TYPICAL CROSS SECTION OF WATER REUSE POND

1. The recommendation for this site is a water reuse and recovery system could be constructed and meet the needs of the golf course by doubling it as a water hazard and improving one of the existing water bodies on the golf course.
2. The water recovery system will be integrated into the existing irrigation system of the golf course. They exist as water hazards on the half course so they will not be seen as eye sores on the existing property.
3. The ponds will hold at least 3 feet of standing water at all times. They will have the capacity to hold an additional 3 feet of water.
4. The ponds will have storage space for approximately 6.5 feet of water above the required 3 ft of standing water.
5. When the water recovery system is integrated into the irrigation system, the irrigation system should always use all the recycled water before using the potable water.
6. Ponds are sized to meet more than a 100-year storm. Their goal is to allow for the greatest amount of storage.
7. All ponds should be linked together through the irrigation system to allow for even greater storage. If one starts to overflow, the water can be transferred to another pond to allow for greater storage.
8. Ponds are only 6 feet deep because the water table is close to the surface and does not allow for greater depth.
9. The average annual rainfall is 44 inches a year will allow the golf course to recycle 20,584,140.18 gallons a year with a 40% evaporation rate.
10. Additional stormwater could be diverted from the nearby streets to the ponds for greater collection of the stormwater water. This note is not included in the calculations.
11. This is not for permitting or construction use, the drawing is only to be used for conceptual purposes.

MINIMUM DEPTH OF STANDING WATER

3'

LEGEND

PROPOSED DRAINAGE AREA

PROPOSED POND

SCALE

1:20,000

MILESTONE 4 OF REGIONAL STORMWATER MANAGEMENT PLAN FOR THE

LEGEND

TYPICAL CROSS SECTION OF WATER REUSE POND

(1/10 INCH SCALE)

PROPOSED POND

PUMP TO SUPPLY THE COLLECTED STORMWATER INTO THE EXISTING IRRIGATION SYSTEM OF THE GOLF COURSE

MAP LINES AT THE OUTLINE

PLAN TO SUPPLY THE COLLECTED STORMWATER INTO THE EXISTING IRRIGATION SYSTEM OF THE GOLF COURSE

NATURAL OR REPLACED SOIL

CLAY LINER AT THE BOTTOM

NOTE:

CLAY LINER IS INSTALLED TO PREVENT WATER FROM INFILTRATING.