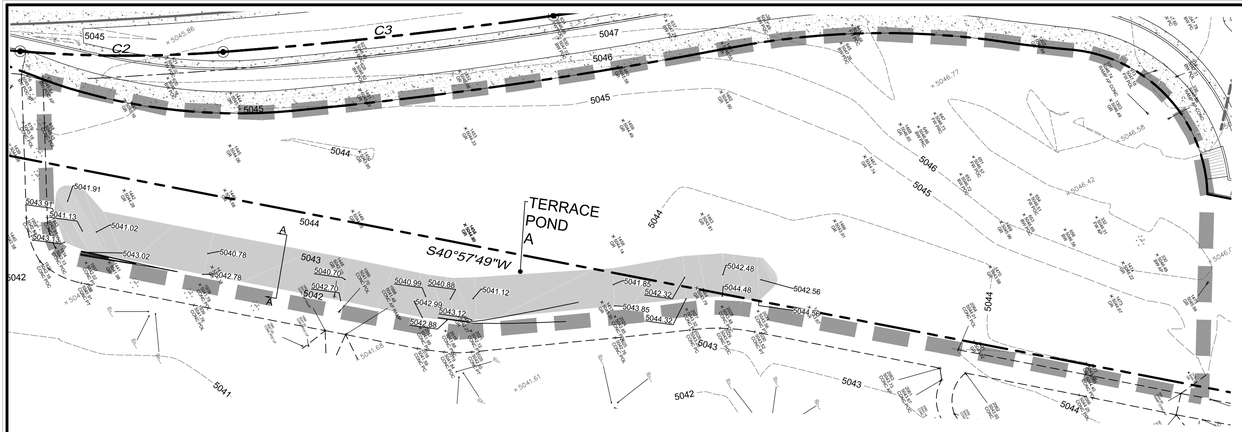
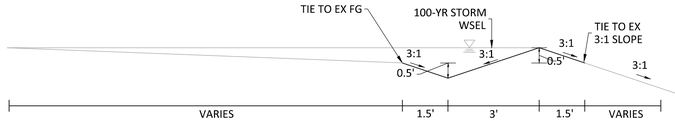


LEGEND

LIMITS OF PONDED AREA IN 100-YR STORM



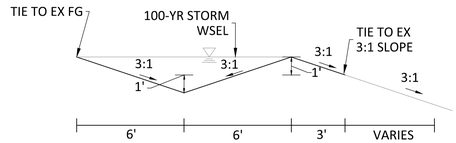
SECTION B-B: TEMPORARY RETENTION TERRACE
NTS

Terrace Pond A

Retention Area (A)	=	12	sq. ft.
Terrace Length (L)	=	205	ft.
Retention Volume (V)	=	2460	cu. Ft.

Terrace Pond B

Avg. Retention Area (A)	=	17.5	sq. ft.
Terrace Length (L)	=	230	ft.
Retention Volume (V)	=	4025	cu. Ft.



SECTION A-A: TEMPORARY RETENTION TERRACE
NTS

Onsite Basin 1 Existing Conditions:

Area = 0.514 ac

Treatment Type Areas

A_A = 0.00 ac A_B = 0.00 ac A_C = 0.51 ac A_D = 0.00 ac

Excess Precipitation (e) for a 100-year, 6-hour storm event based on Table A-8

E_A = 0.44 in E_B = 0.67 in E_C = 0.99 in E_D = 1.97 in

Weighted Excess Precipitation (E) calculation using equation a-5

$E = (E_A*A_A+E_B*A_B+E_C*A_C+E_D*A_D)/(A_A+A_B+A_C+A_D)$

E = 0.99 in

Precipitation Depth (P) for 100-year, 24-hour storm event based on Table A-2

P(24-hr) = 2.66 in

P for 100-year, 6-hour storm event based on Table A-2

P(6-hr) = 2.20 in

Runoff Volume for 100-year, 6-hour calculation using equation a-6

V = Weighted E*(AA+AB+AC+AD)

V(6-hr) = 0.042 ac-ft = 1847.1618 cu ft

Runoff Volume for 100-year, 24-hour calculation using equation a-7

V = V(6-hr)+AD*(P(24-hr)-P(6-hr))

V(24-hr) = 0.042 ac-ft = 1847.1618 cu ft

Onsite Basin 2 Existing Conditions:

Area = 1.079 ac

Treatment Type Percentages

A_A = 0.00 ac A_B = 0.00 ac A_C = 1.079 ac A_D = 0.00 ac

Excess Precipitation (e) for a 100-year, 6-hour storm event based on Table A-8

E_A = 0.44 in E_B = 0.67 in E_C = 0.99 in E_D = 1.97 in

Weighted Excess Precipitation (E) calculation using equation a-5

$E = (E_A*A_A+E_B*A_B+E_C*A_C+E_D*A_D)/(A_A+A_B+A_C+A_D)$

E = 0.99 in

Precipitation Depth (P) for 100-year, 24-hour storm event based on Table A-2

P(24-hr) = 2.66 in

P for 100-year, 6-hour storm event based on Table A-2

P(6-hr) = 2.20 in

Runoff Volume for 100-year, 6-hour calculation using equation a-6

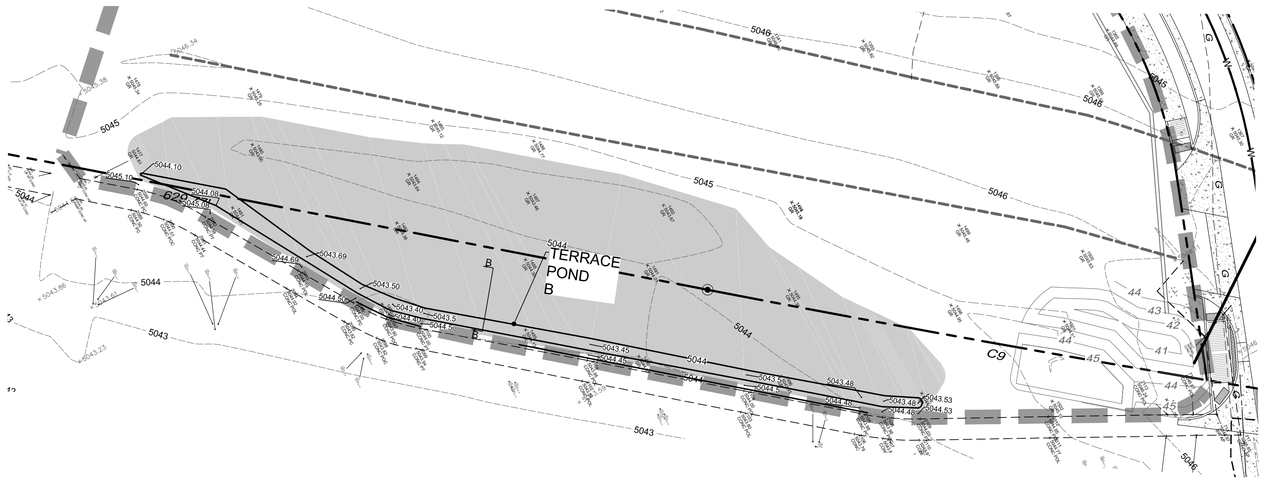
V = Weighted E*(AA+AB+AC+AD)

V(6-hr) = 0.089 ac-ft = 3877.6023 cu ft

Runoff Volume for 100-year, 24-hour calculation using equation a-7

V = V(6-hr)+AD*(P(24-hr)-P(6-hr))

V(24-hr) = 0.089 ac-ft = 3877.6023 cu ft



RESPEC
WATER & NATURAL RESOURCES
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REVISION

DESIGNED	HWF		
DRAWN	BJM		
CHECKED	HWF		
DATE	03/26/2018		

STAMP

HUGH W. FLOYD
NEW MEXICO
16633
LICENSED PROFESSIONAL ENGINEER
9-1-18

TRACT B,
LANDS OF BLACK DEVELOPMENT ONE
9820 COORS BLVD NW

INTERIM GRADING AND DRAINAGE PLAN

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

SHEET NUMBER:

1 OF 1