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October 20, 2026

El Paso County Engineering Division
Department of Public Works
3275 Akers Drive
Colorado Springs, Colorado 80922

Re: Professional Engineer's Certification of Permanent Control Measure
Flying Horse North Filing No. 4, Pond C

This letter serves as a Pond Certification for the constructed Full Spectrum Detention Facility "Pond C" located in Flying Horse North Filing No. 4. The permanent control measure is located at the central east area of the subdivision, adjacent and north of Old Stagecoach Road, east of Fringe Place and west of Rubble Drive.

The detention facility was designed by a Colorado Licensed Professional Engineer of HR Green Development, LLC. and the design is within the County approved Construction Drawings dated February 20, 2025 and is referred to as "Pond C" within Tract C of the development. A Colorado Licensed Professional Surveyor conducted an as-built survey of the facility in September of 2025 to verify the basin and infrastructure dimensions, elevations, materials, inverts, and slopes as required for determination of inflow and outflow hydraulics.

A Stormwater Preliminary Acceptance Punchlist was issued by El Paso County Stormwater Engineering staff and inspections dated 6/11/2026 for a 1st Walkthrough dated 6/11/2026 for ESQCP No. ESQ258 with the related PCD File Nos. SF2422, CON258, and ASB2616.

The as-built conditions of the basin and its infrastructure were assessed and compared to the approved Construction Drawings and design worksheets within the approved Final Drainage Report. As-built conditions were assessed and redlined plans and reports were issued for field adjustments and verification of as-built conditions for the pond and its infrastructure, per the ASB documentation.

Preliminary Acceptance Punchlist items included the following and were directly addressed as described:

- Inflow Riprap Upstream of Forebay
  - Riprap at the forebay inflow is not shown on the approved plans. Consult the Engineer of Record and provide supporting documentation as needed. See Note 1. ***As-built redlines have added this condition.***
- Outfall Rip-rap
  - Rip-rap at the pond outfall is not installed per the approved plans. Plans show buried riprap and in the field it is installed as exposed riprap. Install per approved plans or consult the Engineer of Record. See Note 1. ***Outfall/spillway rip-rap is exposed rip-rap and is now reflected on the as-builts, as approved by the Engineer of Record.***
  - Also, the riprap apron is not shaped to convey flows. It is piled up such that there is no positive drainage and flows will just bypass the riprap and cause erosion. So please reconfigure riprap to properly convey flows. ***A more defined conveyance V-shape swale has been constructed.***
- Maintenance access road installed with crushed concrete, which per direction from CDPHE is not an acceptable means of Final Stabilization, nor was that material on the approved plans, so please remove and install access road material per plans. ***As-built plans and redlines now call out crushed concrete as approved by the Engineer of Record. This was discussed with Stormwater Staff in July 2026 and is to be allowable for this filing.***

With the field adjustments and verification of as-built conditions as of July 22, 2026, the facility was found to be in general compliance with the design, and it is anticipated that the facility will function as intended with no negative impacts to surrounding and downstream developments, property, or infrastructure. General compliance allows for construction tolerances and is based on the information provided by the as-built survey.

The facility is in a stabilized condition and there are no proposed modifications required at this time.

The site and adjacent properties (as affected by work performed under the County permit) are stable with respect to settlement and subsidence, sloughing of cut and fill slopes, revegetation or other ground cover, and that the improvements (public improvements, common development improvements, site grading and paving) meet or exceed the minimum design requirements. The PCM(s) provide the required storage volume and meet the required release rates, stage areas, elevations, and outlet dimensions, as documented by the attached revised MHFD-Detention spreadsheet that shows the as-built conditions.

Sincerely,

HR GREEN, INC.



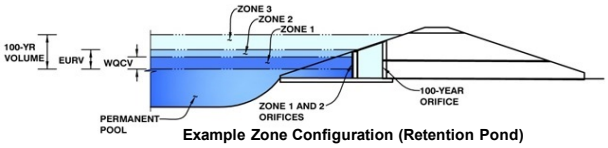
Richard D. Lyon, PE (No. 53921)
Senior Project Manager, Civil Engineer
HR Green Development, LLC.

DETENTION BASIN STAGE-STORAGE TABLE BUILDER

MHFD-Detention, Version 4.06 (July 2022)

Project: FLYING HORSE NORTH FILING NO. 4

Basin ID: POND C (AS-BUILT CONDITION SEPTEMBER 2026)



Example Zone Configuration (Retention Pond)

Watershed Information

Selected BMP Type =	EDB		
Watershed Area =	39.31	acres	
Watershed Length =	1,300	ft	
Watershed Length to Centroid =	700	ft	
Watershed Slope =	0.055	ft/ft	
Watershed Imperviousness =	10.40%	percent	
Percentage Hydrologic Soil Group A =	0.0%	percent	
Percentage Hydrologic Soil Group B =	100.0%	percent	
Percentage Hydrologic Soil Groups C/D =	0.0%	percent	
Target WQCV Drain Time =	40.0	hours	
Location for 1-hr Rainfall Depths =	User Input		

After providing required inputs above including 1-hour rainfall depths, click 'Run CUHP' to generate runoff hydrographs using the embedded Colorado Urban Hydrograph Procedure.

			Optional User Overrides	
Water Quality Capture Volume (WQCV) =	0.227	acre-feet		acre-feet
Excess Urban Runoff Volume (EURV) =	0.385	acre-feet		acre-feet
2-yr Runoff Volume (P1 = 1.19 in.) =	0.534	acre-feet	1.19	inches
5-yr Runoff Volume (P1 = 1.5 in.) =	1.166	acre-feet	1.50	inches
10-yr Runoff Volume (P1 = 1.75 in.) =	1.796	acre-feet	1.75	inches
25-yr Runoff Volume (P1 = 2 in.) =	2.914	acre-feet	2.00	inches
50-yr Runoff Volume (P1 = 2.25 in.) =	3.678	acre-feet	2.25	inches
100-yr Runoff Volume (P1 = 2.52 in.) =	4.777	acre-feet	2.52	inches
500-yr Runoff Volume (P1 = 3.14 in.) =	6.781	acre-feet		inches
Approximate 2-yr Detention Volume =	0.247	acre-feet		
Approximate 5-yr Detention Volume =	0.386	acre-feet		
Approximate 10-yr Detention Volume =	0.788	acre-feet		
Approximate 25-yr Detention Volume =	1.094	acre-feet		
Approximate 50-yr Detention Volume =	1.146	acre-feet		
Approximate 100-yr Detention Volume =	1.477	acre-feet		

Define Zones and Basin Geometry

Zone 1 Volume (WQCV) =	0.227	acre-feet
Zone 2 Volume (EURV - Zone 1) =	0.159	acre-feet
Zone 3 Volume (User Defined - Zones 1 & 2) =	0.615	acre-feet
Total Detention Basin Volume =	1.000	acre-feet

Note: L / W Ratio < 1

L / W Ratio = 0.99

Total detention volume is less than 100-year volume.

Depth Increment = ft

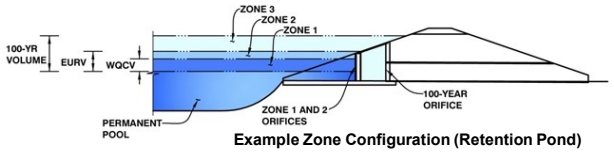
Stage - Storage Description	Stage (ft)	Optional Override Stage (ft)	Length (ft)	Width (ft)	Area (ft^2)	Optional Override Area (ft^2)	Area (acre)	Volume (ft^3)	Volume (ac-ft)
7530 **Top of Micropool**	--	0.00	--	--	--	10	0.000		
7530.5	--	0.50	--	--	--	240	0.006	62	0.001
7531.0	--	1.00	--	--	--	1,992	0.046	620	0.014
7531.5	--	1.50	--	--	--	5,757	0.132	2,558	0.059
7532.0	--	2.00	--	--	--	13,156	0.302	7,286	0.167
7532.5	--	2.50	--	--	--	21,025	0.483	15,831	0.363
7533.0	--	3.00	--	--	--	27,650	0.635	28,000	0.643
7533.5	--	3.50	--	--	--	32,890	0.755	43,135	0.990
7534.0	--	4.00	--	--	--	36,407	0.836	60,459	1.388
7534.5	--	4.50	--	--	--	38,990	0.895	79,308	1.821
7535.0	--	5.00	--	--	--	41,355	0.949	99,395	2.282
7535.5	--	5.50	--	--	--	43,890	1.008	120,706	2.771
7536.0	--	6.00	--	--	--	46,423	1.066	143,284	3.289
7536.5	--	6.50	--	--	--	48,825	1.121	167,096	3.836
7537.0	--	7.00	--	--	--	51,214	1.176	192,106	4.410
7537.5	--	7.50	--	--	--	53,690	1.233	218,332	5.012

DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.06 (July 2022)

Project: FLYING HORSE NORTH FILING NO. 4

Basin ID: POND C (AS-BUILT CONDITION SEPTEMBER 2026)



Example Zone Configuration (Retention Pond)

	Estimated Stage (ft)	Estimated Volume (ac-ft)	Outlet Type
Zone 1 (WQCV)	2.18	0.227	Orifice Plate
Zone 2 (EURV)	2.55	0.159	Orifice Plate
Zone 3 (User)	3.52	0.615	Weir&Pipe (Restrict)
Total (all zones)		1.000	

User Input: Orifice at Underdrain Outlet (typically used to drain WQCV in a Filtration BMP)

Underdrain Orifice Invert Depth =	N/A	ft (distance below the filtration media surface)	Underdrain Orifice Area =	N/A	ft²
Underdrain Orifice Diameter =	N/A	inches	Underdrain Orifice Centroid =	N/A	feet

Calculated Parameters for Underdrain

User Input: Orifice Plate with one or more orifices or Elliptical Slot Weir (typically used to drain WQCV and/or EURV in a sedimentation BMP)

Centroid of Lowest Orifice =	0.00	ft (relative to basin bottom at Stage = 0 ft)	WQ Orifice Area per Row =	6.111E-03	ft²
Depth at top of Zone using Orifice Plate =	2.62	ft (relative to basin bottom at Stage = 0 ft)	Elliptical Half-Width =	N/A	feet
Orifice Plate: Orifice Vertical Spacing =	10.20	inches	Elliptical Slot Centroid =	N/A	feet
Orifice Plate: Orifice Area per Row =	0.88	sq. inches (diameter = 1-1/16 inches)	Elliptical Slot Area =	N/A	ft²

Calculated Parameters for Plate

User Input: Stage and Total Area of Each Orifice Row (numbered from lowest to highest)

	Row 1 (required)	Row 2 (optional)	Row 3 (optional)	Row 4 (optional)	Row 5 (optional)	Row 6 (optional)	Row 7 (optional)	Row 8 (optional)
Stage of Orifice Centroid (ft)	0.00	0.87	1.75					
Orifice Area (sq. inches)	0.88	0.88	0.88					

	Row 9 (optional)	Row 10 (optional)	Row 11 (optional)	Row 12 (optional)	Row 13 (optional)	Row 14 (optional)	Row 15 (optional)	Row 16 (optional)
Stage of Orifice Centroid (ft)								
Orifice Area (sq. inches)								

User Input: Vertical Orifice (Circular or Rectangular)

	Not Selected	Not Selected			Not Selected	Not Selected
Invert of Vertical Orifice =	N/A	N/A	ft (relative to basin bottom at Stage = 0 ft)	Vertical Orifice Area =	N/A	N/A
Depth at top of Zone using Vertical Orifice =	N/A	N/A	ft (relative to basin bottom at Stage = 0 ft)	Vertical Orifice Centroid =	N/A	N/A
Vertical Orifice Diameter =	N/A	N/A	inches			

Calculated Parameters for Vertical Orif

User Input: Overflow Weir (Dropbox with Flat or Sloped Grate and Outlet Pipe OR Rectangular/Trapezoidal Weir and No Outlet Pipe)

	Zone 3 Weir	Not Selected			Zone 3 Weir	Not Selected
Overflow Weir Front Edge Height, Ho =	2.63	N/A	ft (relative to basin bottom at Stage = 0 ft)	Height of Grate Upper Edge, H_t =	2.63	N/A
Overflow Weir Front Edge Length =	8.00	N/A	feet	Overflow Weir Slope Length =	5.00	N/A
Overflow Weir Grate Slope =	0.00	N/A	H:V	Grate Open Area / 100-yr Orifice Area =	3.97	N/A
Horiz. Length of Weir Sides =	5.00	N/A	feet	Overflow Grate Open Area w/o Debris =	27.84	N/A
Overflow Grate Type =	Type C Grate	N/A		Overflow Grate Open Area w/ Debris =	13.92	N/A
Debris Clogging % =	50%	N/A	%			

Calculated Parameters for Overflow W

User Input: Outlet Pipe w/ Flow Restriction Plate (Circular Orifice, Restrictor Plate, or Rectangular Orifice)

	Zone 3 Restrictor	Not Selected			Zone 3 Restrictor	Not Selected
Depth to Invert of Outlet Pipe =	1.70	N/A	ft (distance below basin bottom at Stage = 0 ft)	Outlet Orifice Area =	7.01	N/A
Outlet Pipe Diameter =	36.00	N/A	inches	Outlet Orifice Centroid =	1.49	N/A
Restrictor Plate Height Above Pipe Invert =	35.00		inches	Half-Central Angle of Restrictor Plate on Pipe =	2.81	N/A

Calculated Parameters for Outlet Pipe w/ Flow Restriction Pla

User Input: Emergency Spillway (Rectangular or Trapezoidal)

Spillway Invert Stage=	6.00	ft (relative to basin bottom at Stage = 0 ft)	Spillway Design Flow Depth=	0.56	feet
Spillway Crest Length =	53.00	feet	Stage at Top of Freeboard =	7.56	feet
Spillway End Slopes =	4.00	H:V	Basin Area at Top of Freeboard =	1.23	acres
Freeboard above Max Water Surface =	1.00	feet	Basin Volume at Top of Freeboard =	5.01	acre-ft

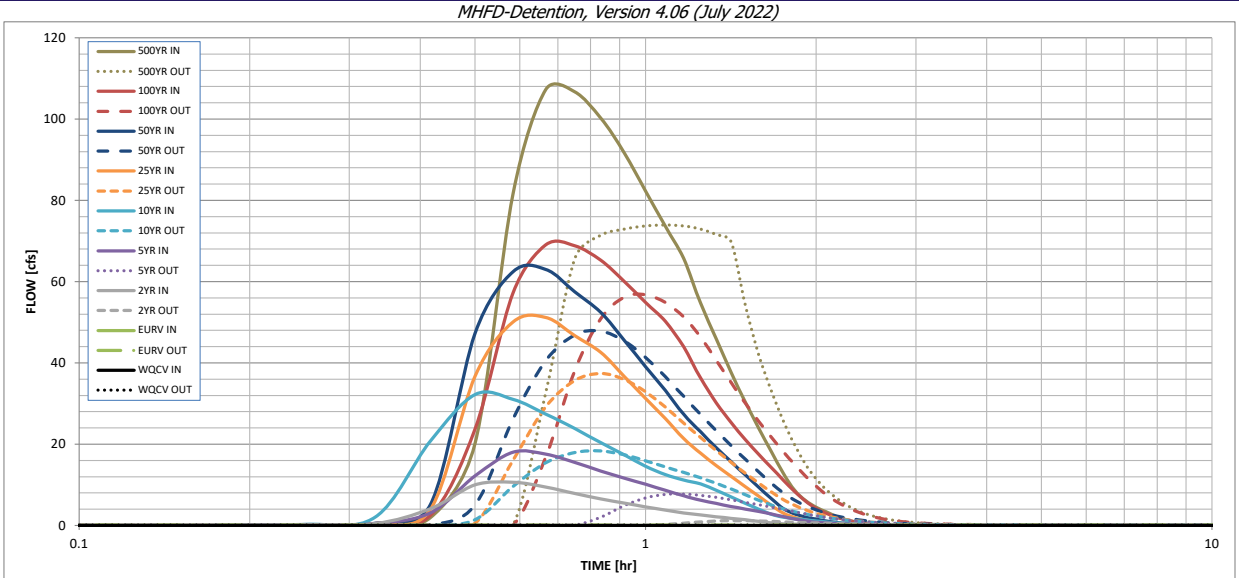
Calculated Parameters for Spillway

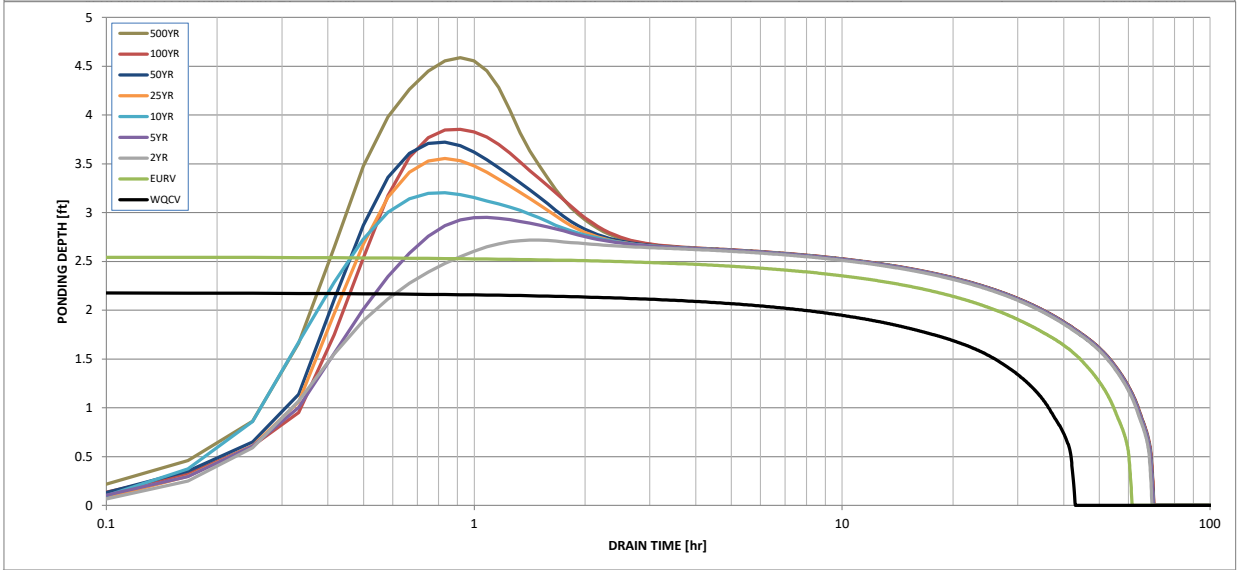
Routed Hydrograph Results — *The user can override the default CUHP hydrographs and runoff volumes by entering new values in the Inflow Hydrographs table (Columns W through AI*

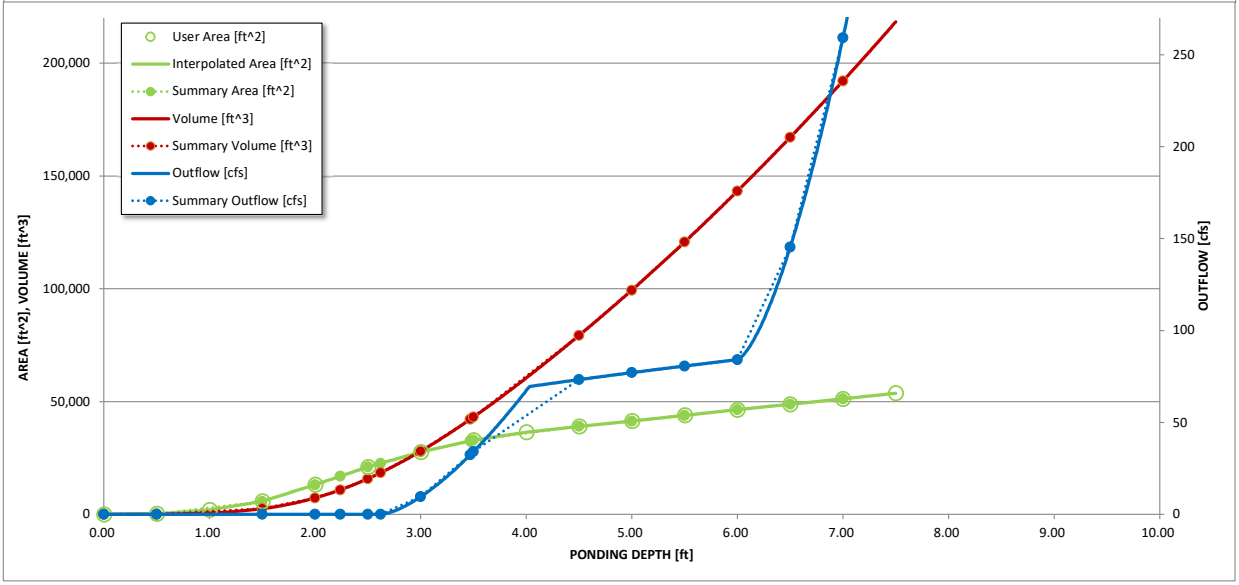
Design Storm Return Period =	WQCV	EURV	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year
One-Hour Rainfall Depth (in) =	N/A	N/A	1.19	1.50	1.75	2.00	2.25	2.52
CUHP Runoff Volume (acre-ft) =	0.227	0.385	0.534	1.166	1.796	2.914	3.678	4.777
User Override Inflow Hydrograph Volume (acre-ft) =	N/A	N/A	0.534	1.053	1.796	2.914	3.678	4.683
CUHP Predevelopment Peak Q (cfs) =	N/A	N/A	6.8	18.3	27.1	47.3	59.0	74.0
OPTIONAL Override Predevelopment Peak Q (cfs) =	N/A	N/A						64.0
Predevelopment Unit Peak Flow, q (cfs/acre) =	N/A	N/A	0.17	0.47	0.69	1.20	1.50	1.63
Peak Inflow Q (cfs) =	N/A	N/A	10.6	18.0	32.2	51.2	63.0	69.0
Peak Outflow Q (cfs) =	0.1	0.1	1.2	7.7	18.3	37.4	47.8	56.8
Ratio Peak Outflow to Predevelopment Q =	N/A	N/A	N/A	0.4	0.7	0.8	0.8	0.9
Structure Controlling Flow =	Plate	Plate	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1
Max Velocity through Grate 1 (fps) =	N/A	N/A	0.04	0.3	0.6	1.3	1.7	2.0
Max Velocity through Grate 2 (fps) =	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Time to Drain 97% of Inflow Volume (hours) =	39	56	63	59	54	48	44	39
Time to Drain 99% of Inflow Volume (hours) =	**42**	59	67	65	63	60	58	56
Maximum Ponding Depth (ft) =	2.18	2.55	2.72	2.95	3.20	3.55	3.72	3.85
Area at Maximum Ponding Depth (acres) =	0.37	0.50	0.55	0.62	0.68	0.76	0.79	0.81
Maximum Volume Stored (acre-ft) =	0.23	0.39	0.47	0.61	0.77	1.03	1.16	1.26
Elevation (ft) =	7532.18	7532.55						7533.85
Pond Bottom (ft) =	7530.00					SWMM volume	43,891	1.01
						SWMM release		61.9

DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.06 (July 2022)







DETENTION BASIN OUTLET STRUCTURE DESIGN

Outflow Hydrograph Workbook Filename:

Inflow Hydrographs

The user can override the calculated inflow hydrographs from this workbook with inflow hydrographs developed in a separate program.

	SOURCE	CUHP	CUHP	CUHP	USER	CUHP	CUHP	CUHP	USER	CUHP
Time Interval	TIME	WQCV [cfs]	EURV [cfs]	2 Year [cfs]	5 Year [cfs]	10 Year [cfs]	25 Year [cfs]	50 Year [cfs]	100 Year [cfs]	500 Year [cfs]
5.00 min	0:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0:05:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0:10:00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.02	0.05
	0:15:00	0.00	0.00	0.13	0.16	0.26	0.17	0.21	0.17	0.30
	0:20:00	0.00	0.00	0.46	0.44	2.03	0.45	0.52	0.42	1.91
	0:25:00	0.00	0.00	4.10	3.10	20.74	3.87	5.06	2.40	20.17
	0:30:00	0.00	0.00	9.96	12.19	32.18	36.67	47.27	23.71	81.63
	0:35:00	0.00	0.00	10.60	18.04	31.02	50.08	62.48	57.21	107.23
	0:40:00	0.00	0.00	9.44	17.52	27.38	51.18	63.00	69.03	106.70
	0:45:00	0.00	0.00	7.85	15.52	23.86	46.69	57.48	68.80	100.27
	0:50:00	0.00	0.00	6.54	13.42	20.36	42.59	52.46	65.25	91.74
	0:55:00	0.00	0.00	5.52	11.68	17.36	36.72	45.58	60.06	82.30
	1:00:00	0.00	0.00	4.58	10.12	14.59	31.23	39.08	54.88	73.61
	1:05:00	0.00	0.00	3.78	8.65	12.50	26.32	33.22	50.27	65.75
	1:10:00	0.00	0.00	3.09	7.28	11.19	21.43	27.38	44.01	54.71
	1:15:00	0.00	0.00	2.59	6.21	10.19	17.79	23.04	36.31	45.89
	1:20:00	0.00	0.00	2.16	5.39	8.66	14.73	19.11	30.18	37.59
	1:25:00	0.00	0.00	1.76	4.68	7.00	12.06	15.64	25.27	30.34
	1:30:00	0.00	0.00	1.38	4.04	5.46	9.55	12.42	21.11	24.01
	1:35:00	0.00	0.00	1.00	3.44	4.03	7.20	9.42	17.52	18.18
	1:40:00	0.00	0.00	0.65	2.82	2.77	4.98	6.59	14.24	12.87
	1:45:00	0.00	0.00	0.41	2.17	2.05	3.04	4.16	11.20	8.63
	1:50:00	0.00	0.00	0.32	1.56	1.68	1.99	2.85	8.38	6.12
	1:55:00	0.00	0.00	0.27	1.10	1.38	1.36	2.05	6.00	4.50
	2:00:00	0.00	0.00	0.23	0.81	1.11	0.97	1.55	4.20	3.35
	2:05:00	0.00	0.00	0.18	0.63	0.86	0.65	1.08	2.99	2.30
	2:10:00	0.00	0.00	0.13	0.49	0.64	0.44	0.75	2.10	1.50
	2:15:00	0.00	0.00	0.10	0.38	0.46	0.29	0.51	1.45	0.93
	2:20:00	0.00	0.00	0.07	0.29	0.33	0.19	0.34	0.96	0.58
	2:25:00	0.00	0.00	0.06	0.22	0.22	0.14	0.24	0.61	0.41
	2:30:00	0.00	0.00	0.04	0.16	0.15	0.10	0.17	0.37	0.29
	2:35:00	0.00	0.00	0.03	0.12	0.11	0.07	0.12	0.25	0.22
	2:40:00	0.00	0.00	0.02	0.09	0.08	0.05	0.09	0.18	0.16
	2:45:00	0.00	0.00	0.02	0.07	0.06	0.04	0.07	0.13	0.12
	2:50:00	0.00	0.00	0.01	0.05	0.04	0.03	0.05	0.10	0.09
	2:55:00	0.00	0.00	0.01	0.04	0.02	0.02	0.03	0.07	0.06
	3:00:00	0.00	0.00	0.00	0.02	0.01	0.01	0.02	0.05	0.03
	3:05:00	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.04	0.02
	3:10:00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.02	0.01
	3:15:00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.02	0.00
	3:20:00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00
	3:25:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
	3:30:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:35:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:40:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:45:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:50:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:55:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:05:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:15:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:25:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:30:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:35:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:40:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:45:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:50:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:55:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:05:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:15:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:25:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:30:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:35:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:40:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:45:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:50:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:55:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00