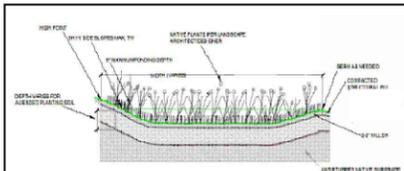


VICINITY MAP



- CONSTRUCTION STEPS:**
1. Locate rain garden(s) where downspouts or driveway runoff can enter garden flowing away from the home. Locate at least 10 feet from foundations, not within the public right of way, away from utility lines, not over septic tanks, and not near a steep slope.
 2. Measure the area draining to the planned garden and determine required rain garden surface area from the table on the next page and your planned excavation depth.
 3. Optionally, perform infiltration test, according to Appendix A. If the rate is less than 0.25 in/hr an underdrain will be necessary. If the rate is more than 0.50 in/hr the size of the garden may be decreased 20% for every 0.50 in/hr infiltration rate increase above 0.50 in/hr.
 4. Measure elevations and stake out the garden to the required dimensions ensuring positive flow into garden. The overflow elevation allows for six inches of ponding, and the perimeter of the garden is higher than the overflow point. If the garden is on a gentle slope a berm at least two feet wide can be constructed on the downhill side and/or the garden can be dug into the hillside taking greater care for erosion control at the garden linkage.
 5. Remove turf or other vegetation in the area of the rain garden. Excavate garden being careful not to compact soils in the bottom of the garden. Level bottom of garden as much as possible to maximize infiltration area.
 6. Mix compost, topsoil, and some of the excavated subsoil together to make the "amended soil". The soil mix should be 2/3 compost, 2/3 native soil (topsoil and subsoil combined).
 7. Fill rain garden with the amended soil, leaving the surface eight inches below your highest surrounding surface. Eight inches allows for 6 inches ponding and 2" of mulch. The surface of the rain garden should be as close to level as possible.
 8. Build a berm at the downhill edge and sides of the rain garden with the remaining subsoil. The top of the berm needs to be level, and set at the maximum ponding elevation.
 9. Plant the rain garden using a selection of plants from Appendix B as an option.
 10. Mulch the surface of the rain garden with two to three inches of non-floating organic mulch. The best choice is finely shredded hardwood mulch. Peatmulch is also an option.
 11. Water all plants thoroughly. As in any new garden or flower bed, regular watering will likely be needed to establish plants during the first growing season.
 12. During construction build the inlet feature as a pipe directly connected to a downspout or use a rock lined thistle with a gentle slope. Use of an impermeable liner under the rock at the end of the thistle near the house is recommended to keep water from soaking in at that point. Test the drainage of water from the source to the garden prior to finishing.
 13. Create an overflow at least 10 feet from your property edge and insure it is protected from erosion.

SKETCH LAYOUT
PROVIDE PLAN VIEWS OF RAIN GARDEN AND HOUSE SHOWING DRAINAGE AREA DIRECTED TO RAIN GARDEN AND KEY DIMENSIONS AND OVERFLOW AREA RELATIVE TO PROPERTY LINE.



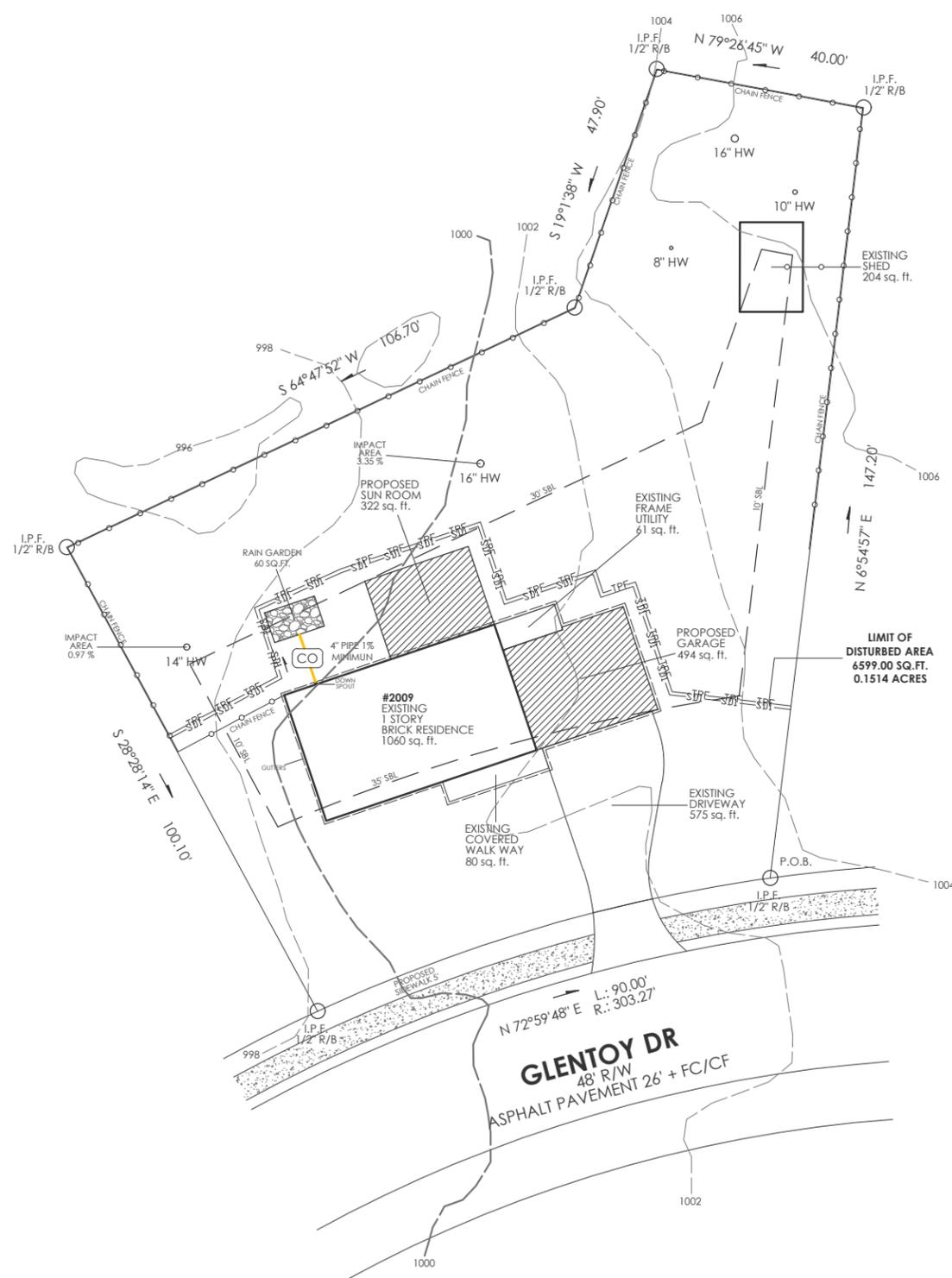
SIZING CALCULATION:

| Contributing Drainage Area (Square Feet) | Depth of Amended Soil (Inches) | 14 | 20 | 25 | 30 |
|--|--------------------------------|-----|-----|-----|-----|
| 500 | 14 | 15 | 20 | 25 | 30 |
| 1000 | 14 | 30 | 40 | 50 | 60 |
| 1500 | 14 | 45 | 60 | 75 | 90 |
| 2000 | 14 | 60 | 80 | 100 | 120 |
| 2500 | 14 | 75 | 100 | 125 | 150 |
| 3000 | 14 | 90 | 120 | 150 | 180 |
| 3500 | 14 | 105 | 140 | 175 | 210 |
| 4000 | 14 | 120 | 160 | 200 | 240 |
| 4500 | 14 | 135 | 180 | 225 | 270 |
| 5000 | 14 | 150 | 200 | 250 | 300 |

MEASURE CONTRIBUTING DRAINAGE AREA AND READ AREA FOR GIVEN MEDIA DEPTH.

CONTRIBUTING DRAINAGE AREA = 816 SQ FT
DEPTH OF SOIL MEDIA = 24 INCHES
AREA OF RAIN GARDEN = 60 SQ FT

- MAINTENANCE:**
1. IRRIGATE VEGETATION AS NEEDED IN FIRST SEASON
 2. REMOVE WEEDS
 3. REPLACE UNSUCCESSFUL PLANTINGS
 4. REPLENISH MULCH
 5. REPAIR ERODED AREAS
 6. RAKE CLOGGED SURFACE TO RESTORE INFILTRATION
 7. MONITOR RAIN GARDEN FOR APPROPRIATE DRAINAGE TIMES IF GARDEN DOES NOT DRAIN AN UNDERSOIL MAY BE NECESSARY



NO GRADING CHANGES

SITE DATA:

LOT AREA
15,347.92 sq.ft.
0.35 acres

ZONING: R-15
FRONT SETBACK = 35' FEET
SIDE SETBACK = 10' FEET
REAR SETBACK = 30' FEET

LOT COVERAGE AREA OF IMPERVIOUS SURFACE:

| | |
|---------------------------|-------------|
| EXISTING 1 STORY HOUSE: | 1060 SQ.FT. |
| EXISTING UTILITY FRAME: | 61 SQ.FT. |
| EXISTING COVERED WALKWAY: | 80 SQ.FT. |
| EXISTING DRIVEWAY: | 575 SQ.FT. |
| EXISTING SHED: | 204 SQ.FT. |
| PROPOSED GARAGE: | 494 SQ.FT. |
| PROPOSED SUN ROOM: | 322 SQ.FT. |

TOTAL IMPERVIOUS AREA: 2,796 SQ.FT.

LOT COVERAGE = 18.21 %



DATE: SEP 26, 2023
DRAWN BY: CG

SCALE: 1"=30'

| DATE | REVISION | No. |
|------|----------|-----|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

SITE PLAN
OWNER:
OEN RONALD R
2009 GLENROY DR., SMYRNA GA, 30080 2515
PARCEL # 17070400230
COBB COUNTY
DATE OF FIELD SURVEY 09/25/23 - DATE OF PLAT 09/26/23

CITY APPROVAL SIGNATURES:



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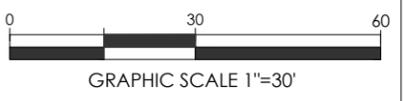
TOTAL AREA: 15,347.92 SQ.FT. - 0.35 ACRES

BOUNDARY REFERENCE:
FIELDWORK PERFORMED ON 09/26/2023

THIS MAP OR PLAT HAS BEEN CALCULATED FOR CLOSURE AND IS FOUND TO BE ACCURATE WITHIN ONE FOOT IN 125,256 FEET.

THIS PLAT HAS BEEN PREPARED USING A ROBOTIC TOTAL STATION.

THIS FIELD DATA UPON WHICH THIS PLAT IS BASED HAS A RELATIVE POSITIONAL ACCURACY OF 02 FEET.



- LEGEND**
- TPF — TREE PROTECTION FENCE
 - — — SET BACK LINE
 - RD — FROM ROOF DRAIN
 - SD1 — SILT PROTECTION FENCE
 - CRZ — CRITICAL ROOT ZONE
 - SRP — STRUCTURAL ROOT PLATE
 - T — TELECOMMUNICATIONS LINE
 - P — POWER LINE
 - SS — SS — SANITARY SEWER LINE
 - W — W — WATER LINE
 - P/T — TELECOMMUNICATIONS AND POWER LINE
 - — — CHAIN LINK FENCE
 - I.P.F. — IRON PIN FOUND
 - CMP — CORRUGATED METAL PIPE
 - RCP — REINFORCED CONCRETE PIPE
 - FH — FIRE HYDRANT
 - UP — UTILITY POLE
 - CP — CALCULATED POINT
 - POB — POINT OF BEGINNING
 - CO — CONSTRUCTION OUTLET
 - WM — WATER METER
 - CO — CLEAN OUT



INNOVA ENGINEERING
1 GLENLAKEPKWY NE
ATLANTA, GA 30328
770-828-9836

SHEET NUMBER:
S-1