



NOTES:

1. TOTAL AREA OF IMPERVIOUS SURFACE = 8.60 ACRES (EXISTING)
 TOTAL AREA OF IMPERVIOUS SURFACE = 5.99 ACRES (PROPOSED)
 TOTAL AREA OF DISCONNECTED IMPERVIOUS SURFACE = 2.61 ACRES (PROPOSED)

2. LOCATIONS AND SIZES OF RAIN GARDENS ARE ONLY CONCEPTUAL. THE ACTUALLY SIZES AND LOCATIONS WILL VARY DUE TO THE CONSTRAINTS OF EACH IMPERVIOUS SURFACE IT IS DISCONNECTING.

3. THE TABLE BELOW DEMONSTRATES THE DIFFERENCE IN RUNOFF BEFORE AND AFTER IMPLEMENTATION OF DISCONNECTION OF IMPERVIOUS SURFACES.

	RUNOFF BEFORE (GAL.)	RUNOFF AFTER (GAL.)	DIFFERENCE
2 YR.	799,476	652,285	147,191
10 YR.	1,214,752	1,066,537	148,215

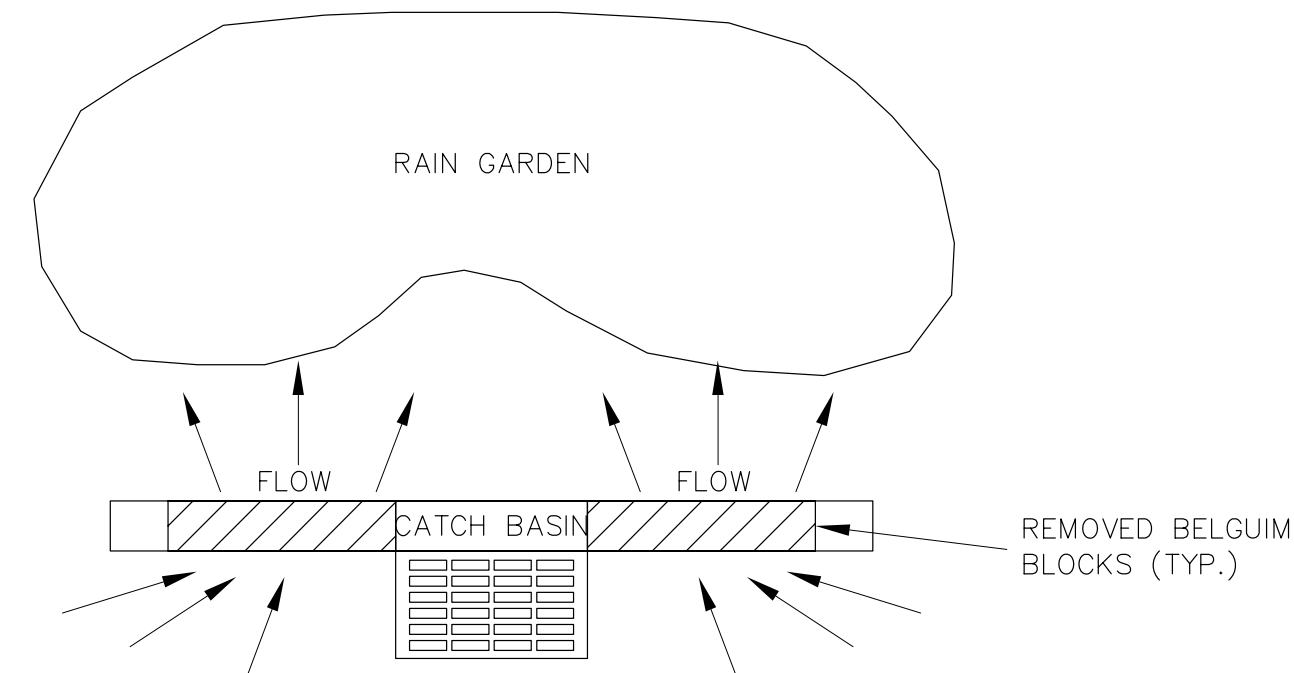
VOLUME IS NOT THE ONLY CAUSE FOR FLOODING IN THIS AREA. CATCH BASINS ALONG THE EDGE OF THE PARKING LOT THAT RUNS PARALLEL TO THE STREAM FREQUENTLY FILL WITH WATER DUE TO THE OUTLET PIPES INVERTS TOO LOW. THE CURB CUTS WILL REDUCE FLOODING FROM THIS PROBLEM BECAUSE WHEN THE WATER OVER FLOWS IN THE CATCH BASIN IT WILL LEAVE THE PARKING THROUGH THE CURB CUT.

4. THIS IS NOT FOR PERMITTING OR CONSTRUCTION USE, THIS DRAWING IS ONLY TO BE USED FOR CONCEPTUAL PURPOSES.

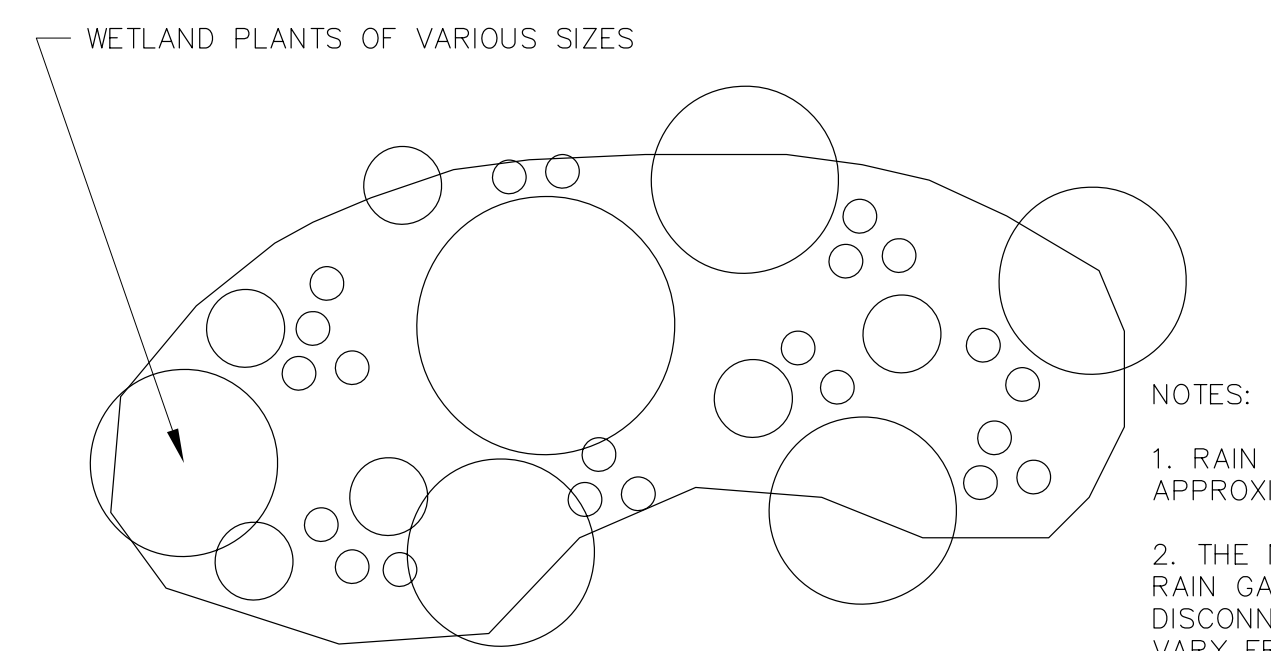
NOTES:

1. CURB CUTS WILL OCCUR AT EVERY CATCH BASIN ALONG THE DISPLAYED DISCONNECTED AREA THAT RUNS PARALLEL TO THE STREAM.

REMOVED BELGIUM BLOCK CURBING (TYP.)



TYPICAL CURB CUT
NOT TO SCALE



NOTES:

1. RAIN GARDENS SHALL BE APPROXIMATELY 70 SQ. FT.

2. THE NUMBER AND SIZE OF RAIN GARDENS FOR EACH DISCONNECTED AREA CAN VARY FROM DUE TO PHYSICAL CONSTRAINTS OF THE SITE SUCH AS GRADE AND LOCATE OF RAIN SPOUTS

RAIN GARDEN SCHEMATIC
NOT TO SCALE

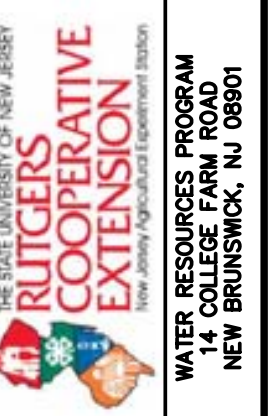
LEGEND

- EXISTING 2 YEAR STORM BOUNDARY —
- PROPOSED 2 YEAR STORM BOUNDARY —
- DISCONNECTED IMPERVIOUS SURFACE ▽▽▽▽▽
- PROPOSED RAIN GARDEN ●●●●●

CHRISTOPHER C. OBROPTA, Ph.D., P.E.
 PROFESSIONAL ENGINEER - NJ LICENSE # 37632

DATE: _____
 APPROVED: _____
 DESIGNED: _____
 DRAWN: SPW/SPW/CCO

MILESTONE 4 OF REGIONAL STORMWATER MANAGEMENT PLAN FOR THE
 TROY BROOK
 NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
 TIVOLI APARTMENTS
 ROOF AND PARKING LOT DRAINAGE CONCEPT PLANS



JOB: _____ SHEET # **E1** TOTAL: _____
 BO: _____