



Site plan showing stormwater management features for a commercial and residential development. The plan includes an existing parking garage, commercial buildings, and residential buildings with a pool and jacuzzi. Stormwater management features include four BMPs (BMP 1, BMP 3, BMP 3, BMP 4), four underground rain tanks (Rain Tank #1, #2, #3, #4), and various pipe sizes and slopes (e.g., 8" PVC SD @ 0.50%, 24" x 24" D.I.). The plan also shows existing streets (Third Street, Depot Street, Fourth Street) and existing stormwater drains (EX. D.I.).

| PERVIOUS AND IMPERVIOUS SURFACES COMPARISON |                            |       |                            |       |                    |        |
|---------------------------------------------|----------------------------|-------|----------------------------|-------|--------------------|--------|
|                                             | Existing Condition (sq ft) | %     | Proposed Condition (sq ft) | %     | Difference (sq ft) | %      |
| Site (acres):                               | Site (sq ft):              |       |                            |       |                    |        |
| 1.646                                       | 71,702                     | 100   | 71,702                     | 100   | 0                  | 0      |
| Building Footprints)                        | 16,605                     | 21.76 | 56,750                     | 79.15 | 41,145             | 57.39  |
| Parking                                     | Included                   |       | Included                   |       |                    |        |
| Stewwaks, P-falos, P-falins, etc.           | 31,573                     | 44.04 | 6,748                      | 9.41  | -24,825            | -34.63 |
| Landscaping                                 | 24,524                     | 34.20 | 8,204                      | 11.44 | -16,320            | -22.76 |
| Total                                       | 71,702                     | 100   | 71,702                     | 100   | 0                  | 0      |
| Impervious Surfaces                         | 47,176                     | 66.80 | 63,498                     | 88.56 | 16,320             | 22.76  |
| Pervious Surfaces                           | 24,524                     | 34.20 | 8,204                      | 11.44 | -16,320            | -22.76 |
| Total                                       | 71,702                     | 100   | 71,702                     | 100   | 0                  | 0      |

### "Sunsweet" LID - BMP Sizing Calcs

| Proposed BMP No. | BMP Impervious Area     |                          | 95th Percentile (1.6" Rain) First Flush Volume to Treat (Cu. Ft.) | Proposed BMP Volume (Cu. Ft.) | Native Soil Infiltration Rate (In./Hr.) | BMP Loading Depth (Inches) | BMP Infiltration Duration (Hrs.) $\leq 72$ |
|------------------|-------------------------|--------------------------|-------------------------------------------------------------------|-------------------------------|-----------------------------------------|----------------------------|--------------------------------------------|
|                  | Public Hardscape (S.F.) | Private Hardscape (S.F.) |                                                                   |                               |                                         |                            |                                            |
| 1, 2 & 3         | 0                       | 63,498                   | 8,466                                                             | 9,086                         | 0.2                                     | 54                         | 270                                        |

12/18/2016

**BMP 1**

SITE HOUSEKEEPING - APPLIES TO ENTIRE SITE

**BMP 2** ALL ON-SITE DRAIN INLETS W/12" SUMPS

## BMP 3

**BMP 4** BIO-SWALES IN PLANTER STRIP ALONG FOURTH STREET

SCALE : 1" = 20'

