

April 6, 2018

Ms. Nina Ruiz  
Senior Planner  
El Paso County  
2880 International Circle  
Colorado Springs, CO 80910

Please change name to Elizabeth Nijkamp,  
PE, Engineering Review Manager

add proposed plat name and lot numbers.

existing or proposed

**Re: Drainage Compliance Letter for Proposed Les Schwab Tire Center on Lots 3 & 4 – Meridian Crossing Filing Number 1**

Dear Ms. Ruiz,

Elizabeth Nijkamp, PE

change City to  
County as  
appropriate.

This drainage conformance letter has been prepared for Lots 3 and 4 Meridian Crossing Filing Number 1 located in the Southeast Quarter of Section 32, Township 12 South, Range 64 West of City of Falcon, County of El Paso, State of Colorado. The purpose of this letter is to demonstrate that the proposed drainage for the tire center site conforms to the current City of *Colorado Springs Drainage Criteria Manual* and the approved *the Final Drainage Report – Meridian Crossing* prepared by Springs Engineering, Inc. Dated July 2008. Runoff coefficient calculations have been performed for the subject site and these calculations are attached herein.

Please state the condition of this facility and if any improvements are necessary at this time for it function as designed.

The tire center combined 2.48-acre site. The project site is located within Basin D-2 of the *Final Drainage Report – Meridian Crossing*. The majority of runoff from this lot was designed to be captured by storm water quality pond PLD in basin D-2. The runoff is conveyed into the existing storm sewer at the southern end of basin D-2 which traverses underneath Old Meridian Road and discharges into the existing detention pond WU. The planned 5-year and 100-year runoff for Basin D-2 of the *Phase III Drainage Study* are 23.4cfs and 43.9cfs, respectively. Since the proposed developed acreage in this report is approximately half of existing Basin D-2, we can assume that existing runoff volumes are 11.7cfs for the 5-year and 22cfs for the 100-year.

please clarify what  
report/plan D-2 is  
referencing.

The proposed site slopes from north to south ensuring the tire center is consistent with the intended grading and drainage pattern proposed in the original overall design.

and roof.

On-Site flows will be collected in a series of basins and storm sewer network throughout the development which will convey storm flows to the existing detention and water quality pond located at the southeast end of Basin D-2. The on-site basins will account for all entire proposed 2.48 acre development. Runoff will be collected by the on site storm sewer network and conveyed via a 24" pipe to existing water quality pond PLD. Further survey information is needed for this area of the development and will be updated as the design progresses.

what car wash site?

What development constructed this pond?

The proposed drainage design for the car wash site consists of 5 on-site drainage basins, A-1-A-4, and R-1 totaling 1.7 Acres. The basins consist mainly of asphalt areas with some landscaping, sidewalks, and curb and gutter. Pavement runoff and adjacent landscaped areas within basins A-1, A-3-A-4, and B-1 will sheet flow and be collected in proposed Type R inlets

please call out the condition of this pond and if it requires maintenance prior to you discharging into it. Please call this out as a WQ pond. there is no B-1

Town of Erie  
Lot 7 – Vista Ridge Filing No. 14 2<sup>nd</sup> Amendment  
May 25, 2017

Update the heading

I'm stopping here, not looking at any calculations or plan in back. Please QC your own work.

located within the curb lines throughout the site. Roof areas in Basin R-1 will be piped into the storm system network south of the building via roof drains which will ultimately be piped to the existing storm water quality pond PLD.

The combined runoff volumes for the entire project site are estimated to be 5.2cfs and 12.3cfs in the 5 and 100 year storms, respectively. These runoff volumes are below the planned values of basin D-2 (11.7cfs and 22cfs) and thus the runoff will be less than originally planned. The overall imperviousness for the entire proposed project site after final stabilization has been calculated to be 62%. These findings indicate that this project will have no negative impacts on the existing drainage infrastructure.

I affirm that the proposed drainage d Please explain the differences your Q5 and Q100 and the previous report's Q5 and Q100, explaining that you are only developing half of the original basin D-2.  
Crossing prepared by Springs Engineering, Inc. Dated July 2008.

---

Joseph D. Park, PE  
Civil Engineering Project Manager  
Galloway & Company, Inc.  
Licensed Professional Engineer, State of Colorado No.

**Attachments:**

Les Schwab Tire Falcon, CO – Drainage Plan  
Les Schwab Tire Falcon, CO - Hydrologic Computations  
Final Drainage Report – Meridian Crossing – Drainage Plan

Please clarify all references to give full name including subdivision filing, date approved, and firm.

Please acquire an easement for the 24" storm line that you anticipate constructing on Lot 5. Since Lot 5 is owned by same company as Lots 3 & 4, you may add this easement to the proposed re-plat.

Please provide documentation that allows you to construct on the adjacent property.

note, all area within you site must pass through a WQ facility. what you call OS-1 and OS-3 are also required to pass through if ANY impervious area is within them. they are not off site basins, they are within your site. please provide justification as to why you are not, please address the four step process, please describe what flow may go to lot 5 from your OS-3 and state that it is anticipated to be routed through the existing WQ facility.

Project: Les Schwab Tire Center, Falcon, CO

Date: 4/6/2018

Basin	Land Use	Percent Impervious	Area (FT <sup>2</sup> )	Area (Ac.)	Soil Type	Composite C <sub>5</sub>	Composite C <sub>100</sub>
A-1	Paved Areas	100%	20,328	0.47		0.90	0.96
	Roofs	90%		0.00		0.73	0.81
	Landscape	0%	1,948	0.04		0.08	0.35
	<b>TOTAL</b>	<b>91%</b>	<b>22,275</b>	<b>0.511</b>	<b>A</b>	<b>0.83</b>	<b>0.91</b>
A-2	Paved Areas	100%	17,774	0.41		0.90	0.96
	Roofs	90%		0.00		0.73	0.81
	Landscape	0%	12,142	0.28		0.08	0.35
	<b>TOTAL</b>	<b>59%</b>	<b>29,916</b>	<b>0.687</b>	<b>A</b>	<b>0.57</b>	<b>0.71</b>
A-3	Paved Areas	100%	9,988	0.23		0.90	0.96
	Roofs	90%		0.00		0.73	0.81
	Landscape	0%	353	0.01		0.08	0.35
	<b>TOTAL</b>	<b>97%</b>	<b>10,341</b>	<b>0.237</b>	<b>A</b>	<b>0.87</b>	<b>0.94</b>
A-4	Paved Areas	100%	9,052	0.21		0.90	0.96
	Roofs	90%		0.00		0.73	0.81
	Landscape	0%		0.00		0.08	0.35
	<b>TOTAL</b>	<b>100%</b>	<b>9,052</b>	<b>0.208</b>	<b>A</b>	<b>0.9</b>	<b>0.96</b>
R-1	Paved Areas	100%		0.00		0.90	0.96
	Roofs	90%	2,694	0.06		0.73	0.81
	Landscape	0%		0.00		0.08	0.35
	<b>TOTAL</b>	<b>90%</b>	<b>2,694</b>	<b>0.062</b>	<b>A</b>	<b>0.73</b>	<b>0.81</b>
OS-1 (Not included in calculation)	Paved Areas	100%	1,715	0.04		0.90	0.96
	Roofs	90%		0.00		0.73	0.81
	Landscape	0%	7,252	0.17		0.08	0.35
	<b>TOTAL</b>	<b>19%</b>	<b>8,967</b>	<b>0.206</b>	<b>A</b>	<b>0.24</b>	<b>0.47</b>
OS-2 (Not included in calculation)	Paved Areas	100%	4,556	0.10		0.90	0.96
	Roofs	90%		0.00		0.73	0.81
	Landscape	2%	1,763	0.04		0.08	0.35
	<b>TOTAL</b>	<b>73%</b>	<b>6,319</b>	<b>0.145</b>	<b>A</b>	<b>0.67</b>	<b>0.79</b>
OS-3 (Not included in calculation)	Paved Areas	100%	8,593	0.20		0.90	0.96
	Roofs	90%		0.00		0.73	0.81
	Landscape	0%	5,275	0.12		0.08	0.35
	<b>TOTAL</b>	<b>62%</b>	<b>13,867</b>	<b>0.318</b>	<b>A</b>	<b>0.59</b>	<b>0.73</b>
Site Total	Paved Areas	100%	57,141	1.31		0.90	0.96
	Roofs	90%	2,694	0.06		0.73	0.81
	Landscape	2%	14,443	0.33		0.08	0.35
	<b>TOTAL</b>	<b>62%</b>	<b>97,113</b>	<b>1.705</b>	<b>A</b>	<b>0.56</b>	<b>0.64</b>

Project: Les Schwab Tire Center, Falcon, CO  
 Address: Jacoby Farm Subdivision 5th Filing, Lot 5  
 Date: 4/6/2018

Basin Data			Initial/Overland Time ( $T_i$ )			Travel Time ( $T_t$ )					$T_c$ Check Urbanized Basins			Final $T_c$
Basin	Area (acre)	$C_5$	Length (ft)	Slope (%)	$T_i$ (min)	Length (ft)	Slope (%)	Conv. Coeff. (Table 6-7)	Vel. (fps)	$T_t$ (min)	Total Length (ft)	Comp. $T_c$ (min)	$T_c=(L/180)+10$ (min)	Final $T_c$ (min)
<b>A-1</b>	0.51	0.83	100	2.0%	3.9	299	2.0%	20	2.8	1.8	399	5.7	12.2	<b>5.7</b>
<b>A-2</b>	0.69	0.57	100	1.0%	9.7	176	1.0%	20	2.0	1.5	276	11.2	11.5	<b>11.2</b>
<b>A-3</b>	0.24	0.87	100	3.0%	2.9	125	3.0%	20	3.5	0.6	225	5.0	11.3	<b>5.0</b>
<b>A-4</b>	0.21	0.90	100	2.0%	2.9	31	2.0%	20	2.8	0.2	131	5.0	10.7	<b>5.0</b>
<b>R-1</b>	0.06	0.73	61	3.5%	3.5	150	2.0%	20	2.8	0.9	211	5.0	11.2	<b>5.0</b>
<b>Site Total</b>	1.71	0.56	218	3.0%	10.1						218	10.1	11.2	<b>10.1</b>
<b>OS-1</b>	0.21	0.24	100	3.0%	10.9	200	3.0%	20	3.5	1.0	300	11.9	11.7	<b>11.7</b>
<b>OS-2</b>	0.15	0.67	20	4.0%	2.2	200	2.0%	20	2.8	1.2	220	5.0	11.2	<b>5.0</b>
<b>OS-3</b>	0.32	0.59	30	2.0%	4.1						30	5.0	10.2	<b>5.0</b>

Project: Les Schwab Tire Center, Falcon, CO

Address: Jacoby Farm Subdivision 5th Filing, Lot 5

Date: 4/6/2018

5	-YR EVENT ROUTING CALCULATIONS
1.23	$P_1$ Intensity = $(28.5 \cdot P_1) / (10 + T_c)^{0.786}$

	DIRECT RUNOFF								TOTAL RUNOFF				Notes
		Basin	AREA (ac)	Runoff Coeff.	Tc (min)	CA (ac)	I (in/hr)	Q (cfs)	Tc (min)	CA (ac)	I (in/hr)	Q (cfs)	
BASIN A-1	Inlet 1	A-1	0.51	0.83	5.7	0.42	4.03	1.71 cfs					
BASIN A-2	Inlet 2	A-2	0.69	0.57	11.2	0.39	3.18	1.25 cfs					
BASIN A-3	Inlet 3	A-3	0.24	0.87	5.0	0.21	4.17	0.86 cfs					
BASIN A-4	Inlet 4	A-4	0.21	0.90	5.0	0.19	4.17	0.78 cfs					
BASIN R-1	Basin	R-1	0.06	0.73	5.0	0.05	4.17	0.19 cfs					
OS-1	Basin	OS-1	0.21	0.24	11.7	0.05	3.12	0.15 cfs					
OS-2	Basin	OS-2	0.15	0.67	5.0	0.10	4.17	0.41 cfs					
OS-3	Basin	OS-3	0.32	0.59	5.0	0.19	4.17	0.78 cfs					
DP 1									5.0	0.44	4.17	1.8 cfs	Basins R-1, A-2
DP 2									5.0	0.61	4.17	2.6 cfs	Basins A-1, A-4
DP 3									5.0	1.25	4.17	5.2 cfs	Basins A-1 - A-4, R-1

Project: Les Schwab Tire Center, Falcon, CO

Address: Jacoby Farm Subdivision 5th Filing, Lot 5

Date: 4/6/2018

100	-YR EVENT ROUTING CALCULATIONS
2.55	$P_1$ Intensity = $(28.5 \cdot P_1) / (10 + T_c)^{0.786}$

	DIRECT RUNOFF								TOTAL RUNOFF				Notes
		Basin	AREA (ac)	Runoff Coeff.	Tc (min)	CA (ac)	I (in/hr)	Q (cfs)	Tc (min)	CA (ac)	I (in/hr)	Q (cfs)	
BASIN A-1	Inlet 1	A-1	0.51	0.91	5.7	0.47	8.35	3.89 cfs					
BASIN A-2	Inlet 2	A-2	0.69	0.71	11.2	0.49	6.60	3.22 cfs					
BASIN A-3	Inlet 3	A-3	0.24	0.94	5.0	0.22	8.65	1.93 cfs					
BASIN A-4	Inlet 4	A-4	0.21	0.96	5.0	0.20	8.65	1.73 cfs					
BASIN R-1	Basin	R-1	0.06	0.81	5.0	0.05	8.65	0.43 cfs					
BASIN OS-1	Basin	OS-1	0.21	0.47	11.7	0.10	6.48	0.63 cfs					
BASIN OS-2	Basin	OS-2	0.15	0.79	5.0	0.11	8.65	0.99 cfs					
BASIN OS-3	Basin	OS-3	0.32	0.73	5.0	0.23	8.65	2.01 cfs					
DP 1									5.0	0.54	8.65	4.7 cfs	Basins R-1, A-2
DP 2									5.0	0.66	8.65	5.8 cfs	Basins A-1, A-4
DP 3									5.0	1.43	8.65	12.3 cfs	Basins A-1 - A-4, R-1



**NOAA Atlas 14, Volume 8, Version 2**  
**Location name: Peyton, Colorado, USA\***  
**Latitude: 38.9352°, Longitude: -104.612°**  
**Elevation: 6849.85 ft\*\***  
 \* source: ESRI Maps  
 \*\* source: USGS



### POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Deborah Martin, Sandra Pavlovic, Ishani Roy, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Michael Yekta, Geoffrey Bonnin

NOAA, National Weather Service, Silver Spring, Maryland

[PF tabular](#) | [PF graphical](#) | [Maps & aerals](#)

### PF tabular

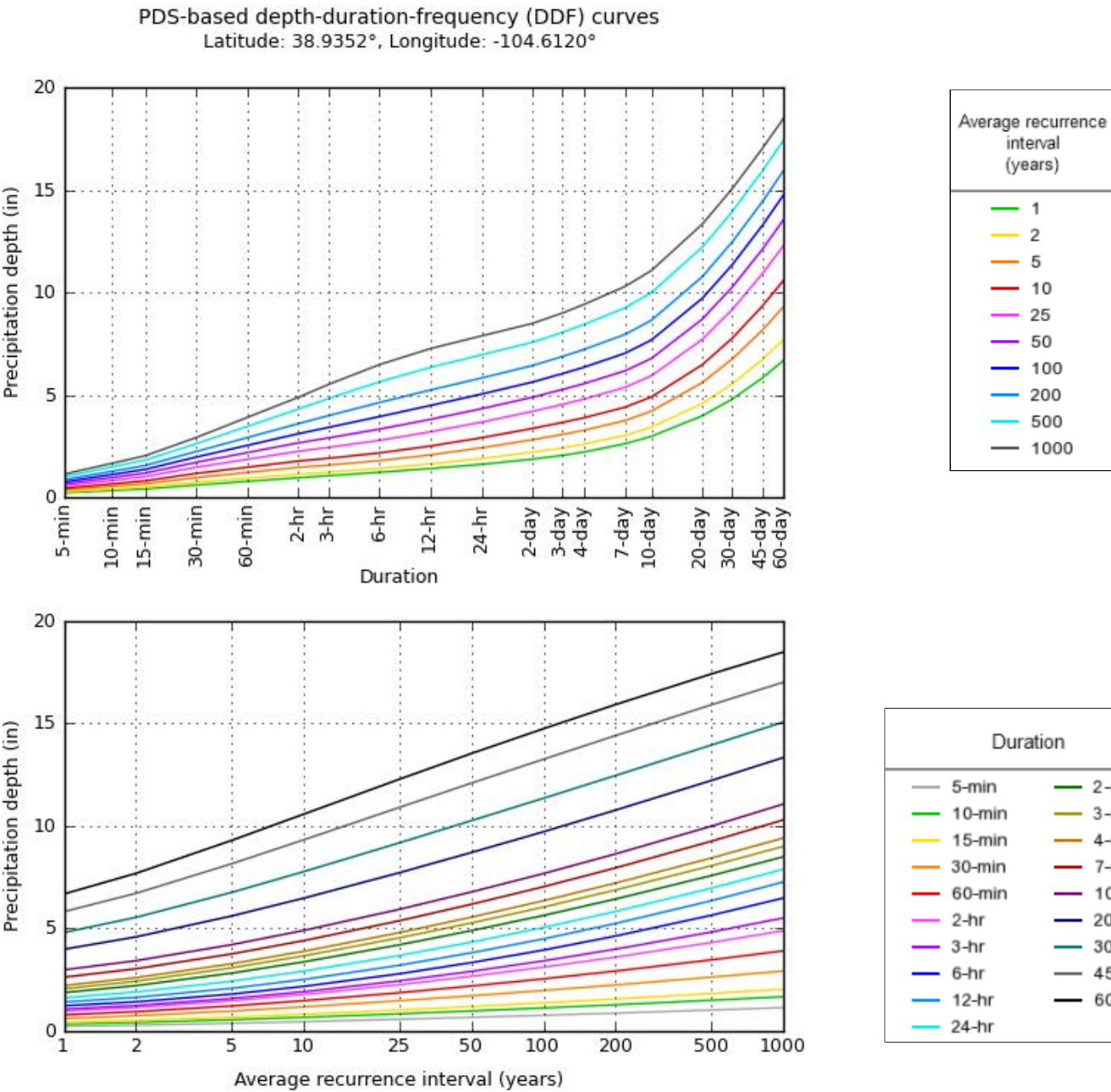
PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches) <sup>1</sup>										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.238 (0.193-0.295)	0.289 (0.234-0.360)	0.379 (0.306-0.473)	0.458 (0.368-0.574)	0.575 (0.448-0.752)	0.670 (0.508-0.886)	0.770 (0.564-1.04)	0.876 (0.614-1.22)	1.02 (0.690-1.46)	1.14 (0.747-1.65)
10-min	0.348 (0.282-0.433)	0.424 (0.343-0.527)	0.555 (0.448-0.693)	0.671 (0.539-0.841)	0.841 (0.656-1.10)	0.981 (0.744-1.30)	1.13 (0.825-1.53)	1.28 (0.899-1.78)	1.50 (1.01-2.14)	1.67 (1.09-2.41)
15-min	0.424 (0.344-0.528)	0.517 (0.419-0.643)	0.677 (0.547-0.845)	0.819 (0.657-1.02)	1.03 (0.800-1.34)	1.20 (0.908-1.58)	1.38 (1.01-1.86)	1.57 (1.10-2.18)	1.83 (1.23-2.61)	2.04 (1.33-2.94)
30-min	0.614 (0.498-0.763)	0.747 (0.605-0.929)	0.977 (0.789-1.22)	1.18 (0.947-1.48)	1.48 (1.15-1.93)	1.72 (1.31-2.28)	1.98 (1.45-2.68)	2.25 (1.58-3.13)	2.63 (1.77-3.75)	2.93 (1.91-4.22)
60-min	0.792 (0.643-0.985)	0.947 (0.767-1.18)	1.23 (0.990-1.53)	1.48 (1.19-1.86)	1.87 (1.46-2.46)	2.19 (1.67-2.92)	2.55 (1.87-3.46)	2.93 (2.06-4.09)	3.47 (2.34-4.97)	3.91 (2.55-5.64)
2-hr	0.971 (0.794-1.20)	1.15 (0.937-1.42)	1.48 (1.20-1.83)	1.78 (1.44-2.22)	2.26 (1.79-2.97)	2.67 (2.05-3.53)	3.12 (2.31-4.22)	3.61 (2.56-5.01)	4.31 (2.94-6.15)	4.89 (3.22-7.01)
3-hr	1.07 (0.876-1.31)	1.25 (1.02-1.53)	1.59 (1.30-1.95)	1.92 (1.56-2.37)	2.44 (1.95-3.21)	2.91 (2.25-3.85)	3.42 (2.55-4.63)	3.99 (2.85-5.54)	4.82 (3.31-6.87)	5.51 (3.65-7.87)
6-hr	1.24 (1.02-1.50)	1.43 (1.18-1.74)	1.80 (1.48-2.20)	2.18 (1.78-2.67)	2.79 (2.25-3.65)	3.34 (2.61-4.39)	3.95 (2.97-5.32)	4.63 (3.34-6.40)	5.64 (3.90-7.99)	6.48 (4.33-9.19)
12-hr	1.42 (1.18-1.71)	1.64 (1.37-1.99)	2.08 (1.73-2.53)	2.51 (2.08-3.06)	3.21 (2.60-4.15)	3.82 (3.00-4.98)	4.49 (3.41-6.00)	5.25 (3.81-7.19)	6.35 (4.42-8.92)	7.27 (4.89-10.2)
24-hr	1.62 (1.37-1.95)	1.91 (1.60-2.29)	2.43 (2.03-2.92)	2.92 (2.43-3.53)	3.68 (3.00-4.70)	4.33 (3.43-5.58)	5.05 (3.85-6.66)	5.83 (4.26-7.90)	6.96 (4.88-9.69)	7.89 (5.35-11.0)
2-day	1.88 (1.59-2.23)	2.22 (1.88-2.64)	2.82 (2.38-3.37)	3.37 (2.83-4.04)	4.20 (3.44-5.29)	4.89 (3.89-6.23)	5.64 (4.33-7.35)	6.44 (4.73-8.63)	7.58 (5.35-10.4)	8.49 (5.81-11.8)
3-day	2.06 (1.76-2.44)	2.43 (2.07-2.88)	3.08 (2.61-3.66)	3.67 (3.09-4.37)	4.54 (3.73-5.68)	5.27 (4.21-6.67)	6.04 (4.66-7.84)	6.88 (5.08-9.18)	8.06 (5.71-11.0)	9.00 (6.19-12.5)
4-day	2.22 (1.90-2.62)	2.60 (2.22-3.07)	3.28 (2.79-3.88)	3.89 (3.29-4.62)	4.80 (3.95-5.97)	5.55 (4.45-7.00)	6.35 (4.91-8.21)	7.22 (5.35-9.59)	8.43 (6.00-11.5)	9.41 (6.50-13.0)
7-day	2.63 (2.26-3.08)	3.04 (2.61-3.56)	3.76 (3.22-4.42)	4.41 (3.75-5.20)	5.37 (4.46-6.64)	6.18 (4.99-7.73)	7.03 (5.48-9.03)	7.95 (5.93-10.5)	9.25 (6.63-12.6)	10.3 (7.15-14.1)
10-day	2.98 (2.58-3.48)	3.43 (2.96-4.00)	4.21 (3.62-4.93)	4.90 (4.19-5.77)	5.93 (4.93-7.29)	6.78 (5.49-8.44)	7.68 (6.00-9.81)	8.64 (6.47-11.4)	9.98 (7.18-13.5)	11.1 (7.72-15.1)
20-day	3.99 (3.47-4.61)	4.59 (3.99-5.31)	5.61 (4.86-6.51)	6.48 (5.58-7.55)	7.72 (6.44-9.34)	8.70 (7.09-10.7)	9.72 (7.64-12.3)	10.8 (8.12-14.0)	12.2 (8.84-16.3)	13.3 (9.39-18.1)
30-day	4.80 (4.20-5.53)	5.54 (4.85-6.38)	6.76 (5.89-7.80)	7.77 (6.73-9.02)	9.17 (7.67-11.0)	10.3 (8.38-12.5)	11.3 (8.95-14.2)	12.5 (9.42-16.1)	13.9 (10.1-18.5)	15.1 (10.7-20.4)
45-day	5.82 (5.12-6.66)	6.72 (5.90-7.69)	8.15 (7.14-9.37)	9.32 (8.11-10.8)	10.9 (9.13-13.0)	12.1 (9.90-14.6)	13.2 (10.5-16.5)	14.4 (10.9-18.4)	15.9 (11.6-21.0)	17.0 (12.1-22.9)
60-day	6.68 (5.90-7.62)	7.69 (6.78-8.78)	9.29 (8.16-10.6)	10.6 (9.24-12.2)	12.3 (10.3-14.5)	13.5 (11.1-16.3)	14.7 (11.7-18.2)	15.9 (12.1-20.3)	17.4 (12.7-22.9)	18.5 (13.2-24.8)

<sup>1</sup> Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS). Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values. Please refer to NOAA Atlas 14 document for more information.

[Back to Top](#)



PF graphical

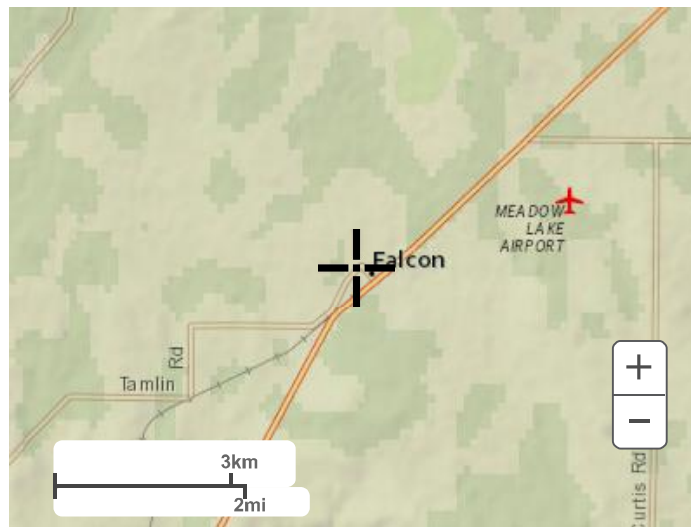


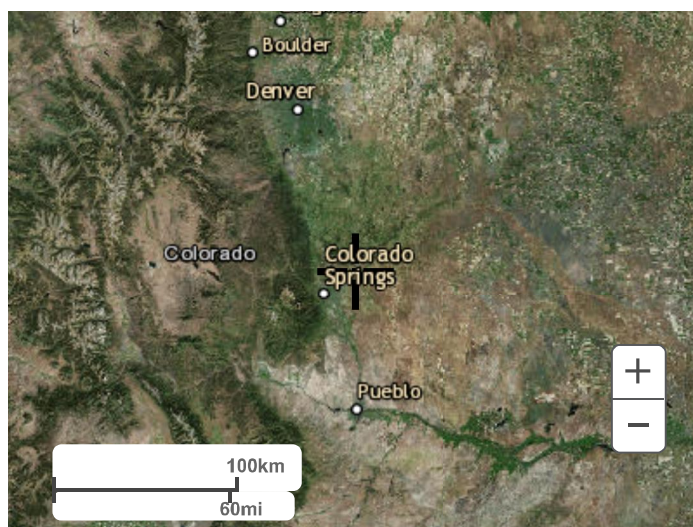
[Back to Top](#)

Maps & aerials

Small scale terrain



**Large scale terrain****Large scale map****Large scale aerial**

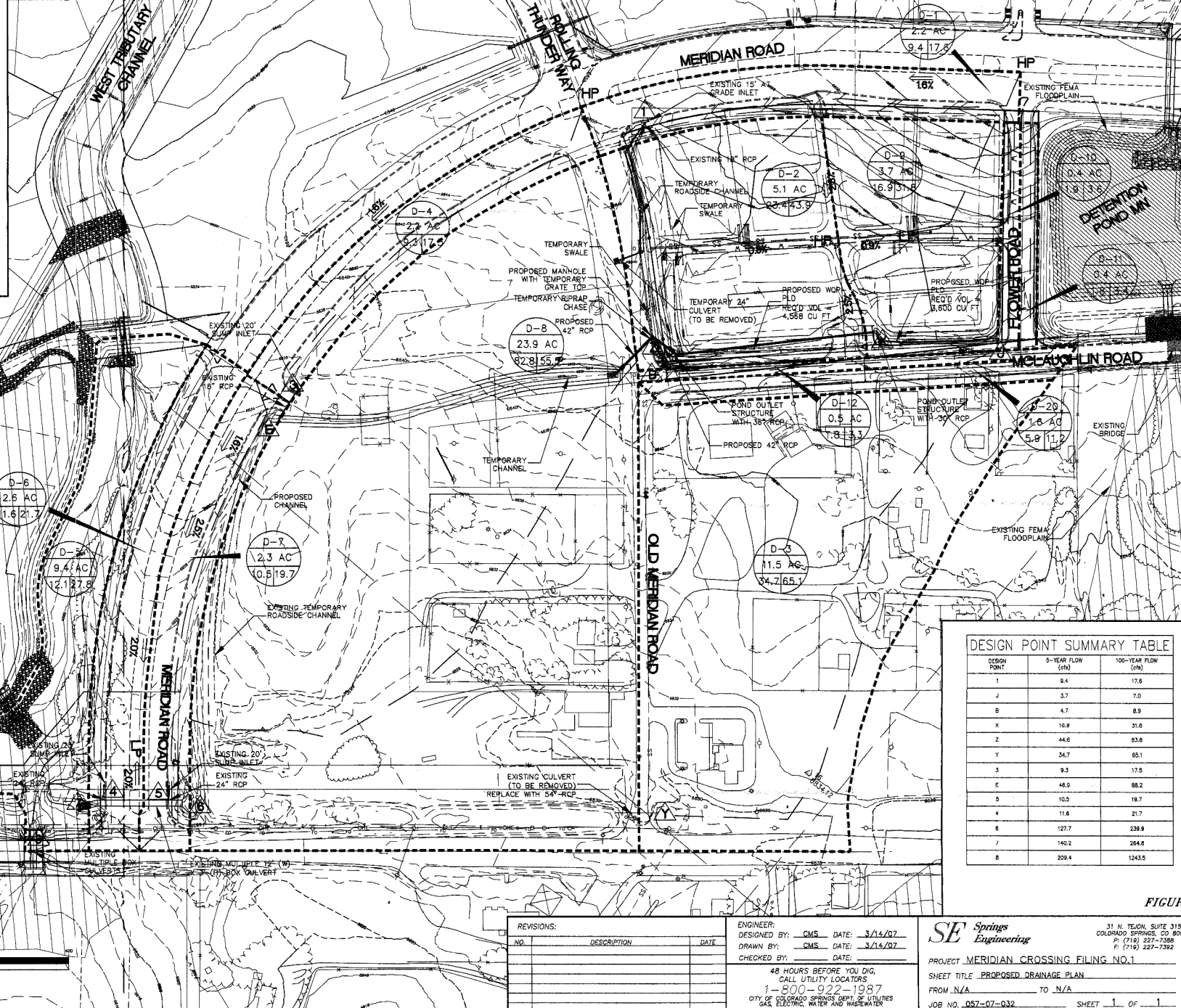


[Back to Top](#)

---

[US Department of Commerce](#)  
[National Oceanic and Atmospheric Administration](#)  
[National Weather Service](#)  
[National Water Center](#)  
1325 East West Highway  
Silver Spring, MD 20910  
Questions?: [HDSC.Questions@noaa.gov](mailto:HDSC.Questions@noaa.gov)

[Disclaimer](#)



DESIGN POINT	5-YEAR FLOW (cfs)	100-YEAR FLOW (cfs)
1	9.4	17.6
J	3.7	7.0
B	4.7	8.9
X	16.9	31.6
Z	44.6	83.6
Y	34.7	65.1
3	9.3	17.5
E	48.9	88.2
5	10.5	19.7
4	11.6	21.7
6	127.7	239.9
7	140.2	254.8
8	209.4	1243.5

FIGURE 1

REVISIONS:  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">NO.</th> <th style="width: 60%;">DESCRIPTION</th> <th style="width: 30%;">DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			NO.	DESCRIPTION	DATE																															ENGINEER: DESIGNED BY: <u>CMS</u> DATE: <u>3/14/07</u> DRAWN BY: <u>CMS</u> DATE: <u>3/14/07</u> CHECKED BY: _____ DATE: _____  <div style="text-align: center;"> <b>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 1-800-922-1987</b>  <small>CITY OF COLORADO SPRINGS DEPT. OF UTILITIES GAS, ELECTRIC, WATER AND WASTEWATER</small> </div>			<div style="text-align: right;"> <div style="display: inline-block; text-align: left;"> <b>Spring Engineering</b>  <small>31 N. TEJON, SUITE 319              COLORADO SPRINGS, CO 80901              P: (719) 227-1388              F: (719) 227-1382</small> </div> </div> PROJECT <u>MERIDIAN CROSSING FILING NO.1</u> SHEET TITLE <u>PROPOSED DRAINAGE PLAN</u> FROM <u>N/A</u> TO <u>N/A</u> JOB NO. <u>057-07-032</u> SHEET <u>1</u> OF <u>1</u>		
NO.	DESCRIPTION	DATE																																							





Locked (21)

the reviewer stopped at the top of the second page. Please QC this document and make all appropriate changes prior to a re-submit.

Please call me with any questions you may have, Elizabeth Nijkamp, Engineering review manager. 719-520-7852

please call out who will own and maintain the WQ pond

and roof.

please call out the condition of this pond and if it requires maintenance prior to you discharging into it. Please call this out as a WQ pond.

change City to County as appropriate.

existing or proposed




are shown, from present to future, in a case study, where the model is used to estimate the effect of the proposed changes on the water quality of the receiving water body. The model is used to estimate the effect of the proposed changes on the water quality of the receiving water body. The model is used to estimate the effect of the proposed changes on the water quality of the receiving water body.


Elizabeth Nijkamp, PE

what car wash site?

[illegible]

**Subject:** Callout  
**Page Label:** 1  
**Lock:** Locked  
**Status:**  
**Checkmark:** Unchecked  
**Author:** dsdnijkamp  
**Date:** 5/4/2018 3:09:40 PM  
**Color:** 

[illegible]


**Subject:** Callout  
**Page Label:** 1  
**Lock:** Locked  
**Status:**  
**Checkmark:** Unchecked  
**Author:** dsdnijkamp  
**Date:** 5/4/2018 3:09:25 PM  
**Color:** 

1. *Storage pattern proposed in the original record design.*


1. collected in a series of basins and storm water network throughout the site convey storm flows to the existing detention and water quality pond at east of Section 2.0-2. The water quality pond is located for all storm proposed and it should be subjected by the on site storm water network and pipe to existing water quality pond. Further storage information is in the design development and will be updated as the design progresses.

2. *Design the on-site site consists of 5 on site storage basins, A, B, C, D, E basins. The basins storage capacity of rainfall peaks with one year return period and 24 hours duration. The storage capacity of basin A, B, C, D, and E will be calculated in paragraph 7. Item 8 states*

Total is 10, 000 ft<sup>3</sup>

**Subject:** Callout  
**Page Label:** 1  
**Lock:** Locked  
**Status:**  
**Checkmark:** Unchecked  
**Author:** dsdnijkamp  
**Date:** 5/4/2018 3:09:34 PM  
**Color:** 

[illegible]

**Subject:** Engineer  
**Page Label:** 1  
**Lock:** Locked  
**Status:**  
**Checkmark:** Unchecked  
**Author:** dsdgrimm  
**Date:** 5/4/2018 3:09:25 PM  
**Color:** 


Please state the condition of this facility and if any improvements are necessary at this time for it function as designed.

Please change name to Elizabeth Nijkamp, PE,  
Engineering Review Manager


© 2006 Blackwell Publishing Ltd Journal of Internal Medicine 260: 387–395

What development constructed this pond?

is proposed to be located on Lots 3 and 4 of the overall development, a new site. The project site is located within Basin D-2 of the Flood Drainage Basin. The majority of runoff from this lot was designed to be captured by storm

**Subject:** Callout  
**Page Label:** 1  
**Lock:** Locked  
**Status:**  
**Checkmark:** Unchecked  
**Author:** dsdnijkamp  
**Date:** 5/4/2018 3:09:30 PM  
**Color:** 

note, all area within you site must pass through a WQ facility. what you call OS-1 and OS-3 are also required to pass through if ANY impervious area is within them. they are not off site basins, they are within your site. please provide justification as to why you are not, please address the four step process, please describe what flow may go to lot 5 from your OS-3 and state that it is anticipated to be routed through the existing WQ facility.

**Subject:** Cloud+  
**Page Label:** 2  
**Lock:** Locked  
**Status:**  
**Checkmark:** Unchecked  
**Author:** dsdnijkamp  
**Date:** 5/4/2018 3:09:43 PM  
**Color:** 

## Update the heading



in Basin R-1 will be piped into  
which will ultimately be piped to

I'm stopping here, not looking at any calculations or plan in back. Please QC your own work.

Manager  
in  
charge, State of Colorado No.

Please explain the differences your Q5 and Q100 and the previous report's Q5 and Q100, explaining that you are only developing half of the original basin D-2.

**Gilberg & Company, Inc.** • 30274 100th • P.O. Box 360, Suite 10 • Everett, WA 98037 • [www.gilbert.com](http://www.gilbert.com)

Please clarify all references to give full name including subdivision filing, date approved, and firm.

Please acquire an easement for the 24" storm line that you anticipate constructing on Lot 5. Since Lot 5 is owned by same company as Lots 3 & 4, you may add this easement to the proposed re-plat.

Please provide documentation that allows you to construct on the adjacent property.