



PLAN: Scale 1:1000

LEGEND

- ROADWAY
- ROAD/POND SW OUTLET
- UPVC WATER
- FIRE HYDRANT
- GATE VALVE
- BULK WATER METER
- Ø160 UPVC SEWER
- SEWER MANHOLE
- TREATED EFFLUENT RISING MAIN
- EFFLUENT IRRIGATION RETICULATION
- BIO SEWAGE TREATMENT PLANT
- FUTURE SEWER PUMP STATION

DETENTION POND AREAS AND VOLUMES

|          |        |        |
|----------|--------|--------|
| POND 1   | 2515m2 | 4024m3 |
| POND 2   | 1283m2 | 1283m3 |
| POND 3   | 945m2  | 567m3  |
| P spring | 3370m2 | 1984m3 |

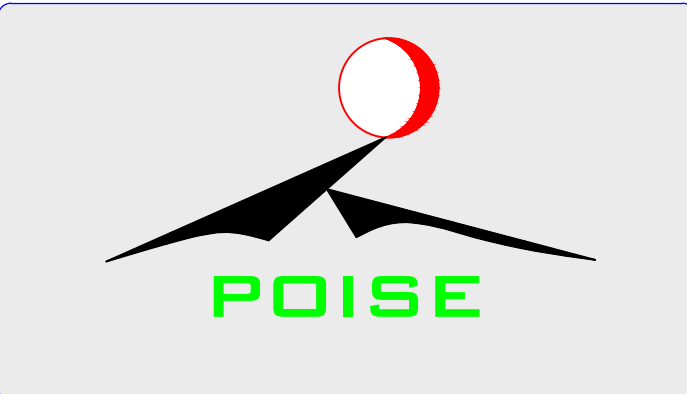
POTENTIAL IRRIGATION AREAS

|                                   |          |
|-----------------------------------|----------|
| INDIVIDUAL GARDENS 60 @ Ave 250m2 | 15000 m2 |
| ROAD VERGES                       | 5000 m2  |
| GREENBELT AREAS EXCLUDING PONDS   | 5500 m2  |
| TOTAL                             | 25500 m2 |

Project  
PORTION 91 OF THE FARM 304  
MATJIESFONTEIN

Description  
GENERAL LAYOUT  
ROADS STORMWATER SEWER AND  
WATER RETICULATION

|           |                                                                     |          |
|-----------|---------------------------------------------------------------------|----------|
| F         | LAYOUT UPDATED SEWER PLANT CONFIGURATION REVOL NORTHERN SWALE ADDED | 04 12 24 |
| E         | POND AND IRRIGATION AREA TABLE REVISED                              | 18 06 24 |
| D         | POND AND IRRIGATION AREA TABLE ADDED                                | 01 06 24 |
| C         | LAYOUT REVISED FOR BIO SEWER                                        | 09 04 24 |
| B         | LAYOUT REVISED RE-ISSUED FOR APPROVALS                              | 28 10 23 |
| A         | ISSUED FOR APPROVAL                                                 | 02 04 23 |
| REV.      |                                                                     | DATE     |
| DRAWN BY: | PS                                                                  | CELL:    |



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|         |        |     |            |
|---------|--------|-----|------------|
| JOB No  | DRW No | REV | DATE       |
| 23/G210 | S01    | F   | 08-04-2024 |

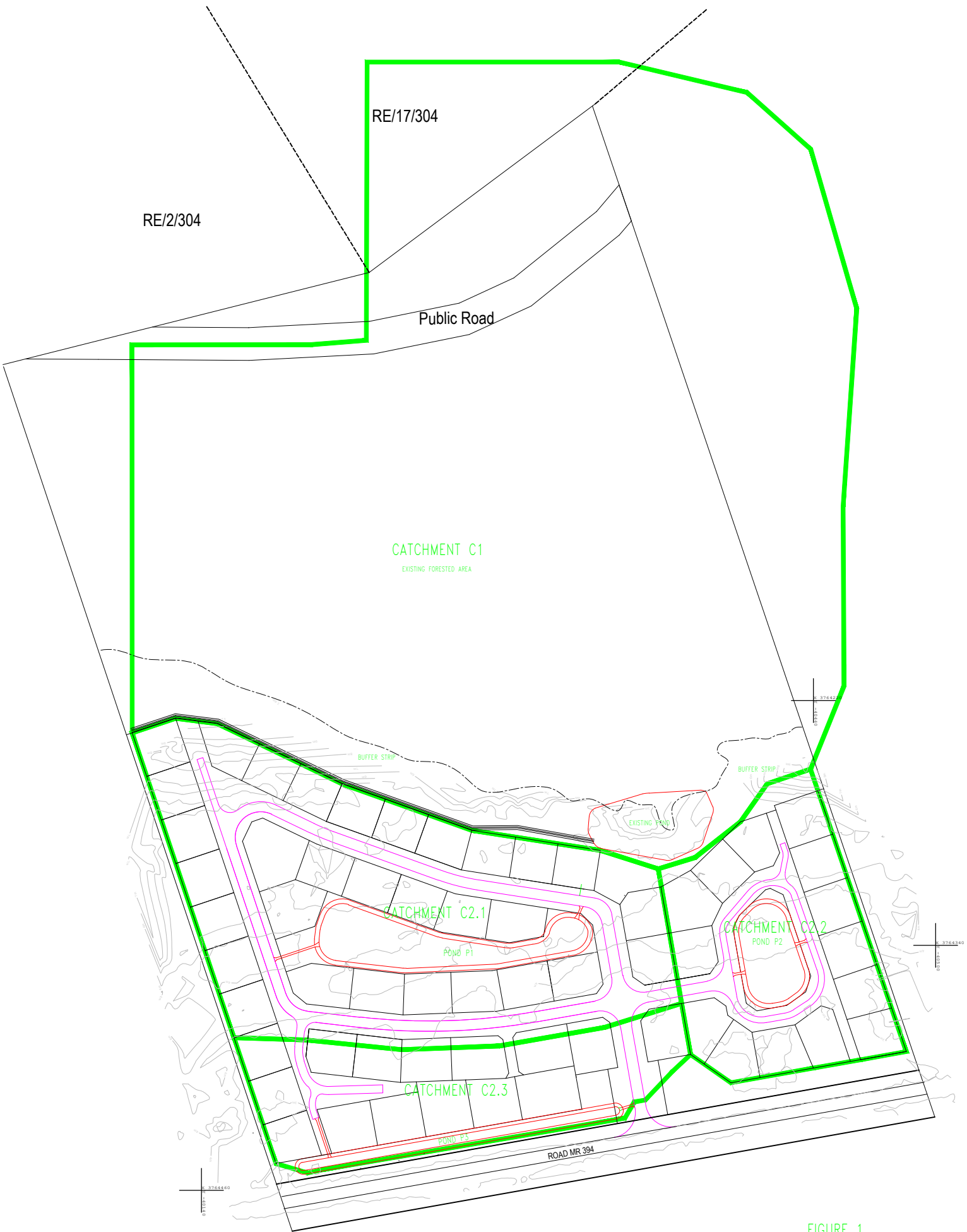


FIGURE 1  
PORTION 91 OF FARM MATJIESFONTEIN 304  
POST DEVELOPMENT CATCHMENT AREAS

**TABLE 1**  
**STORMWATER MANAGENT DATE TABLE: PORTION 91 OF FARM 304 MATJIESFONTEIN**

| <b>CATCHMENT<br/>AREA</b> | <b>AREA</b>  | <b>POND NO</b>                               | <b>POND AREA</b> | <b>POND DEPTH</b> | <b>TOTAL<br/>POND<br/>VOLUME</b> | <b>1 in 50Yr PEAK<br/>RETENTION<br/>VOLUME</b> | <b>1 in 100Yr PEAK<br/>RETENTION<br/>VOLUME</b> | <b>1 in 50Yr 24hR<br/>RAINFALL RUNOFF<br/>VOLUME</b> |
|---------------------------|--------------|----------------------------------------------|------------------|-------------------|----------------------------------|------------------------------------------------|-------------------------------------------------|------------------------------------------------------|
| <b>No</b>                 | <b>Ha</b>    |                                              | <b>m2</b>        | <b>m</b>          | <b>m3</b>                        | <b>m3</b>                                      | <b>m3</b>                                       | <b>m3</b>                                            |
| <b>C1</b>                 | <b>9,45</b>  | <b>P spring<br/>Overflow to P1</b>           | <b>3370,00</b>   | <b>2,50</b>       | <b>1984</b>                      | <b>1984<br/>943</b>                            | <b>1984<br/>2281</b>                            | <b>4509</b>                                          |
| <b>C2.1</b>               | <b>2,75</b>  | <b>P1<br/>Inflow from P spring<br/>Total</b> | <b>2515,00</b>   | <b>1,60</b>       | <b>4024</b>                      | <b>965<br/>943<br/>1908</b>                    | <b>1261<br/>2281<br/>3542</b>                   | <b>1815</b>                                          |
| <b>C2.2</b>               | <b>1,15</b>  | <b>P2</b>                                    | <b>1283</b>      | <b>1,00</b>       | <b>1283</b>                      | <b>378</b>                                     | <b>488</b>                                      | <b>759</b>                                           |
| <b>C2.3</b>               | <b>1,05</b>  | <b>P3</b>                                    | <b>945</b>       | <b>0,60</b>       | <b>567</b>                       | <b>359</b>                                     | <b>491</b>                                      | <b>693</b>                                           |
| <b>TOTALS</b>             | <b>14,40</b> |                                              |                  |                   | <b>7858</b>                      | <b>4629</b>                                    | <b>6505</b>                                     | <b>7776</b>                                          |