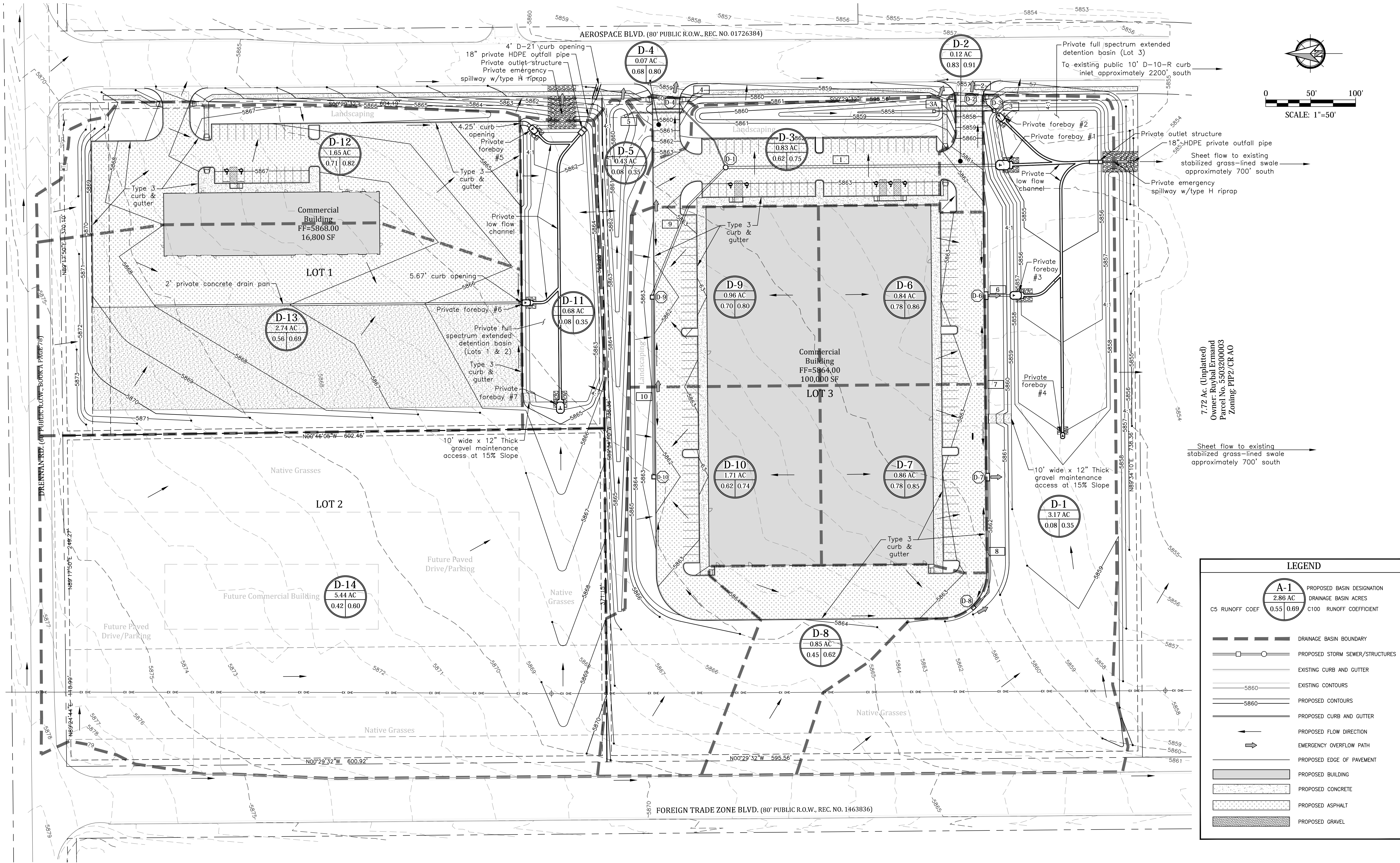


Drennan Subdivision Filing No. 1
 Developed Drainage Plan
 Colorado Springs, Colorado



LEGEND

A-1
 2.86 AC
 C5 RUNOFF COEF 0.55 0.69 C100 RUNOFF COEFFICIENT

- DRAINAGE BASIN BOUNDARY
- PROPOSED STORM SEWER/STRUCTURES
- EXISTING CURB AND GUTTER
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED CURB AND GUTTER
- PROPOSED FLOW DIRECTION
- EMERGENCY OVERFLOW PATH
- PROPOSED EDGE OF PAVEMENT
- PROPOSED BUILDING
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED GRAVEL

HYDRAULIC STRUCTURES			
STRUCTURE ID	DESCRIPTION	STRUCTURE ID	DESCRIPTION
D-1	5" Dia. Private Type II Manhole	D-6	8" Private D-10-R Inlet
D-2	12" Private Trench Drain	D-7	8" Private D-10-R Inlet
D-3	4" Dia. Type II Manhole	D-8	4" Private D-10-R Inlet
D-4	12" Private Trench Drain	D-9	4" Private D-10-R Inlet
		D-10	4" Private D-10-R Inlet

STORM SEWERS			
STORM SEWER ID	DESCRIPTION	STORM SEWER ID	DESCRIPTION
1	30" Private HDPE @ 0.50%	6	24" Private HDPE @ 0.68%
2	10" Private PVC @ 1.00%	7	24" Private HDPE @ 0.50%
3	18" Private HDPE @ 0.50%	8	15" Private HDPE @ 0.50%
3A	12" Private PVC @ 2.15%	9	24" Private HDPE @ 0.50%
4	10" Private PVC @ 1.00%	10	18" Private HDPE @ 0.50%
5	12" Private PVC @ 0.69%		

BASIN RUNOFF CALCULATIONS							
BASIN	AREA	Q ₅	Q ₁₀₀	BASIN	AREA	Q ₅	Q ₁₀₀
D-1	3.17 Acres	0.9 cfs	6.6 cfs	D-8	0.85 Acres	1.5 cfs	3.5 cfs
D-2	0.12 Acres	0.5 cfs	1.0 cfs	D-9	0.96 Acres	3.5 cfs	6.6 cfs
D-3	0.83 Acres	2.3 cfs	4.6 cfs	D-10	1.71 Acres	4.8 cfs	9.6 cfs
D-4	0.07 Acres	0.3 cfs	0.5 cfs	D-11	0.68 Acres	0.2 cfs	1.6 cfs
D-5	0.43 Acres	0.1 cfs	0.9 cfs	D-12	1.65 Acres	4.3 cfs	8.4 cfs
D-6	0.84 Acres	3.4 cfs	6.2 cfs	D-13	2.74 Acres	5.9 cfs	12.2 cfs
D-7	0.86 Acres	3.4 cfs	6.3 cfs	D-14	5.44 Acres	8.1 cfs	19.4 cfs

PRIVATE FULL SPECTRUM EXTENDED DETENTION BASIN VOLUMES			
EDB ID	DESCRIPTION	REQUIRED VOLUME	PROVIDED VOLUME
Lots 1 & 2	WQCV	0.161 Acre-Feet	0.178 Acre-Feet
Lots 1 & 2	EURV	0.319 Acre-Feet	0.486 Acre-Feet
Lots 1 & 2	100-Year	0.323 Acre-Feet	0.810 Acre-Feet
Lot 3	WQCV	0.161 Acre-Feet	0.161 Acre-Feet
Lot 3	EURV	0.352 Acre-Feet	0.538 Acre-Feet
Lot 3	100-Year	0.834 Acre-Feet	0.884 Acre-Feet

Project No.: 18015
 Date: September 2019
 Design: NRK
 Drawn: CAD
 Check: RNW
 Revisions:

Figure 3