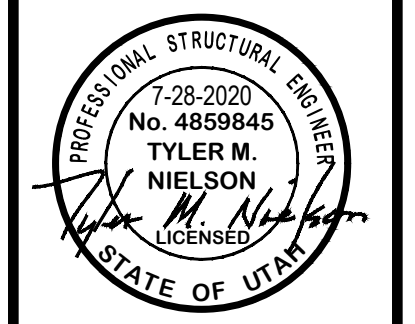


DEVELOPER:
 B & H INVESTMENT
 CURTIS HYDE
 110 W. JENNINGS LANE
 CENTERVILLE, UT 84014
 801-540-8505

SCALE	1" = 100'
DATE	7-28-2020
DESIGN	TWINNIS
DRAWN	W.S
CHECKED	TIN
DWG.	8/1/2020 - B&H INVESTMENT/MONASTERY COVE/ARROWHEAD MEADOW - PH. 1/00



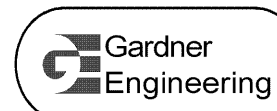
PLAN AND PROFILE KEY PLAN
 ARROWHEAD MEADOW - PHASE 1
 2075 SOUTH (ARTIST WAY)
 HUNTSVILLE CITY, WEBER COUNTY, UTAH

GARDNER ENGINEERING
 CIVIL - LAND PLANNING
 MUNICIPAL - LAND SURVEYING
 5150 SOUTH 375 EAST OGDEN, UT
 OFFICE: 801.476.0202 FAX: 801.476.0066

CE2-00

R:\2020 - B&H Investment\Monastery Cove\DESIGN\DWG\Arrowhead Meadow - Ph. 1.dwg, CEE:00 - PLAN AND PROFILE KEY PLAN, 7/28/2020 4:18:51 PM, ARCH: Full (Revised) 0.00, 0.00, 0.00, 1.1

**Arrowhead Meadow Phase 1
2075 South (Artist Way)
Huntsville, Weber County, Utah**



Lot 101	Sq. Ft.	Acres	C
Asphalt Surface	0	0.0000	0.85
Gravel Areas	6,811	0.1564	0.50
Building & Concrete	6,500	0.1492	0.85

Allow Release Rate (cfs/acre) cfs/acre
Q Allowable (cfs)

0.00 cfs

Total Allowed Release cfs

Effective Release Rate per Acre 0.00 cfs/Acre

Total/Weighted

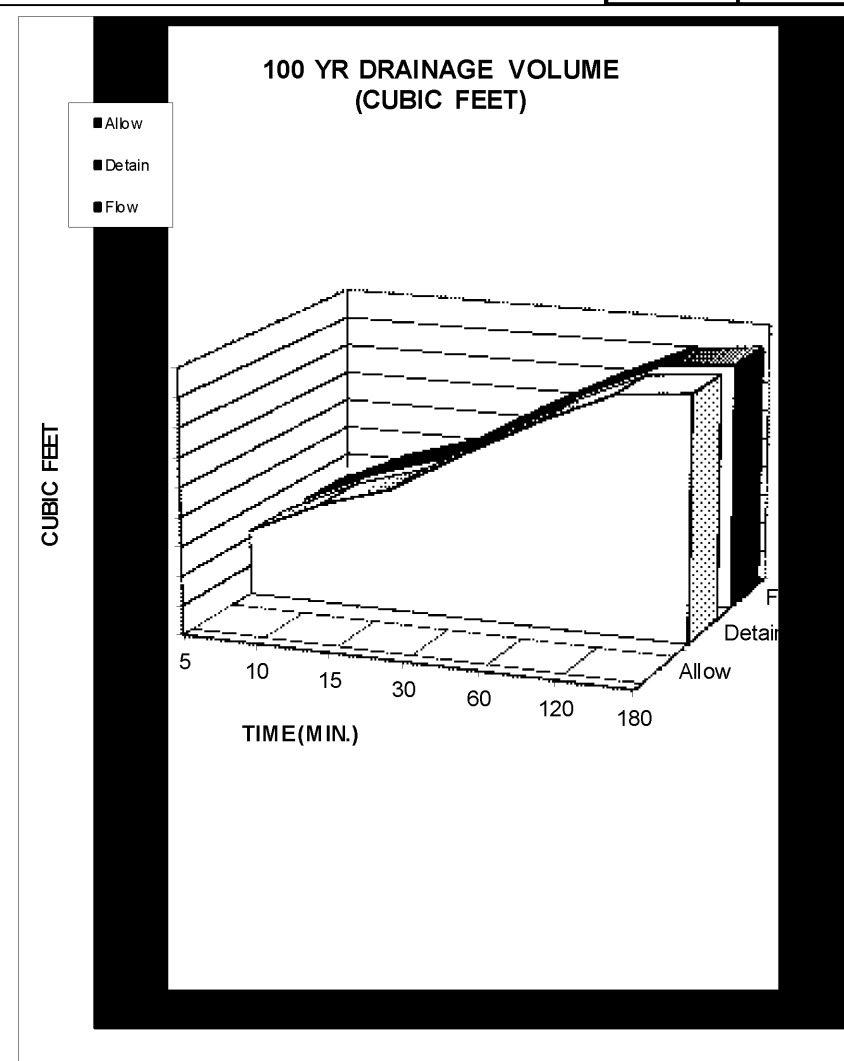
100 YEAR STORM RECOMMENDED MIN. VOLUME RETAINED CF CY

MIN	Runoff Vol (cf)	Inch / Hr	Total Vol (cf)	Retain Vol (cf)
	Allowable	1100	100 YEAR	100 YEAR Difference
5	0	7.22	444	444
10	0	5.5	677	677
15	0	4.54	838	838
30	0	3.06	1,129	1,129
60	0	1.89	1,395	1,395
120	0	1.1	1,624	1,624
180	0	0.757	1,676	1,676
360	0	0.425	1,882	1,882
720	0	0.264	2,338	2,338
1440	0	0.152	2,692	2,692

NOAA - Atlas 14

Orifice Calculation

H = Maximum water height (ft)
Q = Flowrate out of orifice (cfs)
Cc = Coefficient of Contraction
Cv = Coefficient of Velocity
Area = Orifice Area (ft²)
Π =
g = Gravitational Constant
d = Orifice Diameter (in)
d = Orifice



**Arrowhead Meadow Subdivision Phase 1
2075 South (Artist Way)
Huntsville, Weber County, Utah**



Lot 102	Sq. Ft.	Acres	C
Asphalt Surface	1,512	0.0347	0.85
Gravel Areas	2,136	0.0490	0.50
Building & Concrete	6,500	0.1492	0.85

Allow Release Rate (cfs/acre) cfs/acre
Q Allowable (cfs)

0.00 cfs

Total Allowed Release cfs

Effective Release Rate per Acre 0.00 cfs/Acre

(Areas includes entire temporary cul-de-sac)

Total/Weighted

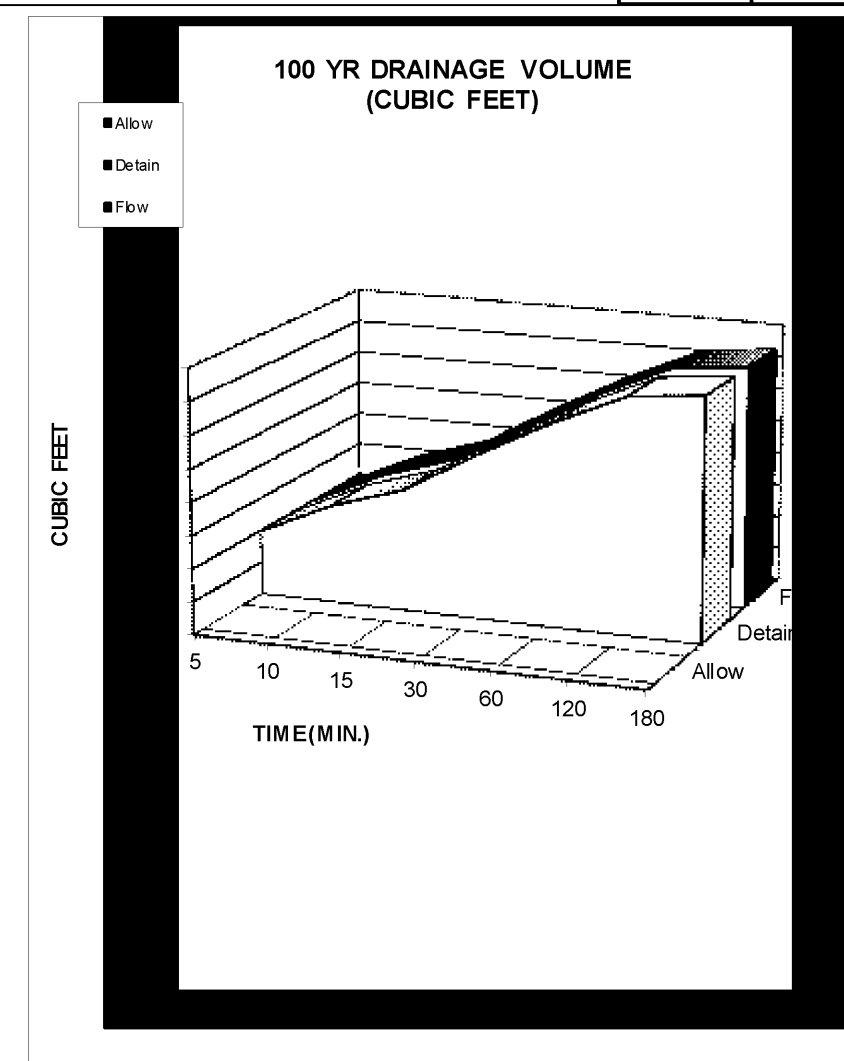
100 YEAR STORM RECOMMENDED MIN. VOLUME RETAINED CF CY

MIN	Runoff Vol (cf)	Inch / Hr	Total Vol (cf)	Retain Vol (cf)
	Allowable	1100	100 YEAR	100 YEAR Difference
5	0	7.22	392	392
10	0	5.5	597	597
15	0	4.54	739	739
30	0	3.06	996	996
60	0	1.89	1,230	1,230
120	0	1.1	1,432	1,432
180	0	0.757	1,478	1,478
360	0	0.425	1,660	1,660
720	0	0.264	2,062	2,062
1440	0	0.152	2,375	2,375

NOAA - Atlas 14

Orifice Calculation

H = Maximum water height (ft)
Q = Flowrate out of orifice (cfs)
Cc = Coefficient of Contraction
Cv = Coefficient of Velocity
Area = Orifice Area (ft²)
Π =
g = Gravitational Constant
d = Orifice Diameter (in)
d = Orifice



**Arrowhead Meadow Subdivision Phase 1
2075 South (Artist Way)
Huntsville, Weber County, Utah**



Remainder Parcel	Sq. Ft.	Acres	C
Asphalt Surface	1,512	0.0347	0.85
Gravel Areas	2,136	0.0490	0.50
Building & Concrete	0	0.0000	0.85

Allow Release Rate (cfs/acre) cfs/acre
Q Allowable (cfs)

0.00 cfs

Total Allowed Release cfs

Effective Release Rate per Acre 0.00 cfs/Acre

(Areas includes entire temporary cul-de-sac)

Total/Weighted

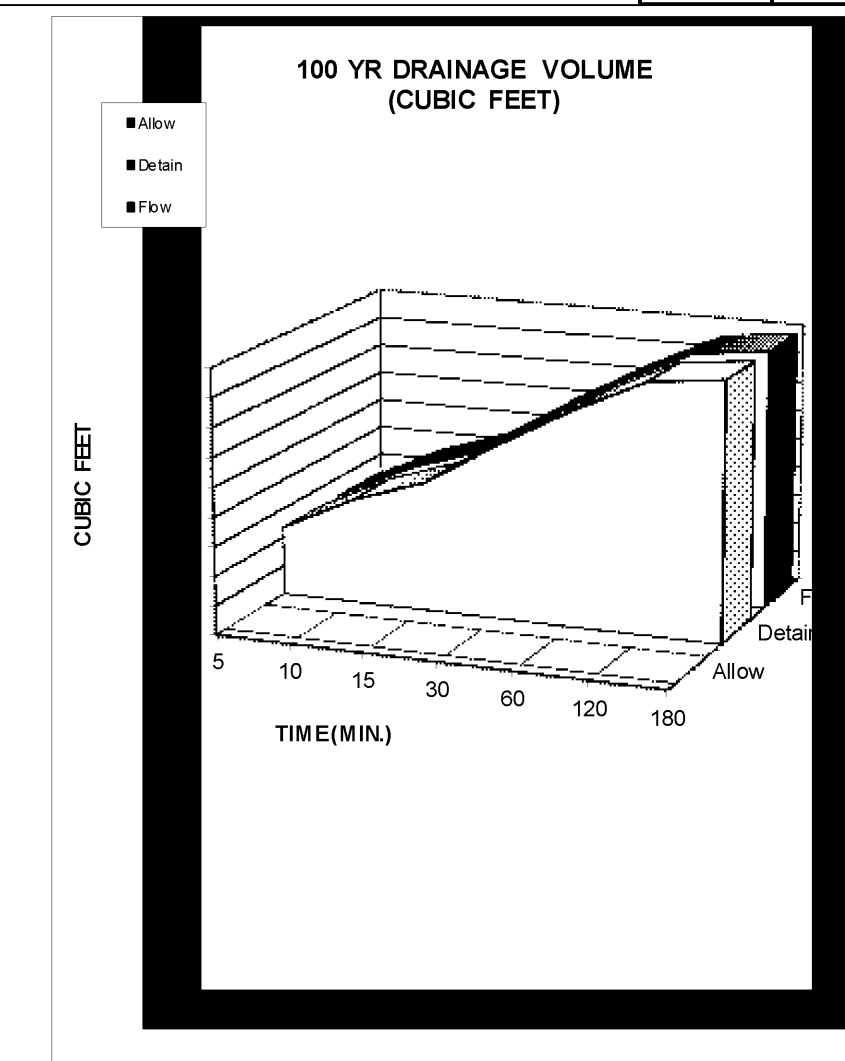
100 YEAR STORM RECOMMENDED MIN. VOLUME RETAINED CF CY

MIN	Runoff Vol (cf)	Inch / Hr	Total Vol (cf)	Retain Vol (cf)
	Allowable	1100	100 YEAR	100 YEAR Difference
5	0	7.22	117	117
10	0	5.5	178	178
15	0	4.54	221	221
30	0	3.06	297	297
60	0	1.89	367	367
120	0	1.1	428	428
180	0	0.757	442	442
360	0	0.425	496	496
720	0	0.264	616	616
1440	0	0.152	709	709

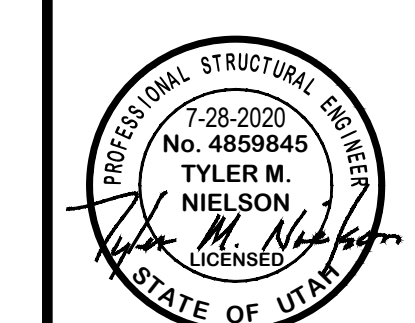
NOAA - Atlas 14

Orifice Calculation

H = Maximum water height (ft)
Q = Flowrate out of orifice (cfs)
Cc = Coefficient of Contraction
Cv = Coefficient of Velocity
Area = Orifice Area (ft²)
Π =
g = Gravitational Constant
d = Orifice Diameter (in)
d = Orifice



REVISIONS	DATE	DESCRIPTION



RETENTION CALCS
ARROWHEAD MEADOW - PHASE 1
2075 SOUTH (ARTIST WAY)
HUNTSVILLE CITY, WEBER COUNTY, UTAH



CE3-01