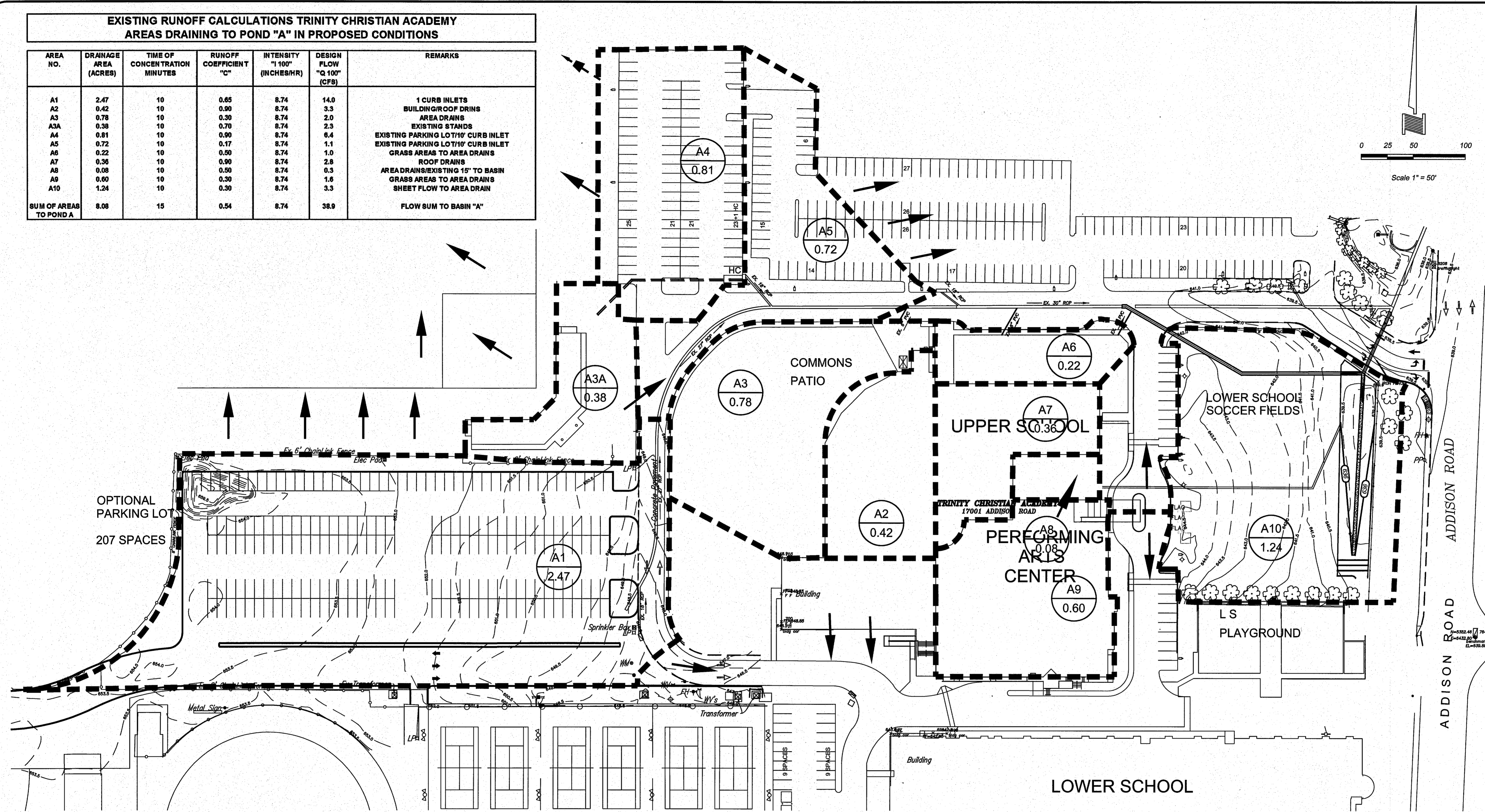


**EXISTING RUNOFF CALCULATIONS TRINITY CHRISTIAN ACADEMY  
AREAS DRAINING TO POND "A" IN PROPOSED CONDITIONS**

| AREA NO.               | DRAINAGE AREA (ACRES) | TIME OF CONCENTRATION MINUTES | RUNOFF COEFFICIENT "C" | INTENSITY "1"100" (INCHES/HR) | DESIGN FLOW "Q 100" (CFS) | REMARKS  |
|------------------------|-----------------------|-------------------------------|------------------------|-------------------------------|---------------------------|--|
| A1                     | 2.47                  | 10                            | 0.65                   | 8.74                          | 14.0                      | 1 CURB INLETS<br>BUILDING/ROOF DRINS<br>AREA DRAINS<br>EXISTING STANDS<br>EXISTING PARKING LOT/10' CURB INLET<br>EXISTING PARKING LOT/10' CURB INLET<br>GRASS AREAS TO AREA DRAINS<br>ROOF DRAINS<br>AREA DRAINS/EXISTING 15" TO BASIN<br>GRASS AREAS TO AREA DRAINS<br>SHEET FLOW TO AREA DRAIN |
| A2                     | 0.42                  | 10                            | 0.90                   | 8.74                          | 3.3                       |  |
| A3                     | 0.78                  | 10                            | 0.30                   | 8.74                          | 2.0                       |  |
| A3A                    | 0.38                  | 10                            | 0.70                   | 8.74                          | 2.3                       |  |
| A4                     | 0.81                  | 10                            | 0.90                   | 8.74                          | 6.4                       |  |
| A5                     | 0.72                  | 10                            | 0.17                   | 8.74                          | 1.1                       |  |
| A6                     | 0.22                  | 10                            | 0.50                   | 8.74                          | 1.0                       |  |
| A7                     | 0.36                  | 10                            | 0.90                   | 8.74                          | 2.8                       |  |
| A8                     | 0.08                  | 10                            | 0.50                   | 8.74                          | 0.3                       |  |
| A9                     | 0.60                  | 10                            | 0.30                   | 8.74                          | 1.6                       |  |
| A10                    | 1.24                  | 10                            | 0.30                   | 8.74                          | 3.3                       |  |
| SUM OF AREAS TO POND A | 8.08                  | 15                            | 0.54                   | 8.74                          | 38.9                      | FLOW SUM TO BASIN "A"  |



**PROPOSED RUNOFF CALCULATIONS TRINITY CHRISTIAN ACADEMY  
TO POND A**

| AREA NO.               | DRAINAGE AREA (ACRES) | TIME OF CONCENTRATION MINUTES | RUNOFF COEFFICIENT "C" | INTENSITY "1"100" (INCHES/HR) | DESIGN FLOW "Q 100" (CFS) | REMARKS  |
|------------------------|-----------------------|-------------------------------|------------------------|-------------------------------|---------------------------|--|
| A1                     | 2.47                  | 10                            | 0.90                   | 8.74                          | 19.4                      | PROPOSED PARKING LOT - 2 CURB INLETS<br>BUILDING/ROOF DRINS<br>FUTURE BUILDING EXPANSION/ROOF DRAINS<br>FUTURE COURTYARD EXPANSION & EXISTING STANDS<br>EXISTING PARKING LOT/10' CURB INLET<br>EXISTING PARKING LOT/10' CURB INLET<br>GRASS AREAS TO AREA DRAINS<br>ROOF DRAINS<br>COURTYARD TO AREA DRAINS/EXISTING 18" TO BASIN<br>ROOF DRAINS TO EXISTING 18" TO BASIN<br>SHEET FLOW TO BASIN - GRASS |
| A2                     | 0.42                  | 10                            | 0.90                   | 8.74                          | 3.3                       |  |
| A3                     | 0.78                  | 10                            | 0.90                   | 8.74                          | 6.1                       |  |
| A3A                    | 0.38                  | 10                            | 0.90                   | 8.74                          | 3.0                       |  |
| A4                     | 0.81                  | 10                            | 0.90                   | 8.74                          | 6.4                       |  |
| A5                     | 0.72                  | 10                            | 0.90                   | 8.74                          | 5.7                       |  |
| A6                     | 0.22                  | 10                            | 0.90                   | 8.74                          | 1.7                       |  |
| A7                     | 0.36                  | 10                            | 0.90                   | 8.74                          | 2.8                       |  |
| A8                     | 0.08                  | 10                            | 0.70                   | 8.74                          | 0.5                       |  |
| A9                     | 0.60                  | 10                            | 0.90                   | 8.74                          | 4.7                       |  |
| A10                    | 1.24                  | 10                            | 0.50                   | 8.74                          | 5.3                       |  |
| SUM OF AREAS TO POND A | 8.08                  | 15                            | 0.83                   | 8.74                          | 59.7                      | FLOW SUM TO BASIN "A"  |

**CAUTION!!!!**  
CONTACT: 1-800-344-8377  
DIG TESS 1-800-344-8377  
ATMOS 1-800-344-8377  
AT&T 1-800-344-8377  
SOUTHWESTERN BELL: 1-800-344-8377  
TOWN OF ADDISON 972-450-2871  
AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

**BENCHMARK:**  
TOWN OF ADDISON BENCHMARK 6, BRASS DISC SETON TOP OF  
EXISTING INLET, LOCATED ON THE EAST SIDE OF ADDISON ROAD,  
DIRECTLY EAST OF THE LOWER SCHOOL PLAYGROUNDS.  
ELEV. = 639.88'

**GLENN  
ENGINEERING**

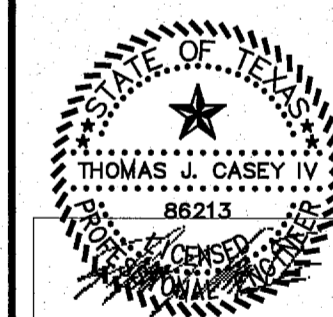


PHONE 972.717.5151  
105 DECKER COURT-SUITE 910  
IRVING, TEXAS 75062  
T.B.P.E. FIRM # F-303

TRINITY CHRISTIAN ACADEMY

DRAINAGE & DRIVE  
IMPROVEMENTS NEAR  
THE UPPER SCHOOL

DRAINAGE  
AREA  
MAP



Issue Dates:  
Review: June 23, 2010

Construction:  
Scale: AS NOTED  
Drawn By: TJC  
Checked By: CMA  
Project No.: 10 - 599.150

Sheet 8  
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