

November 14, 2023

Subject: Salem Apartments Land Use Stormwater Management Memo

This memo serves as the documentation for the stormwater report required as part of land use submittal requirements for the Salem Apartments new development located at 891 23rd St NE Salem, OR.

Per the City of Salem Department of Public Works Administrative Rules Chapter 109 Division 004 Section 4.2(a)(3) this project qualifies as a "large project" (greater than 10,000 sf of new or replaced impervious surface).

Per the City of Salem Stormwater Design Handbook for Developers and Large Projects Section 5, to meet the Green Stormwater Infrastructure (GSI) to the Maximum Extent Feasible (MFE), the site has been delineated into (5) stormwater drainage basins. These basins can be found in the attached catchment map. Each GSI facility (in this case, stormwater planters) has been preliminarily sized to be at least 10% of the contributing area of the combined new plus impervious surface area for the associated drainage basin. The stormwater planters will send overflow from large storm events to the existing stormwater-only sewer mains located in 23rd St NE and Center Street NE.

Sincerely,

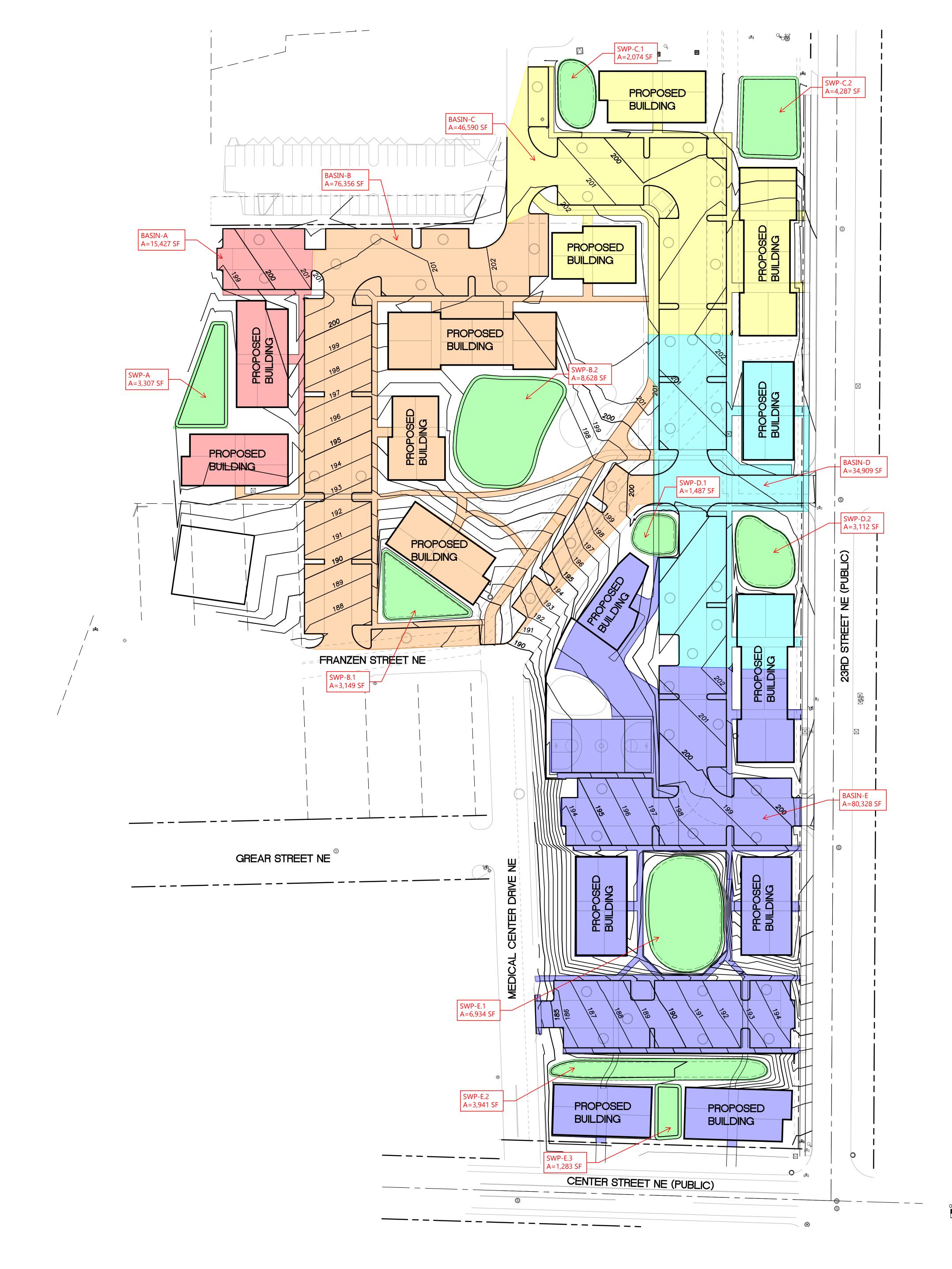
Humber Design Group, Inc.

Greston Muls

Kristian McCombs, PE

Attachments:

Catchment Map



SALEM APARTMENTS LAND USE CATCHMENT MAP

BASIN-A AREA = 15,427 SF

BASIN-A STORMWATER PLANTERS

SWP-A AREA = 3,307 SF

TOTAL AREA = 3,307 SF

IMPERVIOUS AREA TO PLANTER AREA RATIO = 3,307 / 15,427 = 21%

BASIN-B AREA = 76,356 SF

BASIN-B STORMWATER PLANTERS

SWP-B.1 AREA = 3,149 SF

SWP-B.2 AREA = 8,628 SF

TOTAL AREA = 11,777 SF

IMPERVIOUS AREA TO PLANTER AREA RATIO = 11,777 / 76,356 = **15%**

BASIN-C AREA = 46,590 SF

BASIN-C STORMWATER PLANTERS

SWP-C.1 AREA = 2,074 SF

SWP-C.2 AREA = 4,287 SF

TOTAL AREA = 6,361 SF

IMPERVIOUS AREA TO PLANTER AREA RATIO = 6,361 / 46,590 = **14%**

BASIN-D AREA = 34,909 SF

BASIN-D STORMWATER PLANTERS

SWP-D.1 AREA = 1,487 SF

SWP-D.2 AREA = 3,112 SF

TOTAL AREA = 4,599 SF

IMPERVIOUS AREA TO PLANTER AREA RATIO = 4,599 / 34,909 = 13%

BASIN-E AREA = 80,328 SF

BASIN-E STORMWATER PLANTERS

SWP-E.1 AREA = 6,934 SF

SWP-E.2 AREA = 3,941 SF

SWP-E.3 AREA = 1,283 SF

TOTAL AREA = 1,283 SF

IMPERVIOUS AREA TO PLANTER AREA RATIO = 12,158 / 80,328 = **15%**

