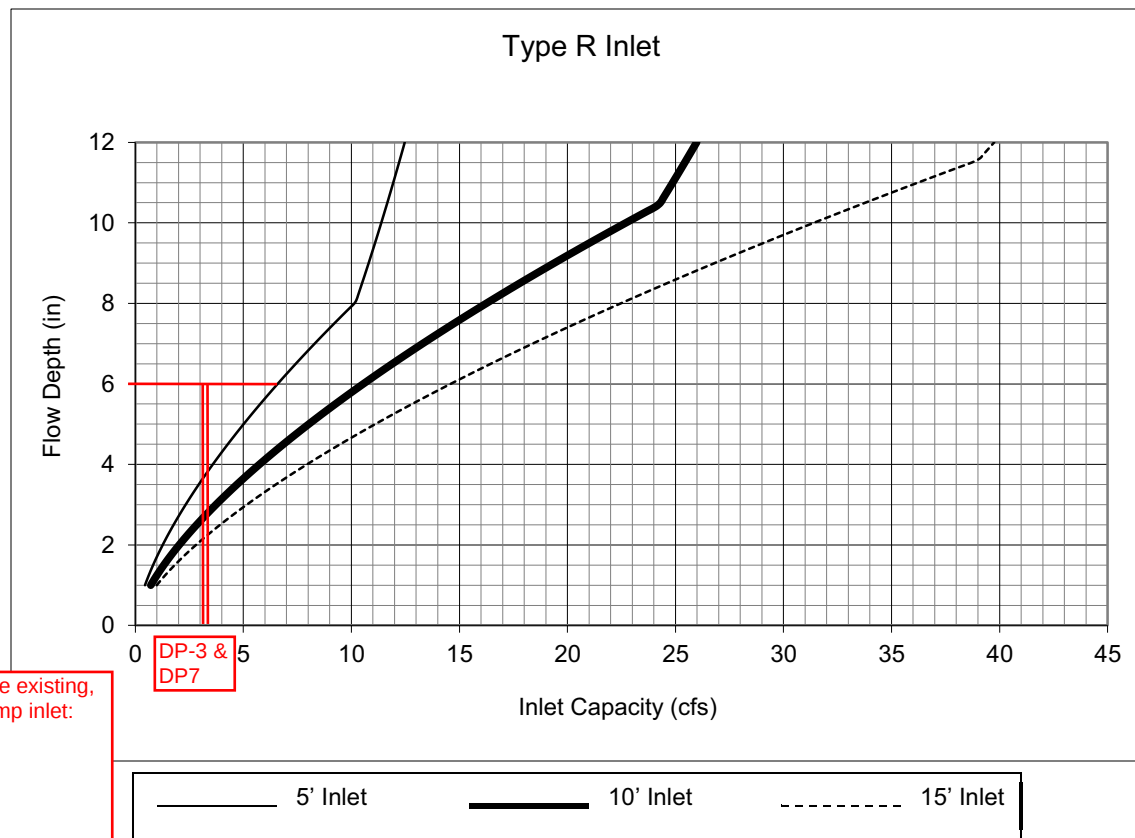
DEVELOPED RUNOFF 100 YR STORM P1= 2.52

BASIN (S)	DIRECT RUNOFF						
	DESIGN POINT	AREA (AC)	RUNOFF COEFF	t _c (MIN)	C * A	I (IN/HR)	Q (CFS)
DEVELOPED							
OS1	OS1	0.42	0.35	12.8	0.15	6.15	0.9
A	1	0.28	0.81	5.0	0.23	8.55	1.9
B	2	0.23	0.81	7.5	0.19	7.57	1.4
C	3	0.44	0.86	5.0	0.38	8.55	3.2
D	4	0.15	0.42	12.1	0.06	6.31	0.4
E	5	0.07	0.51	6.1	0.04	8.09	0.3
F	6	0.02	0.96	5.0	0.02	8.55	0.1
G	7	0.57	0.35	10.0	0.20	6.83	1.4
H		0.84	0.36	12.3	0.30	6.27	1.9
DPOS1+H	8	1.27	0.36	12.3	0.45	6.27	2.8

Figure 8-10. Inlet Capacity Chart Sump Conditions, Area (Type C) Inlet



Notes:
1. The standard inlet parameters must apply to use these charts.

Figure 8-11. Inlet Capacity Chart Sump Conditions , Curb Opening (Type R) Inlet**Notes:**

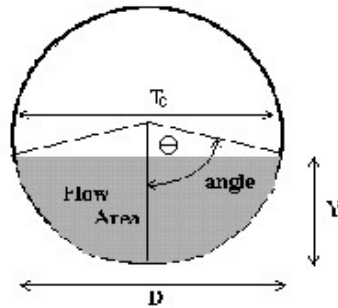
1. The standard inlet parameters must apply to use this chart.

CIRCULAR CONDUIT FLOW (Normal & Critical Depth Computation)

MHFD-Culvert, Version 4.00 (May 2020)

Project: **BENT GRASS EAST COMMERCIAL FILING NO. 3**

Pipe ID: **24" RCP (DP-1 & DP-2)**



Design Information (Input)

Pipe Invert Slope	$S_o =$	0.0100	ft/ft
Pipe Manning's n-value	$n =$	0.0130	
Pipe Diameter	$D =$	24.00	inches
Design discharge	$Q =$	10.00	cfs

Additional Flow from site will total:
 $Q(5) = 3.5$ cfs
 $Q(100) = 6.5$ cfs

Full-Flow Capacity (Calculated)

Full-flow area	$A_f =$	3.14	sq ft
Full-flow wetted perimeter	$P_f =$	6.28	ft
Half Central Angle	$\theta =$	3.14	radians
Full-flow capacity	$Q_f =$	22.68	cfs

Existing Designed runoff rates are 10 cfs, with the additional flow from the site, pipe capacity will still be well below the maximum capacity of 22.68 cfs

Calculation of Normal Flow Condition

Half Central Angle ($0 < \theta < 3.14$)	$\theta =$	1.50	radians
Flow area	$A_n =$	1.43	sq ft
Top width	$T_n =$	2.00	ft
Wetted perimeter	$P_n =$	3.00	ft
Flow depth	$Y_n =$	0.93	ft
Flow velocity	$V_n =$	6.99	fps
Discharge	$Q_n =$	10.00	cfs
Percent of Full Flow	$\text{Flow} =$	44.1%	of full flow
Normal Depth Froude Number	$Fr_n =$	1.46	supercritical

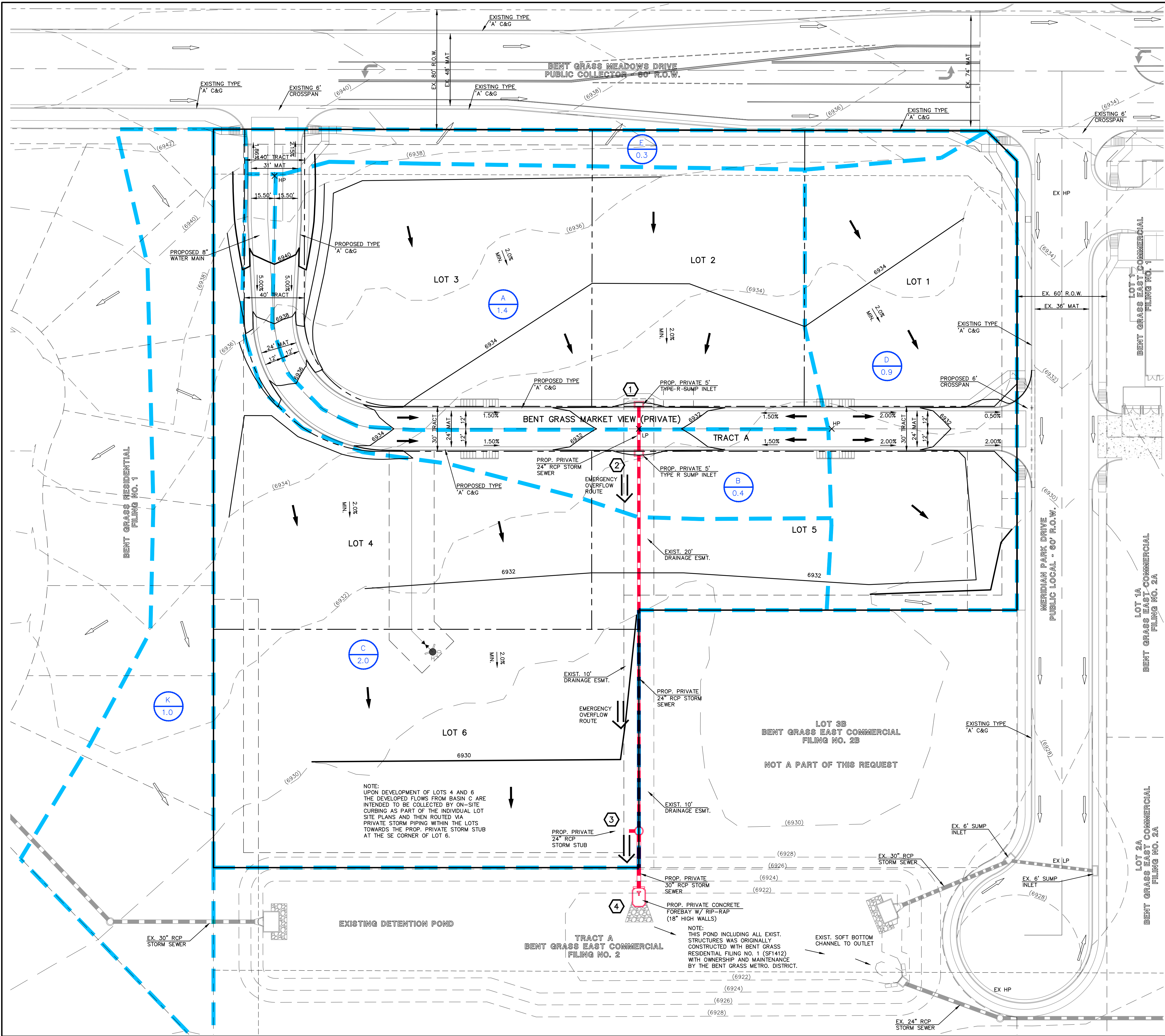
Calculation of Critical Flow Condition

Half Central Angle ($0 < \theta_c < 3.14$)	$\theta_c =$	1.70	radians
Critical flow area	$A_c =$	1.83	sq ft
Critical top width	$T_c =$	1.98	ft
Critical flow depth	$Y_c =$	1.13	ft
Critical flow velocity	$V_c =$	5.46	fps
Critical Depth Froude Number	$Fr_c =$	1.00	

Provide calculations for the existing forebay to determine if the capacity and forebay notch are appropriate with the additional flows.

Provide calculations that verify that drain times will comply with state senate bill 15-212, CRS 37-92-602(8)

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LEGEND	
DESCRIPTION	SYMBOL
PROPOSED CONTOUR-10	
PROPOSED CONTOUR-2	
EXISTING CONTOUR-10	
EXISTING CONTOUR-2	
PROPERTY LINE	
BOUNDARY LINE	
PROPOSED PRIVATE STORM SEWER	
PROPOSED PRIVATE STORM INLET	
EXISTING STORM SEWER	
EXISTING STORM INLET	
EXISTING FLOW DIRECTION	
PROPOSED FLOW	
HIGH POINT	HP
LOW POINT	LP
OVERFLOW ROUTE	
BASIN IDENTIFIER	
AREA IN ACRES	
DESIGN POINT	
DRAINAGE BASIN	

FINAL DRAINAGE REPORT - BASIN RUNOFF SUMMARY																				
BASIN	TOTAL AREA (AC)	WEIGHTED			OVERLAND			STREET / CHANNEL FLOW				TOTAL			INTENSITY			TOTAL FLOWS		
		CA(2)	CA(5)	CA(100)	C(5)	Length (ft)	Height (ft)	Tc (min)	Length (ft)	Slope (ft/ft)	Velocity (ft/s)	Tc (min)	TOTAL (cfs)	I(2) (in/hr)	I(5) (in/hr)	I(100) (in/hr)	Q(2) (cfs)	Q(5) (cfs)	Q(100) (cfs)	
A	1.4	0.99	1.01	1.16	0.08	30	2	5.4	250	2.0%	1.0	4.2	9.6	3.34	4.19	7.93	3	4	8	
B	0.4	0.27	0.28	0.32	0.08	10	0.2	4.6	100	1.5%	0.9	1.9	6.6	3.79	4.76	7.95	1	1	3	
C	2.0	1.43	1.47	1.68	0.08	30	1.5	5.9	400	2.0%	1.0	6.7	12.7	3.01	3.77	6.34	4	6	11	
D	0.9	0.67	0.69	0.77	0.08	10	0.2	4.6	200	2.0%	1.4	2.4	7.6	3.72	4.67	7.93	2	3	6	
E	0.3	0.05	0.07	0.14	0.08	25	0.5	7.3					7.3	3.67	4.60	7.73	0.2	0.3	1.0	
K	1.0	0.32	0.37	0.56	0.08	65	3	9.0					9.0	3.43	4.29	7.21	1	2	4	

FINAL DRAINAGE REPORT - SURFACE ROUTING SUMMARY									
Design Point(s)	Contributing Basins	Equivalent CA(5)	Equivalent CA(100)	Maximum Tc	Intensity				Flow
					I(5)	I(100)	Q(5)	Q(100)	
1	A	1.01	1.16	9.6	4.19	7.03	4	8	5" Type R Sump Inlet
2	B	0.28	0.32	6.6	4.76	7.99	1	3	5" Type R Sump Inlet
3	C, 70% K	1.73	2.07	12.7	3.77	6.34	7	13	24" RCP Sub
4	A, B, C, 70% K	3.02	3.55	12.8	3.76	6.32	11	22	Concrete Forebay



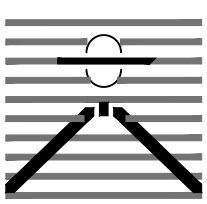
BENT GRASS EAST
COMMERCIAL FILING NO. 3
DEVELOPED DRAINAGE MAP

DESIGNED BY	MAW	SCALE	DATE	10-27-20
DRAWN BY	MAW	(H) 1" = 30'	SHEET	1 OF 1
CHECKED BY		(V) 1" = N/A	JOB NO.	2177.64

619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903
(719) 785-0790
(719) 785-0799 (Fax)

CLASSIC
CONSULTING

PREPARED BY:


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Engineers • Surveyors
101 SAWATCH ST., SUITE 100
COLORADO SPRINGS, COLORADO 80903
CONTACT: TIM D. McCONNELL, P.E.
(719)260-0887
COLORADO SPRINGS • LAFAYETTE

CLIENT:

THE LEARNING
EXPERIENCE
210 HILLSBORO TECHNOLOGY DR.
DEERFIELD BEACH, FL 33441

DRAINAGE PLANS FOR:
**THE LEARNING
EXPERIENCE**
11659 BENT GRASS MARKET VIEW
FALCON, COLORADO

ISSUE	DATE
INITIAL ISSUE	08/14/2026
DESIGNED BY:	KGV
DRAWN BY:	CGH
CHECKED BY:	KGV
FILE NAME:	21814-01-DRN-PP

PREPARED UNDER MY DIRECT
SUPERVISION FOR AND ON BEHALF
OF DREXEL, BARRELL & CO.

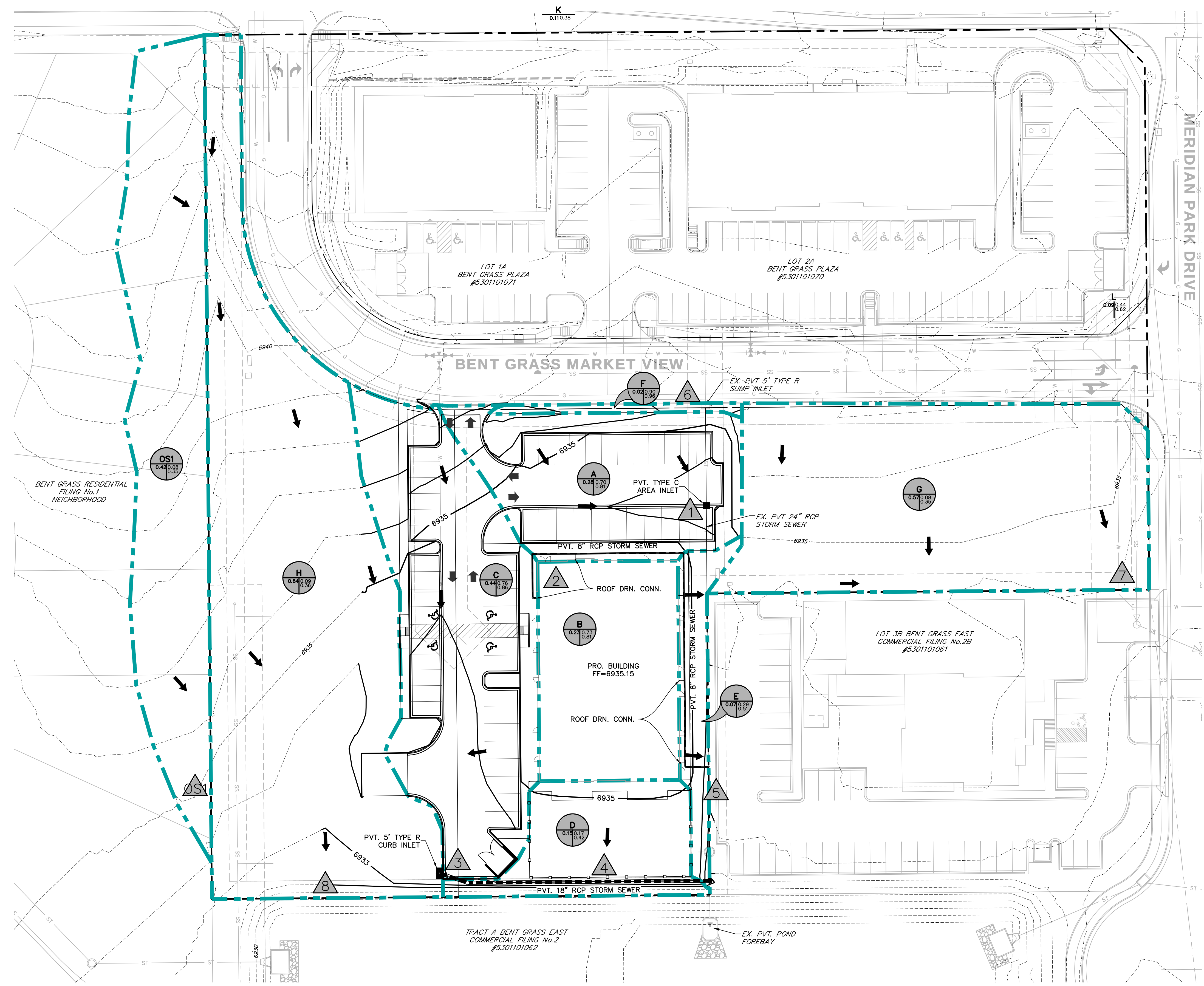
DRAWING SCALE:
HORIZONTAL: 1" = 30"
VERTICAL: N/A

PROPOSED
DRAINAGE
PLAN

PROJECT NO. 21814-01CSCV
DRAWING NO.

DRN

SHEET: 1 OF 1



SITE DRAINAGE PLAN

LEGEND

PROPOSED INTERMEDIATE CONTOUR..... 5522
PROPOSED INDEX CONTOUR..... 5520
EX. INTERMEDIATE CONTOUR..... 5364
EX. INDEX CONTOUR..... 5365

HIGH POINT..... HP
LOW POINT..... LP

PROPOSED INLET.....
PROPOSED MANHOLE.....

--- BASIN BOUNDARY

← FLOW DIRECTION

△ X DESIGN POINT

△ X BASIN
AREA (ACRE) C5 C100

DEVELOPED				
BASIN	DP	Area (Ac.)	Q _s (CFS)	Q ₁₀₀ (CFS)
OS1	OS1	0.42	0.1	0.9
A	1	0.28	1.0	1.9
B	2	0.23	0.8	1.4
C	3	0.44	1.7	3.2
D	4	0.15	0.1	0.4
E	5	0.07	0.1	0.3
F	6	0.02	0.07	0.1
G	7	0.57	0.2	1.4
H	8	0.84	0.3	1.9
DPOS1+H	8	1.27	0.4	2.8

EPC Stormwater- Zachary (7)

Provide PCM identifier (Pond 2) and PCD file number

Add a section that discusses if pond 2 was designed to accept these flows, if the current proposal falls within the previous design assumptions (compare $i\%$ values for the basins), and if any improvements to the pond are required. Verify if the existing orifice plate will need to be updated to maintain drain times mandated by state senate bill 15-212, CRS 37-92-602(8), or if drain times will be met with the existing plate. Reference previous reports as necessary.

If any pond updates/upgrades are required provide a cost estimate in this report and include the value in the FAE form

Label these sheets as reference material from a previous report (and provide PCD file number) or provide difference appendix sections for reference material and your calculations

Ensure reference sheets are clearly labeled throughout report. It's difficult to track when they are mixed together, and it can be confusing when basin IDs/DPs aren't shared.

What's the weighted imperviousness of the on-site basins and how does it compare to the assumed imperviousness in the original pond design

Provide calculations for the existing forebay to determine if the capacity and forebay notch are appropriate with the additional flows.
Provide calculations that verify that drain times will comply with state senate bill 15-212, CRS 37-92-602(8)

Subject: SW - Textbox
Page Label: 29
Author: EPC Stormwater- Zachary
Date: 9/8/2026 5:14:46 PM
Status:
Color: ■
Layer:
Space:

Provide calculations for the existing forebay to determine if the capacity and forebay notch are appropriate with the additional flows.

Provide calculations that verify that drain times will comply with state senate bill 15-212, CRS 37-92-602(8)

Jalal Saleh (6)

▼

⌵

PPR2625

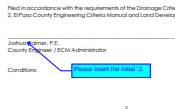
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PPR2625



Subject: Cloud+
Page Label: 2
Author: Jalal Saleh
Date: 9/8/2026 1:25:46 PM
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Color: ■
Layer:
Space:

No drainage map was included for the pre-development conditions.



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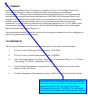
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Page Label: 5
Author: Jalal Saleh
Date: 9/6/2026 6:15:18 PM
Status:
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Please do not refer to the approved Final Drainage Report instead borrow from it what you need, then provide the existing related exhibits, label them, and then provide the necessary discussions.



Subject: Cloud+
Page Label: 5
Author: Jalal Saleh
Date: 9/6/2026 6:21:07 PM
Status:
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Provide similar table to the existing conditions and then compare the results for the 5 - year and 100 - year between development conditions to developed conditions that would allow you to make the conclusion you made.



Subject: Callout
Page Label: 8
Author: Jalal Saleh
Date: 9/8/2026 11:23:34 AM
Status:
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Use Section 9 for to discuss Basin fee and Bridge Fee here: Indicate that Basin and Bridge Fee were paid with the Final Plat for Brent Grass East Commercial Filing No. 3 "R15062". No additional Basin fee and no additional Bridge fee are required.