SPLASHPAD DISCUSSION AND RESEARCH

Estimated Costs for Initial Construction:

$128,500	CFS Bid for **Splashpad** project (Products as noted on Contract dated 1.24.2020, Installation, Concrete, & all details included in their packet)
$20,000	**Water Line** (3 – 4" to accommodate nearby service needs such as Bathroom, Splashpad, Fountain(s), etc.) o Approximately 400' of line from main > needs to be w/in 50' o Numbers based on engineer provided rough estimates ($50/ft)
$6,250	**Stormwater Line** (12" Concrete from West) o Approximately 125' total > needs to be w/in 50' o Numbers based on engineer provided rough estimates ($50/ft)
$2,000	**Stormwater intake structure**
$2,000	**Power** > local contractor estimated IF the nearby panel provided adequate amount of power, they could trench in and provide onsite for this rough estimate
$1,500	**Water Meter**
$2,000	**Irrigation** repair and modification around pad
$6,000	**Walking Path Adjustment** (A.B. estimates $3/ft2)
$500	**Black Dirt / Reseeding**
$5,000	**Engineering** – per WSN proposal
$173,750	**Total Estimated Costs for Initial Splashpad Construction**

Additional Related Costs:

$10,000+	**Cleaning out of Stormwater Discharge Area** (N of Lumberyard) o Rough estimate to be refined once the Local Excavator can access and accurately assess area in question o A combination of sediment buildup and trees in the water discharge storage area already causes a noticeable surcharge that causes deep puddles at Main and Patriot during large runoff and storm events o This was previously discussed as a definite need prior to the Road Turn backs I was informed, but not completed o I'd consider it must be addressed prior to inserting another 33,000+ gallons a day during prime Thunderstorm Season
$2,000 + installation	**Fence extension** (125' south from existing playground fence)
$30,000+	**Park Bathroom** o One good idea is they have Splashpad Controls all housed inside the structure's utility room ▪ See if possible ▪ Would protect and reduce vandalism
$1,100	**Water Fountain** o Chamber fountain estimate
$30,000	**Parking Lot Modification and Paving** (~ 100' X 100' @ $3/ft2)

YTBD	**Lot Striping & curb**
YTBD	**Signage**
$75,000-$100,000	**Total Additional Related Costs**

Ongoing Costs and Maintenance:

$21,410/year	**Annual Water Usage** ($240/day) ○ Based on CFS estimates of 2,653,020 gallons per year (33,162/day) ○ Estimated use from Memorial Day to Labor Day ○ $8.07 per 1,000 gallons water usage fees
$200/year	**Annual RPZ Testing & Maintenance** ○ Annual testing and periodic repair kits/labor costs
$1,500/year	**Annual Insurance**
YTBD	**Maintenance and seasonal prep** ○ Such as: valves, pipe, actuator repairs ○ Antifreeze and line prep (costs likely nominal) ○ Electricity
$23,000-$24,000	**Total Ongoing Costs and Maintenance**

Research Notes:

Observations from our City of Deerwood Visit with PWD, Pat (2/12/2020):

- Expect usage to be at or above CRS estimates. Not a huge concern here since the City has capacity but important to note when considering per 1000 gallon costs to the City in electricity, treatment chemical costs, etc.
- Make sure all piping zones can be isolated (w/ball valves / unions) for repairs and that all solenoid valves have unions so they can be removed and replaced without shutting the whole system down.
- Have CRS furnish a couple extra splash pad actuators/solenoids as apparently Deerwood has already replaced a few of these in their 1st year of operation.
- Either have CRS or the City's dirt contractor construct a French drain plumbed to the valve pit so that it can drain when the system is winterized in the fall (elevation may make it possible to simply have an outlet pipe added at bottom). This could be accomplished by simply constructing an outlet pipe (screened on end) due to elevation E of pad.
- Increase the pad size and leave a few extra capped service connections for future water feature additions. Pat suggested that local companies could donate a new feature to the pad. I thought that was a great idea that would go over well with the City Council and Chamber of Commerce.
- Consider offering private party options at the splash pad for a fee to help pay for operating costs. Not sure how this would go over with it being a public splash pad but maybe something to think about.

Observations from our City of Royalton Visit with PWD, Daniel and Utility Worker, Tina (2/13/2020):

- Royalton built their splashpad in 2013 (one of the first in the area).
- It's sort of a cloverleaf design with 10 fixtures (43' across, similar to Deerwood's size)

    - Recommended a more kidney bean shape design like we described Deerwood's, which would allow for more efficient use of space and potential for expansion if desired.
- Theirs was not from CRS (Deerwood's was) so it is configured a little differently.
- Their control panel was actually protected and stored in the back-utility room of their nearby public restroom.
    - Daniel recommended this type of setup and Andy and I thought this was a great way to protect equipment and reduce vandalism risks.
- When asked about vandalism, he did indicate it had been an issue numerous times since being built. They're police now installed cameras in the area to hopefully remedy it.
- Also recommended to NOT use paper towels in the restroom (blowers) as they've had issues with them ending up on the splashpad plugging drains, etc.
- They have 2 fountains nearby the splashpad (on outside of bathroom).
- They thought theirs was using 18,000 GPD to 20,000 GPD (originally up to 37,000 GPD prior to throttling valves down).
- Ask Jeff at our meeting about adjustability and programmability potential.