

Ramsey Center area - potential BMP sites



Potential BMP sites - descriptions (page 1 of 2)

* denotes sites and BMPs that were discussed as having among the most potential during a brief meeting with professors J. Calabria, A. Vick, and A. Bramlet; however, note that not all sites were touched on at the meeting, so the lack of a star should not rule out a site from consideration.

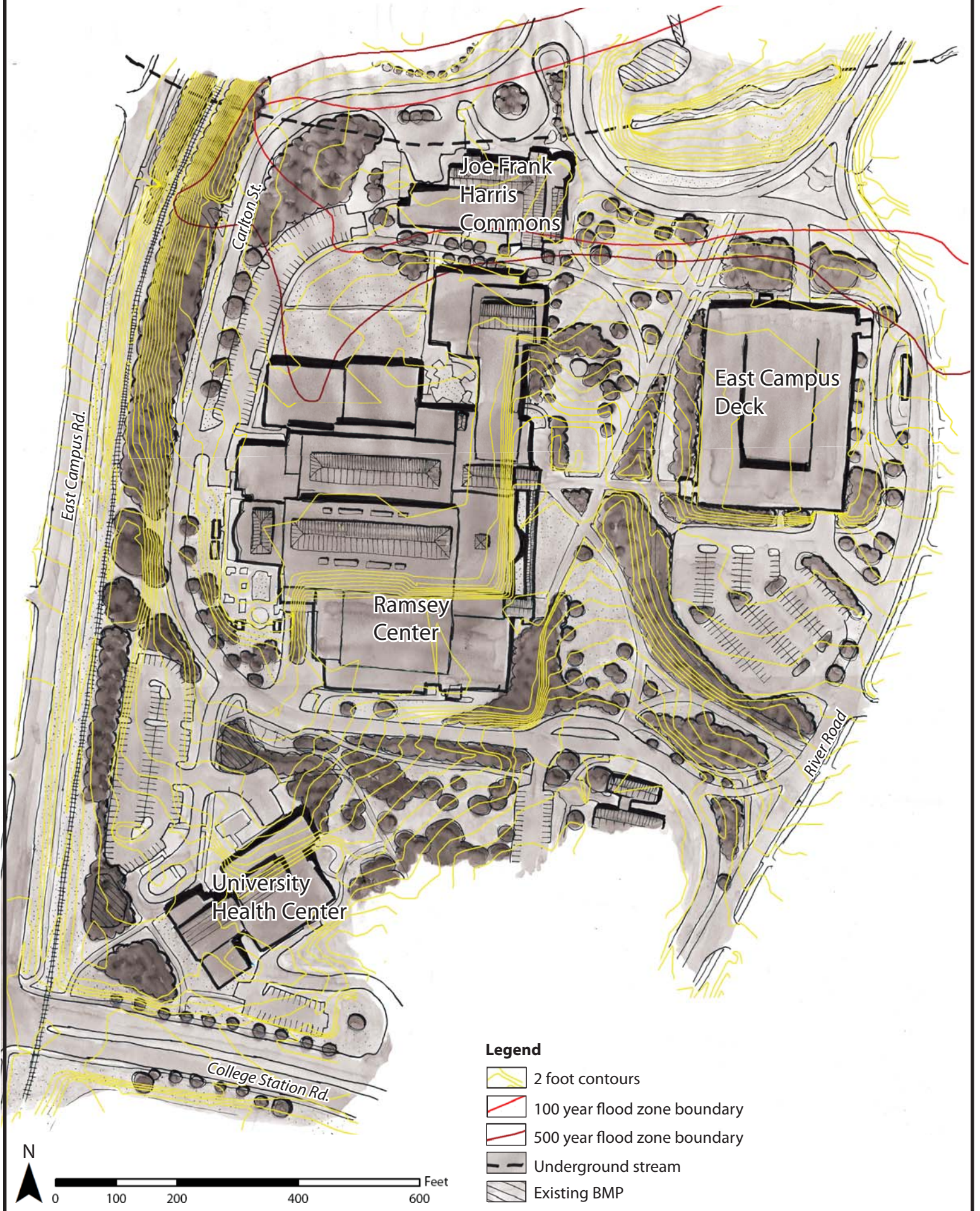
Site #	Description	Limitations/Considerations
1	Long grassy area adjacent to parking lot, planted with single row of trees. Considered as possible swale or small rain garden site.	Existing trees (except open space at S end). Upslope of adjacent parking lot, so parking lot runoff would run away from this area.
2*	Large grassy area NW of Ramsey Center, with no apparent function. Turf covered, except in NE corner. Mostly flat. Intersects flood plain. Possible site for bioretention area or stormwater wetland.	Is the land available large enough relative to the catchment area? Flood plain.
3	Small hill covered with turf and some trees. Recommend stabilizing vegetation (i.e. ornamental grasses, wildflowers) to reduce maintenance and watering needs.	Existing trees. Flood plain.
4	Same as #3.	Flood plain.
5	Hill within bend in road. Erosion damage noted. Turf-covered. Recommend stabilizing vegetation (i.e. ornamental grasses, wildflowers).	Proposed residence hall on UGA Master Plan. Flood plain.
6*	Courtyard within the Ramsey Center. Landscaped. Might serve as a demonstration site for rainwater harvesting and reuse. Much of the northern portion of the Ramsey Center rooftop drainage system exits the building at this location.	How well used is it? Does it receive enough foot traffic to be worthwhile as an educational demonstration site?
7*	A visible but little used open space east of the Ramsey Center on its north end. Mostly turf with some trees and shrubs. Upper and lower portions separated by retaining wall. Lower portion is relatively flat, but upper portion slopes downward, with an unused concrete pad near the bottom (formerly held an art sculpture). Recommend removing concrete pad. Possible site for bioretention area, due to this site's large size, relatively high visibility, and relatively low traffic.	Existing vegetation. Retaining wall. Existing stormwater infrastructure near the concrete pad. Steep slope of upper portion. Is the land available large enough relative to the catchment area?
8	Downhill end of a small triangle of land within the sidewalk network. Turf-covered with some trees. Erosion noted. Recommend stabilizing vegetation. Possible site for pocket rain gardens.	Existing trees. Existing stormwater infrastructure. Small area.
9	Long, relatively flat clearing between parking deck and pine trees. Possible site for bioswale or other conveyance tool.	Existing stormwater infrastructure. Proximity to building and pine trees.
10	Gently sloping, long area adjacent to parking deck. Some small trees. Potential bioswale or other conveyance tool	Existing stormwater infrastructure. Existing trees. Proximity to building.
11	Flat area at base of relatively steep slope. Recommending stabilizing slope above this location, and possibly collecting and treating its runoff here. Also, desire path upslope of this site suggests the need for a sidewalk, which could use permeable pavement.	Steep upland slope. Small size. Existing stormwater infrastructure. Low visibility.
12	Highly visible, turf-covered, gently sloping land in front of the Ramsey Center, near its entrance. An attractive BMP, such as a rain garden, bioswale, or bioretention area, could serve a dual function here: improving aesthetics and treating water before it reaches the existing storm inlets.	Existing stormwater infrastructure.
13	Mostly turf covered triangle of land at the bottom of a hill. Little traffic because it is out of the way. Held up by existing retaining wall. Might serve as a good location for mitigation of runoff from a proposed new building in the UGA Master Plan (planned for the top of the hill)	Retaining wall. Existing tree. Existing stormwater infrastructure.
14	This current parking lot is not shown on the UGA Master Plan. If a planned new building on the upslope (south) end is constructed, all or part of this lot would need to be removed. Proposed construction opens up possibilities for installation of BMPs, including for mitigation of the proposed building.	

Potential BMP sites - descriptions (page 2 of 2)

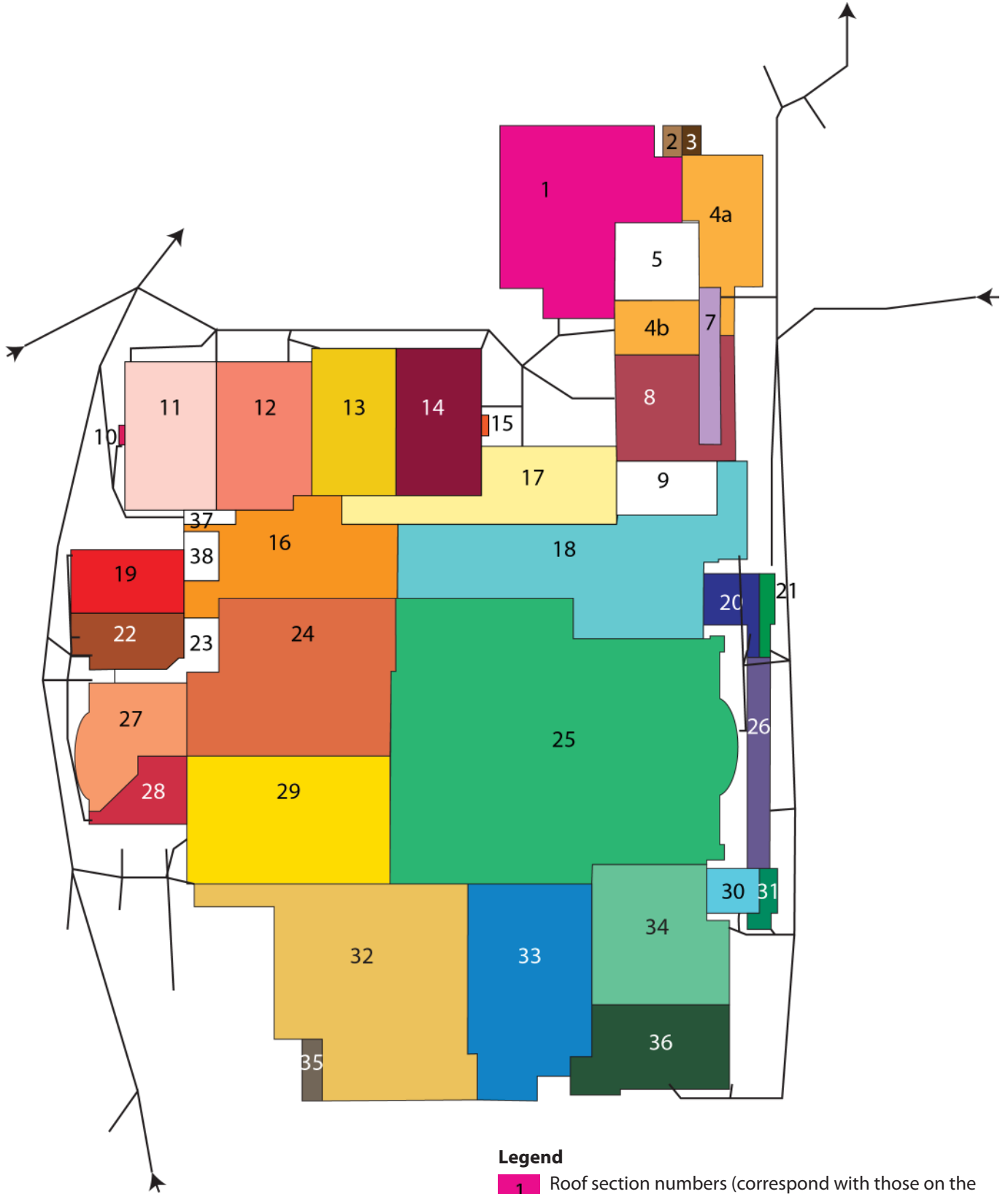
* denotes sites and BMPs that were discussed as having among the most potential during a brief meeting with professors J. Calabria, A. Vick, and A. Bramlet; however, note that not all sites were touched on at the meeting, so the lack of a star should not rule out a site from consideration.

Site #	Description	Limitations/Considerations
15	Open, highly visible, turf covered area at corner of road and parking lot. Potential site of small rain garden. Location downslope from proposed building also makes it a potential mitigation site.	Small area. Currently elevated relative to surrounding pavement.
16	Landscaped courtyard on southwest side of Ramsey Center. Large turf lawn in center. Might serve as a potential rainwater harvesting and reuse demonstration area.	Is it used enough for an educational demonstration site to be worthwhile?
17	Existing relatively flat area south of the Ramsey Center. Turf covered with sparse trees. Potential to treat runoff from road and land to the east.	High incoming flow - is there enough land here relative to the catchment area? Existing trees.
18	Site of proposed academic building in UGA's Master Plan. Stormwater mitigation measures will be needed if building is constructed.	Near top of hill.
19	Site of proposed academic building in UGA's Master Plan. Stormwater mitigation measures will be needed if building is constructed.	Steep slope.
20	This parking lot receives a high volume of runoff from upland areas. It could be retrofit with a variety of BMPs.	Steep slope would make most BMPs difficult. Existing rain garden to the west might already be collecting some runoff from this parking lot.
21	Turf-covered swale with sparse trees, located between the Intramural Fields and College Station Road. Erosion evident. Highly visible to drivers on College Station. An aesthetically pleasing bioswale here could control the existing erosion problem, improve the view for drivers on College Station, and present a deterrent to pedestrians who currently frequently cut through this area instead of using existing pathways between the fields and the sidewalk.	Existing stormwater infrastructure. Location in watershed (it is at the top -- the intramural fields are in a different catchment that slopes away from this site).




Ramsey Center area - contours and flood zone



Ramsey Center water harvesting - roof drainage sections

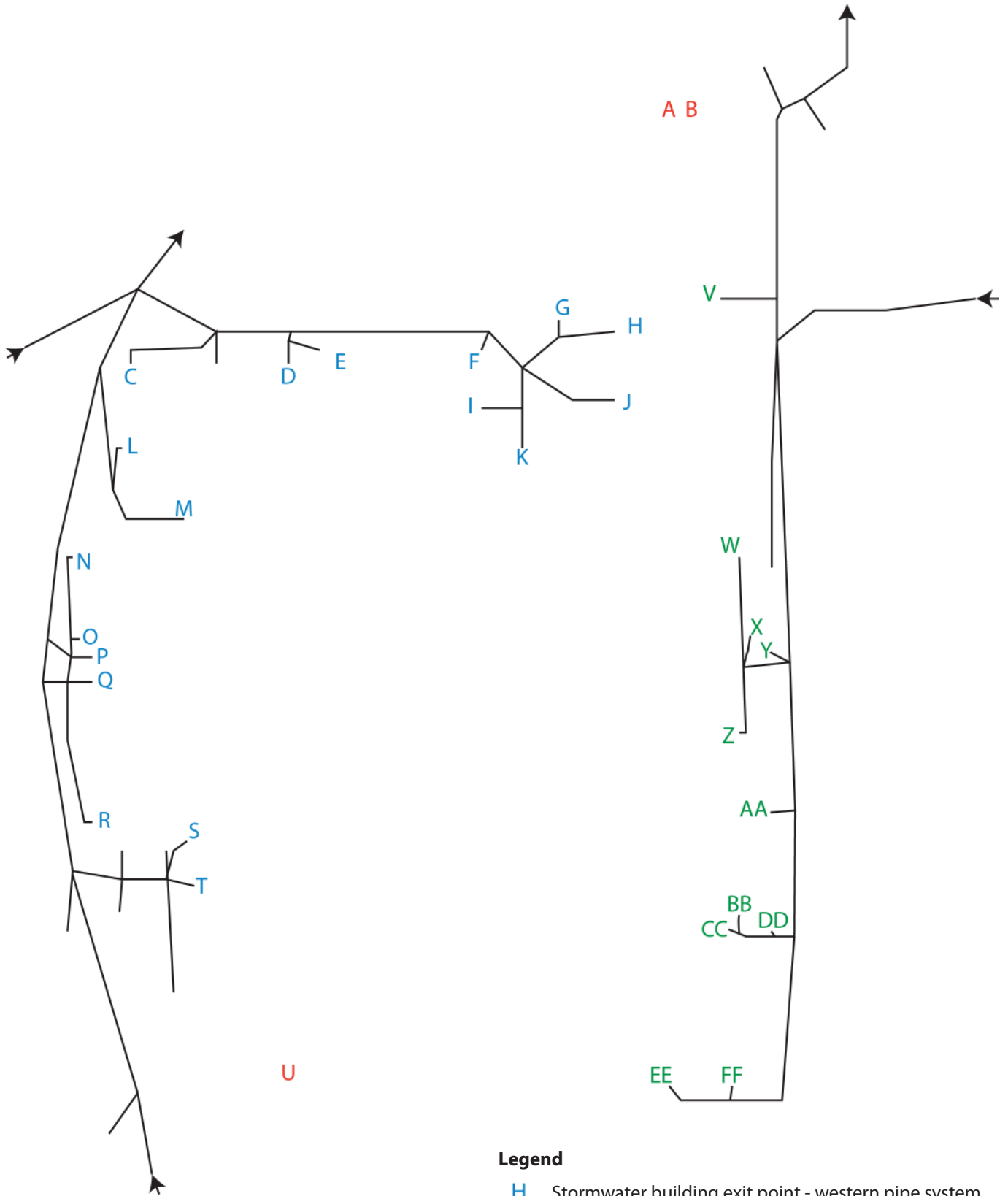


Legend

-  Roof section numbers (correspond with those on the "Ramsey areacalc" Excel spreadsheet)
-  Stormwater drainage pipe (below ground)
-  Arrows indicate direction of flow for pipes that continue beyond map edge



Ramsey Center water harvesting - stormwater building exit points



Legend

- H Stormwater building exit point - western pipe system
- V Stormwater building exit point - eastern pipe system
- A Stormwater building exit point - no direct connection with external stormwater pipe system
- Stormwater drainage pipe (below ground)
- ↗ Arrows indicate direction of flow for pipes that continue beyond map edge

N

