

**DRAINAGE COMPLIANCE LETTER
FOR
SNARF'S SANDWICHES PARKING LOT IMPROVEMENTS
619 WILCOX ST, CASTLE ROCK, CO
LOTS 1 & 2 BLOCK 3, IN SECTION 11, TOWNSHIP 8 SOUTH.
RANGE 67 WEST, 6TH P.M., DOUGLAS COUNTY, COLORADO**

Town of Castle Rock Project Number: SDP25-0019

Prepared for:

**Snarf's Sandwiches
2762 Walnut St.
Denver, CO 80205**

Prepared by:



**TAIT & Associates, Inc.
320 North Lincoln Ave
Loveland, Colorado 80537
Phone: (970) 613-1447
Fax: (970) 613-1897**

August 14, 2025

Purpose and Introduction:

This letter is being prepared to demonstrate drainage compliance for the proposed parking lot improvements for the existing Snarf's. The project entails upgrades to the parking lot layout to improve vehicle circulation and additional parking. There is no drainage report for existing site or master plans for the subdivision available. Drainage analysis has been performed using the best available information. No site regrading or adjustments to existing drainage basins and patterns are anticipated. The site is in Zone X – area of minimal flood hazard per FEMA FIRM number 08035C0188G, dated 03/16/2016. Disturbance to the site will be 0.05 acres.

The site has been previously developed and contains a 2,695-sf building, asphalt and concrete parking lot, and landscaping. The existing weighted impervious area is 10,542 square feet.

Existing Sub-Basins:

Sub-Basin EX1

This basin covers a majority of the site including the existing building, asphalt parking and drive areas, and landscaping. Runoff in the parking and landscaping generally sheet flows towards the alley and then flows north. Runoff from the roof is conveyed via downspouts to a U-Gutter along the southern property line that discharges into the alley where it is conveyed to the north. The imperviousness for this basin is 79%. Peak flows from the Minor (5 year) and Major (100 year) storm event are 0.78 cfs and 2.19 cfs, respectively.

Sub-Basin EX2

This basin is on the east side of the property and consists of existing landscaping, patio and sidewalk area. Runoff generally sheet flows into Wilcox St. where it is channelized and captured in a 5' type R Inlet on the west side of the road. The imperviousness for this basin is 36%. Peak flows from the Minor (5 year) and Major (100 year) storm events are 0.07 cfs and 0.46 cfs, respectively.

Proposed Sub-Basins:

Sub-Basin A

This basin is similar to the existing conditions with the main modification being the addition of a trash enclosure, sidewalk with stairs and new pavement being added to the western part of the parking lot. Drainage patterns for this will remain the same as existing. The imperviousness for this basin is 87%. Peak flows from the Minor (5 year) and Major (100 year) storm events are 0.88 cfs and 2.21 cfs, respectively.

Sub-Basin B

This basin is on the east side of the property remains similar to existing conditions with the addition of some asphalt in the north east corner of the property. Runoff from the proposed parking, existing patio area and existing landscaping will sheet flow into Wilcox St. where existing drainage patterns will be followed. The imperviousness for

this basin is 58%. Peak flows from the Minor (5 year) and Major (100 year) storm events are 0.12 cfs and 0.49 cfs, respectively.

Existing and Proposed Conditions and Downstream Analysis:

	Existing	Proposed
Weighted Impervious Area (sf)	9,888	11,369
Weighted Imperviousness	71.00%	82.20%
5-year peak runoff (cfs)	0.85	1.00
100-year cumulative unrouted peak runoff (cfs)	2.65	2.70

Weighted imperviousness will be increased by 1,481 square feet, an increase of 11.2%. The total 100-year peak runoff from the site will be increased by 0.05 cfs. The increased run-off from Basin A will flow into the alley and follow existing drainage patterns. The increased runoff from Basin B will be directed to the Inlet in Wilcox Street and 48" RCP that flows to the north before discharging into East Plum Creek. The as-built plans for the storm system dated February 2nd, 1989 shows a 100 year HGL in this system that is approximately 5 feet below the existing grade. The additional runoff is not anticipated to have a significant or adverse impact on the flows in this system.

Four Step Process:

As this project is proposing minor improvements to an existing development there was minimal opportunity to utilize the 4-Step Process to minimize adverse impacts of urbanization.

Step 1. As the site is already developed, constraints do not allow for implementation of vegetated areas that would reduce runoff without increasing the proposed disturbance and altering historic drainage patterns. Runoff from the existing patio flows over a 3' grass buffer prior to entering the storm drain system within Wilcox St.

Step 2. Regarding implementation of Permanent Control Measures (PCM) that provide Water Quality Capture Volume (WQCV), reviewing the available as-built information and site conditions, it does not appear that there is any existing PCM between the subject site and the outfall at East Plum Creek. Additionally, per the Permanent Water Quality Determination Worksheet (Taken from 2019 SDDTCM Sections 13.1.4 and 13.1.5), since the project will not result in a disturbance greater than 1 acre, the project is not part of a larger common plan of development, and the project is not within the Cherry Creek Watershed, permanent water quality control measures are not required.

Step 3. Regarding stabilizing drainageways, flows from the subject site are discharged into east plum creek via a concrete culvert under Interstate 25. The condition of the outfall is unable to be determined with the as-built information provided and available imagery. The

proposed improvements will increase flows during the 100-year storm by 0.05 cfs and do not warrant improvements or stabilization of the downstream drainageways.

Step 4. Regarding Site Specific Source Controls, the proposed improvements will not be increasing the risk for point source pollution. Appropriate BMP's will be used during construction to minimize erosion and provide good housekeeping on site. Shoveled snow will be stored on site over the existing landscape area on the west of the property. Snowmelt over the landscape will promote infiltration and reduce runoff to directly connected impervious areas.

Conclusion:

In conclusion, the increased site imperviousness runoff will not adversely impact the existing stormwater infrastructure or downstream and surrounding developments. The four-step process was evaluated but is not feasible for this minor redevelopment. This Drainage Letter is in conformance with the Town of Castle Rock Storm Drainage Design and Technical Criteria Manual, February 2025.

Sincerely,

Connor Griffin, PE, CFM
63283

Enclosed:
Existing and Proposed Drainage Exhibit
Existing Imperviousness and Runoff Calculations
Proposed Imperviousness and Runoff Calculations
FEMA Firmette
MS4 Compliance Summary Fillable Form 12-2020
Permanent Water Quality Determination Worksheet

Aug 14, 2025 - 2:55pm by kbergeson K:\Drawings\CD\014490 - Snarf's - Castle Rock, CO\ENG\Hydrology\NEW\CD1449_DRN.dwg



Know what's below
Call before you dig.

UNAUTHORIZED CHANGES & USES

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES OF THESE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS PRIOR TO CONSTRUCTION. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

NOTE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES, PIPES, AND/OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THERE MAYBE EXISTING UTILITIES NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ASCERTAIN THE TRUE VERTICAL AND HORIZONTAL LOCATION OF THOSE UNDERGROUND UTILITIES TO BE USED PRIOR TO CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES, SHOWN OR NOT SHOWN HEREON.

BASIS OF BEARINGS:
N/A

BENCH MARK:
ELEVATIONS BASED ON AN ASSIGNED FINISHED FLOOR ELEVATION AT THE EXISTING SUBJECT BUILDING OF 100.00'

OFFSITE CONSTRUCTION NOTE:

NO WORK IS TO BE PERFORMED WITHIN THE PUBLIC R/W OR ADJACENT PROPERTIES

EXISTING IMPROVEMENTS NOTE:

BOUNDARY INFORMATION AND LOCATION OF EXISTING IMPROVEMENTS ARE BASED ON A COMBINATION OF ALTA PREPARED BY DAVID E. ARCHER & ASSOCIATES, INC. ON 12-18-2020 AND INFORMATION PROVIDED BY MILO CONSTRUCTION CORPORATION ON 01-13-2023.

PREPARED UNDER THE SUPERVISION OF
TAIT & ASSOCIATES, INC.

CONNOR GRIFFIN, P.E.
63283

DRAWN: KE
DATE: 07/25/2025
CHECKED: CG
DATE: 08/14/2025
REVISION #:
DATE:
JOB NO: C01449B

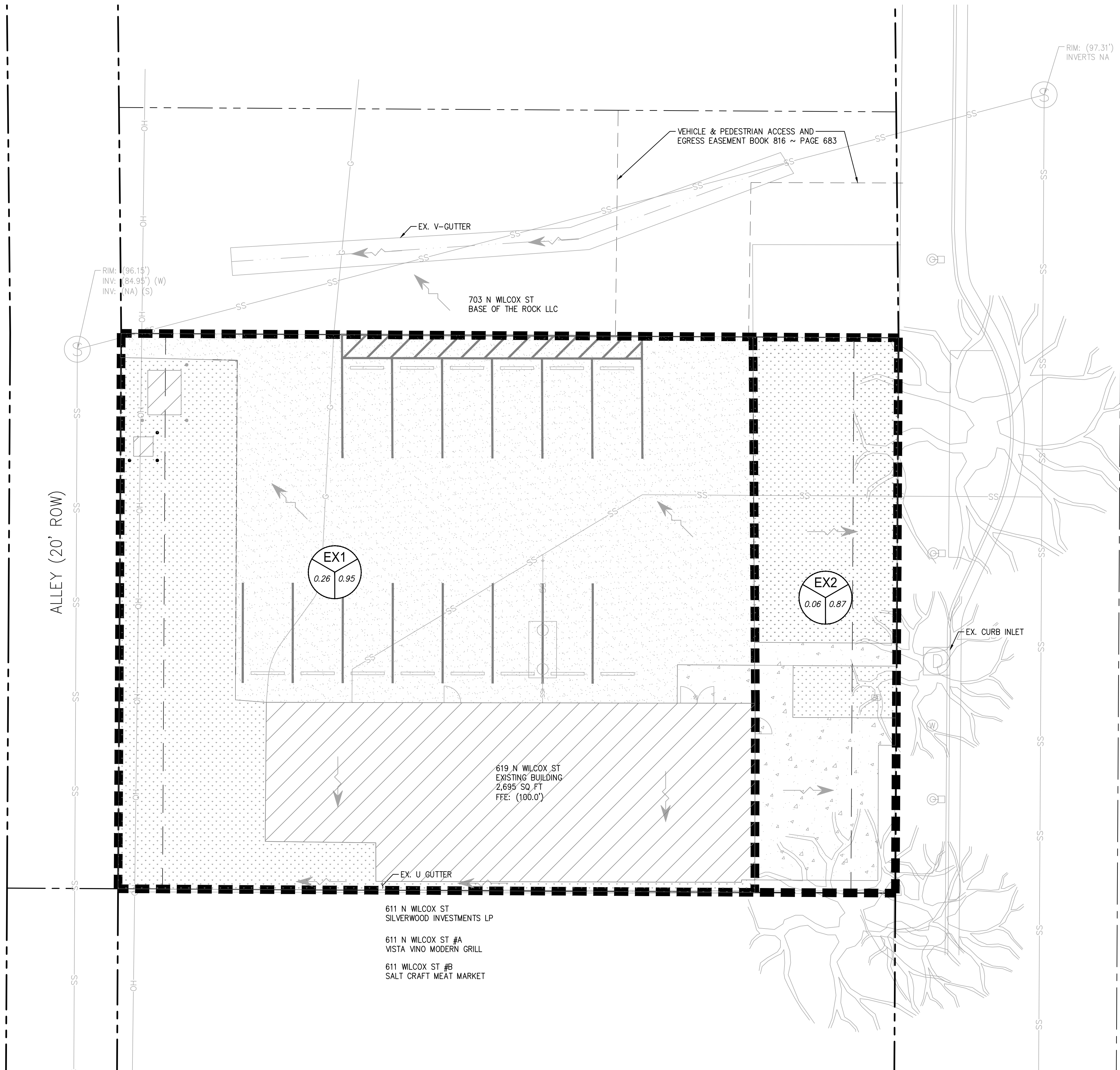
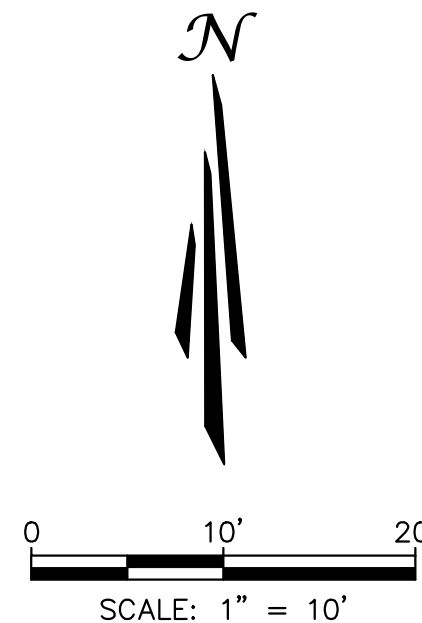
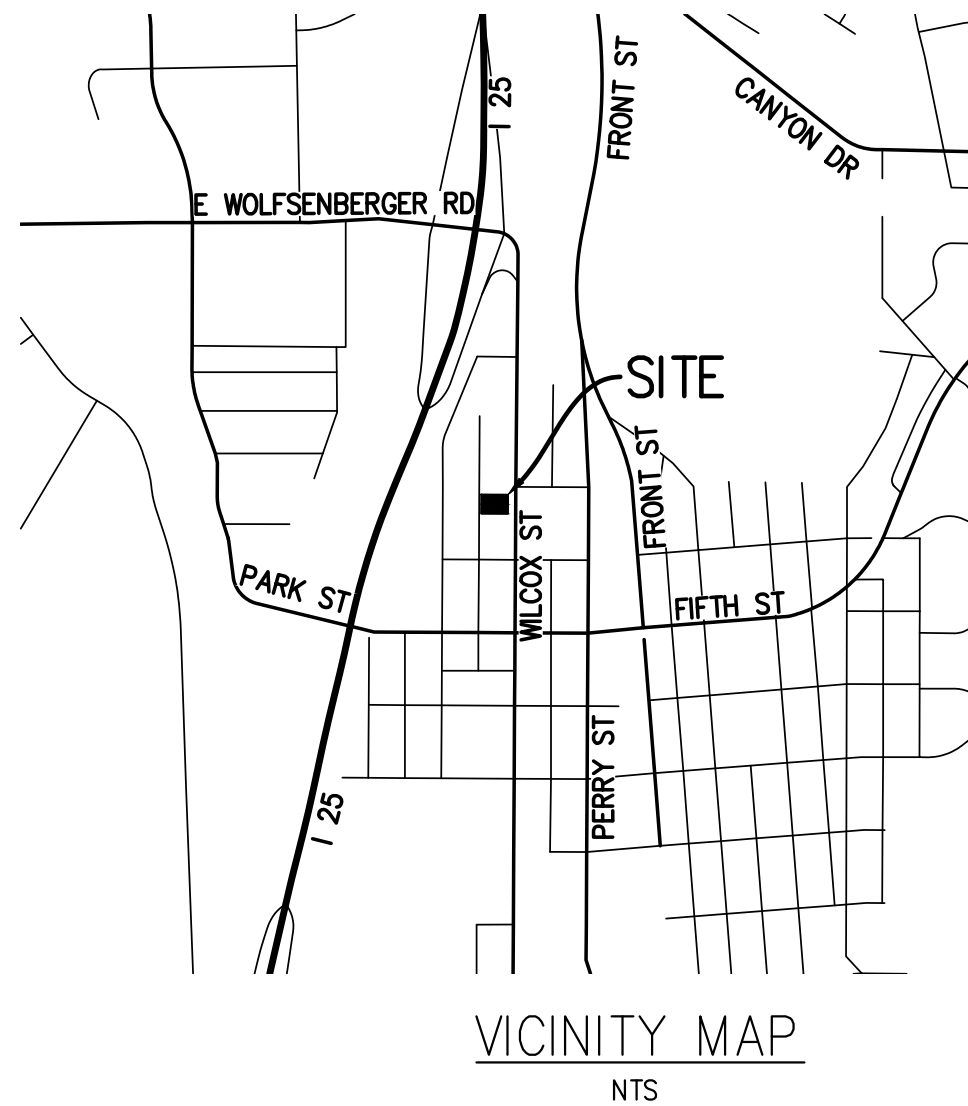
DR1

EXISTING DRAINAGE PLAN
SNARF'S
SNARF'S SANDWICHES
619 WILCOX STREET, CASTLE ROCK, COLORADO



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Loveland, CO 80537
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NO.	DESCRIPTION	BY	DATE



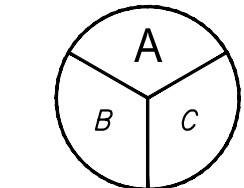
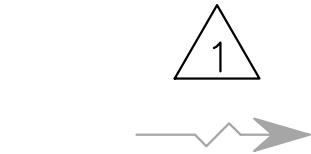
SUMMARY RUNOFF TABLE			
BASIN ID	CONTRIBUTING AREA (ACRES)	PEAK 5YR (CFS)	PEAK 100YR (CFS)
ONSITE (EX1)	0.26	0.78	2.19
ONSITE (EX2)	0.06	0.07	0.46

DRAINAGE LEGEND:

DESIGN POINT

FLOW DIRECTION

BASIN LIMITS



A = BASIN DESIGNATION
B = AREA IN ACRES
C = 100-YR RUNOFF COEFFICIENT

SITE LEGEND:

EX RIGHT OF WAY LINE
EX SUBJ PROPERTY LINE
EX ADJ PROPERTY LINE
EX ROAD CENTERLINE
EX SANITARY SEWER
EX IMPROVEMENTS
EX FLOW LINE
EX EASEMENT LINE
PR SAWCUT
PR IMPROVEMENTS
PR SANITARY SEWER
PR SANITARY CLEANOUT

EX SANITARY MANHOLE

EX CURB INLET

EX BUILDING/ STRUCTURE
EX ASPHALT
EX LANDSCAPING
EX CONCRETE

FLOODPLAIN NOTE:

THIS PROPERTY IS LOCATED WITHIN ZONE X - AREA OF MINIMAL FLOOD HAZARD AS PER FEMA FIRM PANEL NO. 08035C0188G EFFECTIVE DATE MARCH 16, 2016

Aug 14, 2025 - 2:55pm by kbergson K:\Drawings\CO\014490 - Snarf's - Castle Rock, CO\ENG\Hydrology\NEW\01449_DRN.dwg



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BASIS OF BEARINGS:
N/A

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OFFSITE CONSTRUCTION NOTE:

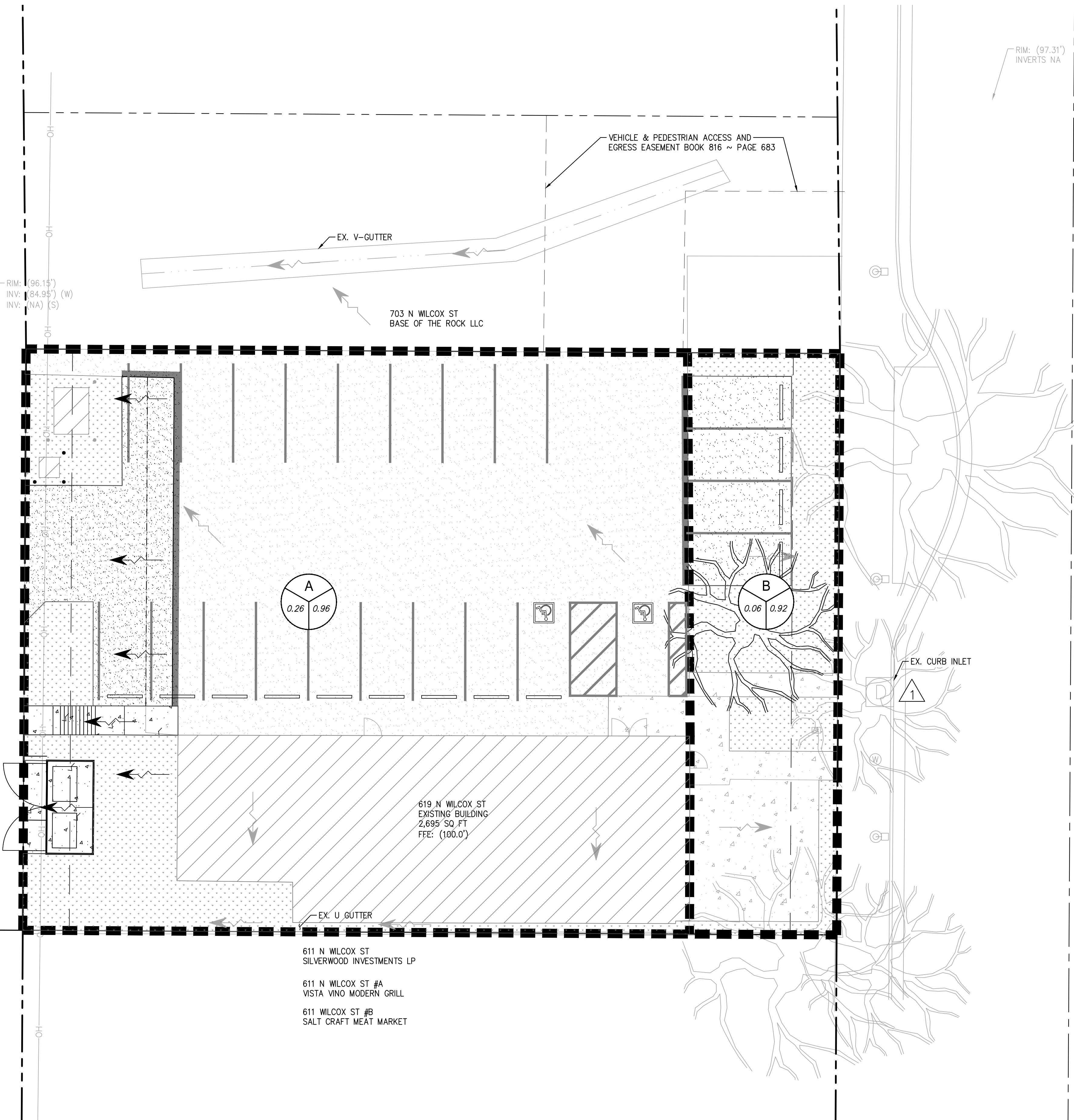
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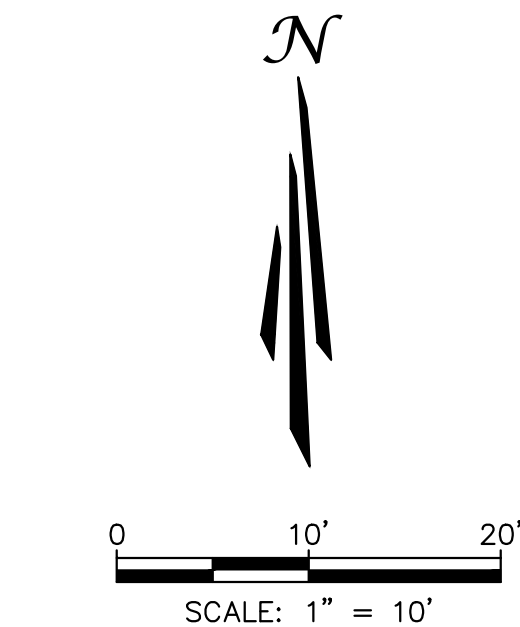
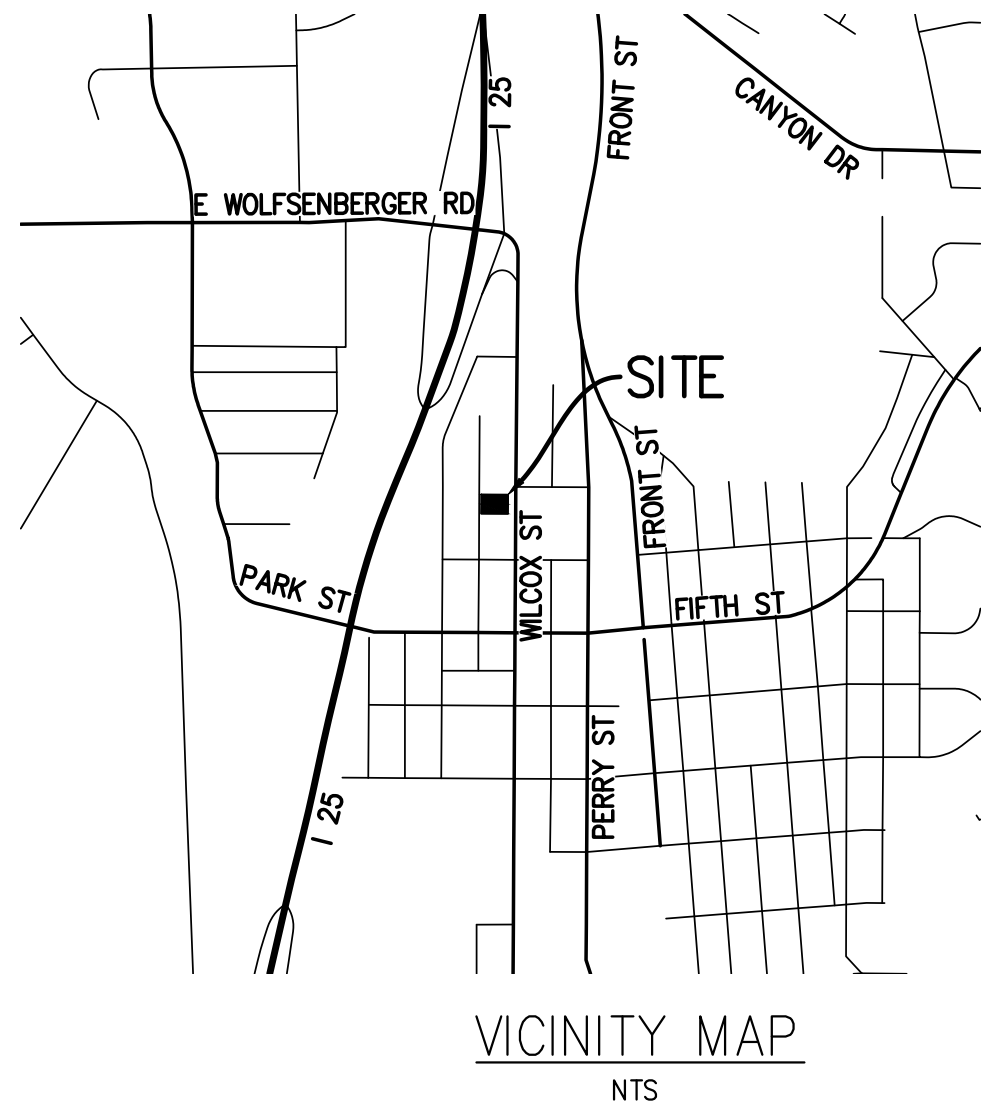
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CONNOR GRIFFIN, P.E.
63283

ALLEY (20' ROW)

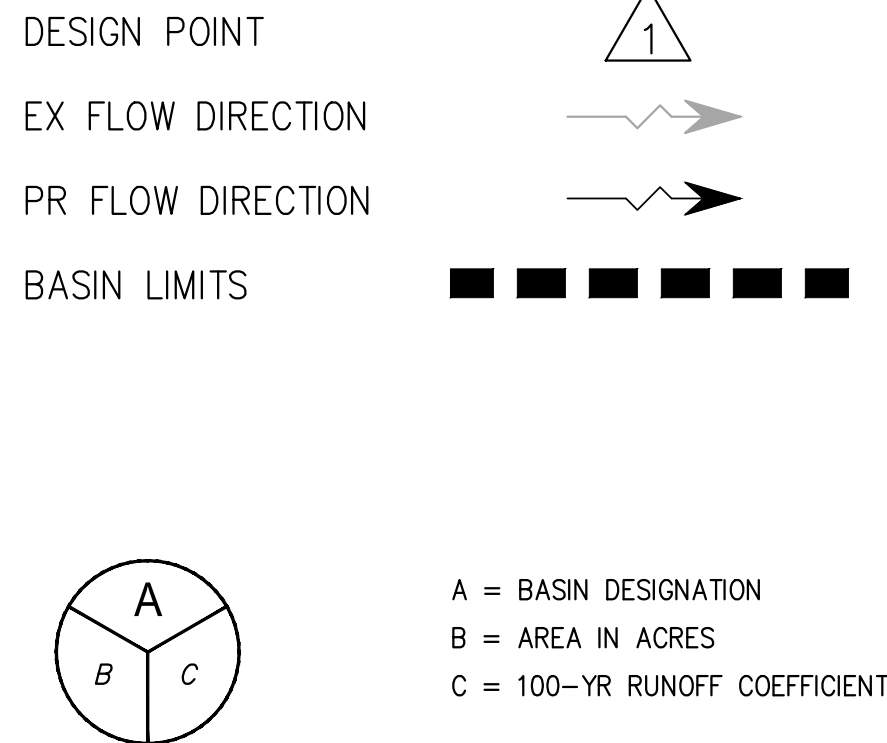


WILCOX ST (80' ROW)

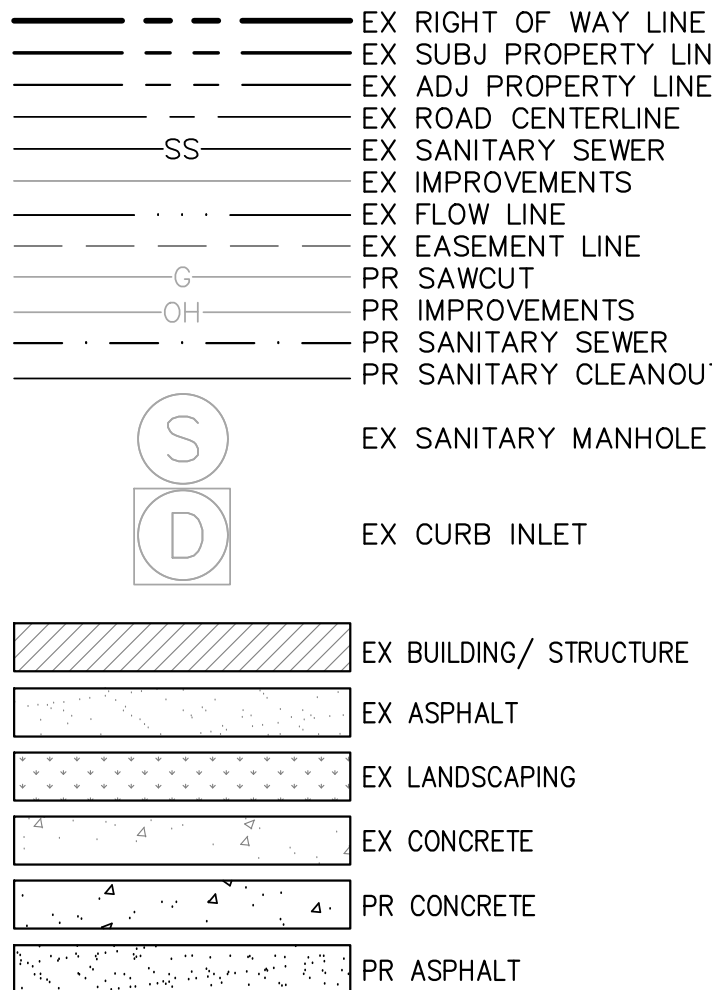


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ONSITE (A)	0.26	0.88	2.21
ONSITE (B)	0.06	0.13	0.49

DRAINAGE LEGEND:



SITE LEGEND:



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& ASSOCIATES
Since 1944

NO. DESCRIPTION BY DATE
REVISIONS

PROPOSED DRAINAGE PLAN
SNARF'S SANDWICHES
619 WILCOX STREET, CASTLE ROCK, COLORADO

DRAWN: KE
DATE: 07/25/2025
CHECKED: CG
DATE: 08/14/2025
REVISION #:
DATE:
JOB NO: C01449B

DR2

08/14/2025 SITE DEVELOPMENT PLAN - 1-SDP25-0019 PLANS

EXISTING RUN-OFF CALCULATIONS

Designer: Kolt Ferguson

Company: TAIT

Date: 7/29/2025

Project: Snarf's Castlerock

Location: Castlerock, CO

RECOMMENDED PERCENT IMPERVIOUS¹

LAND USE	% IMPERVIOUS
Landscape	2
Gravel	40
Concrete Pavement	90
Asphalt Pavement	100
Roofs	100

1. Runoff coefficients per equations provided in Urban Drainage and Flood Control District, Volume 1 MHFD USDCM (January 2016). Attached.

2. Rainfall Intensity per Town of Castle Rock Storm Drainage Design and Technical Criteria Manual Figure 6-1 Rainfall Intensity Duration Curve.

EXISTING CONDITIONS²:

BASIN(S)	LANDSCAPE	GRAVEL	CONCRETE	ASPHALT	ROOFS	A(TOTAL)	IMPERVIOUS	IMPERVIOUS AREA
	AC	AC	AC	AC	AC	AC	%	AC
EX1	0.056	0.000	0.002	0.141	0.061	0.260	79.0	0.205
EX2	0.037	0.000	0.023	0.000	0.000	0.060	36.3	0.022
TOTAL:						0.320	71.0	0.227

NRCS Websoil Survey

Soil Type	Bo
Hydro Group	A

t_c (min)	5.0
------------------	-----

BASIN(S)	Area (acre)	%impervious (dec)
EX1	0.26	0.79
EX2	0.06	0.36

Basin EX1

Storm Return Period	C_A (coeff)	I (in/hr)	A (acre)	Q (ft3/s)
2-year	0.59	3.60	0.26	0.55
5-year	0.61	4.85	0.26	0.78
10-year	0.63	5.60	0.26	0.92
50-year	0.70	7.65	0.26	1.40
100-year	0.95	8.80	0.26	2.19

Basin EX2				
Storm Return Period	C _A (coeff)	I (in/hr)	A (acre)	Q (ft ³ /s)
2-year	0.21	3.60	0.06	0.05
5-year	0.23	4.85	0.06	0.07
10-year	0.24	5.60	0.06	0.08
50-year	0.33	7.65	0.06	0.15
100-year	0.87	8.80	0.06	0.46

Table 6-4. Runoff coefficient equations based on NRCS soil group and storm return period

NRCS Soil Group	Storm Return Period						
	2-Year	5-Year	10-Year	25-Year	50-Year	100-Year	500-Year
A	$C_A = 0.84i^{1.302}$	$C_A = 0.86i^{1.276}$	$C_A = 0.87i^{1.232}$	$C_A = 0.88i^{1.124}$	$C_A = 0.85i+0.025$	$C_A = 0.78i+0.110$	$C_A = 0.65i+0.254$
B	$C_B = 0.84i^{1.169}$	$C_B = 0.86i^{1.088}$	$C_B = 0.81i+0.057$	$C_B = 0.63i+0.249$	$C_B = 0.56i+0.328$	$C_B = 0.47i+0.426$	$C_B = 0.37i+0.536$
C/D	$C_{C/D} = 0.83i^{1.122}$	$C_{C/D} = 0.82i+0.035$	$C_{C/D} = 0.74i+0.132$	$C_{C/D} = 0.56i+0.319$	$C_{C/D} = 0.49i+0.393$	$C_{C/D} = 0.41i+0.484$	$C_{C/D} = 0.32i+0.588$

Where:

i = % imperviousness (expressed as a decimal)

C_A = Runoff coefficient for Natural Resources Conservation Service (NRCS) HSG A soils

C_B = Runoff coefficient for NRCS HSG B soils

$C_{C/D}$ = Runoff coefficient for NRCS HSG C and D soils.

PROPOSED RUN-OFF CALCULATIONS

Designer: Kolt Ferguson

Company: TAIT

Date: 7/29/2025

Project: Snarf's Castlerock

Location: Castlerock, CO

RECOMMENDED PERCENT IMPERVIOUS¹

LAND USE	% IMPERVIOUS
Landscape	2
Gravel	40
Concrete Pavement	90
Asphalt Pavement	100
Roofs	100

1. Runoff coefficients per equations provided in Urban Drainage and Flood Control District, Volume 1 MHFD USDCM (January 2016). Attached.

2. Rainfall Intensity per Town of Castle Rock Storm Drainage Design and Technical Criteria Manual Figure 6-1 Rainfall Intensity Duration Curve.

POST-DEVELOPMENT CONDITIONS:

BASIN(S)	LANDSCAPE	GRAVEL	CONCRETE	ASPHALT	ROOFS	A(TOTAL)	%	IMPERVIOUS AREA
	AC	AC	AC	AC	AC	AC	IMPERVIOUS	AC
A	0.033	0.000	0.007	0.156	0.063	0.260	87.20	0.227
B	0.022	0.000	0.038	0.000	0.000	0.060	57.78	0.035
TOTAL:						0.320	81.69	0.261

NRCS Websoil Survey

Soil Type	Bo
Hydro Group	A

t _c (min)	5.0
----------------------	-----

BASIN(S)	Area (acre)	%impervious (dec)
A	0.26	0.87
B	0.06	0.58

Basin A				
Storm Return Period	C _A (coeff)	I (in/hr)	A (acre)	Q (ft ³ /s)
2-year	0.67	3.60	0.26	0.63
5-year	0.69	4.85	0.26	0.88
10-year	0.71	5.60	0.26	1.04
50-year	0.77	7.65	0.26	1.54
100-year	0.96	8.80	0.26	2.21

Basin B				
Storm Return Period	C _A (coeff)	I (in/hr)	A (acre)	Q (ft ³ /s)
2-year	0.39	3.60	0.06	0.08
5-year	0.41	4.85	0.06	0.12
10-year	0.43	5.60	0.06	0.15
50-year	0.52	7.65	0.06	0.24
100-year	0.92	8.80	0.06	0.49

Table 6-4. Runoff coefficient equations based on NRCS soil group and storm return period

NRCS Soil Group	Storm Return Period						
	2-Year	5-Year	10-Year	25-Year	50-Year	100-Year	500-Year
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Where:

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C_A = Runoff coefficient for Natural Resources Conservation Service (NRCS) HSG A soils

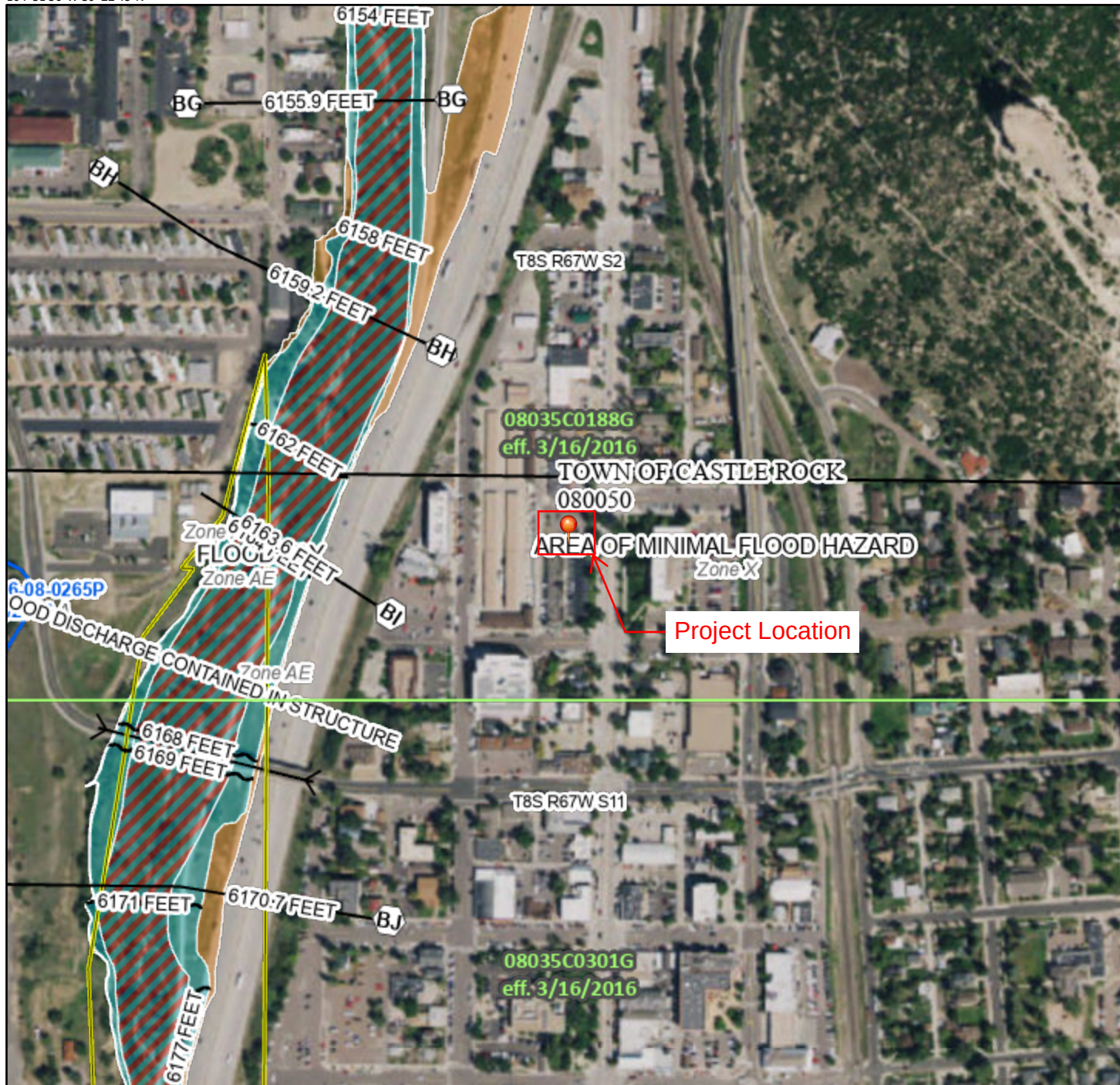
C_B = Runoff coefficient for NRCS HSG B soils

$C_{C/D}$ = Runoff coefficient for NRCS HSG C and D soils.

National Flood Hazard Layer FIRMette



104°51'56"W 39°22'48"N



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

1:6,000

104°51'19"W 39°22'20"N

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

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
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		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
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 4/3/2023 at 3:40 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.



Summary of Water Quality Conformance to MS4 Permit

The purpose of this worksheet is to document conformance with the Town of Castle Rock's MS4 permit with regard to permanent water quality on land disturbance projects.

Project Name Snarf's

Project Owner JDS 619 WILCOX LLC

Project Location 619 N Wilcox Street, Castle Rock, CO

ToCR Project Number _____

Total Site Area 0.32 _____ **acres**

Total Size of Common Plan of Development N/A _____ **acres**

Check all that apply:

☒ **Project within Plum Creek Basin**

☐ **Project within Cherry Creek Basin**

Estimated construction completion date 09/30/2025

1. The water quality control measure(s) for applicable development sites shall meet one of the following base design standards as per the SDDTCM Section 14.4. Please select all design standards that were applied to meet conformance with the MS4 on this site.

- ☐ WQCV standard
- ☐ Pollutant removal standard
- ☐ Runoff reduction standard
- ☐ Applicable site draining to regional WQVC control measure (accepts drainage prior to discharging to WOTS)
- ☐ Applicable site draining to regional WQVC control facility (with receiving pervious area control measure upstream of WOTS)
- ☐ Constrained redevelopment sites standard
 - Imperviousness of existing site _____/_____ (Imp. Ac/Site Ac) = ____%
 - Variance required TCV No. _____
- ☐ Existing control measure with WQCV per previous criteria standards
 - Reference Construction Permit No. _____
- ☐ Cherry Creek Basin only, choose one: ☐ Tier 1 ☐ Tier 2 ☐ Tier 3
- ☒ No control measures provided (See Permanent WQ Worksheet for applicability)

Summary of Water Quality Conformance to MS4 Permit

2. Was an exclusion to water quality applied as per SDDTCM Section 13.1.5? ☐ Yes ☒ No

i. If yes, please select all that apply, provide total excluded impervious area(s) and submit variance, as applicable: TCV No. _____

- ☐ Pavement management site
Excluded impervious area: _____ acres
- ☐ Excluded roadway redevelopment
Excluded impervious area: _____ acres
- ☐ Excluded existing roadway areas
Excluded impervious area: _____ acres
- ☐ Above ground and below ground utilities
- ☐ Large lot single family home
- ☐ Non-residential and non-commercial infiltration
Excluded impervious area: _____ acres
- ☐ Land disturbance for land to remain undeveloped
Excluded impervious area: _____ acres
- ☐ Stream Stabilization Sites
Excluded impervious area: _____ acres
- ☐ Trails
Excluded impervious area: _____ acres
- ☐ Oil and Gas Exploration

3. For Development and Redevelopment sites, following any exclusions claimed above, was any portion of the site excluded up to 20% of the site and not to exceed one acre? ☐ Yes ☐ No

If yes, complete the following:

Excluded area: _____ acres
Total Site area: _____ acres, _____ % site excluded

**N/A- NO
EXCLUSION
CLAIMED**

4. For Constrained sites, was any portion of the site excluded up to 50% of the site and not to exceed 50% of the impervious area? ☐ Yes ☐ No

If yes, complete the following:

Excluded area: _____ acres
Excluded impervious area: _____ acres
Total Site area: _____ acres, _____ % site excluded
Total Impervious area: _____ acres, _____ % impervious excluded

**N/A- NO
EXCLUSION
CLAIMED**

Applicant: Snarf's Sandwiches

Section	Question	Response	Instructions
3	Applicable Sites with Other Exclusions by Variance		
3.1	Category 1: Roadways, bridges and trails only		
3.1.1	Is the project a bike or pedestrian trail? N/A	☐ Yes ☐ No	Proceed to next line. Proceed to 3.1.2.
	Is the trail for a roadway? N/A	☐ Yes ☐ No	Proceed to 3.1.2. Project is excluded. Submit variance for <u>Trails Excluded from Permanent Water Quality Requirements</u> .
3.1.2	Is the project primarily used for parking or access to parking? N/A	☐ Yes ☐ No	This exclusion does not apply. Permanent water quality is required. Proceed to 3.1.3.
3.1.3	Does the project add impervious area? N/A	☐ No ☐ Yes	Project is excluded. Submit variance for <u>Pavement Management Sites Excluded from Permanent Water Quality Requirements</u> . Proceed to 3.1.4.
3.1.4	Does the project add more than 8.25 feet of paved width at any location to the existing roadway? N/A	☐ No ☐ Yes	Project is excluded. Submit variance for <u>Roadway Redevelopment Sites Excluded from Permanent Water Quality Requirements</u> . Proceed to next line.
	Does the project add more than one acre of paved area per mile to an existing roadway? N/A	☐ No ☐ Yes	Project is excluded. Submit variance for <u>Roadway Redevelopment Sites Excluded from Permanent Water Quality Requirements</u> . Proceed to next line.
	Does the project increase the width by two times or more, on average, of the original roadway area? N/A	☐ No ☐ Yes	Existing areas of site are excluded only. Submit variance for <u>Existing Roadway Surfaces Only Excluded from Permanent Water Quality Requirements</u> . This exclusion does not apply. Permanent water quality is required.
3.2	Category 2: Non-residential and non-commercial projects only		
3.2.1	Is the project associated with oil and gas exploration, production, processing, or treatment operations or transmission facilities, including activities necessary to prepare a site for drilling and the movement and placement of drilling equipment? N/A	☐ Yes ☐ No	Project is excluded. Submit variance for <u>Oil and Gas Exploration Sites Excluded from Permanent Water Quality Requirements</u> . Proceed to 3.2.2.
3.2.2	Is the project for stream stabilization? N/A	☐ Yes ☐ No	Project is excluded. Submit variance for <u>Stream Stabilization Sites Excluded from Permanent Water Quality Requirements</u> . Proceed to 3.2.3.
3.2.3	Is the project for installation or maintenance of aboveground or underground utilities or infrastructure that does not permanently alter the terrain, ground cover, or drainage patterns from those present prior to the construction activity including activities to install, replace or maintain utilities under roadways or other paved areas that return the surface to the same condition? N/A	☐ Yes ☐ No	Project is excluded. Submit variance for <u>Aboveground and Underground Utilities Excluded from Permanent Water Quality Requirements</u> . Proceed to 3.2.4.
3.2.4	Is the project on undeveloped land (land with no human-made structures such as buildings or pavement) that will remain undeveloped after the project? N/A	☐ Yes ☐ No	Project is excluded. Submit variance for <u>Sites with Land Disturbances to Undeveloped Land that will Remain Undeveloped Excluded from Permanent Water Quality Requirements</u> . Proceed to 3.2.5.
3.2.5	Will the post-project condition result in surface water discharge during the 80th percentile storm runoff event? N/A	☐ No ☐ Yes	Project is excluded. Submit study along with variance for <u>Non-residential and Non-commercial Infiltration Conditions Excluded from Permanent Water Quality Requirements</u> . This exclusion does not apply. Permanent water quality is required.

Section	Question	Response	Instructions
3.3	Category 3: Residential, Agricultural and Commercial projects		
3.3.1	Is the project a single-family residential lot, or agricultural zoned lands, greater than or equal to 2.5 acres in size per dwelling unit? N/A	☐ Yes ☐ No	Proceed to next line. Proceed to 3.3.2.
	Is the project site greater than 10% impervious? N/A	☐ No ☐ Yes	Project is excluded. Submit variance for <u>Large Lot Single Family Sites Excluded from Permanent Water Quality Requirements</u> . Proceed to next line.
	Is the project site greater than 20% impervious? N/A	☐ Yes ☐ No	This exclusion does not apply. Permanent water quality is required. Proceed to next line.
	Will the post-project condition result in surface water discharge during the 80th percentile storm runoff event? N/A	☐ No ☐ Yes	Project is excluded. Submit study along with variance for <u>Large Lot Single Family Sites Excluded from Permanent Water Quality Requirements</u> . This exclusion does not apply. Permanent water quality is required.
3.3.2	Will 100% of the runoff from the residential or commercial site be captured? N/A	☐ Yes ☐ No	This exclusion does not apply. Permanent water quality is required. Proceed to next line.
	Is all or a portion of the site undeveloped or will it remain undeveloped after construction? N/A	☐ Yes ☐ No	This portion of the project is excluded. Submit variance for <u>Sites with Land Disturbance to Undeveloped Land that will Remain Undeveloped Excluded from Permanent Water Quality Requirements</u> . Proceed to next line. Proceed to next line.
	Is the remaining untreated impervious area greater than 20% of the site? N/A	☐ Yes ☐ No	This exclusion does not apply. Permanent water quality is required. Proceed to next line.
	Is the remaining untreated impervious area greater than one acre? N/A	☐ Yes ☐ No	This exclusion does not apply. Permanent water quality is required. Proceed to next line.
	Is it practicable to capture runoff from portions of the site that will not drain to a control measure? N/A	☐ No ☐ Yes	Document justification demonstrating that it is not practicable to capture runoff from this portion of the site in the drainage report . No further action is needed. This exclusion does not apply. Permanent water quality is required.