



January 24, 2025

Town of Castle Rock  
Development Services Department  
Town Hall, 100 N Wilcox St., Castle Rock, CO 80104

RE: The Rock Church SDP Amendment Drainage Conformance Letter SDP240015

To Whom It May Concern,

Currently The Rock Church, located at 4881 Cherokee Dr, Castle Rock CO, is requesting an SDP amendment in order to include one proposed classroom building with the site plan. This Drainage Conformance letter has been prepared to prove that this proposed change conforms to the approved 2005 Phase III Drainage Study prepared by Johnston Engineering Associates.

The proposed classroom building is located primarily over the existing asphalt surface located just west of the existing church building. Since the building is partially over the existing asphalt surface, only 0.027 acres of additional impervious area is added to the drainage Basin B1 (see attached Drainage Map). The original 2005 study anticipated 0.218 acres of future roof area within Basin B1, and Detention Pond B and its associated drainage infrastructure was designed for this future roof area. This additional future roof area has not been constructed. The proposed 0.027 acres of roof area for the new classroom buildings falls well within the allocated future roof area, resulting in no increase to the imperviousness of Basin B1. The existing Detention Pond B will therefore have adequate capacity and will not require any modifications. Please see that attached drainage map and impervious calculations.

The analysis concludes that the proposed development does not exceed the drainage parameters established in the approved study and is therefore consistent with the Town of Castle Rock's drainage requirements.

Should you require further information or documentation, please feel free to contact me.

regards,

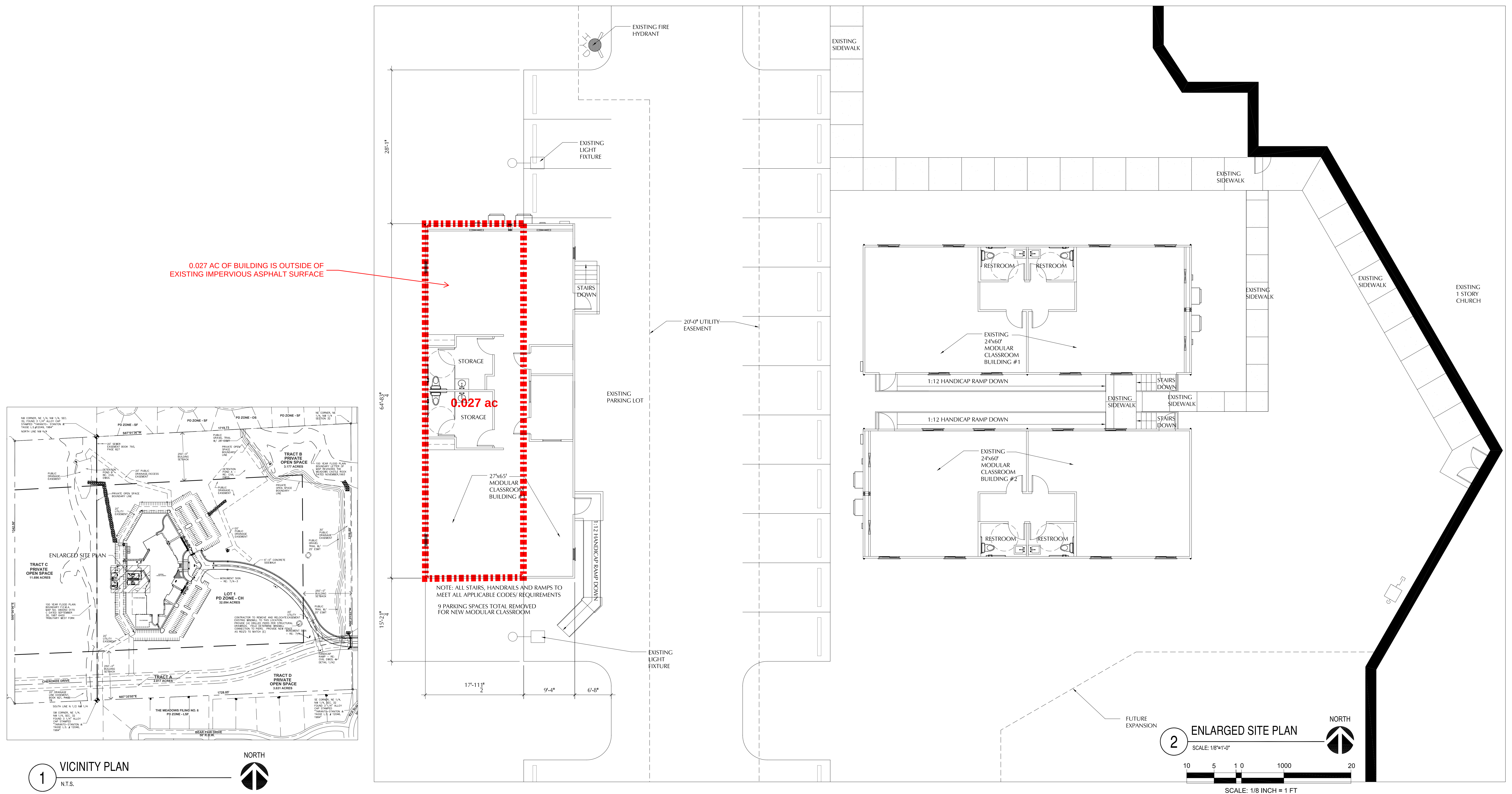
**Craft Civil Design**

A handwritten signature in black ink, appearing to read "Daniel Allen".

Dan Allen, PE  
Principal  
319.899.2345  
dallen@craftcivil.com



CHURCH OF THE ROCK, FILING NO.1, LOT 1  
SITE DEVELOPMENT PLAN AMENDMENT NO.3  
A PART OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 32,  
TOWNSHIP 7 SOUTH, RANGE 67 WEST OF THE SIXTH PRINCIPAL MERIDIAN  
TOWN OF CASTLE ROCK, COUNTY OF DOUGLAS, STATE OF COLORADO



**Church of the Rock**  
Composite Runoff Coefficients  
04/29/05

JOHNSTON ENGINEERING ASSOCIATES  
JN: 2027.02

|                                         | C2   | C5   | C10  | C100 | I     |
|-----------------------------------------|------|------|------|------|-------|
| DRIVE/WALK                              | 0.73 | 0.75 | 0.77 | 0.83 | 90.00 |
| ROOFS                                   | 0.73 | 0.75 | 0.77 | 0.83 | 90.00 |
| SINGLE-FAMILY                           | 0.25 | 0.33 | 0.40 | 0.57 | 35.00 |
| OPEN                                    | 0.04 | 0.15 | 0.25 | 0.50 | 2.00  |
| (Predominate Soil Group is NRCS Type C) |      |      |      |      |       |

| On-Site | OVERALL<br>AREA (AC) | DRIVE/WALK<br>AREA (AC) | ROOFS<br>AREA (AC) | SINGLE-FAMILY<br>AREA (AC) | OPEN<br>AREA (AC) | C2   | C5   | C10  | C100 | %I    |
|---------|----------------------|-------------------------|--------------------|----------------------------|-------------------|------|------|------|------|-------|
| BASIN   |                      |                         |                    |                            |                   |      |      |      |      |       |
| A1      | 1.826                | 0.886                   | 0.353              | 0.000                      | 0.587             | 0.51 | 0.56 | 0.60 | 0.72 | 61.70 |
| A2      | 6.440                | 0.000                   | 0.000              | 0.000                      | 6.440             | 0.04 | 0.15 | 0.25 | 0.50 | 2.00  |
| A3      | 0.568                | 0.355                   | 0.000              | 0.000                      | 0.213             | 0.47 | 0.52 | 0.57 | 0.71 | 56.97 |
| A4      | 0.578                | 0.462                   | 0.000              | 0.000                      | 0.116             | 0.59 | 0.63 | 0.67 | 0.76 | 72.38 |
| A5      | 2.177                | 1.390                   | 0.341              | 0.000                      | 0.446             | 0.59 | 0.63 | 0.66 | 0.76 | 71.98 |
| A6      | 6.026                | 0.055                   | 0.000              | 0.000                      | 5.971             | 0.05 | 0.16 | 0.25 | 0.50 | 2.81  |
| B1      | 3.022                | 0.982                   | 0.883              | 0.000                      | 1.157             | 0.47 | 0.52 | 0.57 | 0.70 | 56.31 |
| B2      | 0.498                | 0.255                   | 0.110              | 0.000                      | 0.134             | 0.54 | 0.59 | 0.63 | 0.74 | 66.34 |
| B3      | 2.816                | 0.000                   | 0.000              | 0.000                      | 2.816             | 0.04 | 0.15 | 0.25 | 0.50 | 2.00  |
| C1      | 1.624                | 0.063                   | 0.000              | 0.000                      | 1.562             | 0.07 | 0.17 | 0.27 | 0.51 | 5.40  |
| C2      | 0.082                | 0.071                   | 0.000              | 0.000                      | 0.011             | 0.64 | 0.67 | 0.70 | 0.79 | 78.30 |
| C3      | 0.844                | 0.000                   | 0.000              | 0.000                      | 0.844             | 0.04 | 0.15 | 0.25 | 0.50 | 2.00  |
| C4      | 2.989                | 0.090                   | 0.000              | 0.000                      | 2.898             | 0.06 | 0.17 | 0.27 | 0.51 | 4.66  |
| C5      | 3.472                | 0.127                   | 0.000              | 0.000                      | 3.346             | 0.07 | 0.17 | 0.27 | 0.51 | 5.21  |
| D       | 3.006                | 0.000                   | 0.000              | 0.000                      | 3.006             | 0.04 | 0.15 | 0.25 | 0.50 | 2.00  |
| E       | 17.445               | 0.000                   | 0.000              | 0.000                      | 17.445            | 0.04 | 0.15 | 0.25 | 0.50 | 2.00  |
| TOTAL   | 53.415               | 4.737                   | 1.686              | 0.000                      | 46.992            |      |      |      |      | 12.58 |
| %       | 100.00               | 8.87                    | 3.16               | 0.00                       | 87.98             |      |      |      |      |       |
| Offsite |                      |                         |                    |                            |                   |      |      |      |      |       |
| OS1     | 1.075                | 0.000                   | 0.000              | 1.075                      | 0.000             | 0.25 | 0.33 | 0.40 | 0.57 | 35.00 |
| OS2     | 0.866                | 0.000                   | 0.000              | 0.866                      | 0.000             | 0.25 | 0.33 | 0.40 | 0.57 | 35.00 |
| OS3     | 1.041                | 0.110                   | 0.000              | 0.931                      | 0.000             | 0.30 | 0.37 | 0.44 | 0.60 | 40.82 |
| OS4     | 0.128                | 0.105                   | 0.000              | 0.023                      | 0.000             | 0.65 | 0.68 | 0.70 | 0.78 | 80.30 |
| OS5     | 1.568                | 0.000                   | 0.000              | 1.568                      | 0.000             | 0.25 | 0.33 | 0.40 | 0.57 | 35.00 |
| OS6     | 1.583                | 0.000                   | 0.000              | 1.583                      | 0.000             | 0.25 | 0.33 | 0.40 | 0.57 | 35.00 |

