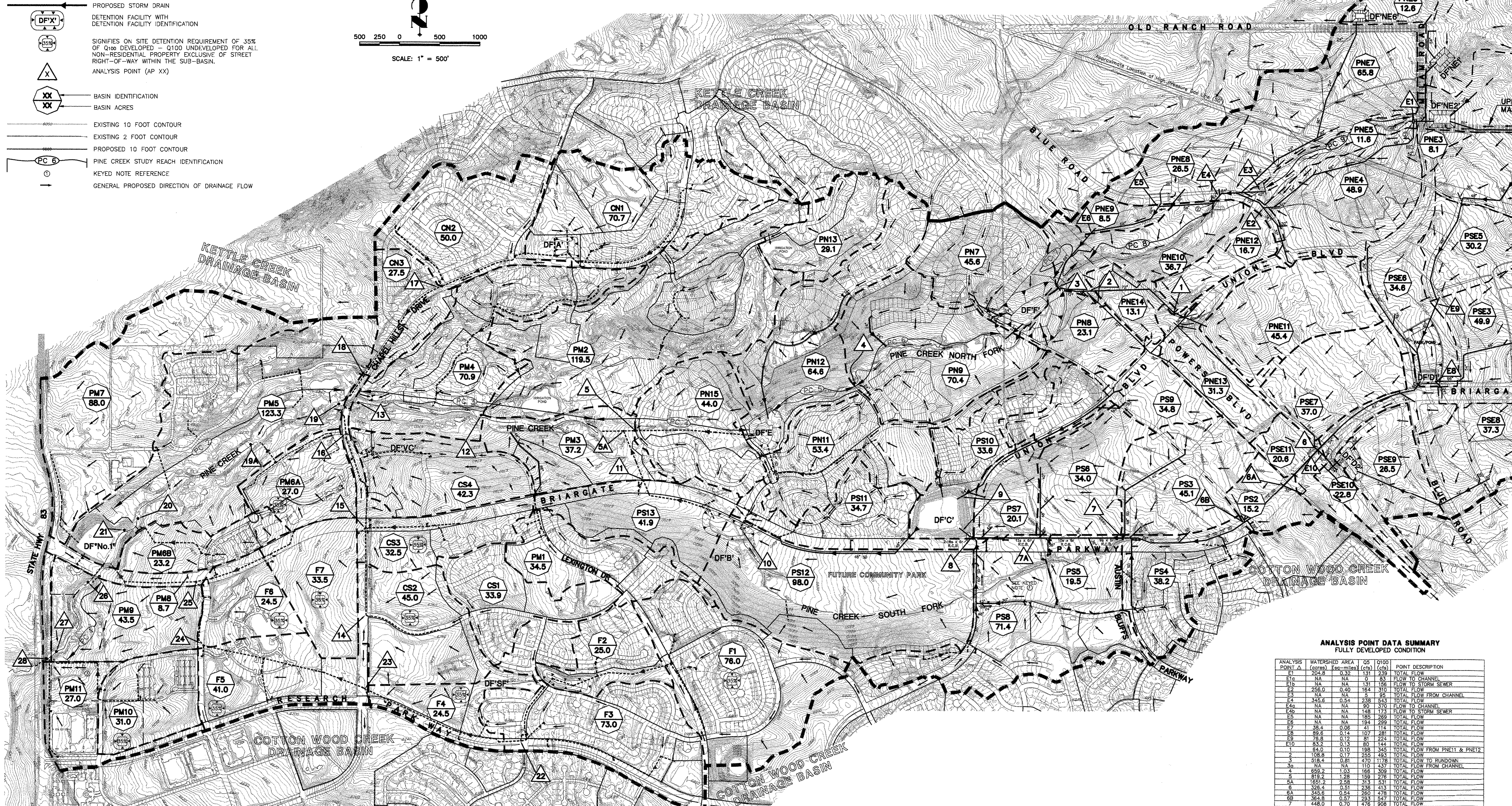


LEGEND

- CURRENT MAJOR DRAINAGE BASIN BOUNDARY
- CURRENT SUB-BASIN BOUNDARY
- PREVIOUS MAJOR DRAINAGE BASIN BOUNDARY (AMENDMENT 2)
- LIMIT OF CURRENT STUDY
- UPPER LIMIT BRIARGATE MASTER PLAN
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- DETENTION FACILITY WITH DETENTION FACILITY IDENTIFICATION
- SIGNIFIES ON SITE DETENTION REQUIREMENT OF 35% OF Q100 DEVELOPED - Q100 UNDEVELOPED FOR ALL NON-RESIDENTIAL PROPERTY EXCLUSIVE OF STREET RIGHT-OF-WAY WITHIN THE SUB-BASIN. ANALYSIS POINT (AP XX)
- BASIN IDENTIFICATION
- BASIN ACRES
- EXISTING 10 FOOT CONTOUR
- EXISTING 2 FOOT CONTOUR
- PROPOSED 10 FOOT CONTOUR
- PINE CREEK STUDY REACH IDENTIFICATION
- KEYED NOTE REFERENCE
- GENERAL PROPOSED DIRECTION OF DRAINAGE FLOW

500 250 0 500 1000
SCALE: 1" = 500'

AMENDMENT 3 TO PINE CREEK BASIN PLANNING STUDY FULLY DEVELOPED CONDITION BASIN MAP AND MASTER PLAN



SUB-BASIN DATA SUMMARY FULLY DEVELOPED CONDITION

| BASIN NO. | AREA (acres) | IC (min) | LA69 (hr) | ON | PEAK RUNOFF (cfs) |
|-----------|--------------|----------|-----------|-----|-------------------|
| PM1 | 34.5 | 15 | 0.15 | 1.0 | 21.0 |
| PM2 | 119.5 | 15 | 0.15 | 1.0 | 85.0 |
| PM3 | 37.2 | 15 | 0.15 | 1.0 | 24.0 |
| PM4 | 70.9 | 15 | 0.15 | 1.0 | 48.0 |
| PM5 | 123.3 | 15 | 0.15 | 1.0 | 80.0 |
| PM6 | 27.0 | 15 | 0.15 | 1.0 | 18.0 |
| PM7 | 86.0 | 15 | 0.15 | 1.0 | 58.0 |
| PM8 | 23.2 | 15 | 0.15 | 1.0 | 15.0 |
| PM9 | 43.5 | 15 | 0.15 | 1.0 | 29.0 |
| PM10 | 31.0 | 15 | 0.15 | 1.0 | 21.0 |
| PM11 | 27.0 | 15 | 0.15 | 1.0 | 18.0 |
| PM12 | 64.8 | 15 | 0.15 | 1.0 | 43.0 |
| PM13 | 28.1 | 15 | 0.15 | 1.0 | 19.0 |
| PM14 | 70.7 | 15 | 0.15 | 1.0 | 48.0 |
| PM15 | 44.0 | 15 | 0.15 | 1.0 | 29.0 |
| PM16 | 32.5 | 15 | 0.15 | 1.0 | 21.0 |
| PM17 | 27.5 | 15 | 0.15 | 1.0 | 18.0 |
| PM18 | 70.9 | 15 | 0.15 | 1.0 | 48.0 |
| PM19 | 42.3 | 15 | 0.15 | 1.0 | 28.0 |
| PM20 | 42.3 | 15 | 0.15 | 1.0 | 28.0 |
| PM21 | 42.3 | 15 | 0.15 | 1.0 | 28.0 |
| PM22 | 42.3 | 15 | 0.15 | 1.0 | 28.0 |
| PM23 | 42.3 | 15 | 0.15 | 1.0 | 28.0 |
| PM24 | 42.3 | 15 | 0.15 | 1.0 | 28.0 |
| PM25 | 42.3 | 15 | 0.15 | 1.0 | 28.0 |
| PM26 | 42.3 | 15 | 0.15 | 1.0 | 28.0 |
| PM27 | 42.3 | 15 | 0.15 | 1.0 | 28.0 |
| PM28 | 42.3 | 15 | 0.15 | 1.0 | 28.0 |
| PM29 | 42.3 | 15 | 0.15 | 1.0 | 28.0 |
| PM30 | 42.3 | 15 | 0.15 | 1.0 | 28.0 |
| PM31 | 42.3 | 15 | 0.15 | 1.0 | 28.0 |
| PM32 | 42.3 | 15 | 0.15 | 1.0 | 28.0 |
| PM33 | 42.3 | 15 | 0.15 | 1.0 | 28.0 |
| PM34 | 42.3 | 15 | 0.15 | 1.0 | 28.0 |
| PM35 | 42.3 | 15 | 0.15 | 1.0 | 28.0 |
| PM36 | 42.3 | 15 | 0.15 | 1.0 | 28.0 |
| PM37 | 42.3 | 15 | 0.15 | 1.0 | 28.0 |
| PM38 | 42.3 | 15 | 0.15 | 1.0 | 28.0 |
| PM39 | 42.3 | 15 | 0.15 | 1.0 | 28.0 |
| PM40 | 42.3 | 15 | 0.15 | 1.0 | 28.0 |

ANALYSIS POINT DATA SUMMARY FULLY DEVELOPED CONDITION

| ANALYSIS POINT A | WATERSHED AREA (acres) | Q5 (cfs) | Q100 (cfs) | POINT DESCRIPTION |
|------------------|------------------------|----------|------------|-------------------------|
| AP1 | 18.1 | 12.5 | 23.5 | TOTAL FLOW |
| AP2 | 18.1 | 12.5 | 23.5 | TOTAL FLOW TO CHANNEL |
| AP3 | 18.1 | 12.5 | 23.5 | TOTAL FLOW FROM CHANNEL |
| AP4 | 18.1 | 12.5 | 23.5 | TOTAL FLOW TO SHADOWN |
| AP5 | 18.1 | 12.5 | 23.5 | TOTAL FLOW FROM CHANNEL |

REGIONAL DETENTION FACILITY DATA SUMMARY FULLY DEVELOPED CONDITION

| DETENTION FACILITY ID | WATERSHED AREA (acres) | PEAK INFLOW (cfs) | PEAK OUTFLOW (cfs) | ESTIMATED PEAK STORAGE (cu-ft) | PROPOSED OWNERSHIP | STATUS |
|-----------------------|------------------------|-------------------|--------------------|--------------------------------|--------------------|----------|
| DF1 | 1.5 | 10 | 10 | 0 | PUBLIC | EXISTING |
| DF2 | 2.0 | 15 | 15 | 0 | PUBLIC | EXISTING |
| DF3 | 3.0 | 20 | 20 | 0 | PUBLIC | EXISTING |
| DF4 | 4.0 | 25 | 25 | 0 | PUBLIC | EXISTING |
| DF5 | 5.0 | 30 | 30 | 0 | PUBLIC | EXISTING |
| DF6 | 6.0 | 35 | 35 | 0 | PUBLIC | EXISTING |
| DF7 | 7.0 | 40 | 40 | 0 | PUBLIC | EXISTING |
| DF8 | 8.0 | 45 | 45 | 0 | PUBLIC | EXISTING |
| DF9 | 9.0 | 50 | 50 | 0 | PUBLIC | EXISTING |
| DF10 | 10.0 | 55 | 55 | 0 | PUBLIC | EXISTING |
| DF11 | 11.0 | 60 | 60 | 0 | PUBLIC | EXISTING |
| DF12 | 12.0 | 65 | 65 | 0 | PUBLIC | EXISTING |
| DF13 | 13.0 | 70 | 70 | 0 | PUBLIC | EXISTING |
| DF14 | 14.0 | 75 | 75 | 0 | PUBLIC | EXISTING |
| DF15 | 15.0 | 80 | 80 | 0 | PUBLIC | EXISTING |
| DF16 | 16.0 | 85 | 85 | 0 | PUBLIC | EXISTING |
| DF17 | 17.0 | 90 | 90 | 0 | PUBLIC | EXISTING |
| DF18 | 18.0 | 95 | 95 | 0 | PUBLIC | EXISTING |
| DF19 | 19.0 | 100 | 100 | 0 | PUBLIC | EXISTING |
| DF20 | 20.0 | 105 | 105 | 0 | PUBLIC | EXISTING |
| DF21 | 21.0 | 110 | 110 | 0 | PUBLIC | EXISTING |
| DF22 | 22.0 | 115 | 115 | 0 | PUBLIC | EXISTING |
| DF23 | 23.0 | 120 | 120 | 0 | PUBLIC | EXISTING |
| DF24 | 24.0 | 125 | 125 | 0 | PUBLIC | EXISTING |
| DF25 | 25.0 | 130 | 130 | 0 | PUBLIC | EXISTING |
| DF26 | 26.0 | 135 | 135 | 0 | PUBLIC | EXISTING |
| DF27 | 27.0 | 140 | 140 | 0 | PUBLIC | EXISTING |
| DF28 | 28.0 | 145 | 145 | 0 | PUBLIC | EXISTING |
| DF29 | 29.0 | 150 | 150 | 0 | PUBLIC | EXISTING |
| DF30 | 30.0 | 155 | 155 | 0 | PUBLIC | EXISTING |
| DF31 | 31.0 | 160 | 160 | 0 | PUBLIC | EXISTING |
| DF32 | 32.0 | 165 | 165 | 0 | PUBLIC | EXISTING |
| DF33 | 33.0 | 170 | 170 | 0 | PUBLIC | EXISTING |
| DF34 | 34.0 | 175 | 175 | 0 | PUBLIC | EXISTING |
| DF35 | 35.0 | 180 | 180 | 0 | PUBLIC | EXISTING |
| DF36 | 36.0 | 185 | 185 | 0 | PUBLIC | EXISTING |
| DF37 | 37.0 | 190 | 190 | 0 | PUBLIC | EXISTING |
| DF38 | 38.0 | 195 | 195 | 0 | PUBLIC | EXISTING |
| DF39 | 39.0 | 200 | 200 | 0 | PUBLIC | EXISTING |
| DF40 | 40.0 | 205 | 205 | 0 | PUBLIC | EXISTING |
| DF41 | 41.0 | 210 | 210 | 0 | PUBLIC | EXISTING |
| DF42 | 42.0 | 215 | 215 | 0 | PUBLIC | EXISTING |
| DF43 | 43.0 | 220 | 220 | 0 | PUBLIC | EXISTING |
| DF44 | 44.0 | 225 | 225 | 0 | PUBLIC | EXISTING |
| DF45 | 45.0 | 230 | 230 | 0 | PUBLIC | EXISTING |
| DF46 | 46.0 | 235 | 235 | 0 | PUBLIC | EXISTING |
| DF47 | 47.0 | 240 | 240 | 0 | PUBLIC | EXISTING |
| DF48 | 48.0 | 245 | 245 | 0 | PUBLIC | EXISTING |
| DF49 | 49.0 | 250 | 250 | 0 | PUBLIC | EXISTING |
| DF50 | 50.0 | 255 | 255 | 0 | PUBLIC | EXISTING |

PROPOSED TREATMENT FOR PINE CREEK CHANNEL

| REACH ID | PROPOSED TREATMENT ** |
|----------|---|
| PC1 | LEAVE NATURAL WITH ONE DROP/CONTROL STRUCTURE. (COMPLETE) |
| PC2 | LEAVE NATURAL WITH MINOR BED STABILIZATION AND MODIFICATIONS TO DF No. 1 RUNDOWN CHANNEL. |
| PC3 | LEAVE NATURAL WITH GRADE CONTROL STRUCTURES. |
| PC4 | REGRADE TO PROVIDE WIDE DEPRESSED AREA TO SERVE AS EMERGENCY RELIEF CHANNEL. CONSTRUCT 54" STORM DRAIN TO CONVEY 100 YEAR DESIGN FLOW. (COMPLETE) |
| PC5 | LEAVE NATURAL WITH GRADE CONTROL STRUCTURES. |
| PC6 | LEAVE NATURAL WITH GRADE CONTROL STRUCTURES. |
| PC7 | LEAVE NATURAL WITH FREQUENT FLOWS CONVEYED IN BY-PASS STORM SEWER. |
| PC8 | LEAVE NATURAL. FREQUENT FLOWS CONVEYED IN BY-PASS STORM SEWER. |
| PC9 | LEAVE NATURAL WITH SOME RESHAPING. FREQUENT FLOWS CONVEYED IN BY-PASS STORM SEWER. |

- GENERAL NOTES:**
- FUTURE STORM SEWERS SHOWN ON THIS PLAN ARE ONLY INTENDED TO INDICATE GENERAL LOCATIONS AND APPROXIMATE SIZES OF FUTURE FACILITIES. ACTUAL STORM SEWERS SIZES AND LOCATIONS SHALL BE DETERMINED WITH MORE DETAILED ANALYSIS AT THE TIME OF DETAILED DESIGN OF THE FACILITIES. IT IS UNLIKELY THAT ADDITIONAL FACILITIES NOT SHOWN ON THIS PLAN WILL BE REQUIRED.
 - PROPOSED DETENTION FACILITIES SHOWN ON THIS PLAN ARE ONLY INTENDED TO INDICATE GENERAL LOCATIONS AND LAND AREA REQUIRED FOR THESE FACILITIES. ACTUAL LOCATION AND LAND AREA REQUIRED SHALL BE DETERMINED AT THE TIME OF DETAILED DESIGN OF THE FACILITIES.
 - EXCEPT AS OTHERWISE NOTED, THIS PLAN SHALL NOT MODIFY THE REQUIREMENTS OF PREVIOUSLY APPROVED MASTER DEVELOPMENT DRAINAGE PLANS AND FINAL DRAINAGE REPORTS.
- KEYED NOTES:**
- SECTION OF PINE CREEK TO BE ELIMINATED.
 - FLOW IS TO BE DIVERTED TO A STORM SEWER IN FREQUENT EVENTS AND IS TO BE DIVIDED BETWEEN THE STORM SEWER AND NATURAL CHANNEL IN LARGER EVENTS.
 - AN EMERGENCY OVERFLOW/RELIEF ROUTE SHOULD BE PLANNED ACROSS THIS SITE FROM THE LOW POINT OF TELSTAR DRIVE TO PINE CREEK.

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PINE CREEK DBPS AMENDMENT 3 BASIN MAP & MASTER PLAN
JOB NO. 28716.11
DATE: 10/01/02
SHEET 1 OF 5
REVISED 3-4-03