



- NOTES**
- THIS MAP IS NOT A CERTIFIED SURVEY. BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY G.P.A. PROFESSIONAL LAND SURVEYORS.
  - THE UTILITIES SHOWN ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THIS PLAN. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONFLICTS BETWEEN EXISTING UTILITIES AND PROPOSED EXCAVATION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
  - PROVIDE MINIMUM OF 48 HOUR NOTICE TO OWNER OR REPRESENTATIVE PRIOR TO INTERSECTION OF ANY EXISTING UTILITY, IF BEING UTILIZED.
  - THE CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ANY UTILITIES DAMAGED DURING CONSTRUCTION. CONTRACTOR IS TO MAINTAIN UTILITY SERVICES, INCLUDING WATER, SANITARY SEWER, STORM SEWER, NATURAL GAS, ELECTRIC AND TELEPHONE AT ALL TIMES DURING CONSTRUCTION.
  - CONTRACTOR IS TO KEEP ALL PARKING AREAS, ALLEYS, AND STREETS ADJACENT TO THE CONSTRUCTION SITE CLEAN AT ALL TIMES DURING CONSTRUCTION.
  - CONTRACTOR SHALL ADJUST THE ELEVATION OF THE BRICKS AND COVERS OF ALL EXISTING UTILITIES WHICH ARE TO REMAIN AND ARE TO MATCH PROPOSED GRADES. CONTRACTOR SHALL ALSO MATCH AT GRADE UTILITIES TO FINAL PROJECT GRADES UNLESS OTHERWISE NOTED.
  - ALL SIGNS WITHIN THE LIMITS OF CONSTRUCTION MAY BE REMOVED AS NEEDED FOR THE CONSTRUCTION AND REPLACED AS SOON AS POSSIBLE. TEMPORARY PRESTAMPED SIGNS MAY BE NEEDED/REQUIRED DURING CONSTRUCTION.
  - SIGNING OF THE CONSTRUCTION AREA SHALL COMPLY WITH THE CURRENT "S.C. DOT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS". ALL SIGNAGE ON UNIFORM TRAFFIC CONTROL DEVICES WHICH ARE OWNED AND MAINTAINED BY THE S.C. DOT ARE TO REMAIN THROUGHOUT THE DEMOLITION AND CONSTRUCTION PHASES. ALL SIGNS WHICH NEED TO BE REMOVED ARE TO BE RELOCATED IMMEDIATELY.
  - CONTRACTOR TO SET UP TEMPORARY SEDIMENT CONTROL MEASURES BEFORE WORK COMMENCES. ALL TRAPS & BASINS SHALL BE INSPECTED DAILY (MONDAY THROUGH FRIDAY) FOR EXCESSIVE SILT. CONTRACTOR SHALL REMOVE EXCESSIVE SILT FROM THE TRAPS IMMEDIATELY BEFORE CONSTRUCTION COMMENCES ON THAT DAY. MAINTENANCE SHALL CONTINUE THROUGH PROJECT COMPLETION.
  - CONTRACTOR SHALL MAINTAIN ALL AREAS DISTURBED DURING CONSTRUCTION. FINAL DRESSING, SEEDING & MULCHING SHALL BE IN ACCORDANCE TO THE CONTRACT SPECIFICATIONS.
  - CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING NEAR ALL UNDERGROUND AND OVERHEAD UTILITIES.
  - HANDICAP SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH A.D.A. STANDARDS AT H/C PARKING SPACES SHOWN.
  - ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
  - THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS HAVE BEEN OBTAINED PRIOR TO CONSTRUCTION. THESE PERMITS AND APPROVALS MAY INCLUDE BUT ARE NOT LIMITED TO GRADING, DEMOLITION, ZONING, BUILDING, DRIVEWAY, DETENTION, SUBSTITUTION, SPECIAL USE, SEWER AND WATER.

- SEWER NOTES**
- ALL 8" PVC SANITARY SEWER IS TO BE 35 PVC SANITARY SEWER PIPE UNLESS NOTED OTHERWISE.
  - STATIONS SHOWN FOR SANITARY SEWER MANHOLE LOCATIONS IN ARE SEWER PROFILE.
  - ALL SANITARY SEWER SERVICES SHALL BE SCHEDULE 40 PVC.
  - STONE BEDDING IS REQUIRED FOR ALL SIZE 35 PVC SEWER PIPE.
  - ALL SEWER SERVICES ARE TO BE LOCATED AS SHOWN ON THE PLAN AND AT LEAST 5 FEET FROM ANY WATER SERVICE.
  - ALL CLEAN OUTS ARE TO BE LOCATED ON THE HOUSE SIDE OF THE SIDEWALK WHERE APPLICABLE.
  - PIPE DEFLECTION AT EACH JOINT IS NOT TO EXCEED PIPE MANUFACTURER'S RECOMMENDATIONS. WHERE REQUIRED DEFLECTION EXCEEDS THE RECOMMENDATIONS, MAKE THE DEFLECTION OVER MULTIPLE PIPE JOINTS TO MEET MANUFACTURER'S RECOMMENDATIONS.
  - CONTRACTOR SHALL NOTIFY TEGA CAY PUBLIC WORKS 24 HOURS PRIOR TO ANY SEWER TIES OR SEWER LINE RELOCATION.
  - SEWER LATERAL SERVICE LOCATIONS SHOULD BE MARKED WITH A "S" CUT INTO THE PROPOSED CURB.

- WATER NOTES**
- ALL NEW 4" OR LARGER WATER LINE SHALL BE C900 PC 150 PVC UNLESS NOTED OTHERWISE.
  - CONTRACTOR TO FIELD VERIFY SIZE AND TYPE OF EXISTING LINES AT THE POINTS PRIOR TO COMMENCING CONSTRUCTION AND NOTIFY THE ENGINEER IMMEDIATELY IF DISCREPANCIES OCCUR.
  - ALL SERVICES ARE TO BE LOCATED ON THE DOWNSTREAM SIDE OF THE LOT 8.33 FEET OFF LOT LINES 5.00 FEET FROM SEWER LATERAL UNLESS OTHERWISE INDICATED.
  - ALL SERVICES ARE TO BE LOCATED ON THE HOUSE SIDE OF SIDEWALKS WHERE APPLICABLE.
  - CONTRACTOR TO INSTALL 14 GAUGE SOLID COPPER TRACER WIRE FOR ALL PVC WATERLINES.
  - ALL DUCTILE IRON WATER PIPE SHALL HAVE MECHANICAL JOINT FITTINGS.
  - CONTRACTOR SHALL USE DUCTILE IRON PIPE AT ALL CROSS CROSSINGS.
  - WATER LINE SHALL BE DUCTILE IRON AT ALL SEWER CROSSINGS.
  - STUB OUT ASSEMBLIES ARE TO EXTEND TO 10 FEET BEYOND END OF PAVEMENT UNLESS NOTED OR INDICATED OTHERWISE.
  - WATER FITTINGS FOR SERVICES TO HAVE A WORKING PRESSURE OF 200 PSI OR GREATER.
  - PIPE DEFLECTION AT EACH JOINT IS NOT TO EXCEED PIPE MANUFACTURER'S RECOMMENDATIONS. WHERE REQUIRED DEFLECTION EXCEEDS THE RECOMMENDATIONS, MAKE THE DEFLECTION OVER MULTIPLE PIPE JOINTS TO MEET MANUFACTURER'S RECOMMENDATIONS.
  - CONTRACTOR IS TO ENSURE THAT ALL AIR RELEASE VALVES ARE SET AT THE HIGHEST ELEVATION POINTS ON THE WATERLINE.
  - MAINTAIN 12" MINIMUM CLEARANCE BETWEEN WATER & STORM DRAIN PIPES. ALL WATERLINES CROSSING STORM MUST HAVE A 20' LENGTH OF DI WATER PIPE CENTERED AT THE STORM DRAINAGE CROSSINGS.
  - CONTRACTOR SHALL NOTIFY TEGA CAY AND SDCOT 24 HOURS PRIOR TO ANY CONNECTIONS TO CITY WATERLINE ARE MADE. A TEGA CAY REPRESENTATIVE SHALL BE PRESENT WHEN TAPPING TO EXISTING WATER LINES.
  - ALL PROPOSED FIRE HYDRANTS MUST BE PAINTED WHITE.
  - WATER METER SERVICE LOCATIONS SHOULD BE MARKED WITH A "M" CUT INTO THE PROPOSED CURB.
  - WATER VALVE LOCATIONS SHOULD BE MARKED WITH A "V" CUT INTO THE PROPOSED CURB.

**LEGEND**

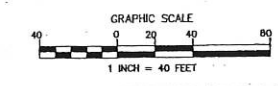
SS	EXISTING SANITARY SEWER LINE	SS	PROPOSED SANITARY SEWER LINE
W	EXISTING WATER LINE	W	PROPOSED WATER LINE
SD	EXISTING STORM DRAINAGE PIPE	SD	PROPOSED STORM DRAINAGE PIPE
CB	EXISTING CATCH BASIN	CB	PROPOSED CATCH BASIN
CS	EXISTING SAN. SEWER MH	CS	PROPOSED JUNCTION BOX
UP	EXISTING UTILITY POLE	UP	PROPOSED SANITARY SEWER MANHOLE
WV	EXISTING WATER VALVE	WV	PROPOSED 4" SEWER LATERAL
FD	EXISTING FIRE HYDRANT	FD	PROPOSED WATER VALVE
GL	EXISTING GAS LINE	FD	PROPOSED FIRE HYDRANT
UCE	EXISTING UNDERGROUND ELECTRIC		

**UTILITY NOTE**

THE CONTRACTOR SHALL PROVIDE SUBMITTAL DATA TO THE CITY FOR ALL MATERIALS TO BE USED TO CONSTRUCT THE UTILITY INFRASTRUCTURE. THE SUBMITTALS AT A MINIMUM SHALL INCLUDE PIPE, VALVES, FITTINGS, VAULTS, WATER SERVICE CONNECTION MATERIALS AND OTHER SPECIALTY ITEMS.



**FINAL DRAWING**  
FOR REVIEW PURPOSES ONLY  
LAKE SHORE ON LAKE WILHE  
POD MP-1-BRACH CLUB TOWNHOMES  
TEGA CAY, SOUTH CAROLINA



NO.	BY	DATE	REVISION
1	JSC	6/14/05	TEGA CAY, SCHEM COMMENTS
2	AMM	7/26/05	TEGA CAY COMMENTS

**UTILITY PLAN**

Project No. 04/05/05  
**ISAACS**  
 CIVIL ENGINEERING DESIGN AND LAND SURVEYING  
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