

# WOODSIDE HEIGHTS WASTEWATER RETROFIT

## LEON COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING

### 2280 MICCOSUKEE ROAD TALLAHASSEE, FLORIDA

### COUNTY PROJECT BC 03-17-11-25

APPROVED

PERMIT NO. LEM1700071  
DATE 12/5/2017

Approved By: Nawfal Ezzagaghi 12/5/2017

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**INCLUDED IN PLANS BY REFERENCE:**

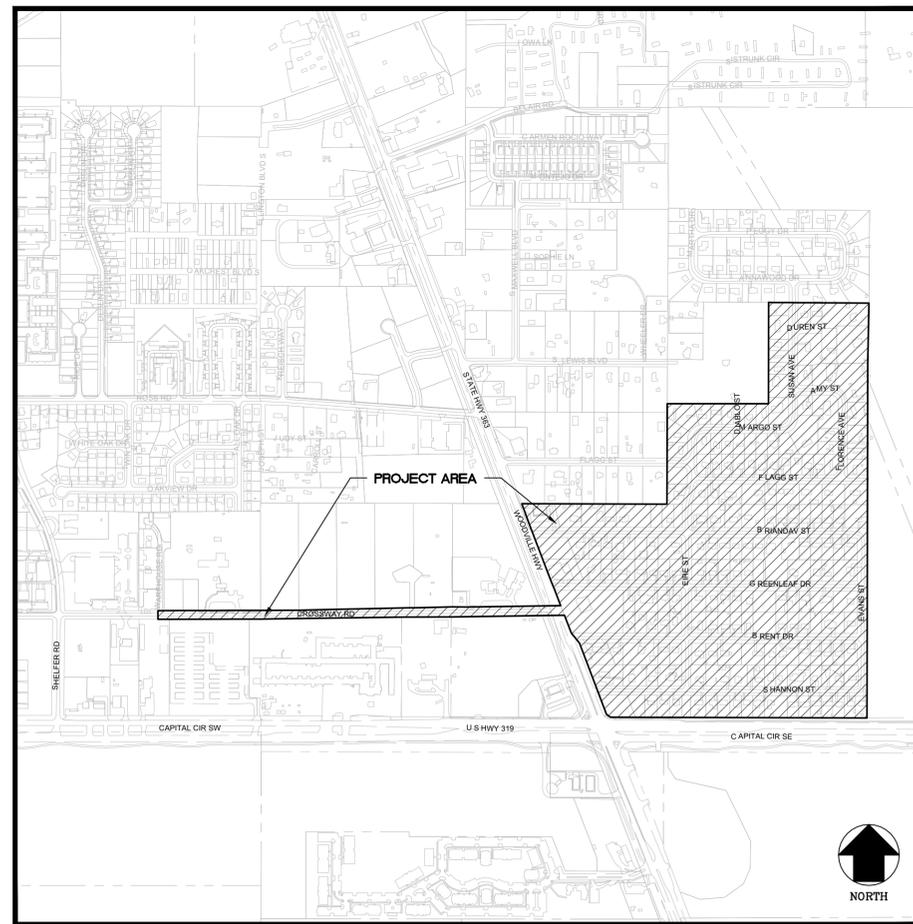
Report of Geotechnical Investigation, Woodside Heights Wastewater Retrofit, Dated April 2017 (18-139-16-02) and Final Report of Geotechnical Investigation, Pump Station, Dated October 2017 (18-139-16-02B) by Environmental and Geotechnical Specialists, Inc.

Florida Department of Transportation Design Standards, Current Edition

Manual on Uniform Traffic Control Devices (MUTCD)

Standard Specifications for Road and Bridge Construction, Current Edition

City of Tallahassee Standard Specifications for the Design and Construction of Water and Wastewater Facilities, Current Edition



**LOCATION MAP**

1" = 600'

EXHIBIT A

**COMMISSIONERS:**

WILLIAM C. PROCTOR, JR.  
DISTRICT 1

JIMBO JACKSON  
DISTRICT 2

JOHN E. DAILEY  
DISTRICT 3

BRYAN DESLOGE  
DISTRICT 4

KRISTIN DOZIER  
DISTRICT 5

MARY ANN LINDLEY  
AT LARGE

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COUNTY ADMINISTRATOR

TONY PARK  
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**PREPARED BY:**



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License Number: 38670  
**DATE: 11/28/2017**

WOODSIDE HEIGHTS WASTEWATER RETROFIT LCP3-043

FINAL CONSTRUCTION PLANS

General Notes:

Measurement and Payment

Measurement and Payment for all work performed under the Contract will be in accordance with the City of Tallahassee Pay Item Manual for Water and Sewer Construction and the Contract Documents. No payment will be made to the Contractor for additional quantities and/or work performed that is not included in the Bid Form of the Contract without written approval by the County.

Warranty

When repairs are required within the two year warranty period, the Contractor must first make all necessary repairs, then patch the affected area in accordance with the jurisdictional agency's requirements, and then mill and resurface the FULL ROAD WIDTH with 1-inch thick SP-9.5 asphalt to a minimum distance of 25-feet each direction from the pavement cuts, or as required by the roadway's jurisdictional agency.

Governing Specifications and Jurisdiction

Governing specifications for construction of wastewater (sanitary) collection facilities & water main on this project are the City of Tallahassee (COT) Technical Specifications for Water and Sewer Construction, current edition. The Contractor may access and download the COT Technical Specifications from the following Internet URL: http://www.talgov.com/you/documents.aspx

Requirements not specifically covered by the governing specifications above may be covered by plan notes or special provisions, and all such requirements are considered as part of the Contract.

Work may be subject to regulatory permitting and oversight by the City of Tallahassee Underground Utilities and Public Infrastructure Department, Leon County Public Works Department, Leon County Development Support and Environmental Management Department, Florida Department of Transportation, or other jurisdictional agency. The FDOT standards and specifications are herein adopted by reference. The Contractor may be required to obtain additional permits prior to beginning construction. The Contractor will obtain copies of all applicable permits and be bound by the conditions and provisions of each permit, and will perform all work in accordance with the requirements of the permits as part of the Contract. No separate payment will be made for this Work.

Environmental Management System (EMS)

The Contractor is required to follow all rules and regulations established by EMS (Environmental Management System) documents as well as any other pertinent rules and regulations that relate to the project. The City of Tallahassee Underground Utilities Environmental Policy Statement and a Contractor's informational brochure are available at http://www.talgov.com/you/documents.aspx

Phased Projects

In a phased project, each phase must be capable of stand-alone operation for utility service. All utility items must meet requirements as if the phase was the only project (no items will be left to complete with a later phase).

Preconstruction Activities

- 1. Prior to scheduling the preconstruction meeting, designate and secure all federal, state, and local permits for areas that will be used for staging and storage of construction equipment and materials. A copy of these permits must be provided to the City's utility inspector, Growth Management environmental inspector, and or Leon County Development Support and Environmental Management at, or prior to, the preconstruction meeting.
2. Preconstruction meetings will not be scheduled until the City's inspector has been in receipt of the final approved Plans and AutoCAD design drawings for at least five working days.
3. A preconstruction meeting is required prior to development activities commencing with the County environmental inspector, contractor, site supervisor and contractor's certified arborist to discuss sediment and erosion control and the arborist mitigation plan.
4. Obtain subsurface exploration for the work to be performed. Any geotechnical or other subsurface (i.e. groundwater, pavement profile, existing utility, etc.) information provided in the Construction Documents is supplied as a courtesy to the Contractor and shall not be construed as being representative conditions for the project.
5. Prior to establishing temporary water utilities required for construction, said water utilities must pass bacteriological tests before making connections.
6. Any changes or any other deviations from the approved drawings due to field conditions must be approved by the City and the governing authority having jurisdiction prior to being constructed.

Construction Stakeout

- 1. Set all survey grade stakes, lines, and levels for the construction of the sewer collection system in accordance with the design and survey information provided on the Plans.
2. Preserve all property corners and monuments shown on the drawings or found during construction. If a property corner or monument is destroyed or disturbed, the Contractor will have it replaced and certified by a Professional Surveyor and Mapper registered in the State of Florida. All costs for preserving, replacing and certifying property corners and monuments will be incidental to other work items.
3. Any national geodetic survey monument within the limits of construction must be protected. If in danger of damage, immediately notify the City/County and:
FDEP, Bureau of Survey and Mapping, MS 105
3900 Commonwealth Blvd
Tallahassee, FL 32399
(850)245-2606 (Office)
(850)245-2645 (Fax)
(850)294-3072 (Cell)

Sequence of Work

- 1. Coordinate the sequence of work and disposal of materials so as not to interfere with the operations of other contractors engaged in adjacent work in accordance with the spirit of the Contract Documents.
2. Submit a base Construction Schedule, Dewatering Plan, Wastewater Management Plan and Temporary Traffic Control (TTC) plan for review and approval by the County Inspection Manager and regulating authority at least one week prior to the preconstruction conference. No work will begin prior to approval of the construction schedule.
3. The construction schedule is to describe in detail how the construction will be phased, establish start and finish dates for all significant construction activities, and identify all controlling items of work. The schedule is to be approved by the County, and will be updated on a monthly basis to reflect actual work progress. The updated schedule will be submitted to the County no later than three business days prior to each scheduled monthly progress meeting.

Dewatering

If a dewatering plan is required, it shall detail the measures to be employed to lower the groundwater table and/or to divert surface water during excavation and construction including the installation and maintenance of all devices to be used during each phase of construction to control erosion and the transportation of eroded materials off site. Unfiltered dewatering is not permitted. It is the Contractor's responsibility to take all necessary precautions during all dewatering operations to minimize sediment transfer, and ensure that all dewatering activities adhere to all local, state and federal regulations.

Trench Safety

Comply with all OSHA Trench Safety requirements. Sheeting and bracing shall be adequate to prevent cave-in of trench walls, subsidence of areas adjacent to the trench, damage to utilities, and sloughing of the base of the excavation due to water seepage. It is the Contractor's responsibility for the adequacy of any sheeting and bracing.

General Construction Considerations

- 1. If prehistoric or historic artifacts, such as pottery or ceramics, projectile points, dugout canoes, metal implements, historic building materials, or any other physical remains that could be associated with Native American, early European, or American settlements are encountered at any time within the project site area, the permitted project shall cease all activities involving subsurface disturbance in the immediate vicinity of the discovery. The applicant shall contact the Florida Department of State, Division of Historical Resources, Compliance Review Section at (850) 245-6333. Project activities shall not resume without verbal and/or written authorization.
2. It is the intent to maintain access to properties at all times, unless otherwise stated. Put forth every reasonable effort to minimize disruption and disturbance of adjacent properties. Any interruption of access must be coordinated with the affected property owners/tenants.
3. The Contractor is not permitted to store vehicles, equipment or materials within the limits of public rights-of-way, unless otherwise stated.
4. Do not operate heavy equipment in close proximity to buildings or other structures such that displacement or other damage may occur to that structure.
5. When a mailbox in conflict with construction is removed, furnish and install a new mailbox in kind and maintain access to the mailbox throughout the contract period. The location and construction of mailboxes will conform to the rules and regulations of the United States Postal Service. Where an existing mailbox meets the rules and regulations and is functionally sound, the Contractor may reuse the existing mailbox in lieu of constructing a new mailbox as approved by the County. A temporary mailbox must be provided for each mailbox that is removed until a new mailbox is installed.

- No separate payment will be made for the removal and installation of mailboxes or for furnishing temporary mailboxes. The cost shall be incidental to other pay items.
6. No modifications, planned or unplanned, to existing utility systems will be allowed without approved plans and a City utility inspector on site to witness the modifications. Violation of this obligation may require that the Contractor replace all modified components with new components (i.e., bored manhole will be replaced with new manhole; tapped line will be replaced with 20 feet of line to either side of tap, or similar replacements). In addition to the new replacements, fines may be imposed for each violation to cover the cost of additional engineering and inspection services.
7. Maintain the driving surface throughout the construction duration to the satisfaction of the City/County Inspector. Trench subsidence or patch failures shall be remedied immediately upon notification by the City/County. All costs associated with the maintenance of the travel way (both vehicular and pedestrian) are the responsibility of the Contractor.
8. Saw-cut existing concrete and asphaltic concrete driveways and sidewalks as required for construction and replace in kind. Paved driveways and sidewalks will be picked up and re-laid or repaired to match existing. Driveways and sidewalk routes must be repaired promptly to minimize impacts to businesses and residents, and to maintain pedestrian access throughout the project limits.
9. Pavement outside the limits of construction that is damaged by construction activities is to be saw-cut and removed to the limits, as determined by the County or jurisdictional agency, and replaced in accordance with the typical section for pavement reconstruction set forth by the jurisdictional agency.

Erosion, Sedimentation Control and Tree Protection (Arboricultural Mitigation):

- 1. Erosion and sedimentation controls are required prior to the commencement of development activities to avoid the release of sediments beyond the work limits. These controls should be continually monitored and evaluated for their effectiveness through all phases of construction. As construction progresses, adjustments, and/or additional measures may be required by the County environmental inspector to prevent direct flow or tracking of sediments onto adjacent property, conservation areas, public streets, or drainage systems. Any sediments, gravel or mud spilled, dropped, washed, or tracked from vehicles onto adjacent property, roadways, or into storm drainage systems shall be recovered and cleaned up immediately. More stringent sediment and erosion control measures may be required, during any phase of development, at the discretion of Leon County's Environmental Inspector.
2. The Contractor shall ensure that a foreman or supervisor who has been certified under Florida Stormwater, Erosion and Sedimentation Control Inspector training program is available in person or by phone at all times during the construction activities. The Contractor shall designate that person or persons at the pre-construction meeting and that person or persons must attend the pre-construction meeting. Until such time as the contractor has designated an inspector, the Stormwater Management Control Officer shall be:
Tom Brantley, MSCE, PE, PLS, CGC, CUC
Chief of Building Engineering
Engineering Services Division
c/o Leon County Public Works
2280 Miccosukee Road
Tallahassee, FL 32308
(850)606-1551 (Office)
(850)606-1501 (Fax)
(850)509-1772 (Cell)

- 3. Street flooding is not to be introduced as a result of the erosion control protection. Safety of the traveling public, as related to the adequacy of the driving surface as a result of standing stormwater runoff, is the responsibility of the Contractor.
4. It is the Contractor's responsibility to maintain a clean work zone to prevent the release of sediments into stormwater collection systems and to limit the tracking of materials beyond the active work limits. The Contractor is required to mechanically sweep the active construction limits a minimum of once weekly. Such sweeping shall be completed to remove sediments and like materials from the corridor. Manual sweeping is required at the end of each workday. Additional or more frequent sweeping may be required by the County Inspector.
5. Trench spoil and stockpiled backfill materials must be placed to avoid deposition within stormwater facilities. The removal of deposited materials within stormwater facilities is the requirement of the Contractor. The removal of such material shall be coordinated with the County Environmental Inspector by the Contractor.
6. All excavated materials that cannot be used as backfill shall be removed from the project and disposed in accordance with the jurisdictional agency's requirements.
7. The Contractor is responsible for the protection of all trees and landscaping within the project limits, as well as trees on adjacent properties that may be damaged by construction, and will be solely liable for said damage. Any tree-related penalties, imposed by the jurisdictional agency or property owner for the trees that are shown to be protected or outside the project limits, shall be paid by the Contractor. No trenching or excavation shall be allowed within the CPZ of protected trees, except where debits have been noted on plans or mitigation has been performed. Tree mitigation techniques shall be in compliance with the requirements contained in the Tallahassee Land Development Code Section 5-83/Leon County Land Development Code Section 10-4-363. Specifically, the following minimum tree impact mitigation practices are required:

- a. If roots 3" in diameter and larger are present during trenching and excavation, root pruning shall be required. All root removal shall be limited to the least extent possible as directed on site by the Contractor's Certified Arborist. All root pruning shall be done immediately upon exposure of tree roots, cleanly cut with a handsaw, and covered immediately with soil or kept moistened with wet burlap or peat moss until the trench can be filled. When it is not possible to backfill the same day, the roots shall be recut with a handsaw a reasonable distance from the original cut and backfilled immediately to avoid soil or root dehydration. All encountered roots shall be treated as appropriate (as determined by the Contractor's Arborist).
b. Tree mitigation should begin prior to construction activities and tree protection barriers installed immediately after to prevent further root and soil compaction resulting from vehicular traffic, equipment storage or material stockpiling. Tree protection barriers shall be installed at the furthest extent of construction within the CPZ of each tree to be protected and remain in place until all construction activity has been completed and the contractor's certified arborist has completed final evaluation.
c. Where excavation machinery is required to operate within the CPZ of existing trees or any appendage of the machinery comes in contact with the tree during excavation, a tree barricade shall be incorporated. The type of barricade to be constructed, when construction development occurs in close proximity to a tree, is a girthing structure of vertical boards to be placed around the trunk, so as to protect the tree bark. All tree and girthing protection barricades are to be installed prior to initiation of any construction activity and are to remain in place until all construction activities are completed.
d. Under no circumstances shall any vehicle, construction material or fill material be stored within the CPZ of existing trees.
e. If overhead tree limbs are intruding into the proposed work area and may be injured by machinery or trucking maneuvers, the Contractor's Certified Arborist shall be required to be on site for proper removal of said tree limbs.
f. These procedures may be required, all or in part, by the City/County Environmental Inspector/Certified Arborist or variations thereof and are not limited to those listed herein.
g. The Contractor shall not enter onto private property to accomplish tree protection without specific instruction by the City/County to do so.
h. These measures will be considered as arboricultural mitigation, allowing construction to proceed without accruing debits.
8. The plans, at a minimum, show all trees protected by ordinance. The actual clearing requirements may include trees/vegetation not depicted on the plans.
9. All disturbed areas, except for areas that are landscaped, paved, or otherwise designated, are to be sodded. Existing grassed areas that are disturbed will be sodded with the same grass type as existing, unless otherwise directed by the engineer. Centipede sod will be used for all disturbed areas not currently grassed.

Maintenance of Traffic

- 1. Submit a Temporary Traffic Control Plan (TTC) for approval by the County and/or the agency with jurisdiction of the roadway (i.e. FDOT, Leon County Public Work Department, or the City of Tallahassee Traffic Engineering office) prior to any construction activity commencing. THE TTC SHALL RECEIVE APPROVAL FROM UNDERGROUND UTILITIES PRIOR TO SUBMITTAL TO THE ROADWAY AUTHORITIES.
2. During street closures, provide ingress and egress to all properties within the closed street segment and provide business entrance signs to route motorists to designated parking areas. For those properties with multiple driveways, only one driveway may be closed at any one time. Access to businesses throughout construction shall be maintained at all times during business hours.
3. Existing signs that conflict with the traffic control plan shall be temporarily removed, stored, and reinstalled; or temporarily covered as directed by the County. Additionally, the Contractor is responsible for maintenance and removal of existing pavement markings required for implementation of the proposed TTC plan (e.g. parking lines, lane lines, etc.)
4. Provide temporary pavement markings during construction, as needed to re-open lanes.
5. Failure to secure approval for the TTC plan shall not be cause for a claim for additional compensation or contract time. Adhere to the requirements set forth in the Manual of Uniform Traffic Control Devices (MUTCD), current edition; the FDOT Design Standards (series 600 indices), current edition; and the information provided in the Contract Documents.
7. Properly implement the TTC plan and additional measures to safely manage traffic if required by the County and/or agency with jurisdiction of the roadway; or as required due to unforeseen field conditions. Prepare additional measures (plans) not covered in the plans or specifications using the guidelines set forth by the agency with jurisdiction. All TTC revisions must be approved by the County and the agency with jurisdiction.
8. No trenches will be allowed to remain open after working hours. The Contractor shall schedule their work so that restoration is completed in accordance with the pavement restoration details and associated notes by the end of each workday. Failure of the Contractor to complete pavement restoration by the end of each workday will result in the County reducing the number of work hours and shall not be cause for a claim for additional compensation or an extension of contract duration
9. All lanes shall remain open during inactive work times, unless otherwise stated in the plans. Street and lane closures

- shall be active during active work periods only. For all street closures and their affected side streets, Type III barricades with flashing lights shall be placed in the active street closure work zones in accordance with the MUTCD, current edition.
10. Lane widths for maintenance of traffic during a lane closure should desirably be equal to lane widths of the existing street, but not less than ten feet wide. For operations with one lane closed, confine work operations to one travel lane, leaving the opposing travel lane open to traffic. In this situation, all vehicles, equipment, workers (except flaggers) and their activities are restricted at all times to one side of the roadway.
11. Reopen all lanes to normal traffic within 12 hours during an evacuation notice of a hurricane or any other catastrophic event and they shall remain open for the duration of the evacuation or event as directed by the City.
12. Flaggers, if utilized, shall be in sight of each other or in direct communication at all times. Flaggers shall wear an FDOT approved safety vest at all times. ANSI/ISEA 107-1999 Class 2 apparel high-visibility traffic vests are required for all workers within 15 feet of the edge of travel. ANSI/ISEA Class 3 apparel is required for all nighttime activities. (This information must be clearly marked on the inside of the traffic vests).
13. Sidewalk detours or diversions shall be in accordance with the MUTCD, current edition
14. The following agencies must be notified (by the Contractor) prior to executing detours and street/lane closures:
a. Leon County Public Works, (850) 606-1500
b. Leon County Community and Media Relations Department, (850) 606-5300 or CMR\_TEAM@LEONCOUNTYFL.GOV
c. Leon County Environmental Inspector, (850) 606-1300
d. Leon County Emergency Services, (ambulance service) (850) 921-0900
e. Leon County Sheriff's Office, (850) 922-3300
f. Leon County School Board Transportation, (850) 488-2636
g. City of Tallahassee Public Information Office, (850) 891-8533
h. City of Tallahassee Police Department, (850) 891-4200
i. City of Tallahassee Fire Department, (850) 891-4310
j. City of Tallahassee Public Works Operations Division, (850) 891-5300
k. City of Tallahassee Star Metro Admin, (850) 891-5200 (select 2) or dispatch (850) 891-5212
l. Tallahassee Democrat, (850) 599-2176
m. Florida Department of Transportation (850) 922-7900 - ask for permitting department (when applicable).
n. Florida Highway Patrol, (850) 245-7700 wait on-line for duty officer or shift commander.
15. At least seven working days prior to each detour or closure of streets/lanes, inform by letter those organizations that are listed by the County (in addition to the agencies listed above). Said letter must provide the necessary details of the nature of the closures and must be approved by the County and/or jurisdictional agency before release to said agencies. Local residents and businesses shall also be notified via meetings, door hanger or mail by the Contractor. All correspondence shall be approved by the County prior to release.
16. On a daily basis, the Contractor shall cover, turn away from traffic or lay down all non-applicable signage and remove all barricades and detour signs that are not active. The following work day the Contractor shall uncover and restore all barricades and required signage as needed. The Contractor is responsible for reviewing and maintaining the maintenance of traffic plan on a daily basis.
17. Post-mount all signs when work operations exceed one day except as noted in the FDOT Design Standards. When vehicles in a parking zone block the line of sight to Traffic Control Zone (TCZ) signs, or when TCZ signs encroach on a normal pedestrian walkway, locate the post-mount sign in accordance with FDOT Design Standards.

Utility Location and Protection

- 1. Locate and protect all utilities. The information shown on the Drawings concerning size, type, and location of underground and other utilities is based on information provided by the utility owners, available records, and field survey information. The information may not reflect actual conditions, include all utilities in the area, either in service or abandoned, or show the utilities in the correct horizontal or vertical locations. The Contractor will make their own determination as to size, type, and location of existing utilities as necessary to avoid damage from proposed work activities.
2. The following utilities should be contacted for information concerning type and locations of their facilities. The list may not include all utilities in the area.
a. Sunshine State One-Call Florida 800-432-4770 (5 days prior notification)
b. City of Tallahassee/Electrical Division 850-891-5167 (Ray Mitchell)(2 weeks prior notification)
c. City of Tallahassee/Power Distribution 850-694-8221 (Tina Drose, tina.drose@talgov.com)
850-891-5105 (Kenton James, kenton.james@talgov.com)
80-694-8220 (Paul DeFrank, Paul.DeFrank@talgov.com)
850-694-8406 (Jimmy Abbott, jimmy.abbott@talgov.com;
850-694-8405 (Sam Ameen, sam.ameen@talgov.com)
e. City of Tallahassee/Water Division 850-694-8006 (Jarrod Whitaker)
f. City of Tallahassee/Sewer Division 850-694-8006 (Jarrod Whitaker)
g. City of Tallahassee/Utility Division 850-599-1479 (Davis Poole, david.c.poole@centurylink.com)
h. Comcast (Cable Television) 850-881-4346 (Bradley Bailey, bradley\_bailey@comcast.com)
i. CenturyLink (Telephone & Fiber) 850-599-1479 (Davis Poole, david.c.poole@centurylink.com)
j. AT&T (Fiber Optic Cable) 813-888-8300 (Gary Baggett - Mobile - 727-723-4430)
k. Southern Light (Fiber Optic Cable) 251-269-5129 (Jason Weiler, jweiler@silfiber.com)
l. Level 3 Communications 904-349-6944 (Michael Hedding, michael.hedding@level3.com;
Michael Nunez, michael.nunez@level3.com)
m. Florida Gas Transmission 850-350-5307 (Huie Lee - Mobile - 850-544-6379)
n. Talquin Electric 850-562-2119 (Nate Hogan)
o. All utilities (mains and services) within the limits of construction are the responsibility of the Contractor until such time as the system(s) is deemed accepted by the City. The Contractor will be notified of acceptance in writing after the City receives approved as-built drawings. The Contractor is liable for any damages to the utility systems caused by the installation of any other utilities. Prior to acceptance, provide all field utility locations in accordance with utility location standards as established by the American Public Works Association.
3. Caution: The Contractor is advised that underground gas, electrical distribution, and communication facilities may be present throughout the work limits.
4. Existing COT-owned potable water, reclaimed water, wastewater collection, and gas facilities shall remain in-place unless otherwise designated in the Plans to be removed.
5. If construction requires utility poles to be temporarily held/stabilized, the contractor is responsible for the coordination with the utility provider and payment of all applicable fees and charges.
6. Repair or replace at Contractor's own expense, any service laterals, valves, mains, force mains, fire hydrants, or other COT-owned potable water, wastewater, or gas facilities that are damaged by the Contractor's activities.
7. Prior to any scheduled interruption of utility service, the Contractor will coordinate such interruptions with the utility provider and will provide a minimum 24-hour notice to the affected parties. In the case of a water main shut down, a minimum 24-hour notice also will be provided to the Tallahassee Fire Department.
8. Support all existing active utility mains that cross construction trenches to prevent joint separation and damage to said mains. The responsibility for the adequacy of any required support systems belongs to the Contractor. The cost of utility support systems is considered incidental to the pay items in the Contract for utility pipe. No separate payment will be made for this Work.
9. The Contractor is responsible for all means, methods, equipment, labor, supervision, and materials necessary to drain, transport, pump, and/or otherwise dispose of any residual wastewater contained in existing or new gravity sewers and force mains in accordance with the Wastewater Management Plan.
10. In the event that wastewater flow diversion is needed on this project to complete piping modifications, the Contractor will be required to physically staff the flow diversion equipment 24 hours a day, 7 days a week until the flow diversion is no longer needed. The cost for staffing the flow diversion equipment shall be considered incidental to the Contractor unit prices for utility pipe and no separate payment will be made for this Work, unless specifically noted otherwise.

Gas Mains

- 1. Notify the City Gas Utility a minimum of two working days prior to any excavation in the vicinity of gas mains, as required by Chapter 77-153 of the Florida Statutes. A Gas Department inspector will be on site when work activities take place near gas mains.
2. The Contractor is responsible for any damage to existing gas facilities by said contractor or designers.
3. The Contractor is responsible for adjusting all gas valve boxes to finish grade during the pavement restoration activities.
4. Notify the City Gas Department immediately if any gas main is nicked, scratched, cut or otherwise damaged so that repairs can be made promptly by, or at the direction of, the Gas Department.

Potable Water Mains

- 1. Potable water service will be maintained to residences and businesses at all times, except during the transfer of services.
2. The transfer of water services shall be scheduled for the hours between 9:00 a.m. and 4:00 p.m., and shall be completed without delay to limit customer inconveniences.
3. Keep fire hydrants operable and accessible at all times. Do not place equipment or materials within 15 feet of any fire hydrant. Fire hydrants taken out-of-service shall be covered with bags, or as directed by the City's Inspector, to clearly indicate that the hydrant is inoperable. The Contractor shall report out of service hydrants to the City Inspector for notification to the Fire Department dispatch center.
4. Do not cut, cap, or plug existing looped public potable water mains without the prior approval of the City.
5. Install new meter settings to the rights-of-way lines (unless otherwise noted) and test any back flow devices and/or pressure reducing valves and connect to the customers' plumbing.
6. There shall be no meter boxes located in swales, under down spouts, next to condensate drains or any other similar situation that may fill the box with water and/or mud. No standing water will be allowed in meter boxes.

Wastewater Mains

- 1. Maintain wastewater collection service to all customers at all times. Provide wastewater flow diversion, as needed, to maintain continuous sanitary sewer service during construction. Wastewater flow diversion may consist of by-pass pumping, pumps, trucks and transportation; or any other method approved by the City. The cost is incidental to pay items for new sanitary sewer structures and piping.
2. Dispose of sanitary sewer structures and piping, which are removed to construct new sanitary sewer facilities. The cost is incidental to pay items for new sanitary structures and piping.
3. Existing sanitary sewer piping and structures that are designated on the plans to be placed out-of-service (in place) shall be plugged at inflow and effluent ends with masonry plugs unless otherwise noted. Existing structures shall be removed three feet below finished grade and filled with excavatable flowable fill. The cost is incidental to pay items for new sanitary sewer structures and piping.
4. Sanitary sewer laterals that are to be constructed may be installed by open-cut, pipe bursting or other techniques acceptable to the City, unless otherwise specified. The bid price shall be full compensation for such installations. Pipe bursting requires pre and post construction TV inspections.

Pump Station and Force Mains

- 1. All electrical improvements shall be completed in accordance with the Contract Documents. The Contractor is responsible for coordinating, furnishing and installing all electrical improvements, including but not limited to the service drop and pole, SCADA pole, meter set and appurtenances.
2. Adjust to final grade all sewer valve boxes, and air relief valve vaults/manholes within the limits of construction.

Project Close-Out

In addition to the documents for Contract close-out and final payment required by the City's Management and Administration Department, provide the following documents and/or verification to the City's construction inspection manager for review and approval before final payment is authorized:

- 1. All sewer deficiencies, including structural damage, deflections, debris, sand, sediment, and/or infiltration discovered during the Closed Circuit TV (CCTV) inspections are repaired. The sewer line will be CCTV inspected after any repairs to determine if the deficiencies are corrected.
2. All manholes are inspected before final CCTV inspection of the sewers. Manholes are cleaned, with all plugs removed and rain dishes installed (when required).
3. All manholes and valve boxes are raised to their finish elevations with asphalt in place. All manholes and valve boxes must be raised before the final CCTV inspection of the sewer, which must be completed before the sewer is placed into service.
4. All services shall be staked and have an EMS locating device placed in accordance with the Technical Specifications and a Letter of Acceptance has been issued by the City Utility.
5. Copies of all testing results, including all compaction density, and other required tests in technical with the Contract.
6. Complete restoration of all roadways (including striping, signage, signals, lighting, etc.), sidewalks, driveways, landscaping, easements, staging areas, and/or any other areas disturbed by the Contractor during construction, or due to construction activities.
7. All required permit documentation, including Arborist Certification, NPDES Notice of Termination, or other documents as required by jurisdictional agencies.
8. All easements recorded and verified, when applicable.
9. All required documentation (including as-built drawings and CAD files) must be received by the City's inspection manager before requesting utility service and before a final acceptance letter will be issued. All as-built drawing preparation shall be incidental to performance of the total contract and no additional compensation will be allowed.

Project Specific Notes

- 1. The improvements under this Contract consist of the installation of wastewater mains, water mains, pavement patching, pavement and bore replacement, a pump station and force main, and related items as identified in the Contract documents.
2. Workday: Perform all work between 7:00 a.m. and 6:00 p.m., Monday thru Saturday. No work shall be performed on days of home FFL/FAFL football or spring football game weekends, holidays (New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day), during special events (graduation, homecoming, etc.), during evacuation activities, or other occasions requiring full use of the roadway. Road or lane closures will be limited to short sections of roadway to reduce the overall impact to the traveling public and businesses. The County/City reserves the right to limit the Contractor's work and/or lane closure hours at any time during the project duration from those hours identified within these documents. The Contractor agrees to make no claim for additional compensation as a result of this decision by the County/City. However, the Contractor may be entitled to an extension of time for such acts by the County/City, only for the number of days which the County/City determines to be due to such acts. The Contractor shall abide by the work hours or more restrictive hours imposed by approved temporary traffic control plans.
3. Survey data included in the Contract Documents was provided by Nobles Consulting Group, Inc. Horizontal control is based upon Florida North State Plane Coordinates (NAD 83). Vertical Control is based on NAVD 88.
4. Erosion control measures depicted in the Plans are limited to GEOSYNTHETIC CHECK STRUCTURES and inlet protection.
5. Contractor is responsible to replace all stop bar striping following roadway reconstruction.
6. Contractor is responsible to have a Certified Arborist on-site to give direction regarding root pruning or other mitigation measures whenever work is to occur within the critical protection zone (CPZ) of any tree 12" DBH or larger. Contractor is responsible to implement measures as directed.
7. Furnish and install project signs at locations to be determined by the Engineer. Each sign will be a double column ground sign of durable material approximately 36 by 48 inches in size, and will contain the project name, construction cost, and the names and telephone numbers of the Owner, and the Contractor. The Engineer will approve the contents of the signs prior to placement. Remove the signs upon completion of the work. All costs for furnishing, placing, maintaining, and removing the signs will be included in the costs for mobilization.
8. The cost for the adjustment to sewer manholes to accommodate the paving operations are included in the cost to furnish and install the manholes. No separate payment shall be made.
9. The cost for adjusting water, sewer, gas and stormwater manholes, valve covers and other structures is included in the payment for the Roadway Resurfacing pay item.
10. Contractor is responsible to provide smooth transition between existing paved driveways and new edge of pavement. Transition shall match material of existing driveway.
11. These plans are referred to as Woodside Heights Wastewater Retrofit Lot Utility Service Maps. Refer to Lot Utility Service Maps (6 sets) for all work on private property.
12. Contractor is responsible to erect signs or variable message boards at 812 Brent and 813 Greenleaf (County Park) a minimum of two weeks prior to closing the Park to the public. Signs shall warn of closure of the Park with the beginning date of closure. Contractor is responsible to return all disturbed areas within the park to "as good or better condition" than that existing prior to the park's use as a staging area. It is the Contractor's responsibility to document condition of the park prior to commencement of any staging activities.
13. Contractor is responsible to obtain as-built plans (record drawings) signed/sealed by a Florida Licensed Land Surveyor. A Stormwater Operating Permit and a compliance certificate signed/sealed by a Florida licensed Professional Engineer are required to be submitted to the Director at least 20 days prior to the request for final inspection. Contractor is responsible to provide as-builts to Engineer and request compliance certificate immediately upon completion of items being requested for final inspection.
14. Dewatering plans shall be submitted to, and approved by, the County Environmental Inspector prior to any dewatering activities that may be required. Contractor is responsible to contact County Inspector to review dewatering plans.
15. Karst activity is not anticipated. However, Contractor is responsible to contact the following parties immediately upon detection of any karst activity in the area of construction.
a. Tom Brantley, MSCE, PE, PLS, CGC, CUC Project Manager, Leon County Public Works 850-606-1551
b. Leon County Environmental Inspector 850-606-1300
c. David Hutcheson, PE Engineer of Record 850-224-4400

Soil Reuse

Based on the soils data collected during this Geotechnical Investigation, EGS anticipates the existing soils encountered will be suitable for use as backfill. However, soils encountered during construction may differ from the conditions presented at the boring locations identified herein. Removal and reuse of materials encountered should be in accordance with the COT Technical Specifications for Water and Sewer Construction, as noted in the plans.
Groundwater Impact and Control
As previously noted, groundwater was not encountered during this subsurface investigation. Based on the depth of the proposed pipe shown on the Conceptual Plans, EGS does not anticipate groundwater will be encountered during construction of the pipeline. However, as previously noted, clayey fine sand (A-2-6) material was encountered around elevation 28 feet at the location of Soil Boring SS-9 and the pump station. Due to the high fines content and low permeability, EGS cautions surface water from precipitation or construction may "pond" in open excavations made below EL 30 feet.

CONSTRUCTION CONSIDERATIONS

As previously mentioned, existing structures are in close proximity to planned construction throughout the project limits. EGS believes that construction efforts expected for this project, such as vibrations caused by dynamic compaction of pipe subgrade and backfill soils, may cause adverse impacts to these adjacent structures. Therefore, EGS recommends consideration be given to precluding use of heavy vibratory equipment on this project.

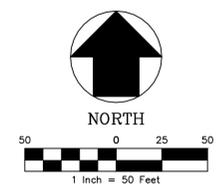
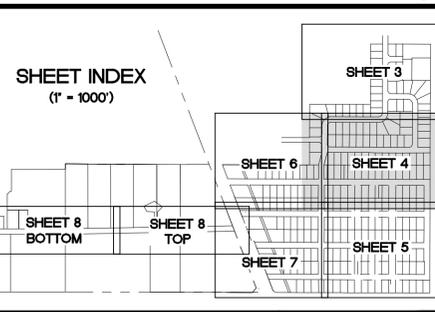
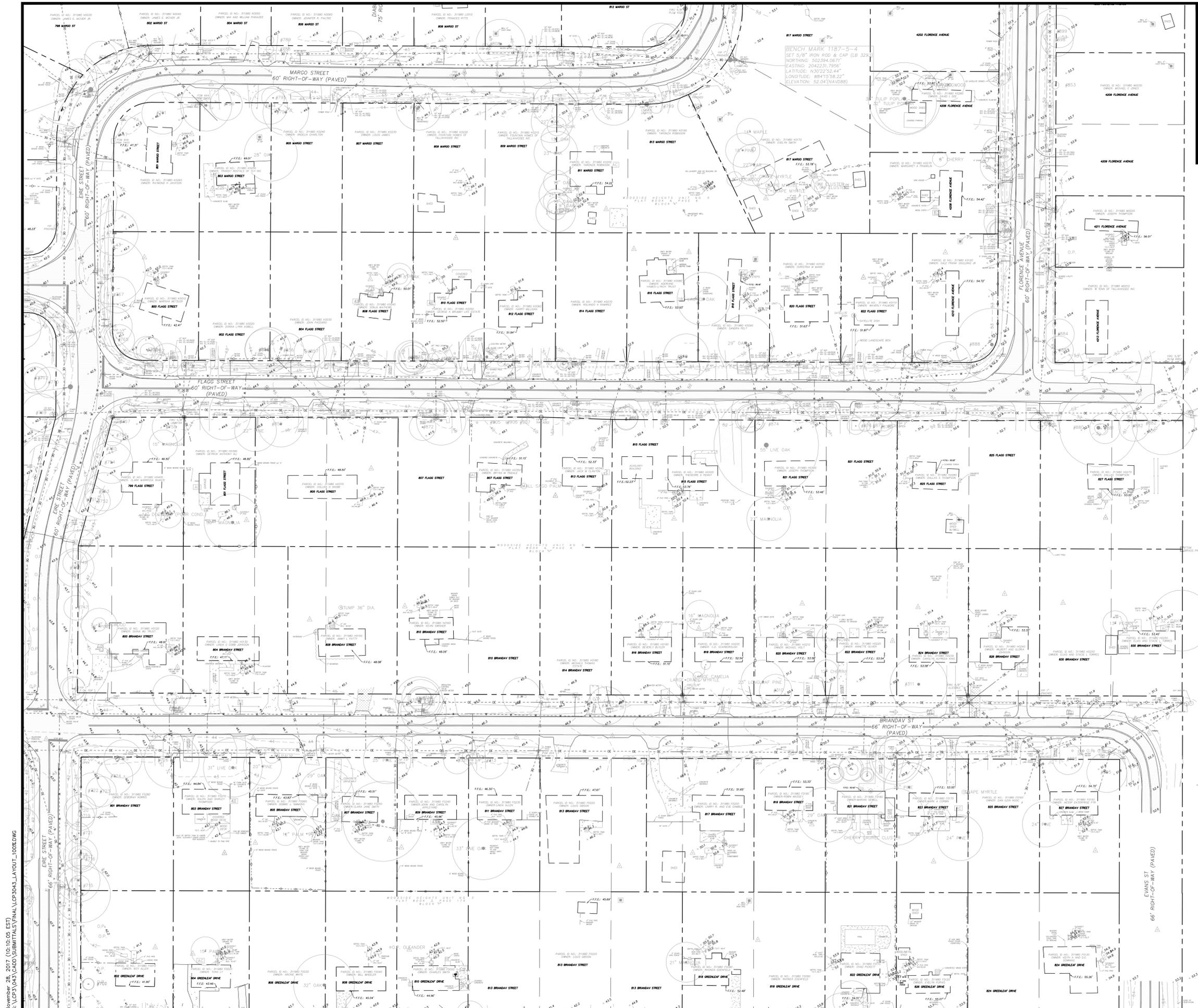
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DESIGNED BY: D.W.H.
DRAWN BY: AD /SR
SCALE:
David W. Hutcheson, P.E.
License Number 38670

GENESIS logo with text: GGL LLC dba GENESIS, 2507 CALLAWAY ROAD, SUITE 100, TALLAHASSEE, FLORIDA 32303, (850) 224-4400, (850) 681-3600 FAX, FL CA 000959660 FL LC 26000202. LEON COUNTY PUBLIC WORKS logo.

GENERAL NOTES, WOODSIDE HEIGHTS WASTEWATER RETROFIT, LEON COUNTY PUBLIC WORKS logo, SHEET NUMBER 2.





NO.	DATE	DESCRIPTION	CHECKED BY:	REVISIONS
			D.W.H.	C.S.B.
			AD/ SR	1" = 50'

PROJECT NUMBER  
**LCP3-043**

DATE  
**11/28/17**

DESIGNED BY:  
**D.W.H.**

DRAWN BY:  
**AD/ SR**

David W. Hutchison, P.E.  
License Number 38670

PREPARED BY

**GENESIS**  
FROM VISION TO REALITY

2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
(850) 224-4400 (850) 681-3600 FAX  
FL CA 000095660 FL LC 26000202

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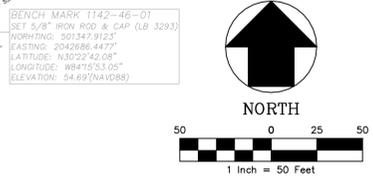
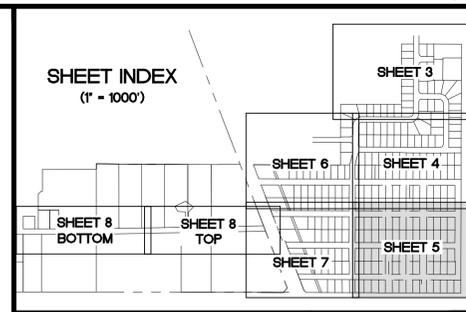
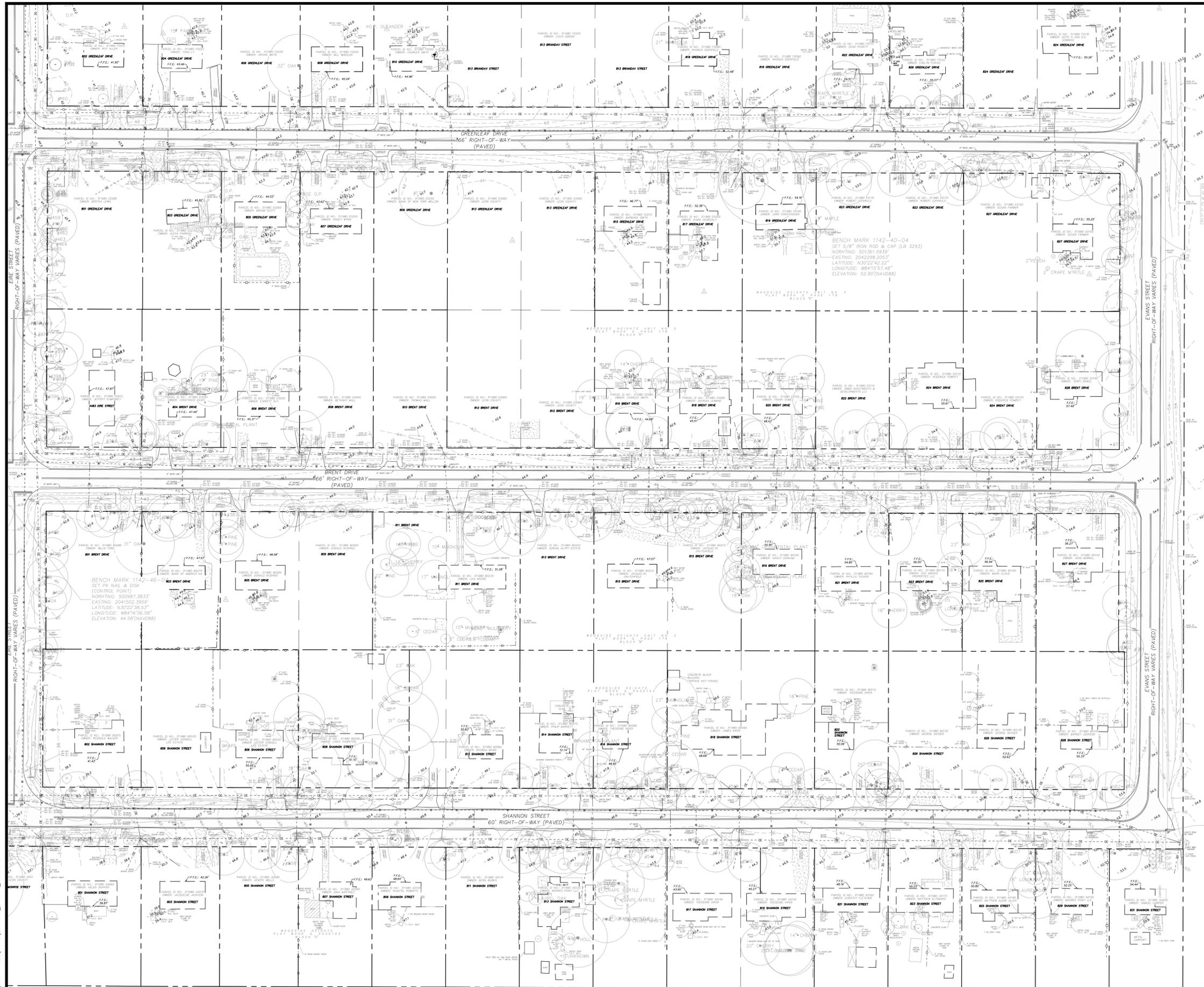
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PROJECT NAME  
**WOODSIDE HEIGHTS  
WASTEWATER RETROFIT**

SHEET NUMBER  
**4**

FINAL CONSTRUCTION PLANS

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 SET 5.8' FROM R22 & CAP (LR 3293)  
 NORTHING: 501347.9123  
 EASTING: 204288.4477  
 LATITUDE: N32°22'42.22"  
 LONGITUDE: W84°15'57.48"  
 ELEVATION: 54.69 (NAVD88)

BENCH MARK 1142-40-04  
 SET 5.8' FROM R22 & CAP (LR 3293)  
 NORTHING: 501361.5839  
 EASTING: 204299.2053  
 LATITUDE: N32°22'42.22"  
 LONGITUDE: W84°15'57.48"  
 ELEVATION: 52.90 (NAVD88)

BENCH MARK 1142-40-06  
 SET 5.8' FROM R22 & CAP (LR 3293)  
 NORTHING: 502842.9137  
 EASTING: 204268.8467  
 LATITUDE: N32°22'38.15"  
 LONGITUDE: W84°15'53.04"  
 ELEVATION: 54.68 (NAVD88)

CAPITAL CIRCLE SOUTHEAST  
 STATE ROAD NO. 263  
 RIGHT-OF-WAY VARIES (PAVED)

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NO.	DATE	DESCRIPTION	REVISIONS

DESIGNED BY: D.W.H.  
 CHECKED BY: C.S.B.  
 PROJECT NUMBER: LCP3-043  
 DRAWN BY: AD /SR  
 SCALE: 1" = 50'  
 DATE: 11/28/17

David W. Hutchinson, P.E.  
 License Number 38670

PREPARED BY: GGL LLC dba GENESIS  
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 TALLAHASSEE, FLORIDA 32303  
 (850) 224-4400 (850) 681-3600 FAX  
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LEON COUNTY  
**PUBLIC WORKS**

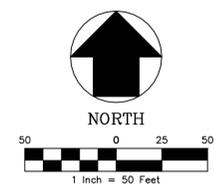
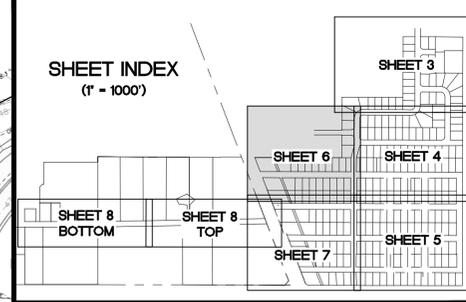
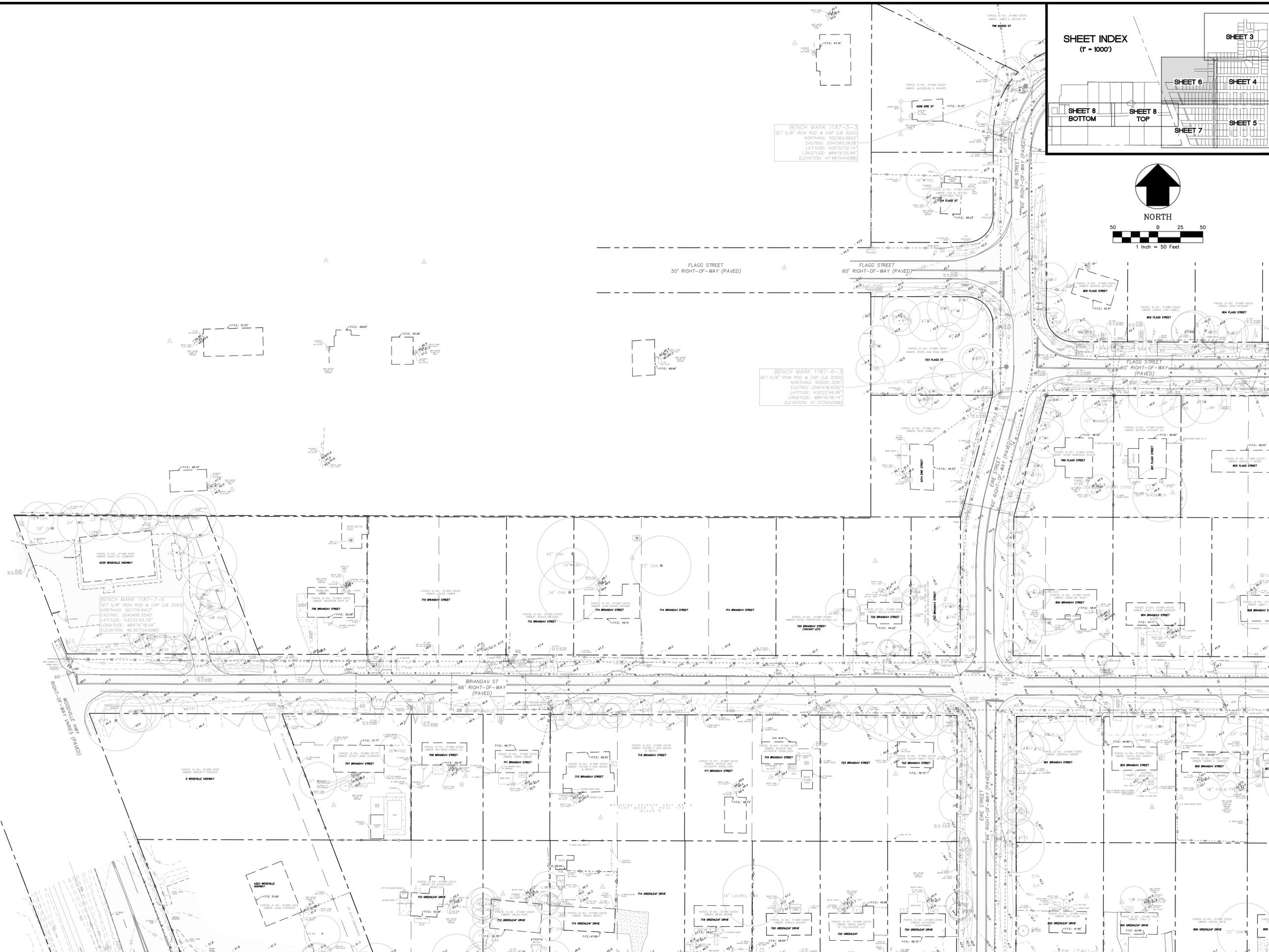
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PROJECT NAME: **WOODSIDE HEIGHTS WASTEWATER RETROFIT**

SHEET NUMBER: **5**

FINAL CONSTRUCTION PLANS

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NO.	DATE	DESCRIPTION	REVISIONS
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DRAWN BY:	AD / SR	SCALE:	1" = 50'
PROJECT NUMBER		LCP3-043	
DATE		11/28/17	

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License Number 38670

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2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
(850) 224-4400 (850) 681-3600 FAX  
FL CA 000095660 FL LC 26000202

LEON COUNTY  
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PREPARED FOR

**EXISTING CONDITIONS  
MAP**

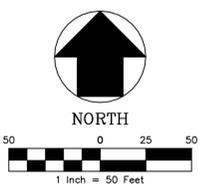
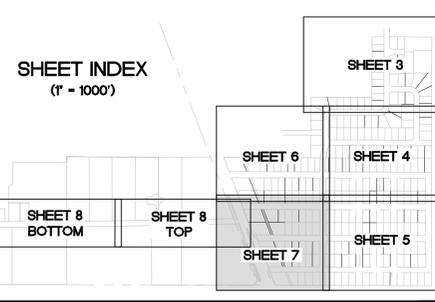
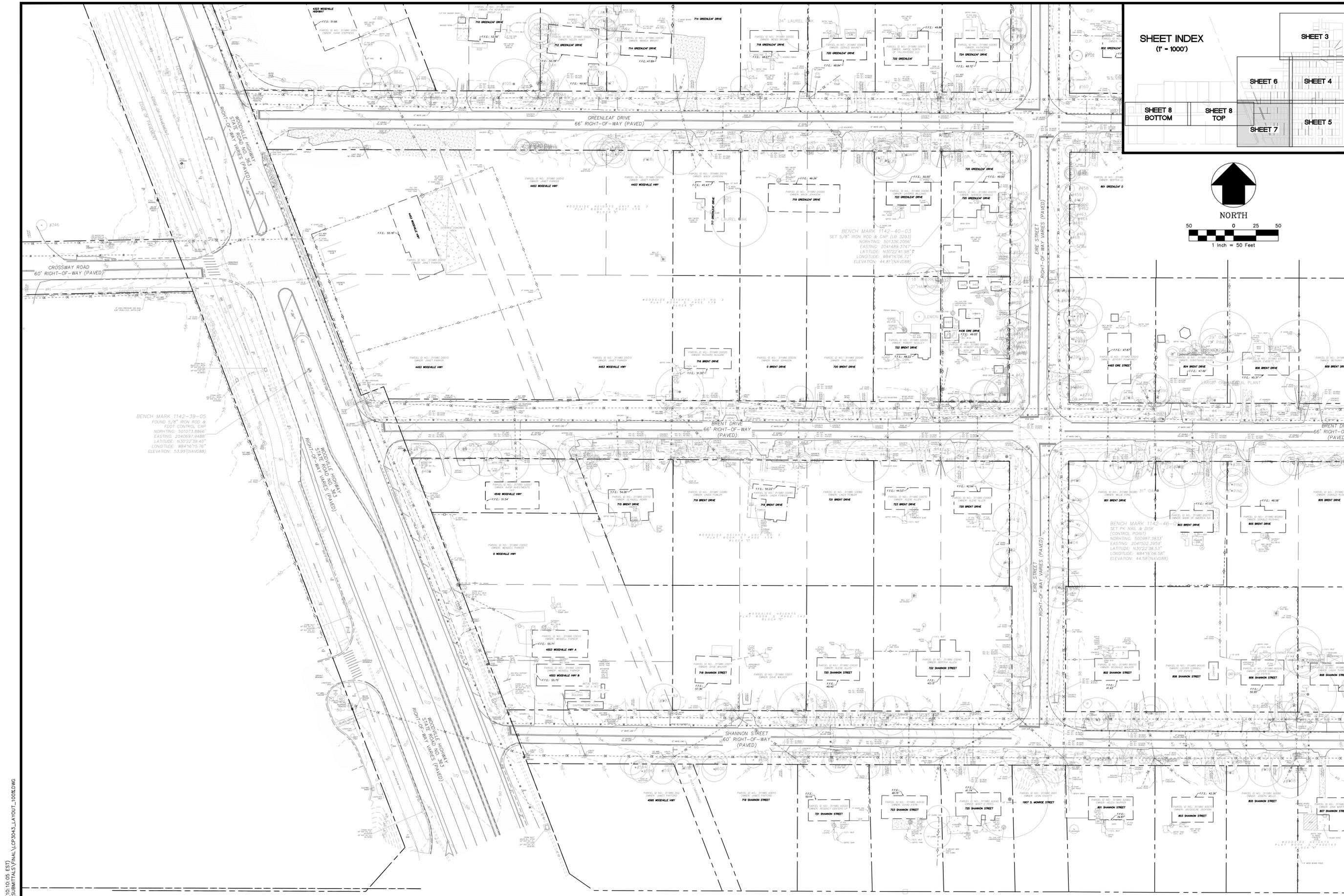
**WOODSIDE HEIGHTS  
WASTEWATER RETROFIT**

FINAL CONSTRUCTION PLANS

SHEET TITLE

SHEET NUMBER

**6**



BENCH MARK 1142-39-05  
FOUND 5/8" IRON ROD &  
FOOT CONTROL CAP  
NORTHING: 501073.8866'  
EASTING: 2040697.9488'  
LATITUDE: N32°22'39.40"  
LONGITUDE: W84°16'15.76"  
ELEVATION: 53.99'(NAVD88)

BENCH MARK 1142-40-03  
SET 5/8" IRON ROD & CAP (LB 3293)  
NORTHING: 501336.2056'  
EASTING: 2041469.3747'  
LATITUDE: N30°22'41.98"  
LONGITUDE: W84°16'06.72"  
ELEVATION: 44.81'(NAVD88)

BENCH MARK 1142-46-03  
SET 1/2" IRON ROD & DISK  
(CONTROL POINT)  
NORTHING: 500987.3833'  
EASTING: 2041502.3059'  
LATITUDE: N30°22'38.53"  
LONGITUDE: W84°16'06.56"  
ELEVATION: 44.58'(NAVD88)

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PROJECT NUMBER: LCP3-043  
DATE: 11/28/17  
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SCALE: 1" = 50'

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License Number 38670

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2507 CALLAWAY ROAD, SUITE 100  
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FL CA 000095660 FL LC 2-6000202

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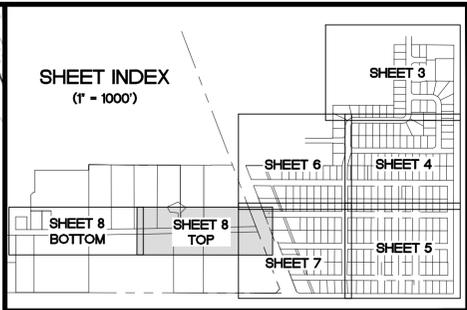
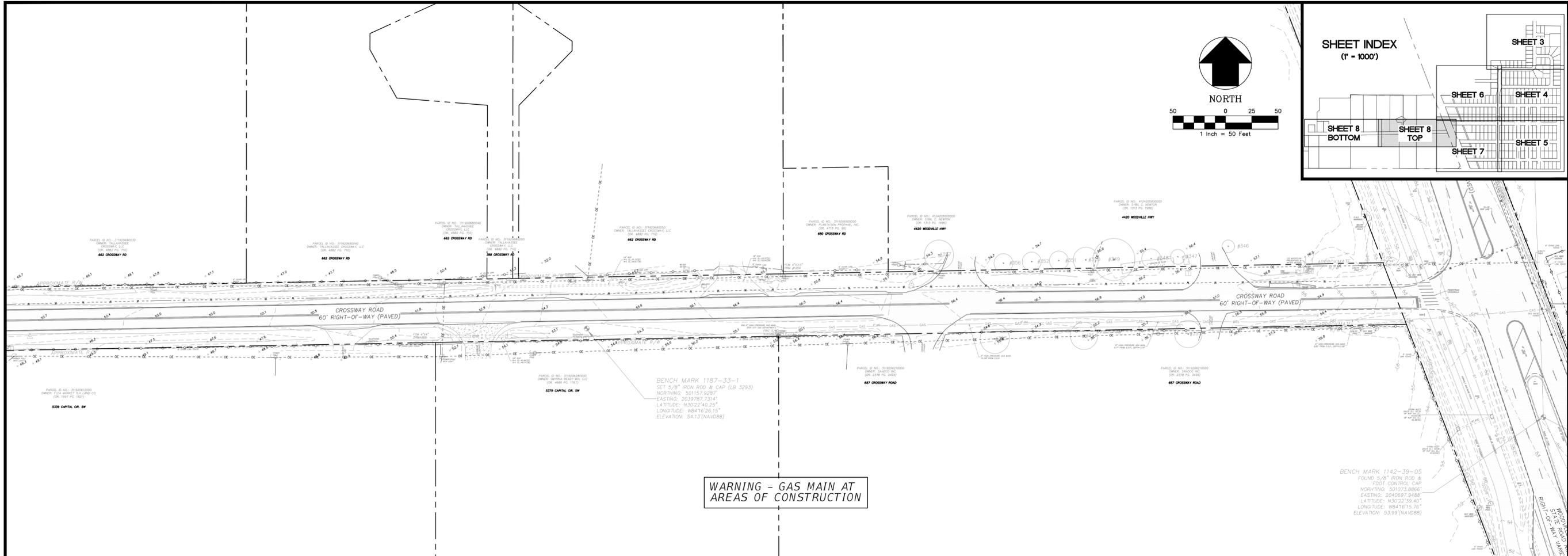
PROJECT NAME: **WOODSIDE HEIGHTS WASTEWATER RETROFIT**

FINAL CONSTRUCTION PLANS

PREPARED FOR: LEON COUNTY PUBLIC WORKS

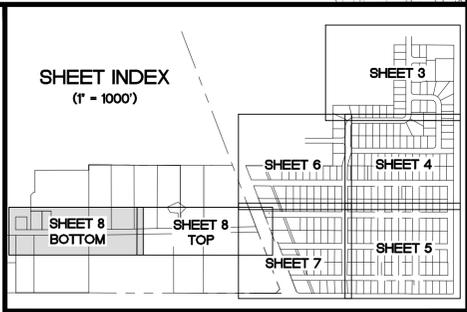
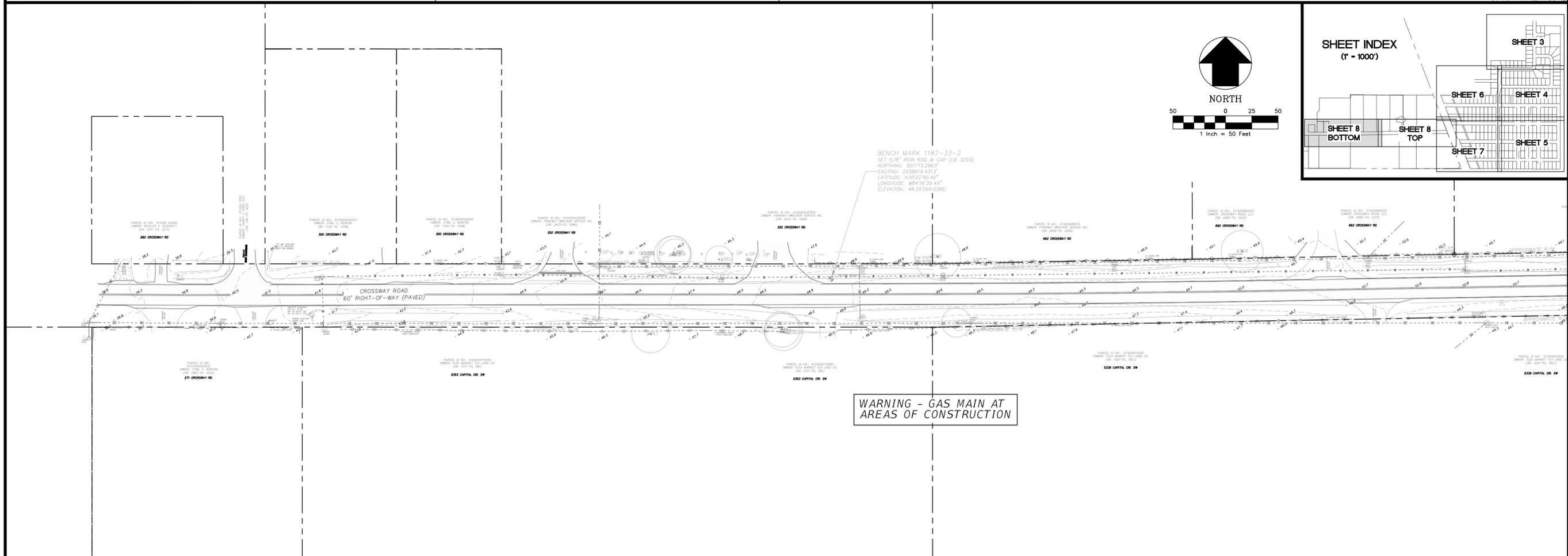
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CAPITAL CIRCLE SOUTHEAST  
STATE ROAD NO. 263  
RIGHT-OF-WAY VARIES (PAVED)



NO.	DATE	DESCRIPTION	CHECKED BY:	REVISIONS
DESIGNED BY:	D.W.H.			
PROJECT NUMBER:	LCP3-043			
DATE:	11/28/17			
SCALE:	1" = 50'			
DRAWN BY:	AD / SR			

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License Number 38670



GGI, LLC dba GENESIS  
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(850) 224-4400 (850) 681-3600 FAX  
FL CA 000095660 FL LC 26000202

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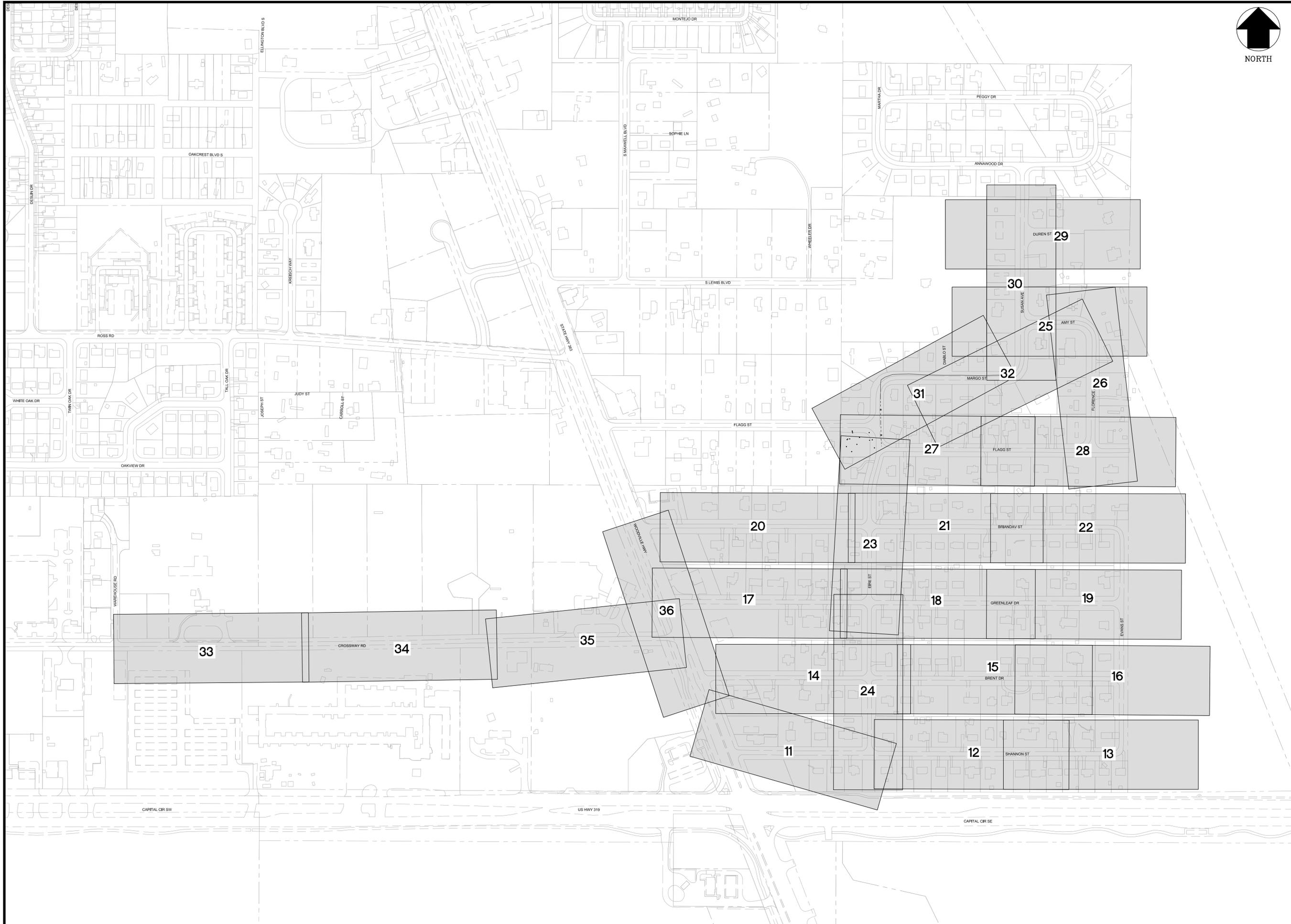
**EXISTING CONDITIONS MAP**

PROJECT NAME: **WOODSIDE HEIGHTS WASTEWATER RETROFIT**

FINAL CONSTRUCTION PLANS

SHEET NUMBER: **8**





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DRAWN BY:	AD / SR			1" = 200'
PROJECT NUMBER	LCP3-043		DATE	11/28/17

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 David W. Hutchison, P.E.  
 License Number 36870

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**GENESIS**  
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 FL CA 000095660 FL LC 2-6000202

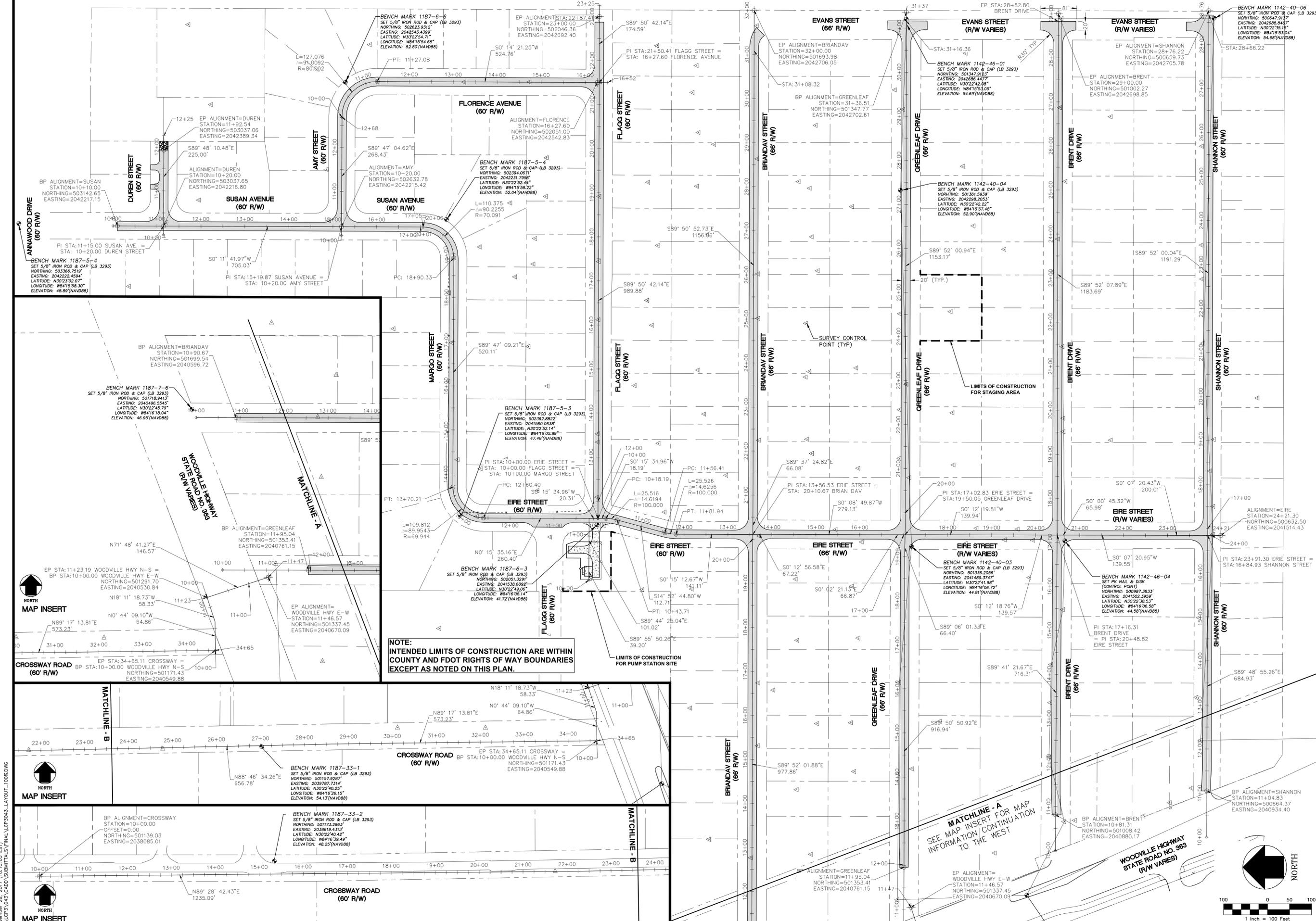
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**PUBLIC WORKS**

SHEET TITLE  
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**WOODSIDE HEIGHTS WASTEWATER RETROFIT**

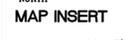
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PROJECT NAME  
**WOODSIDE HEIGHTS WASTEWATER RETROFIT**

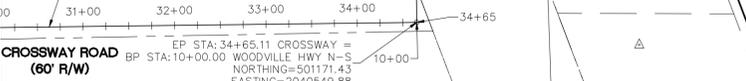
FINAL CONSTRUCTION PLANS



**NOTE:**  
 INTENDED LIMITS OF CONSTRUCTION ARE WITHIN COUNTY AND FDOT RIGHTS OF WAY BOUNDARIES EXCEPT AS NOTED ON THIS PLAN.



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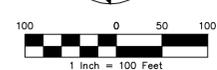
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PROJECT NUMBER: LCP3-043  
 DATE: 11/28/17  
 SCALE: 1" = 100'  
 DRAWN BY: AD /SR  
 CHECKED BY: C.S.B.  
 David W. Hutchison, P.E.  
 License Number 38670

GGL LLC dba GENESIS  
 2507 CALLAWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
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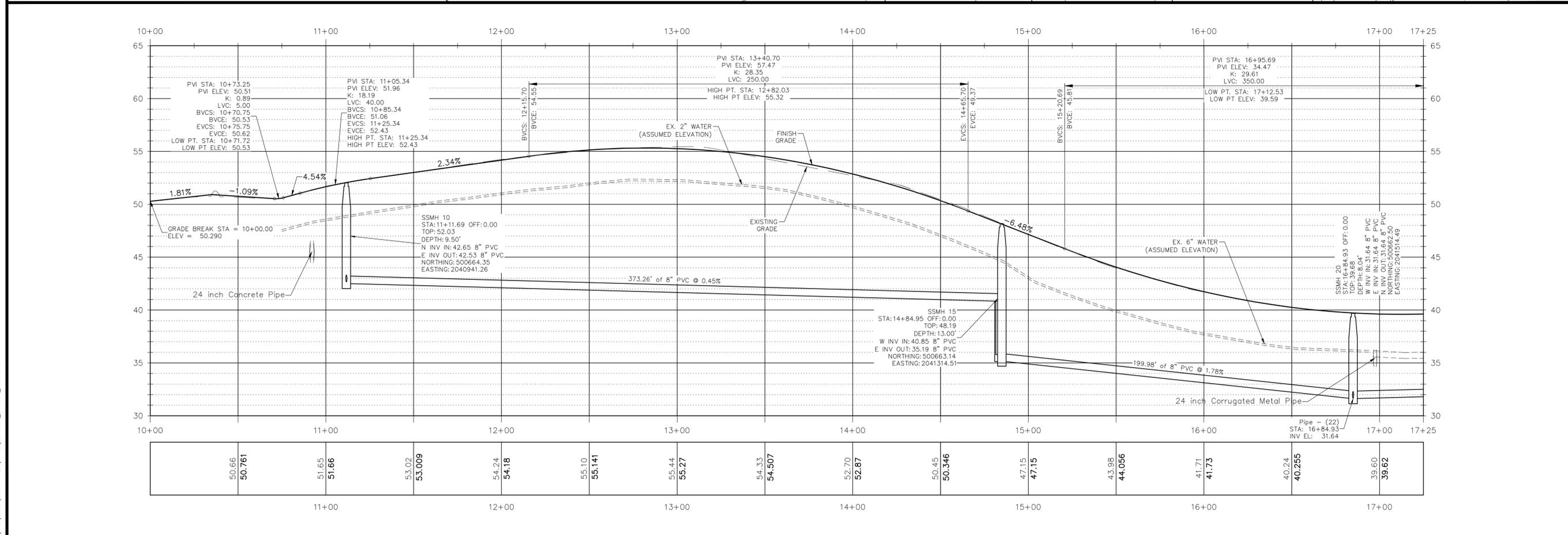
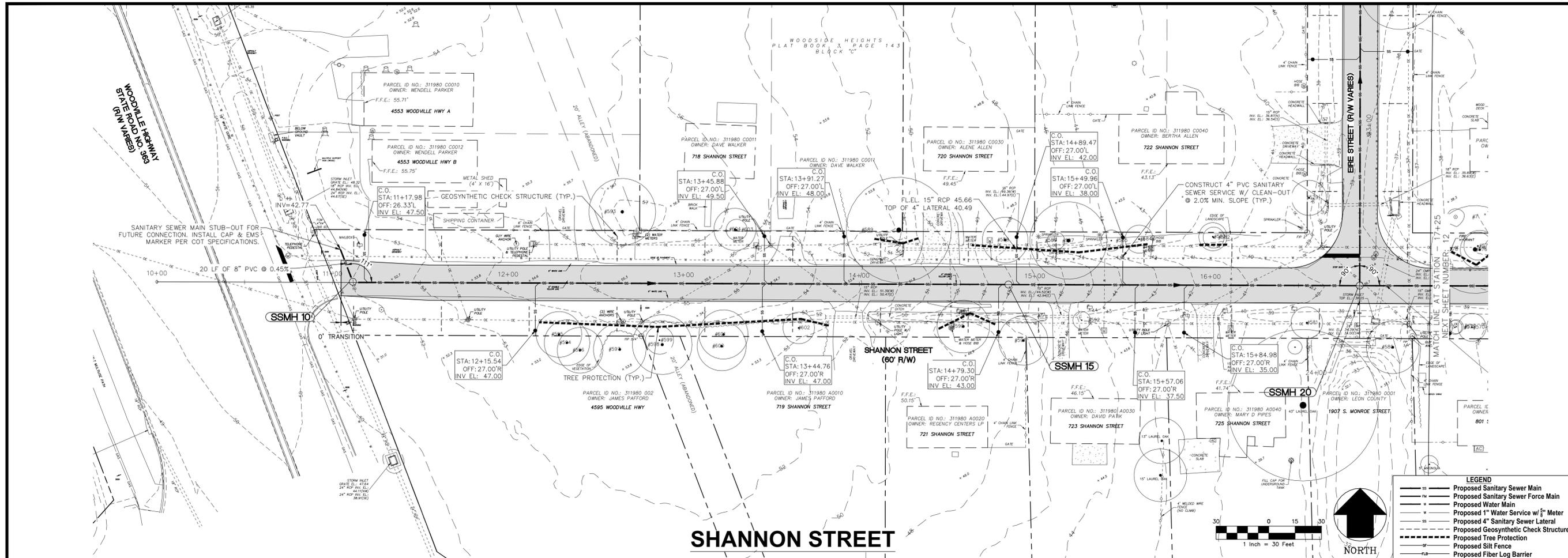
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**GEOMETRY PLAN**

**WOODSIDE HEIGHTS WASTEWATER RETROFIT**

FINAL CONSTRUCTION PLANS

SHEET NUMBER: 10



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			D.W.H.	C.S.B.
			AD/RS	AD/RS

PROJECT NUMBER: LCP3-043  
DATE: 11/28/17  
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License Number 38670

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2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
(850) 224-4400 (850) 681-3600 FAX  
FL CA 00095960 FL LC 26000202

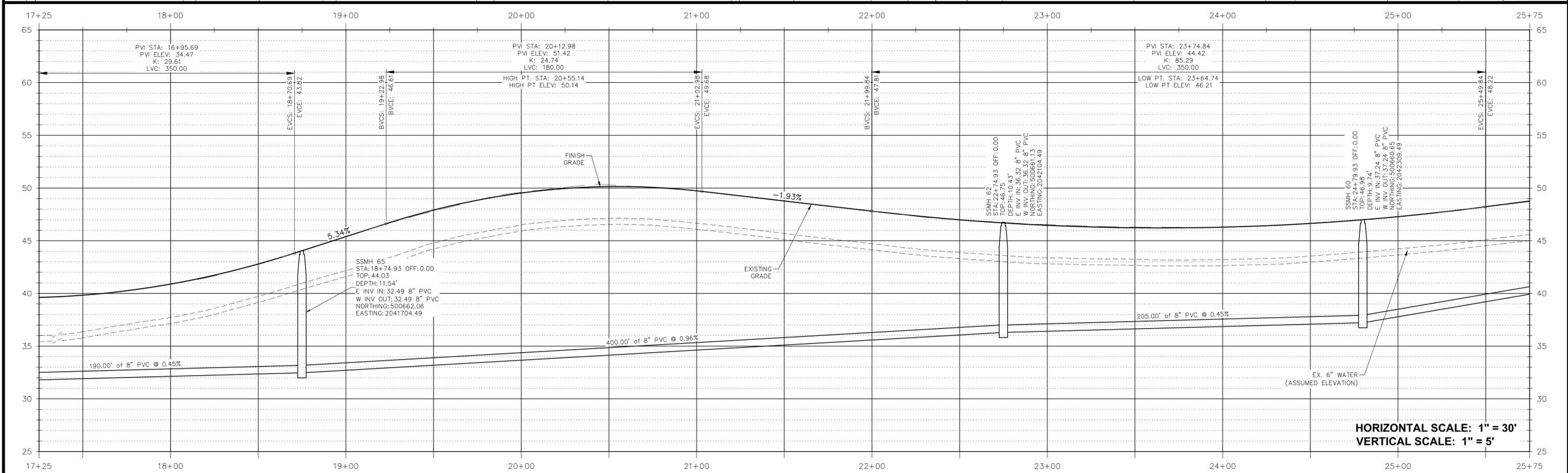
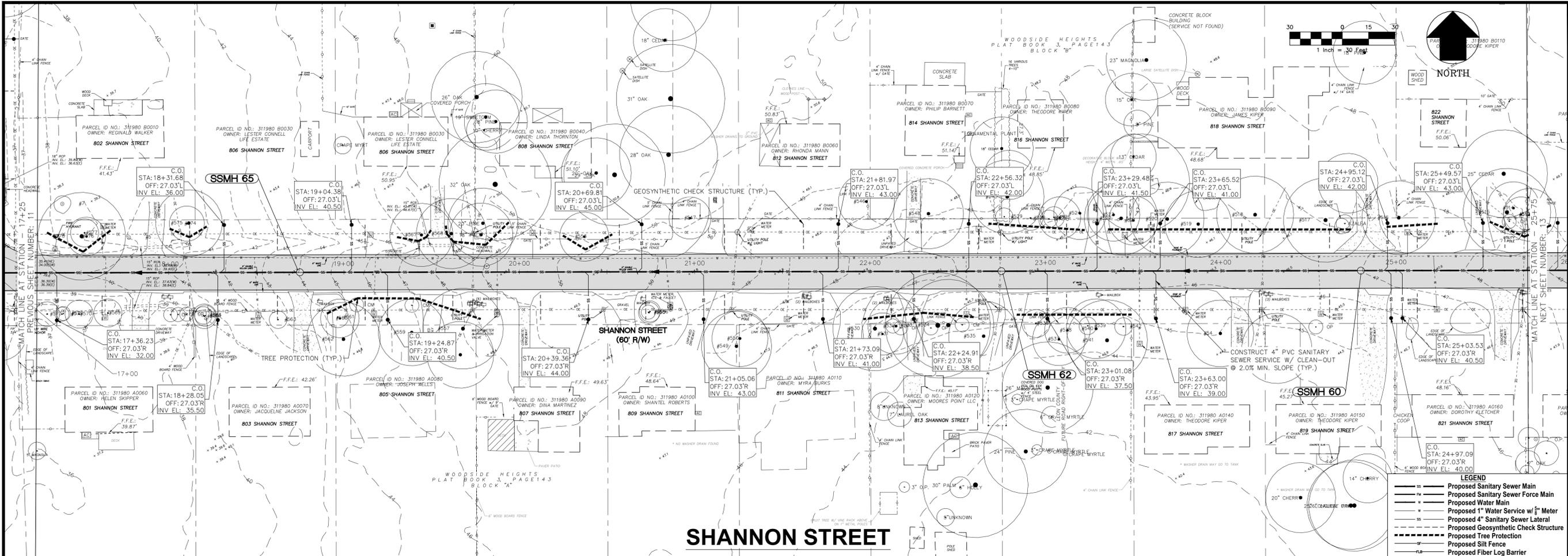
LEON COUNTY  
PUBLIC WORKS

PLAN AND PROFILE SHANNON  
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WOODSIDE HEIGHTS  
WASTEWATER RETROFIT

FINAL CONSTRUCTION PLANS

November 28, 2017 10:10:05 EST  
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1			D.W.H.	C.S.B.
DESIGNED BY:			PROJECT NUMBER: LCP3-043	
DRAWN BY:			DATE: 11/28/17	
			SCALE: 1" = 30'	

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License Number 38670

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**LEON COUNTY**  
**PUBLIC WORKS**

PREPARED BY: GGL LLC dba GENESIS

**PLAN AND PROFILE SHANNON**  
**STA: 17+25 TO STA: 25+75**

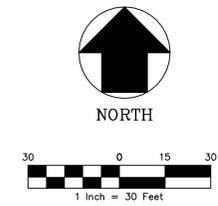
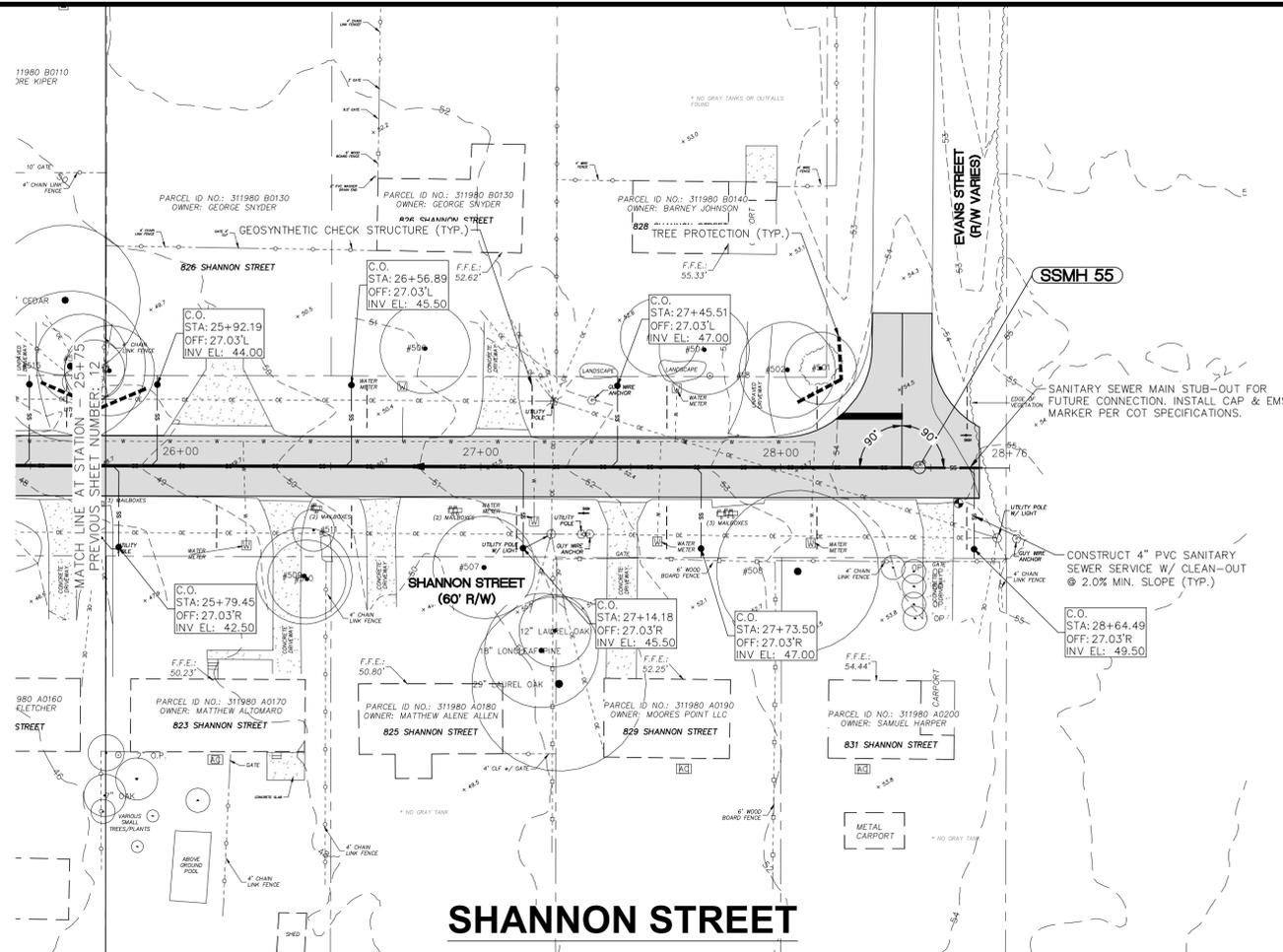
PREPARED FOR: **WOODSIDE HEIGHTS WASTEWATER RETROFIT**

FINAL CONSTRUCTION PLANS

SHEET NUMBER: **12**

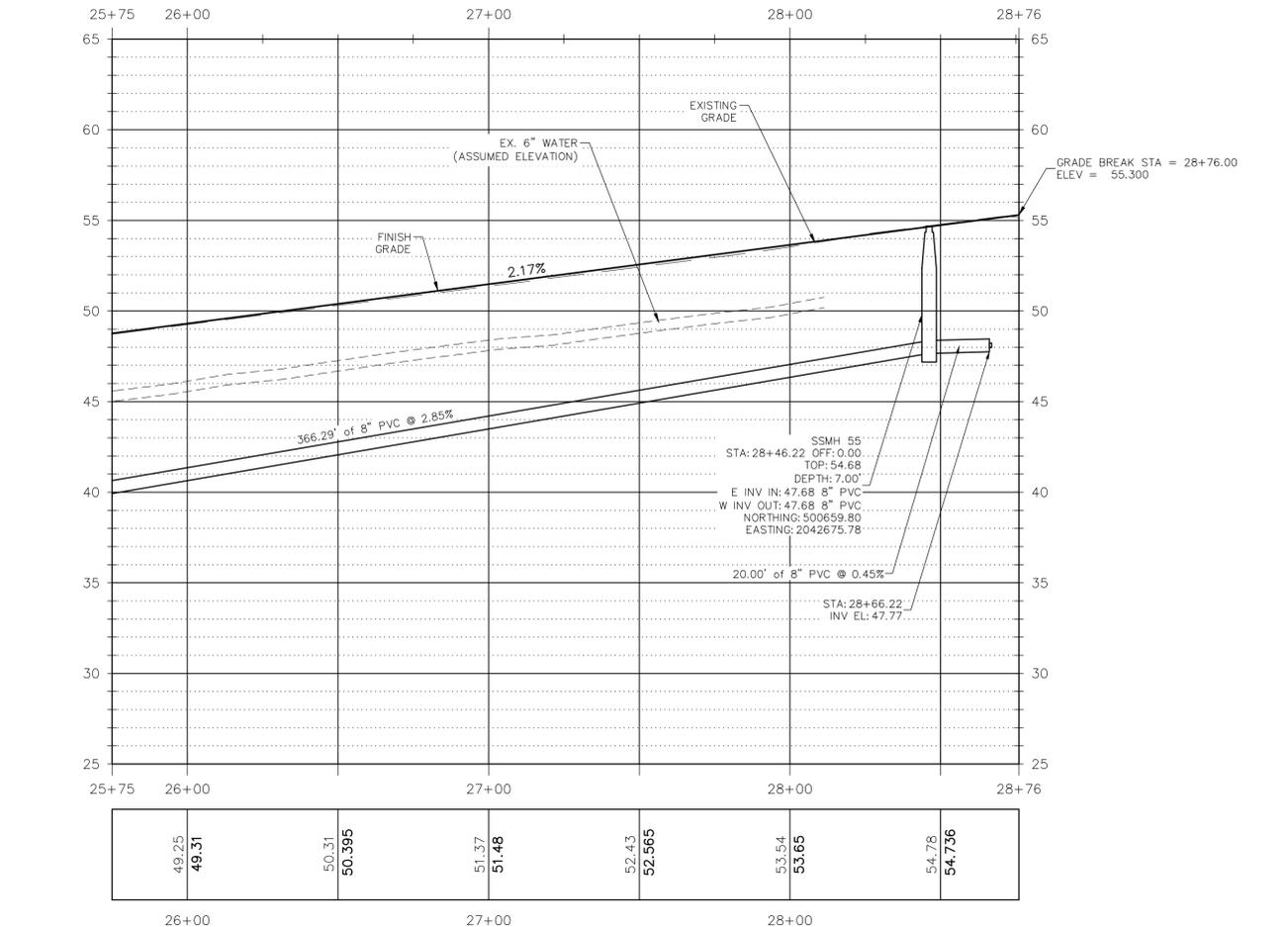
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November 28, 2017 10:10:05 EST  
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**LEGEND**

- SS Proposed Sanitary Sewer Main
- FW Proposed Sanitary Sewer Force Main
- W Proposed Water Main
- 1" Proposed 1" Water Service w/ 5/8" Meter
- 4" Proposed 4" Sanitary Sewer Lateral
- Proposed Geosynthetic Check Structure
- Proposed Tree Protection
- SF Proposed Silt Fence
- FB Proposed Fiber Log Barrier



HORIZONTAL SCALE: 1" = 30' VERTICAL SCALE: 1" = 5'

NO.	DATE	DESCRIPTION	CHECKED BY:	REVISIONS
DESIGNED BY:		D.W.H.		C.S.B.
DRAWN BY:		AD/ SR		
PROJECT NUMBER		LCP3-043		
DATE		11/28/17		

David W. Hutchison, P.E.  
 License Number 38670

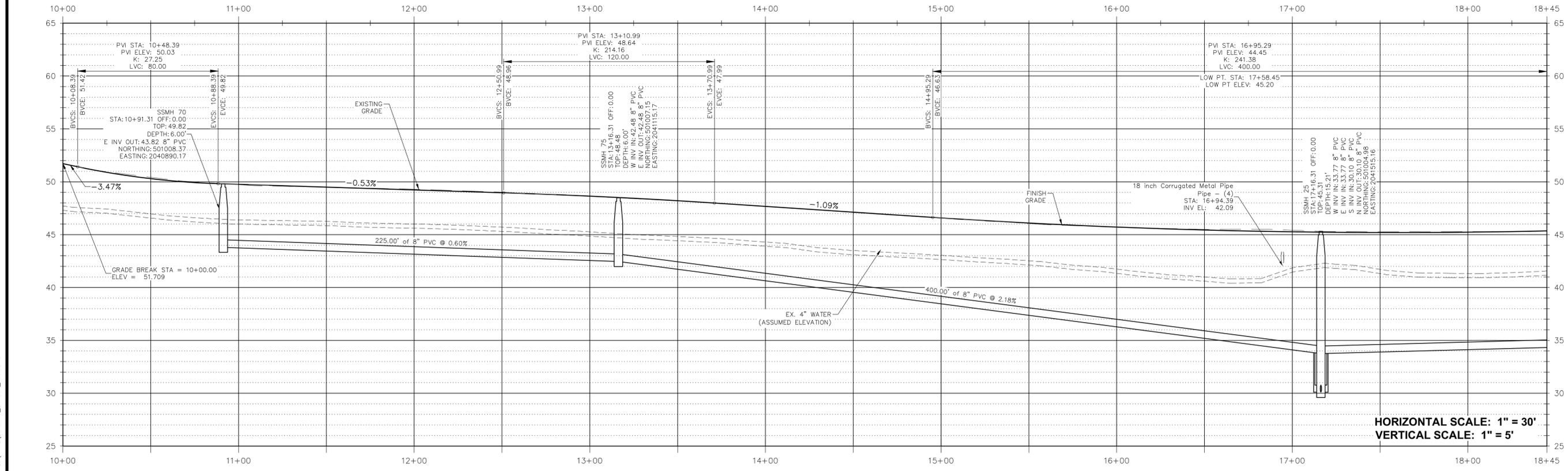
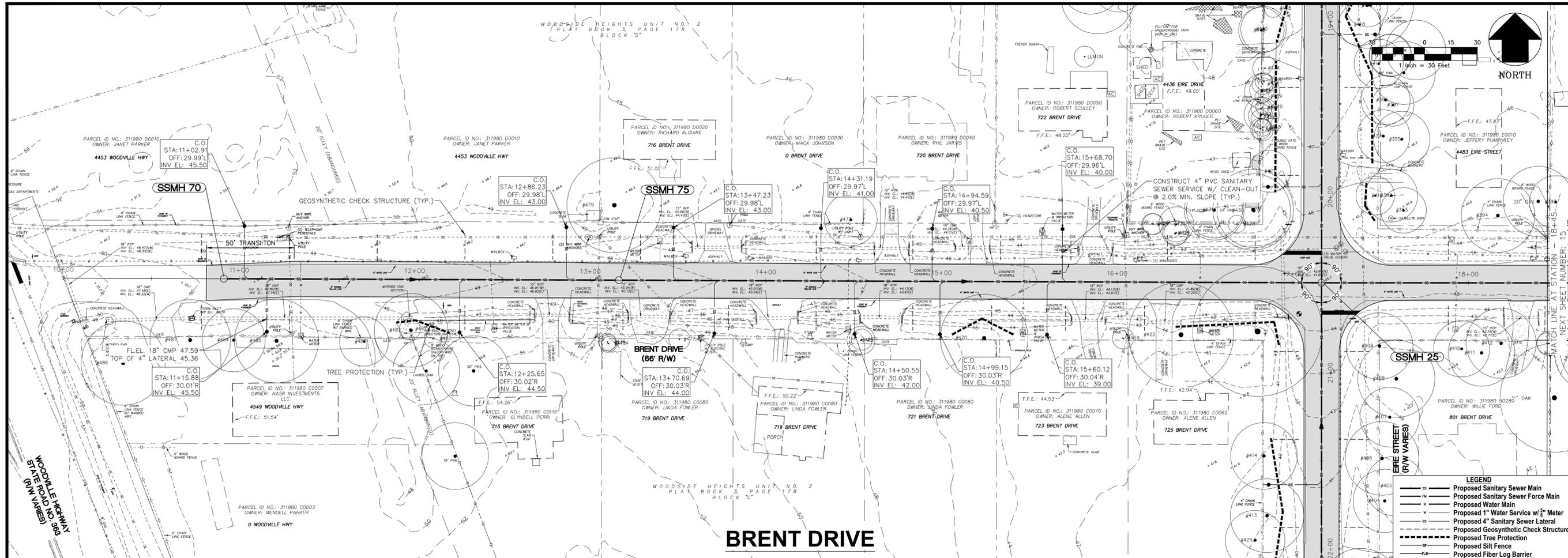
**GENESIS**  
 FROM VISION TO REALITY

**LEON COUNTY**  
**PUBLIC WORKS**

**PLAN AND PROFILE SHANNON**  
**STA: 25+75 TO STA: 28+76**

**WOODSIDE HEIGHTS**  
**WASTEWATER RETROFIT**

FINAL CONSTRUCTION PLANS



51.71	50.42	49.73	49.49	49.30	49.02	48.62	48.19	47.67	47.10	46.57	46.05	45.70	45.27	45.27	45.28	45.35
51.71	50.294	49.76	49.493	49.23	48.963	48.64	48.205	47.67	47.125	46.58	46.096	45.72	45.440	45.198	45.23	45.35
10+00	11+00	12+00	13+00	14+00	15+00	16+00	17+00	18+00	18+45							

NO.	DATE	DESCRIPTION	CHECKED BY:	REVISIONS
1			D.W.H.	C.S.B.
PROJECT NUMBER			LCP3-043	
DRAWN BY:			AD /SR	
SCALE:			1" = 30'	
DATE			11/28/17	

GGL LLC dba GENESIS  
2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
(850) 224-4400 (850) 681-3600 FAX  
FL CA 000959660 FL LC 26000202

**GENESIS**  
FROM VISION TO REALITY

LEON COUNTY  
PUBLIC WORKS

PREPARED BY: GGL LLC dba GENESIS

PREPARED FOR: LEON COUNTY PUBLIC WORKS

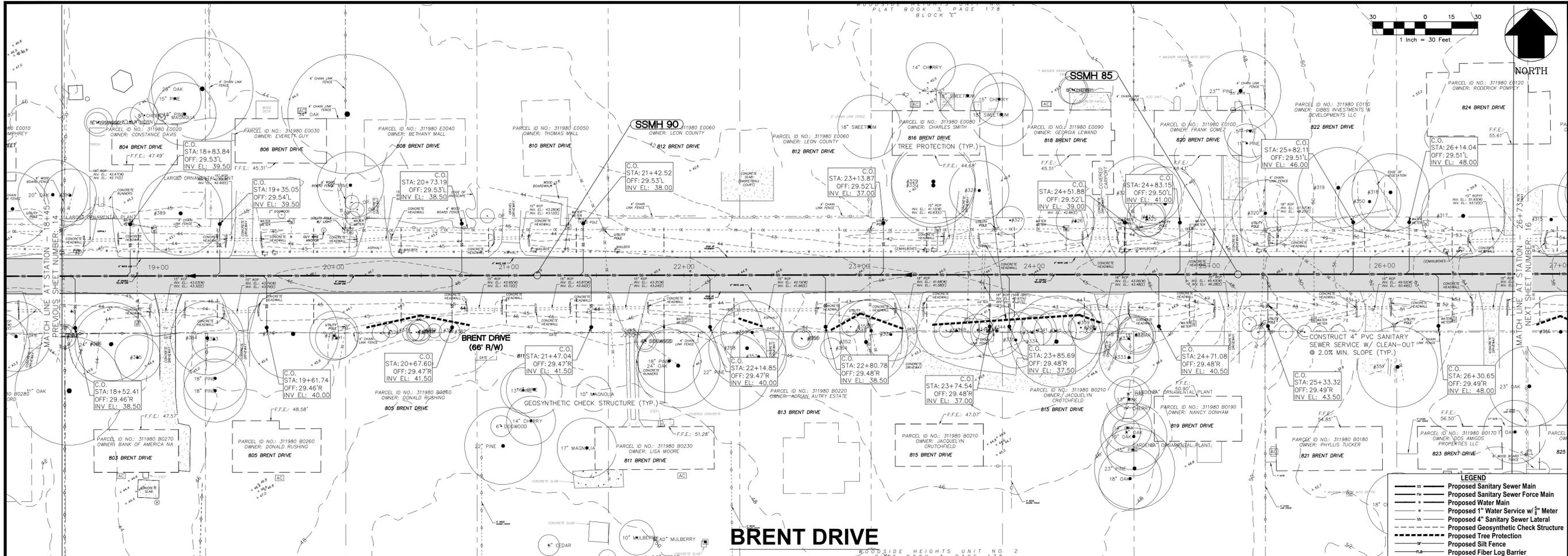
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STA: 10+00 TO STA: 18+45**

PROJECT NAME: **WOODSIDE HEIGHTS  
WASTEWATER RETROFIT**

SHEET NUMBER: **14**

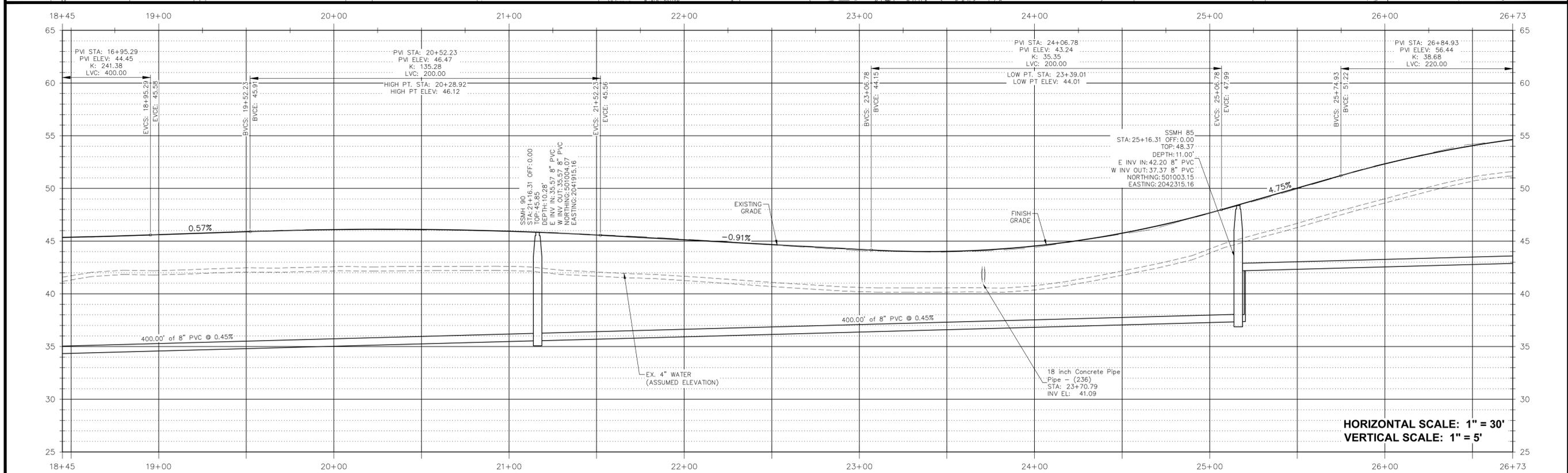
FINAL CONSTRUCTION PLANS

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**LEGEND**

- SS Proposed Sanitary Sewer Main
- FW Proposed Sanitary Sewer Force Main
- WM Proposed Water Main
- WS Proposed 4" Water Service w/ 8" Meter
- SL Proposed 4" Sanitary Sewer Lateral
- CS Proposed Geosynthetic Check Structure
- TP Proposed Tree Protection
- SF Proposed Silt Fence
- FL Proposed Fiber Log Barrier



18+45	19+00	20+00	21+00	22+00	23+00	24+00	25+00	26+00	26+73
45.35	45.34	45.35	45.370	45.60	45.61	45.91	45.894	46.09	46.09
				46.06	46.108	45.92	45.94	45.61	45.583
				45.19	45.13	44.64	44.671	44.11	44.22
				43.98	44.024	44.39	44.53	45.67	45.749
								47.63	47.67
								49.96	50.039
								52.36	52.33
								54.20	54.056
								54.60	54.63

NO.	DATE	DESCRIPTION	CHECKED BY	REVISIONS
1			D.W.H.	C.S.B.
DESIGNED BY				AD / SR
PROJECT NUMBER				LCP3-043
DATE				11/28/17
SCALE				1" = 30'

David W. Hutchinson, P.E.  
License Number 38670

GGI LLC dba GENESIS  
2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
(850) 224-4400 (850) 681-3600 FAX  
FL CA 000095660 FL LC 26000202

**LEON COUNTY PUBLIC WORKS**

**PLAN AND PROFILE BRENT**  
**STA: 18+45 TO STA: 26+73**

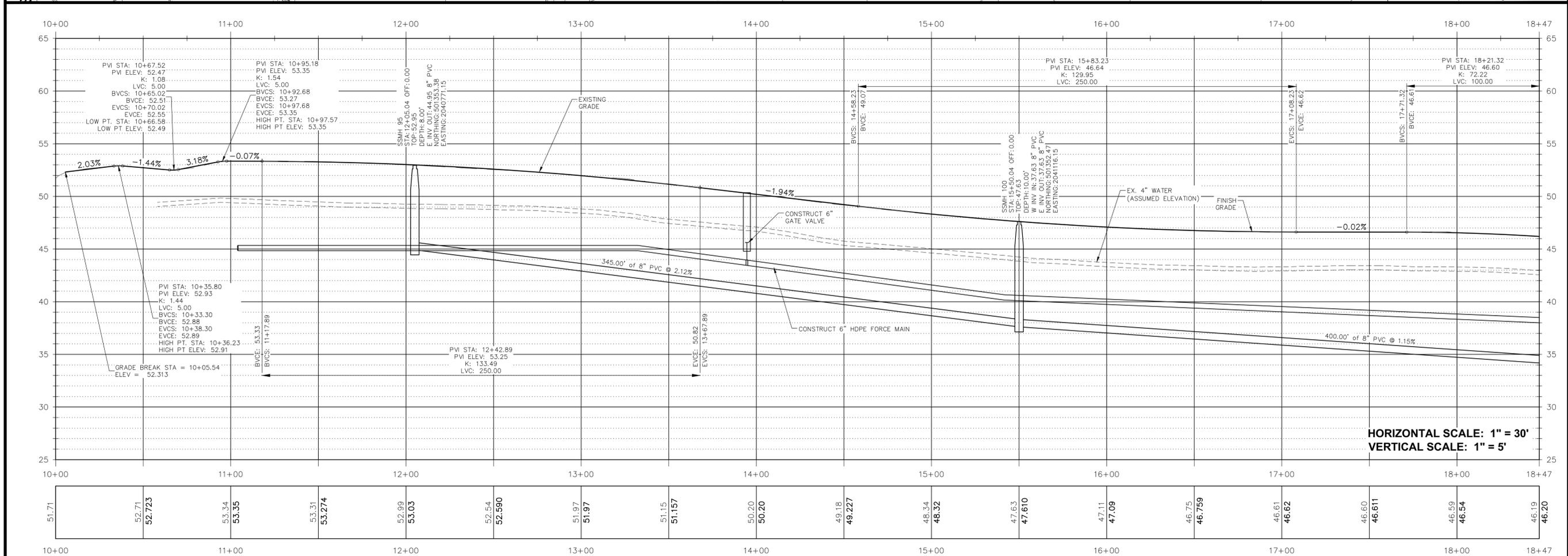
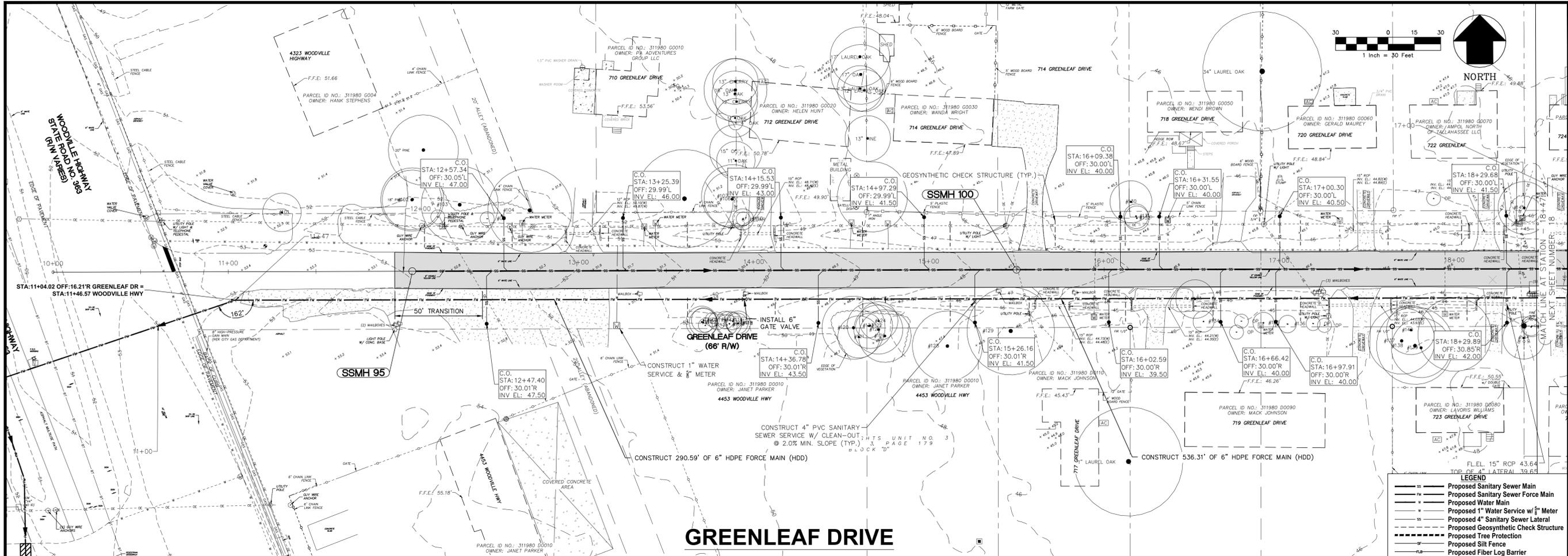
**WOODSIDE HEIGHTS WASTEWATER RETROFIT**

FINAL CONSTRUCTION PLANS

15







HORIZONTAL SCALE: 1" = 30'  
VERTICAL SCALE: 1" = 5'

**LEGEND**

- SS Proposed Sanitary Sewer Main
- FM Proposed Sanitary Sewer Force Main
- WM Proposed Water Main
- WS Proposed 1" Water Service w/ 8" Meter
- SL Proposed 4" Sanitary Sewer Lateral
- CS Proposed Geosynthetic Check Structure
- TP Proposed Tree Protection
- SF Proposed Silt Fence
- FL Proposed Fiber Log Barrier

NO.	DATE	DESCRIPTION	CHECKED BY:	REVISIONS
1			D.W.H.	C.S.B.
PROJECT NUMBER			LCP3-043	
DRAWN BY:			AD /SR	
SCALE:			1" = 30'	
DATE:			11/28/17	

David W. Hutcheson, P.E.  
License Number 38670

GGL LLC dba GENESIS  
2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
(850) 224-4400 (850) 681-3600 FAX  
FL CA 000095660 FL LC 26000202

**GENESIS**  
FROM VISION TO REALITY

LEON COUNTY  
PUBLIC WORKS

PREPARED BY: GGL LLC dba GENESIS

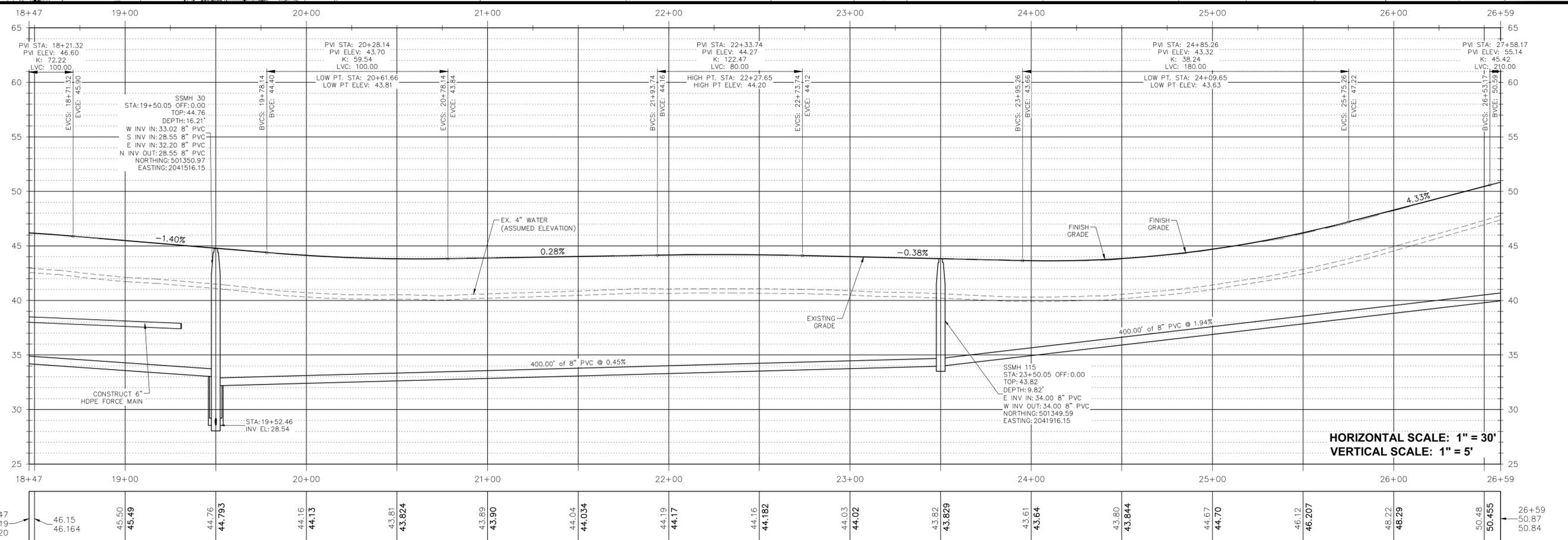
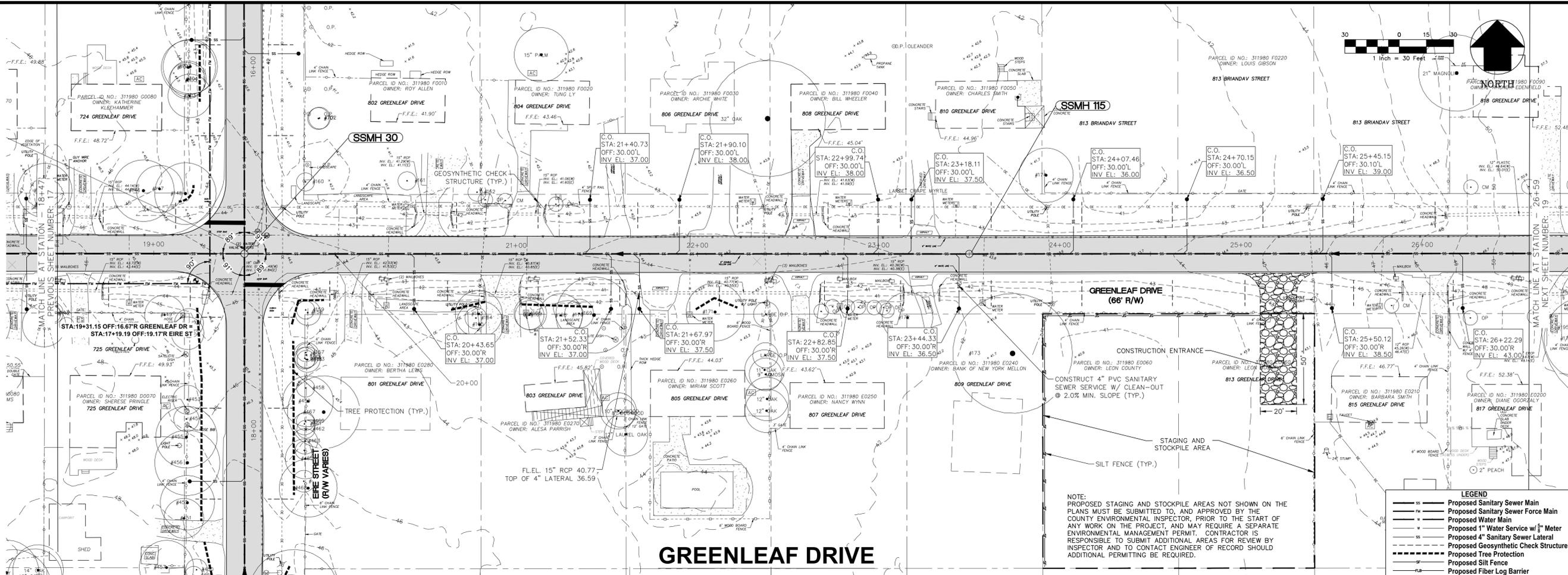
**PLAN AND PROFILE GREENLEAF  
STA: 10+00 TO STA: 18+47**

PROJECT NAME: **WOODSIDE HEIGHTS  
WASTEWATER RETROFIT**

FINAL CONSTRUCTION PLANS

SHEET NUMBER: **17**

November 28, 2017 10:10:05 EST  
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NO.	DATE	DESCRIPTION	CHECKED BY	REVISIONS
1			D.W.H.	C.S.B.
2			AD/RS	

PROJECT NUMBER: LCP3-043  
DATE: 11/28/17  
SCALE: 1" = 30'

David W. Hutcheson, P.E.  
License Number 38670

GGI, LLC dba GENESIS  
2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
(850) 224-4400 (850) 681-3600 FAX  
FL CA 000095660 FL LC 26000202

**GENESIS**  
FROM VISION TO REALITY

LEON COUNTY  
PUBLIC WORKS

PREPARED FOR  
**LEON COUNTY**

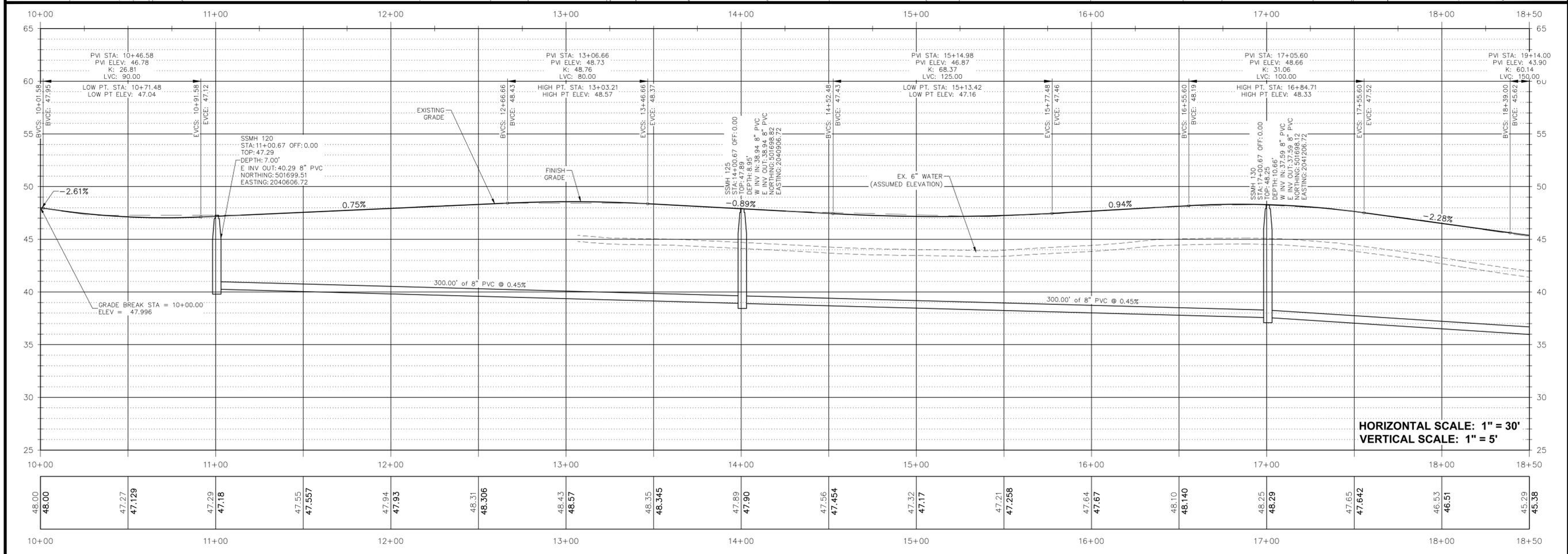
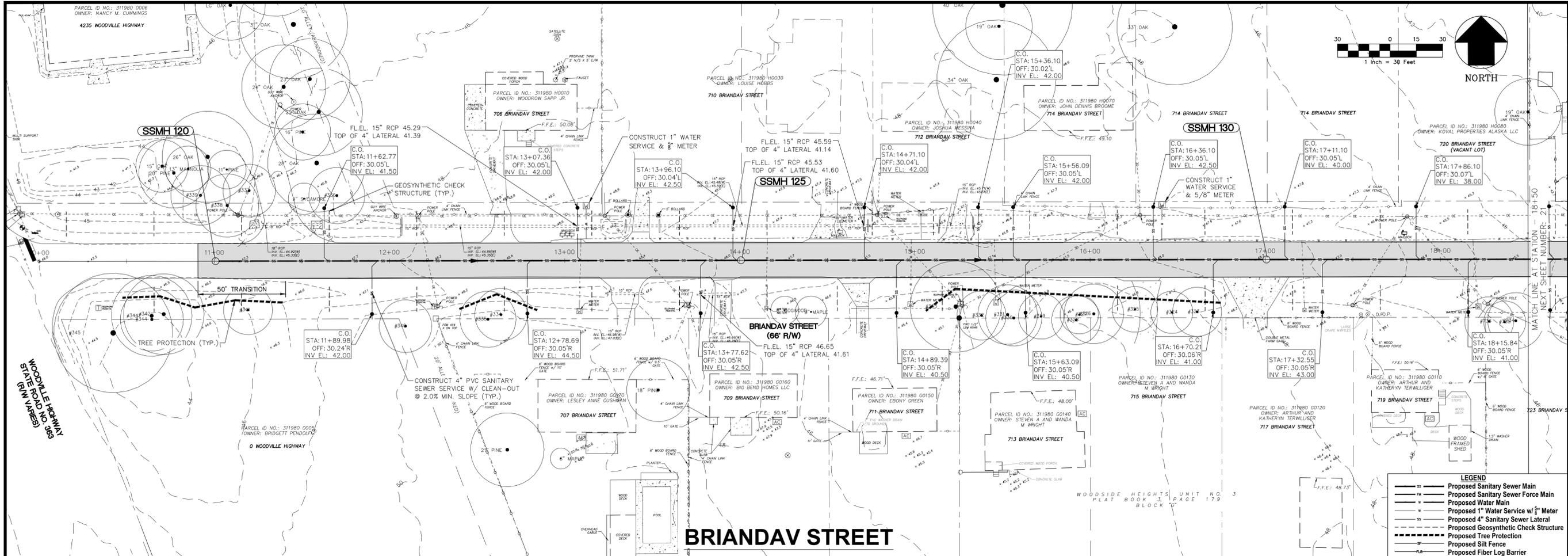
PREPARED BY  
**GENESIS**

SHEET TITLE  
**PLAN AND PROFILE GREENLEAF  
STA: 18+47 TO STA: 26+59**

PROJECT NAME  
**WOODSIDE HEIGHTS  
WASTEWATER RETROFIT**

FINAL CONSTRUCTION PLANS





HORIZONTAL SCALE: 1" = 30'  
VERTICAL SCALE: 1" = 5'

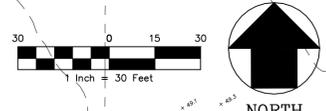
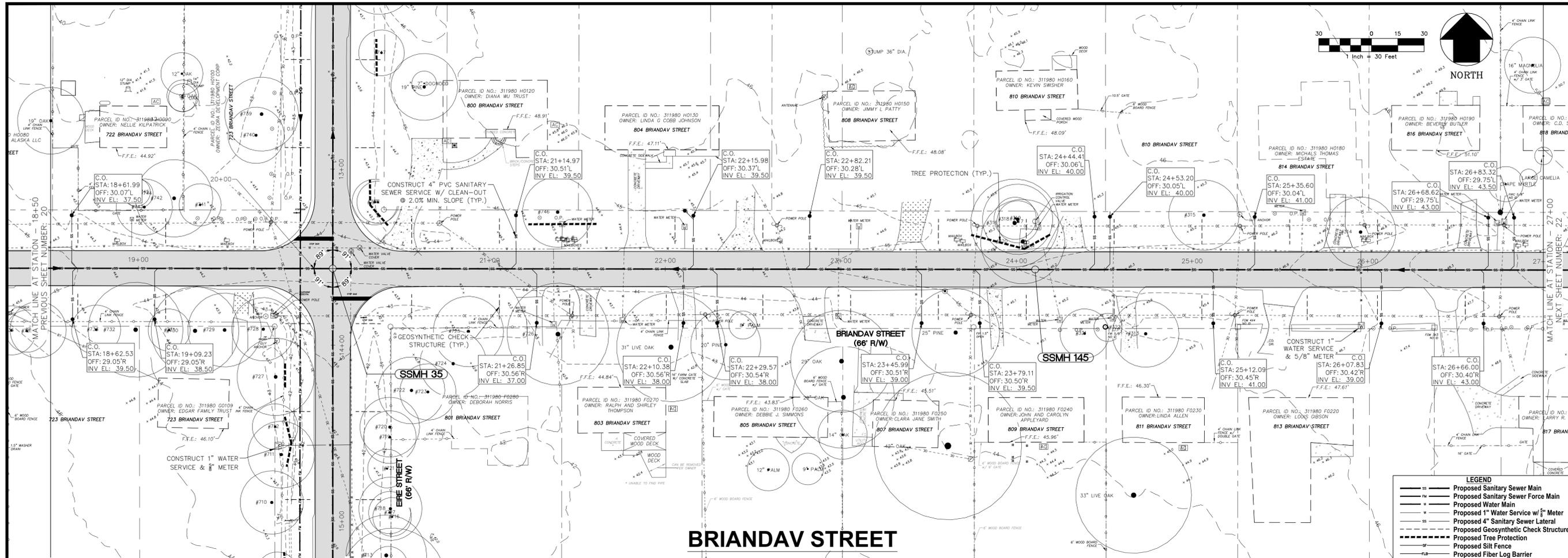
NO.	DATE	DESCRIPTION	CHECKED BY	REVISIONS

DESIGNED BY: D.W.H.  
DRAWN BY: AD /SR  
SCALE: 1" = 30'  
PROJECT NUMBER: LCP3-043  
DATE: 11/28/17

David W. Hutchinson, P.E.  
License Number 38670

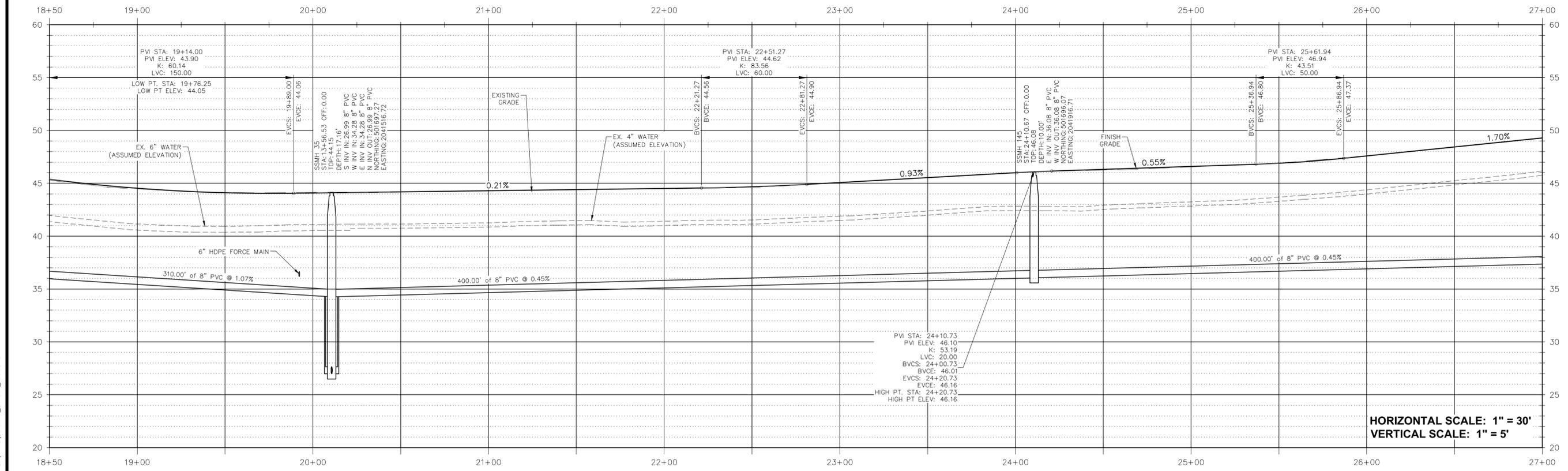
GGI, LLC dba GENESIS  
2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
(850) 224-4400 (850) 681-3600 FAX  
FL CA 000095660 FL LC 2-6000202

LEON COUNTY  
PUBLIC WORKS  
WOODSIDE HEIGHTS  
WASTEWATER RETROFIT  
FINAL CONSTRUCTION PLANS



**LEGEND**

- SS - Proposed Sanitary Sewer Main
- FW - Proposed Sanitary Sewer Force Main
- WS - Proposed Water Main
- W4 - Proposed 4" Sanitary Sewer Lateral
- W8 - Proposed 1" Water Service w/ 5/8" Meter
- CS - Proposed Geosynthetic Check Structure
- TP - Proposed Tree Protection
- SF - Proposed Silt Fence
- FLB - Proposed Fiber Log Barrier



HORIZONTAL SCALE: 1" = 30'  
VERTICAL SCALE: 1" = 5'

45.29	45.38	44.48	44.53	44.14	44.107	44.19	44.193	44.32	44.30	44.43	44.405	44.47	44.51	45.55	45.538	45.98	46.00	46.25	46.321	46.55	46.60	46.91	46.894	47.61	47.59	48.40	48.441	49.25	49.29
18+50	19+00	19+00	19+00	20+00	20+00	20+00	20+00	21+00	21+00	21+00	21+00	22+00	22+00	22+00	22+00	23+00	23+00	24+00	24+00	24+00	25+00	25+00	26+00	26+00	26+00	27+00	27+00	27+00	27+00

David W. Hutcheson, P.E.  
License Number 38670

NO. DATE DESCRIPTION CHECKED BY: D.W.H. REVISIONS PROJECT NUMBER LCP3-043 DATE 11/28/17 SCALE: 1" = 30'

GGI, LLC dba GENESIS  
2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
(850) 224-4400 (850) 681-3600 FAX  
FL CA 000095660 FL LC 2-6000202

**GENESIS**  
FROM VISION TO REALITY

LEON COUNTY  
PUBLIC WORKS

PREPARED FOR  
**LEON COUNTY**

PREPARED BY  
**GENESIS**

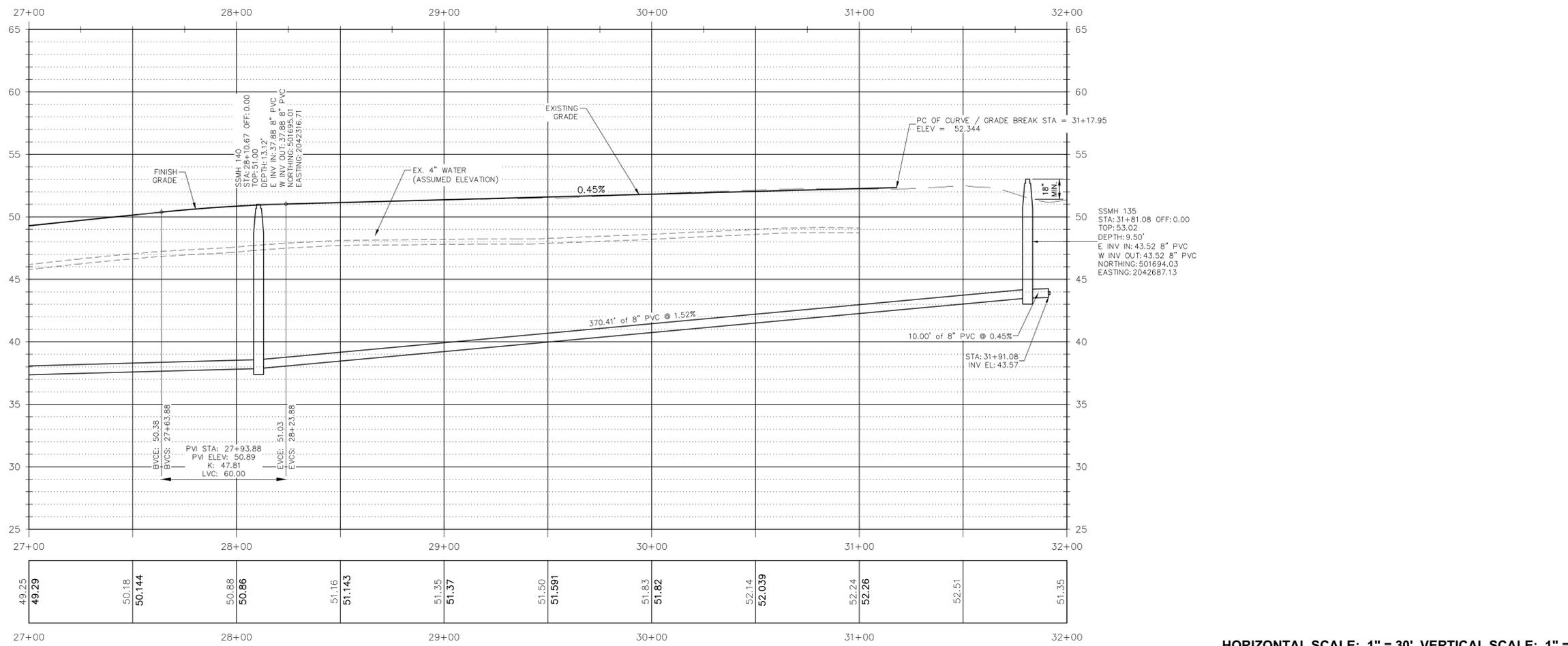
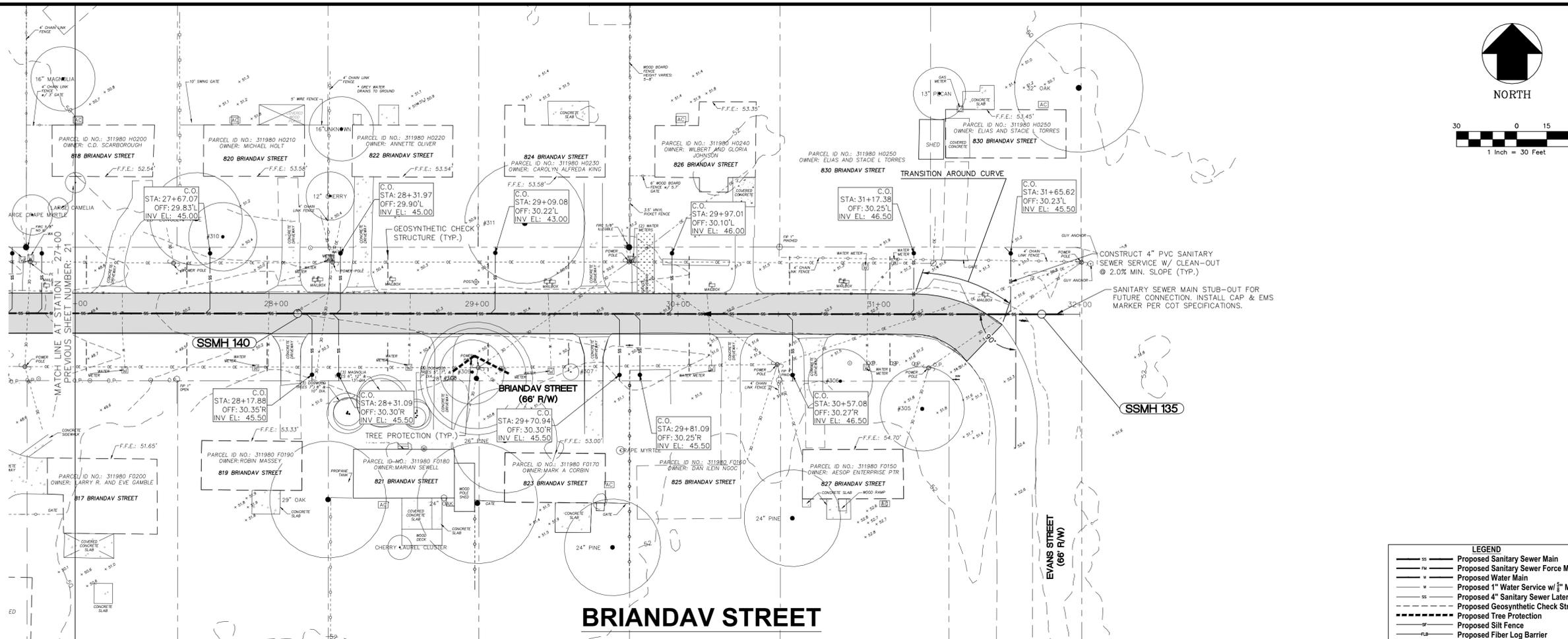
SHEET TITLE  
**PLAN AND PROFILE BRIANDAV  
STA: 18+50 TO STA: 27+00**

PROJECT NAME  
**WOODSIDE HEIGHTS  
WASTEWATER RETROFIT**

SHEET NUMBER  
**21**

FINAL CONSTRUCTION PLANS

November 28, 2017 10:10:05 EST  
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HORIZONTAL SCALE: 1" = 30' VERTICAL SCALE: 1" = 5'

NO.	DATE	DESCRIPTION	CHECKED BY	REVISIONS

DESIGNED BY: D.W.H.  
 DRAWN BY: AD/RS  
 PROJECT NUMBER: LCP5-043  
 DATE: 11/28/17  
 SCALE: 1" = 30'

David W. Hutcheson, P.E.  
 License Number 38670

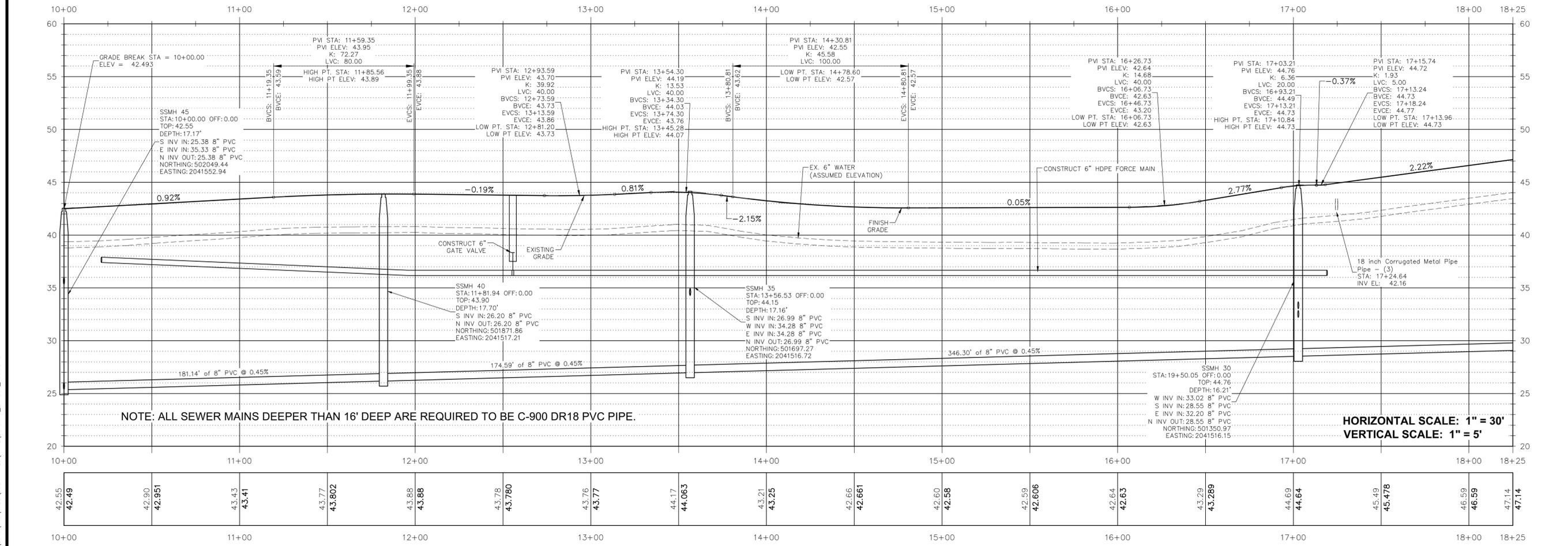
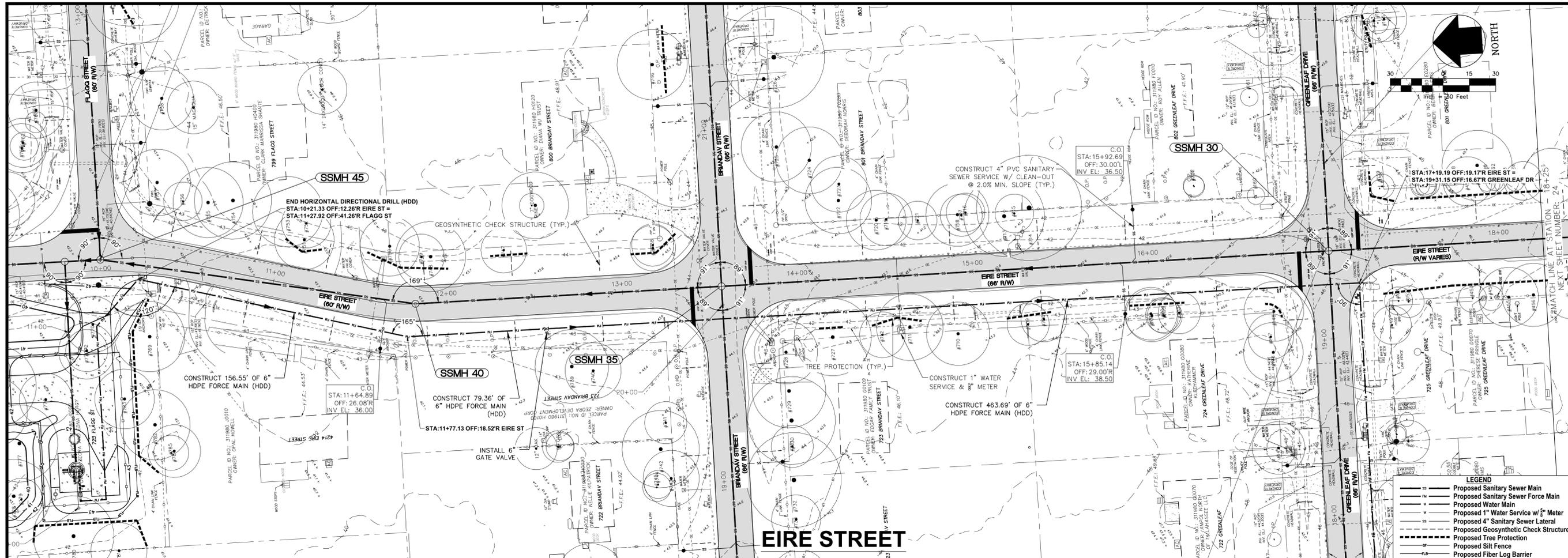
PREPARED BY: **GENESIS**  
 FROM VISION TO REALITY  
 GGL LLC dba GENESIS  
 2507 CALLAWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
 (850) 224-4400 (850) 681-3600 FAX  
 FL CA 000095660 FL LC 26000202

LEON COUNTY  
 PUBLIC WORKS

LEON COUNTY  
 WOODSIDE HEIGHTS  
 WASTEWATER RETROFIT

FINAL CONSTRUCTION PLANS

November 28, 2017 10:10:05 EST  
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NO.	DATE	DESCRIPTION	CHECKED BY:	REVISIONS

DESIGNED BY: D.W.H.  
CHECKED BY: C.S.B.  
PROJECT NUMBER: LCP3-043

DRAWN BY: AD/RS  
SCALE: 1" = 30'  
DATE: 11/28/17

David W. Hutcheson, P.E.  
License Number 38670

GGI, LLC dba GENESIS  
2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
(850) 224-4400 (850) 681-3600 FAX  
FL CA 000959660 FL LC 2-6000202

**LEON COUNTY PUBLIC WORKS**

**GENESIS**  
FROM VISION TO REALITY

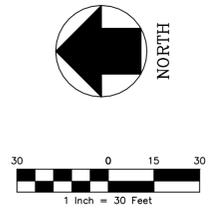
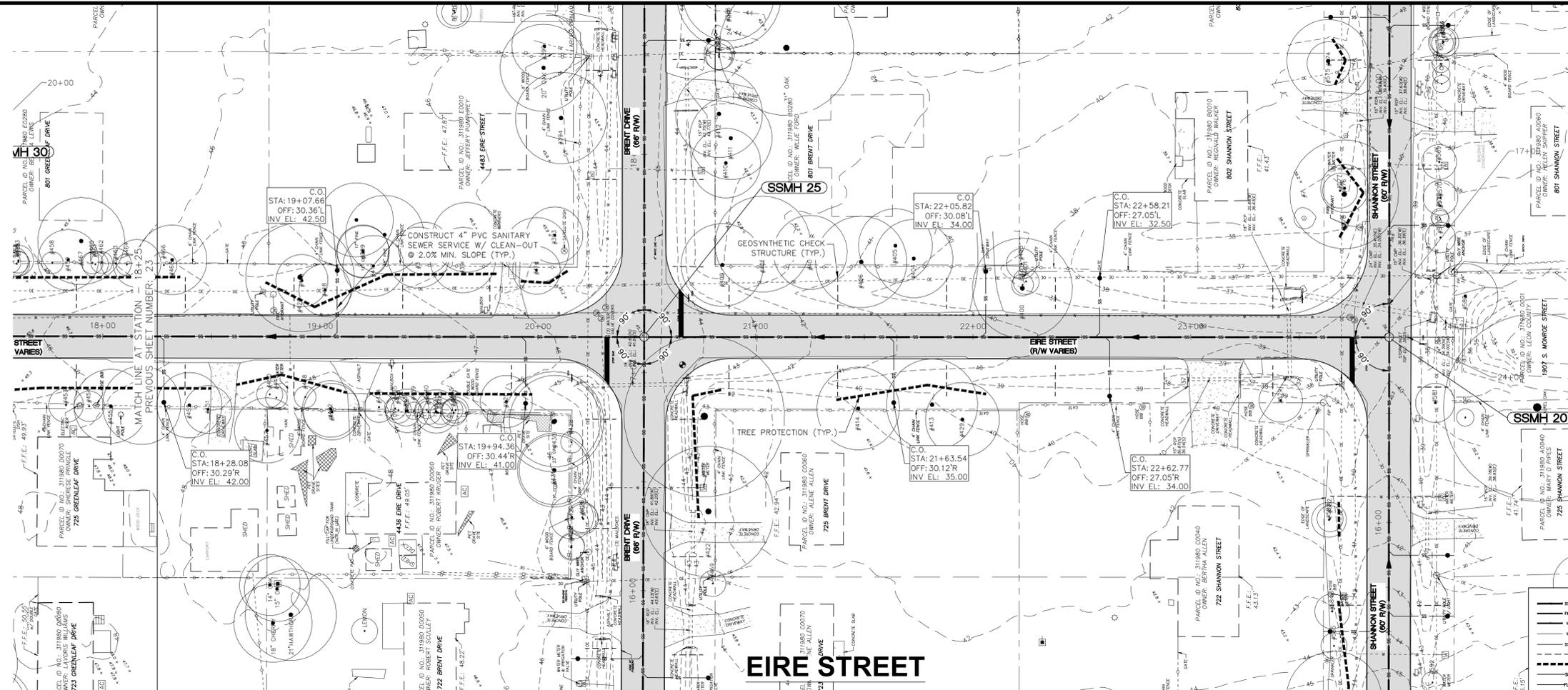
PREPARED BY: GGI, LLC dba GENESIS  
PREPARED FOR: LEON COUNTY

**PLAN AND PROFILE EIRE  
STA: 10+00 TO STA: 18+25**

**WOODSIDE HEIGHTS  
WASTEWATER RETROFIT**

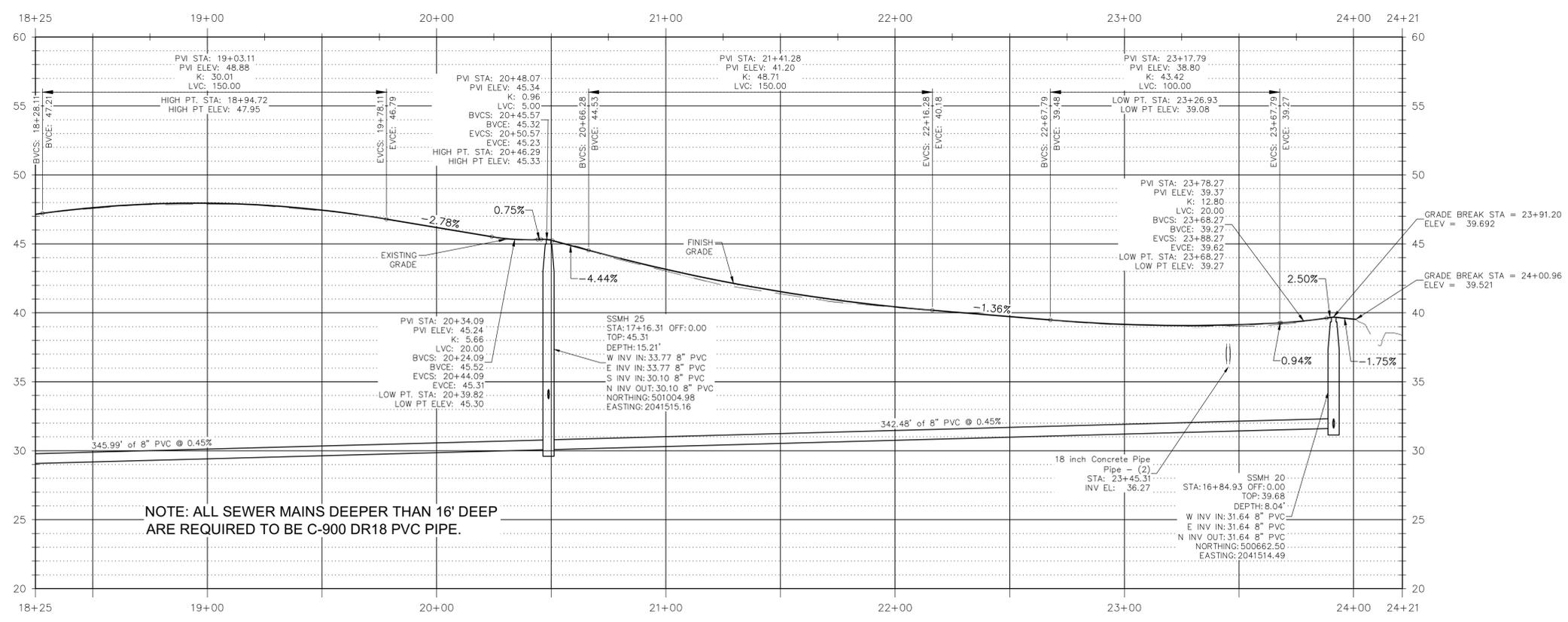
FINAL CONSTRUCTION PLANS

SHEET NUMBER: 23



**LEGEND**

- Proposed Sanitary Sewer Main
- Proposed Sanitary Sewer Force Main
- Proposed Water Main
- Proposed 1" Water Service w/ 3/4" Meter
- Proposed 4" Sanitary Sewer Lateral
- Proposed Geosynthetic Check Structure
- Proposed Tree Protection
- Proposed Silt Fence
- Proposed Fiber Log Barrier



NOTE: ALL SEWER MAINS DEEPER THAN 16' DEEP ARE REQUIRED TO BE C-900 DR18 PVC PIPE.

47.14	47.14	47.56	47.618	47.86	47.95	47.39	47.442	46.20	46.18	45.27	45.255	43.02	43.15	41.38	41.535	40.39	40.43	39.71	39.722	39.15	39.16	39.02	39.138	39.55	39.54	38.31
18+25	19+00	20+00	20+00	20+00	20+00	20+00	20+00	20+00	20+00	20+00	20+00	21+00	21+00	21+00	21+00	22+00	22+00	22+00	22+00	23+00	23+00	23+00	23+00	24+00	24+00	24+21.30

HORIZONTAL SCALE: 1" = 30'  
VERTICAL SCALE: 1" = 5'

SEAL

GGL LLC dba GENESIS  
2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
(850) 224-4400 (850) 681-3600 FAX  
FL CA 000095660 FL LC 26000202

**GENESIS**  
FROM VISION TO REALITY

LEON COUNTY  
PUBLIC WORKS

LEON COUNTY  
PUBLIC WORKS

WOODSIDE HEIGHTS  
WASTEWATER RETROFIT

FINAL CONSTRUCTION PLANS

NO.	DATE	DESCRIPTION	CHECKED BY:	REVISIONS
1			D.W.H.	C.S.B.
2			AD/RS	1" = 30'
				PROJECT NUMBER LCP3-043
				DATE 11/28/17

DESIGNED BY: D.W.H.  
CHECKED BY: C.S.B.  
SCALE: 1" = 30'  
DRAWN BY: AD/RS

David W. Hutcheson, P.E.  
License Number 38670

PREPARED BY: GGL LLC dba GENESIS  
PREPARED FOR: LEON COUNTY PUBLIC WORKS

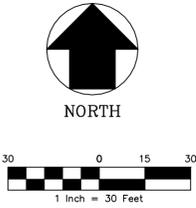
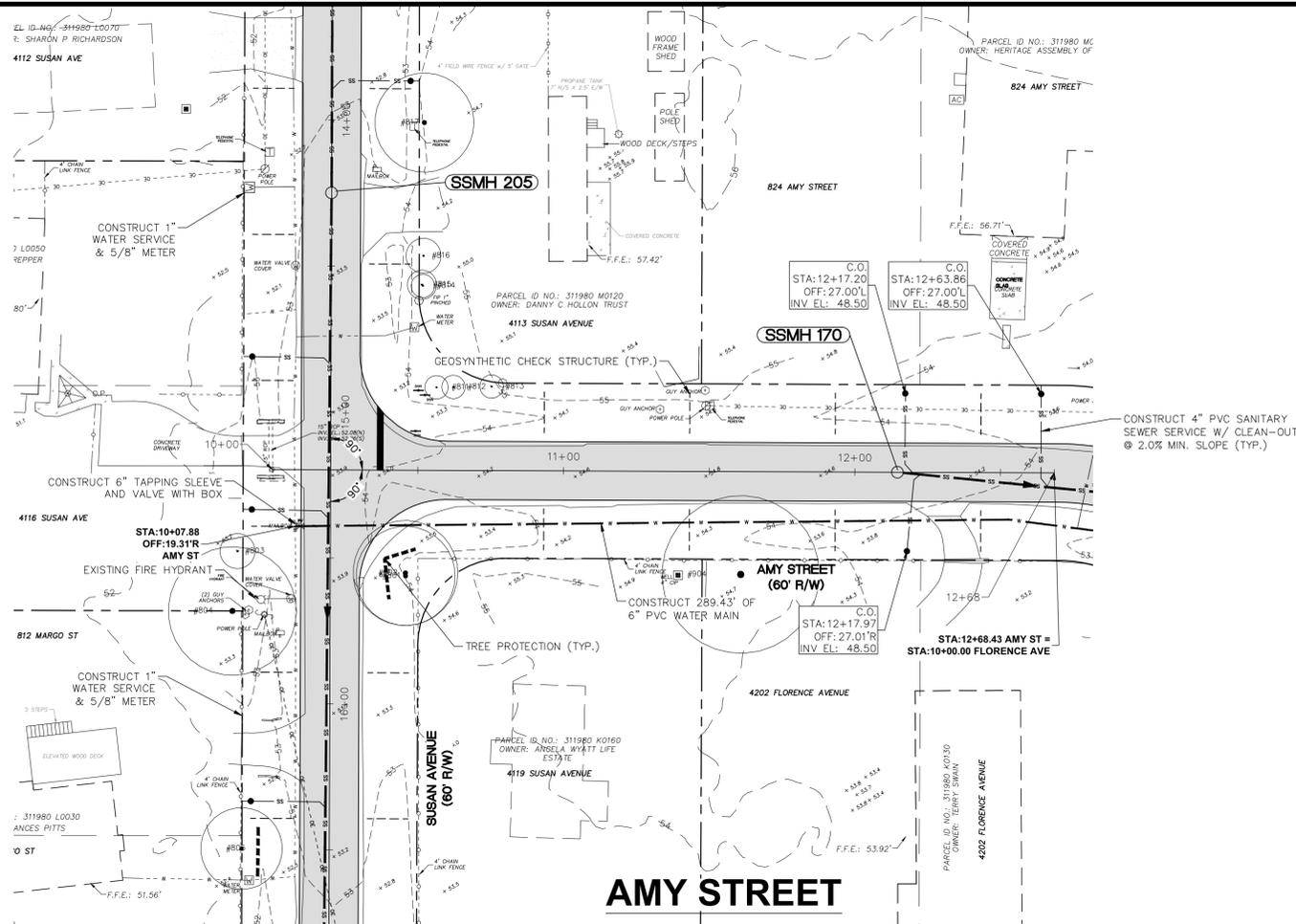
SHEET TITLE: PLAN AND PROFILE EIRE  
STA: 18+25 TO STA: 24+21

PROJECT NAME: WOODSIDE HEIGHTS WASTEWATER RETROFIT

SHEET NUMBER: 24

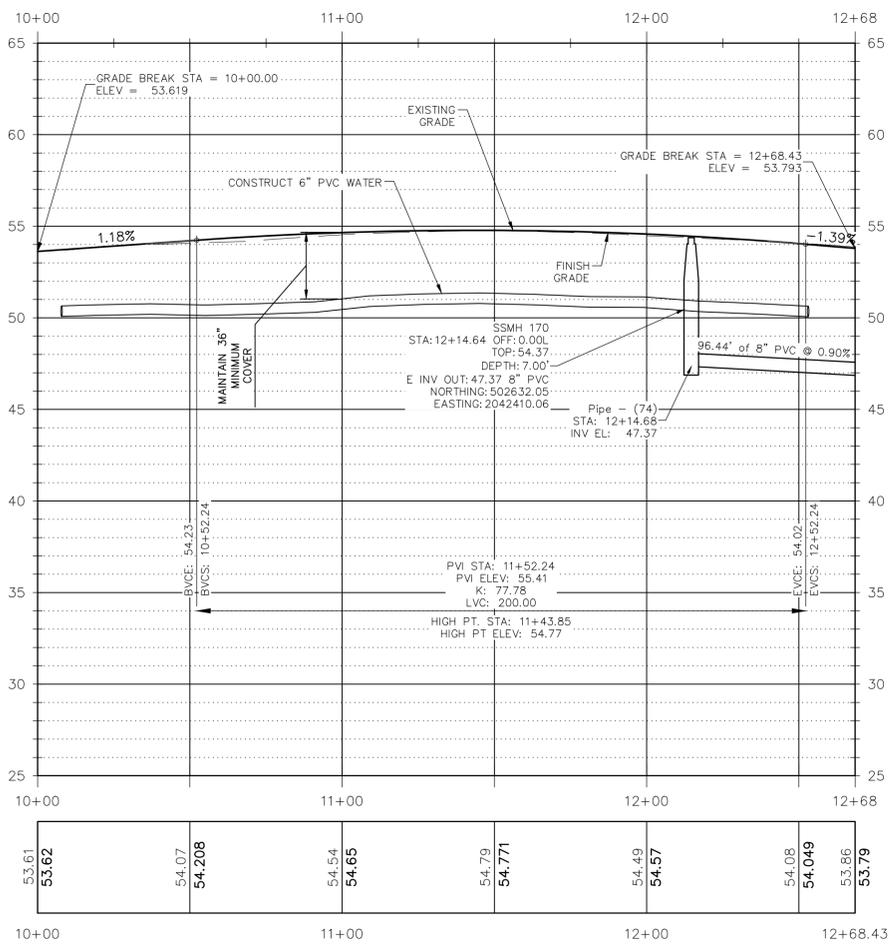
November 28, 2017 (10:10:05 EST)  
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**LEGEND**

- SS — Proposed Sanitary Sewer Main
- FW — Proposed Sanitary Sewer Force Main
- WM — Proposed Water Main
- WS — Proposed 1" Water Service w/ 5/8" Meter
- SL — Proposed 4" Sanitary Sewer Lateral
- GS — Proposed Geosynthetic Check Structure
- TP — Proposed Tree Protection
- SF — Proposed Silt Fence
- FL — Proposed Fiber Log Barrier



HORIZONTAL SCALE: 1" = 30' VERTICAL SCALE: 1" = 5'

NO.	DATE	DESCRIPTION	CHECKED BY:	REVISIONS

DESIGNED BY: **D.W.H.**  
 DRAWN BY: **AD / SR**  
 PROJECT NUMBER: **LCPS-043**  
 DATE: **11/28/17**  
 SCALE: **1" = 30'**

SEAL

**GENESIS**  
 FROM VISION TO REALITY

GGL LLC dba GENESIS  
 2507 CALLAWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
 (850) 224-4400 (850) 681-3600 FAX  
 FL CA 000095660 FL LC 26000202

**LEON COUNTY**  
**PUBLIC WORKS**

SHEET TITLE  
**PLAN AND PROFILE AMY**  
**STA: 10+00 TO STA: 12+68**

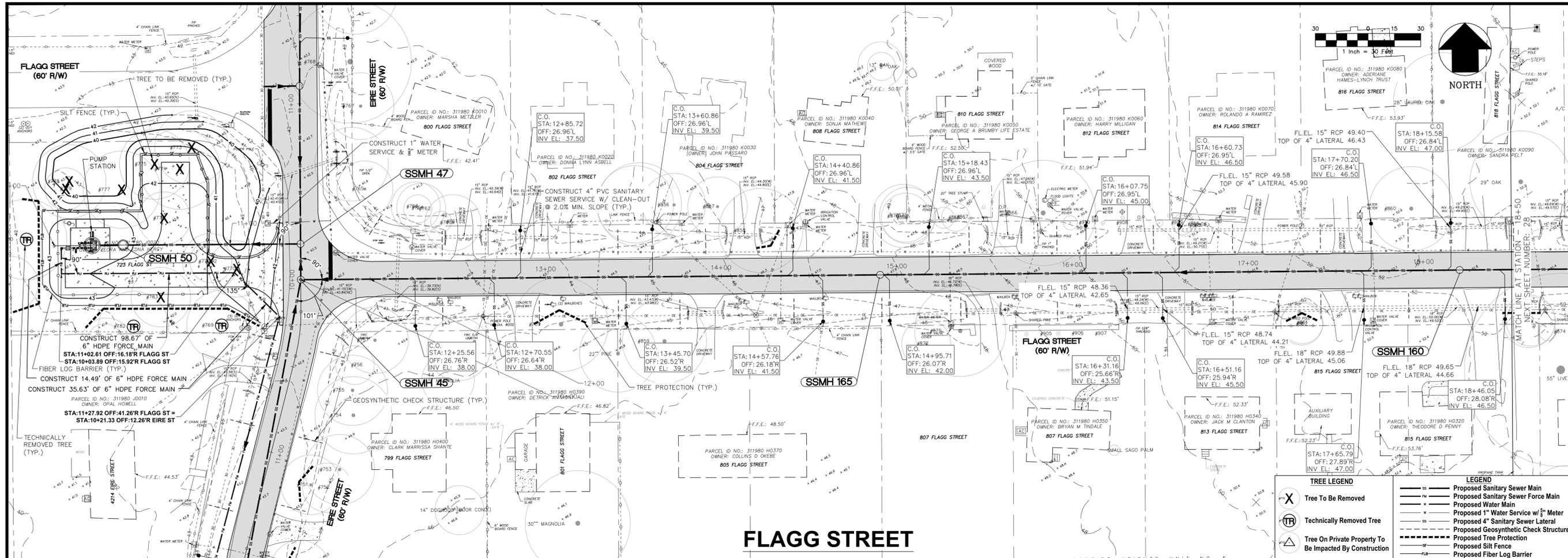
PROJECT NAME  
**WOODSIDE HEIGHTS**  
**WASTEWATER RETROFIT**

SHEET NUMBER  
**25**

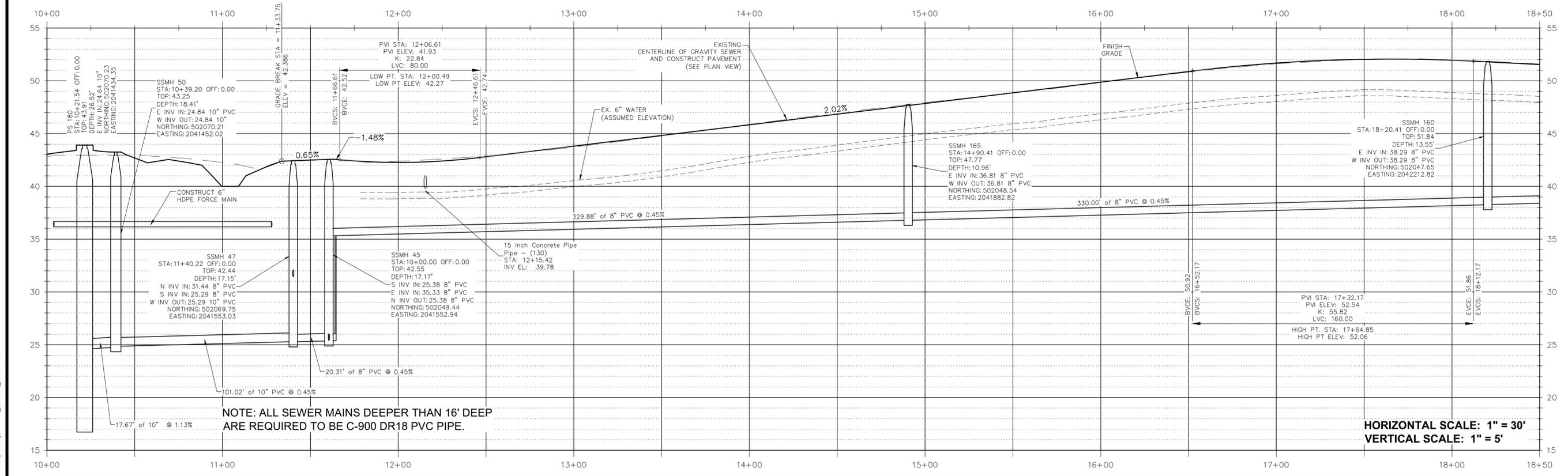
FINAL CONSTRUCTION PLANS

November 28, 2017 10:10:05 EST  
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TREE LEGEND		LEGEND	
(X)	Tree To Be Removed	SS	Proposed Sanitary Sewer Main
(TR)	Technically Removed Tree	FW	Proposed Sanitary Sewer Force Main
(T)	Tree On Private Property To Be Impacted By Construction	SM	Proposed Water Main
		WS	Proposed 1" Water Service w/ 1/2" Meter
		SL	Proposed 4" Sanitary Sewer Lateral
		CS	Proposed Geosynthetic Check Structure
		TP	Proposed Tree Protection
		SB	Proposed Silt Fence
		FL	Proposed Fiber Log Barrier



10+00	11+00	12+00	13+00	14+00	15+00	16+00	17+00	18+00	18+50
42.60	42.92	42.26	42.45	42.492	42.36	42.27	42.87	42.804	43.72
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									45.63
									46.96
									46.842
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									49.87
									50.83
									50.879
									51.61
									51.68
									52.00
									52.041
									51.96
									51.95
									51.59
									51.54

GGL LLC dba GENESIS  
 2507 CALLAWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
 (850) 224-4400 (850) 681-3600 FAX  
 FL CA 00095960 FL LC 26000202

**LEON COUNTY PUBLIC WORKS**

**PLAN AND PROFILE - FLAGG STREET: 10+00 TO STA: 18+50**

**WOODSIDE HEIGHTS WASTEWATER RETROFIT**

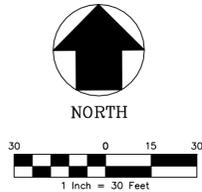
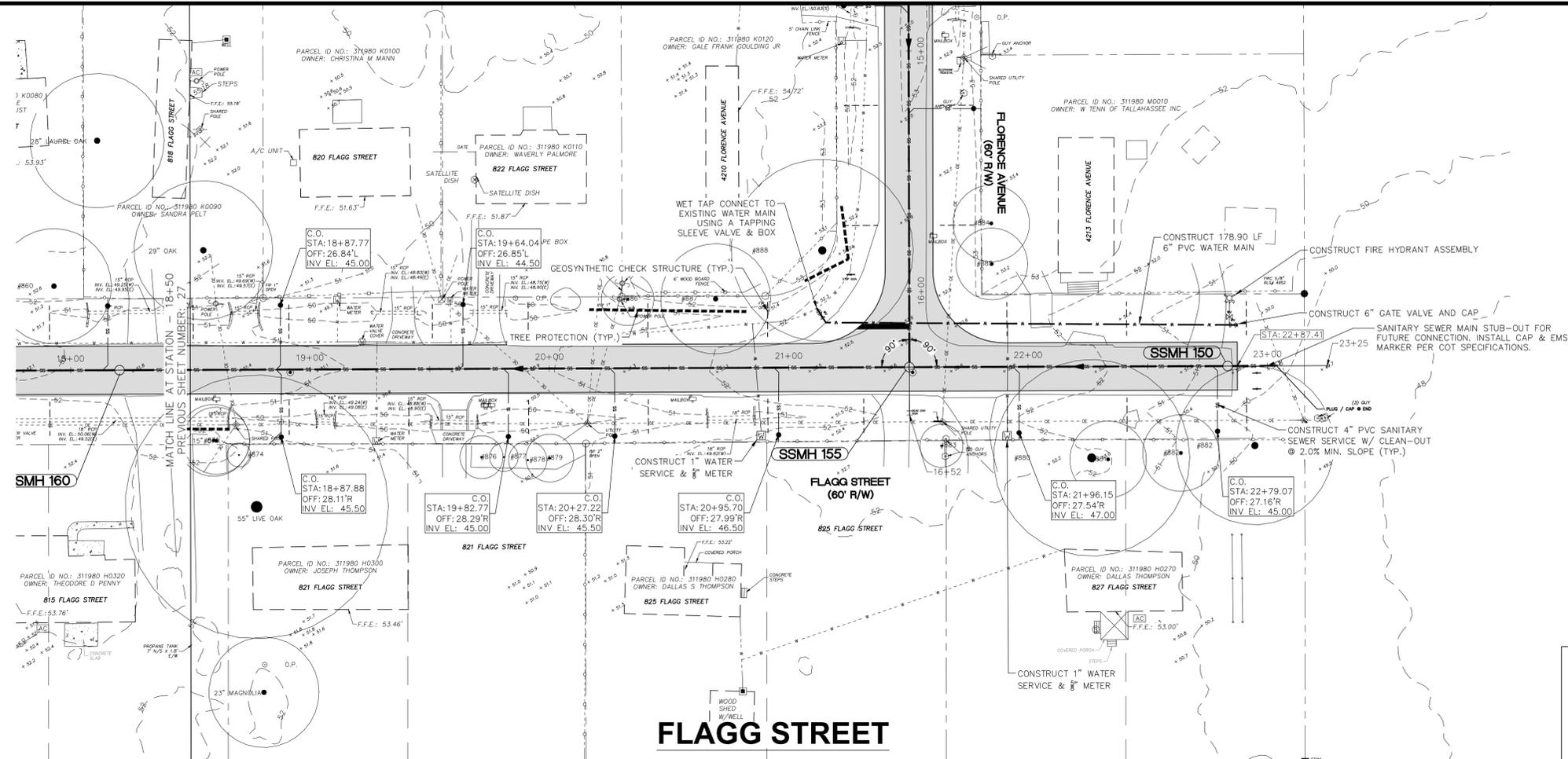
FINAL CONSTRUCTION PLANS

NO.	DATE	DESCRIPTION	CHECKED BY:	REVISIONS
1			D.W.H.	C.S.B.
2			AD/RSR	1" = 30"
3				11/28/17

PROJECT NUMBER: LCP3-043  
 DATE: 11/28/17  
 SCALE: 1" = 30"  
 DRAWN BY: AD/RSR  
 CHECKED BY: D.W.H.  
 DESIGNED BY: D.W.H.

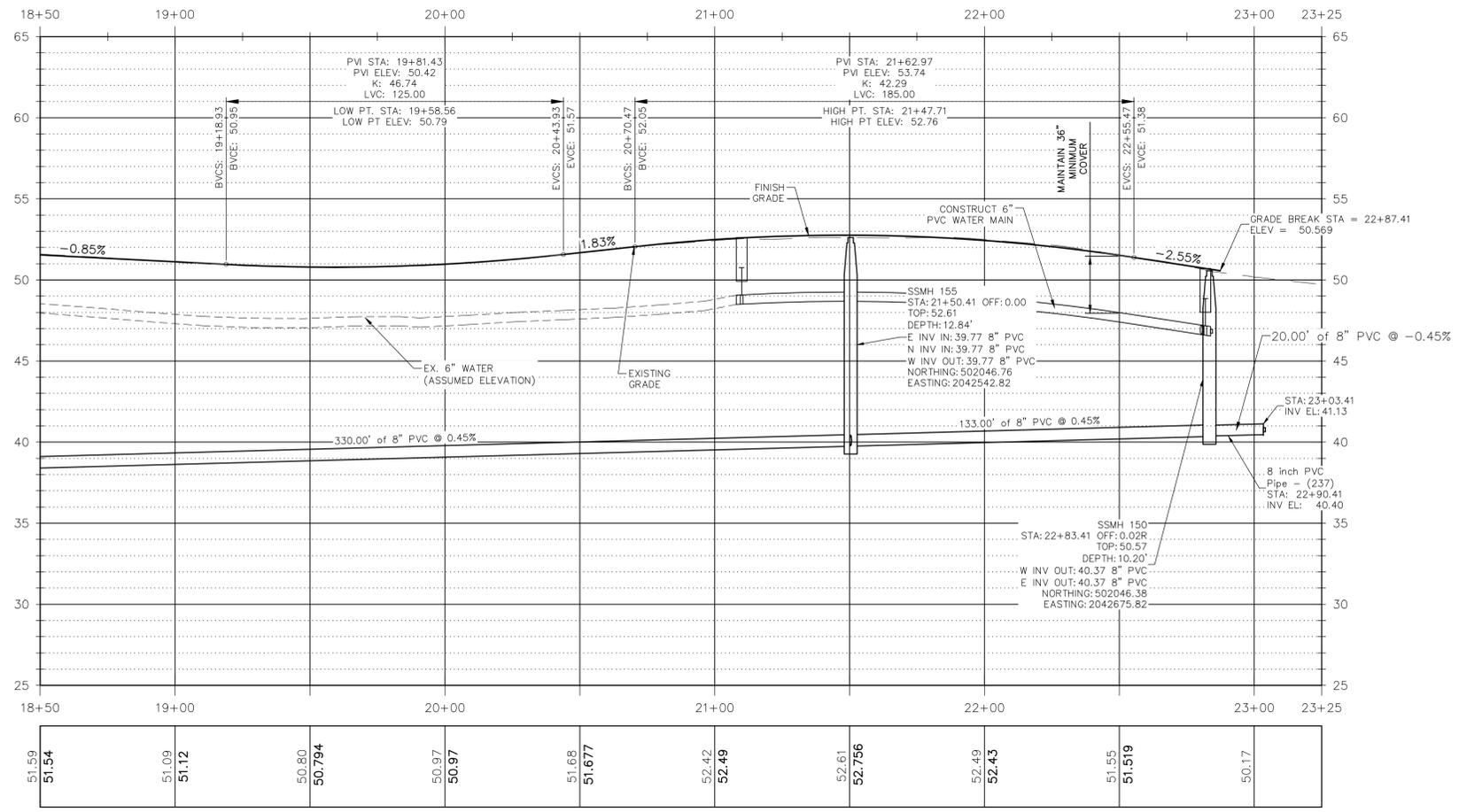
David W. Hutcheson, P.E.  
 License Number 38670

SHEET TITLE: PLAN AND PROFILE - FLAGG STREET: 10+00 TO STA: 18+50  
 SHEET NUMBER: 27



**LEGEND**

- SS — Proposed Sanitary Sewer Main
- FW — Proposed Sanitary Sewer Force Main
- W — Proposed Water Main
- WS — Proposed 1" Water Service w/ 8" Meter
- SL — Proposed 4" Sanitary Sewer Lateral
- GS — Proposed Geosynthetic Check Structure
- TP — Proposed Tree Protection
- SF — Proposed Silt Fence
- RL — Proposed Fiber Log Barrier



18+50	19+00	20+00	21+00	22+00	23+00	23+25
51.59	51.09	50.80	51.68	52.42	51.55	50.17
<b>51.54</b>	<b>51.12</b>	<b>50.794</b>	<b>51.677</b>	<b>52.49</b>	<b>51.519</b>	
		50.97				

HORIZONTAL SCALE: 1" = 30' VERTICAL SCALE: 1" = 5'

NO.	DATE	DESCRIPTION	CHECKED BY:	REVISIONS
			D.W.H.	C.S.B.
			AD /SR	1" = 30'
				PROJECT NUMBER LCP3-043
				DATE 11/28/17

David W. Hutchinson, P.E.  
License Number 38670

SEAL

GGL LLC dba GENESIS  
2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
(850) 224-4400 (850) 681-3600 FAX  
FL CA 000095660 FL LC 2-6000202

**LEON COUNTY  
PUBLIC WORKS**

PREPARED BY: **GENESIS**  
FROM VISION TO REALITY

PREPARED FOR:

**WOODSIDE HEIGHTS  
WASTEWATER RETROFIT**

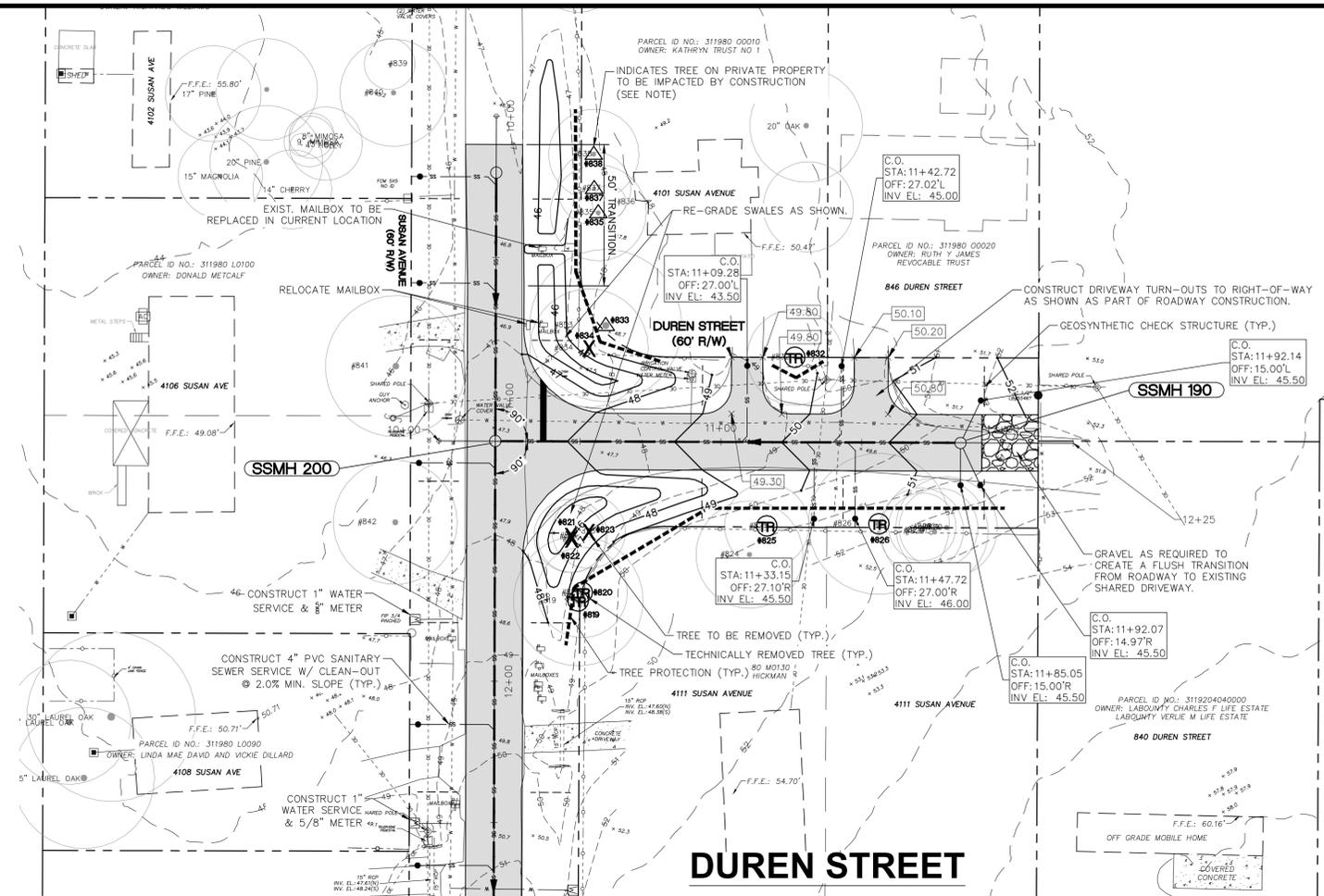
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STA: 18+50 TO STA: 23+25**

PROJECT NAME: **WOODSIDE HEIGHTS  
WASTEWATER RETROFIT**

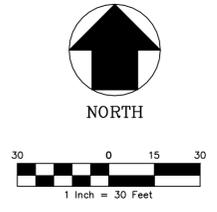
SHEET NUMBER: **28**

FINAL CONSTRUCTION PLANS

November 28, 2017 10:10:05 EST  
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NOTE:  
FOR IMPACTED TREES ON PRIVATE PROPERTY, CONTRACTOR IS RESPONSIBLE TO PROVIDE ONE OF THE FOLLOWING TO THE LEON COUNTY ENVIRONMENTAL INSPECTOR AT THE TIME OF REQUEST FOR FINAL INSPECTION:  
1. NOTARIZED LETTER FROM PROPERTY OWNER AGREEING TO TREE REMOVAL; OR  
2. WRITTEN CERTIFICATION BY AN ISA CERTIFIED ARBORIST THAT MITIGATION PRACTICES DURING CONSTRUCTION HAVE BEEN EMPLOYED TO THE EXTENT THAT THE TREE HAS NOT BEEN CRITICALLY DAMAGED BY THE CONSTRUCTION.



TREE LEGEND		LEGEND	
	Tree To Be Removed		Proposed Sanitary Sewer Main
	Technically Removed Tree		Proposed Sanitary Sewer Force Main
	Tree On Private Property To Be Impacted By Construction		Proposed Water Main
			Proposed 1\"/>

NO.	DATE	DESCRIPTION	CHECKED BY:	REVISIONS
			D.W.H.	C.S.B.
			AD/ SR	AD/ SR

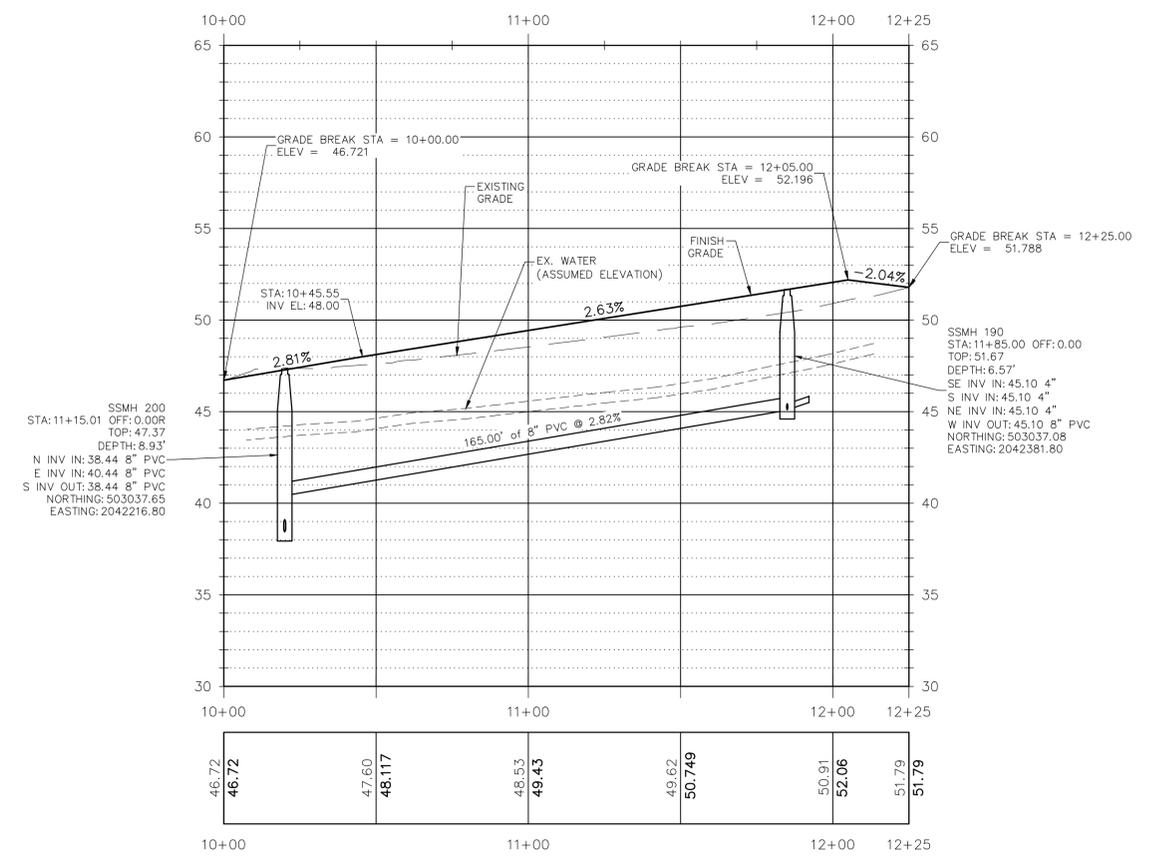
PROJECT NUMBER: LCP5-043  
DATE: 11/28/17

David W. Hutcheson, P.E.  
License Number 38670

GGL LLC dba GENESIS  
2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
(850) 224-4400 (850) 681-3600 FAX  
FL CA 000095660 FL LC 26000202

**LEON COUNTY PUBLIC WORKS**

November 28, 2017 (10:10:05 EST)  
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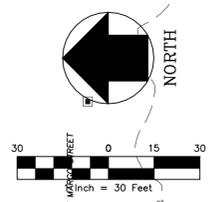
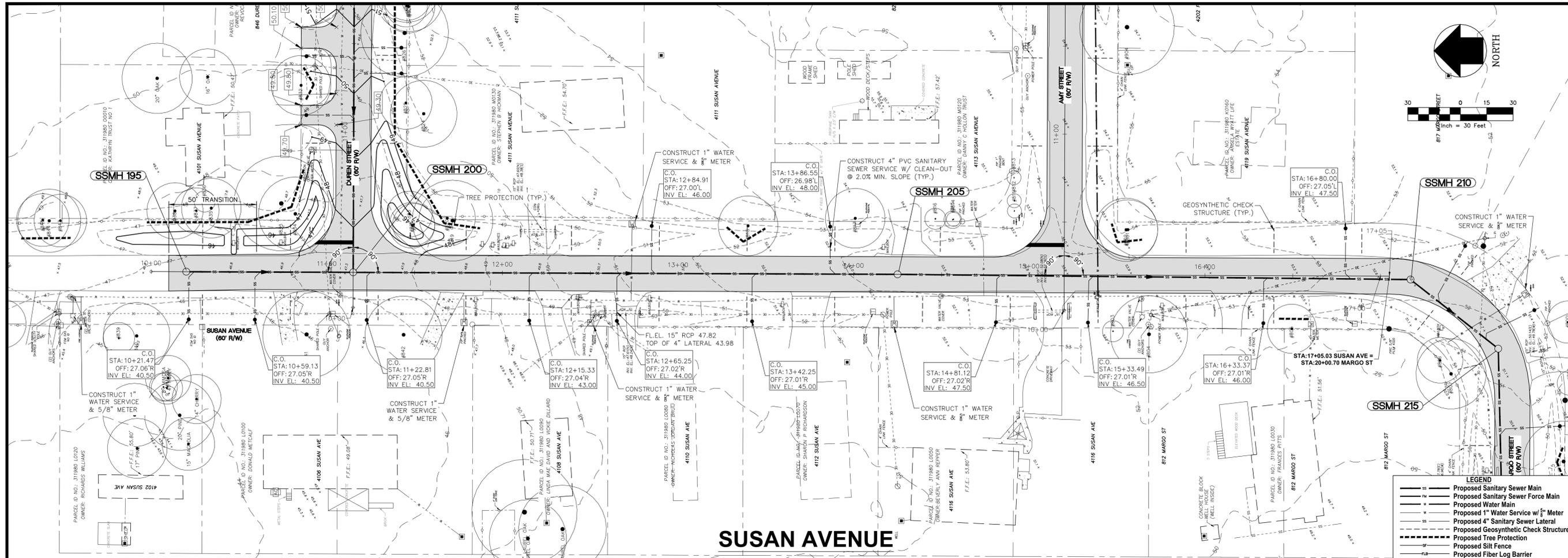
**PLAN AND PROFILE DUREN**  
**STA: 10+00 TO STA: 12+25**

**WOODSIDE HEIGHTS**  
**WASTEWATER RETROFIT**

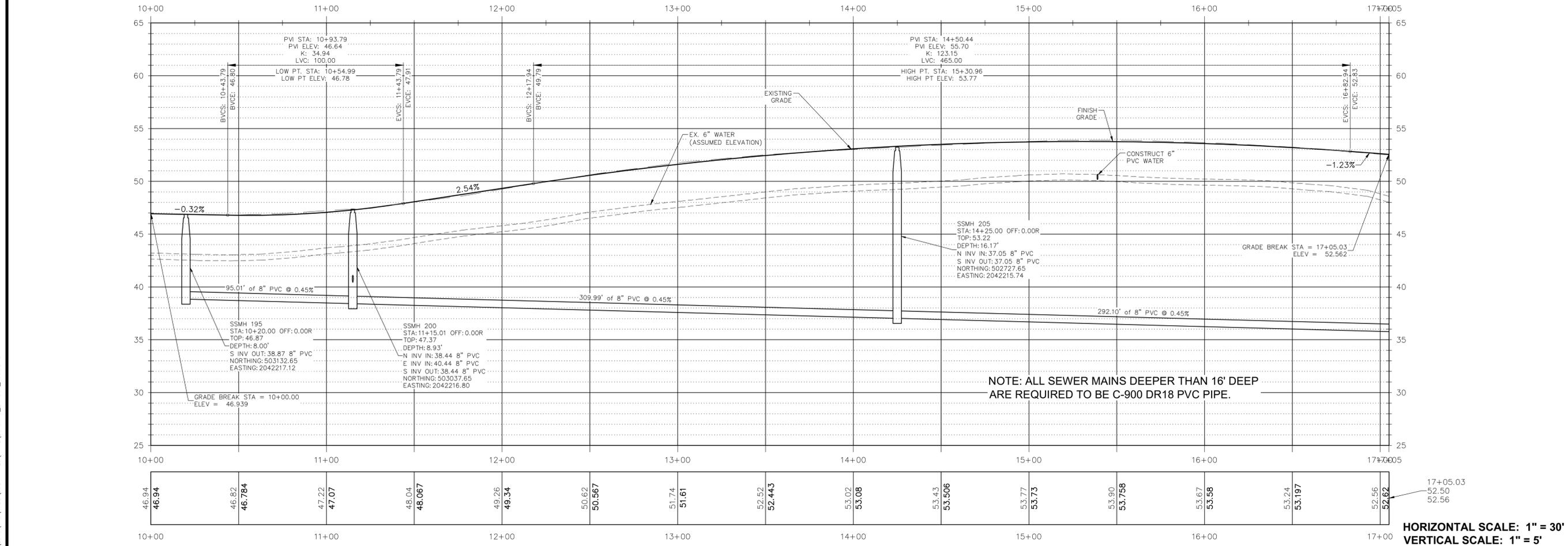
FINAL CONSTRUCTION PLANS

SHEET NUMBER: 29

HORIZONTAL SCALE: 1" = 30' VERTICAL SCALE: 1" = 5'



- LEGEND**
- Proposed Sanitary Sewer Main
  - Proposed Sanitary Sewer Force Main
  - Proposed Water Main
  - Proposed 1" Water Service w/ 5/8" Meter
  - Proposed 4" Sanitary Sewer Lateral
  - Proposed Geosynthetic Check Structure
  - Proposed Tree Protection
  - Proposed Silt Fence
  - Proposed Fiber Log Barrier



46.94	46.82	47.22	48.04	49.26	50.62	51.74	52.52	53.02	53.43	53.77	53.90	53.67	53.24	52.56
46.94	46.784	47.07	48.067	48.34	50.567	51.61	52.443	53.08	53.506	53.73	53.766	53.58	53.197	52.62
10+00	11+00	12+00	13+00	14+00	15+00	16+00	17+00							

HORIZONTAL SCALE: 1" = 30'  
 VERTICAL SCALE: 1" = 5'

NO.	DATE	DESCRIPTION	CHECKED BY:	REVISIONS
1			D.W.H.	C.S.B.
DESIGNED BY:				PROJECT NUMBER
DRAWN BY:				LCP5-043
				DATE
				11/28/17

GGL LLC dba GENESIS  
 2507 CALLAWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
 (850) 224-4400 (850) 681-3600 FAX  
 FL CA 000095660 FL LC 2600020

**GENESIS**  
 FROM VISION TO REALITY

LEON COUNTY  
**PUBLIC WORKS**

PREPARED FOR  
**LEON COUNTY**

PREPARED BY  
**GENESIS**

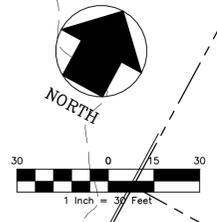
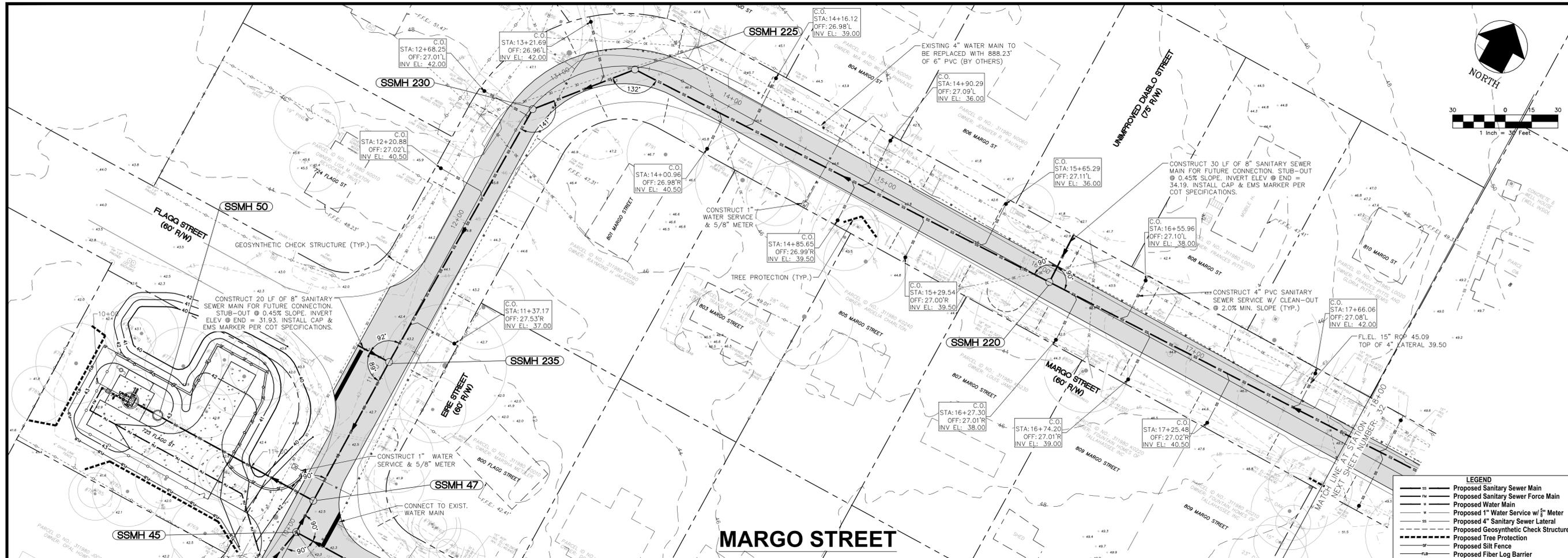
SHEET TITLE  
**PLAN AND PROFILE SUSAN**

PROJECT NAME  
**WOODSIDE HEIGHTS WASTEWATER RETROFIT**

SHEET NUMBER  
**30**

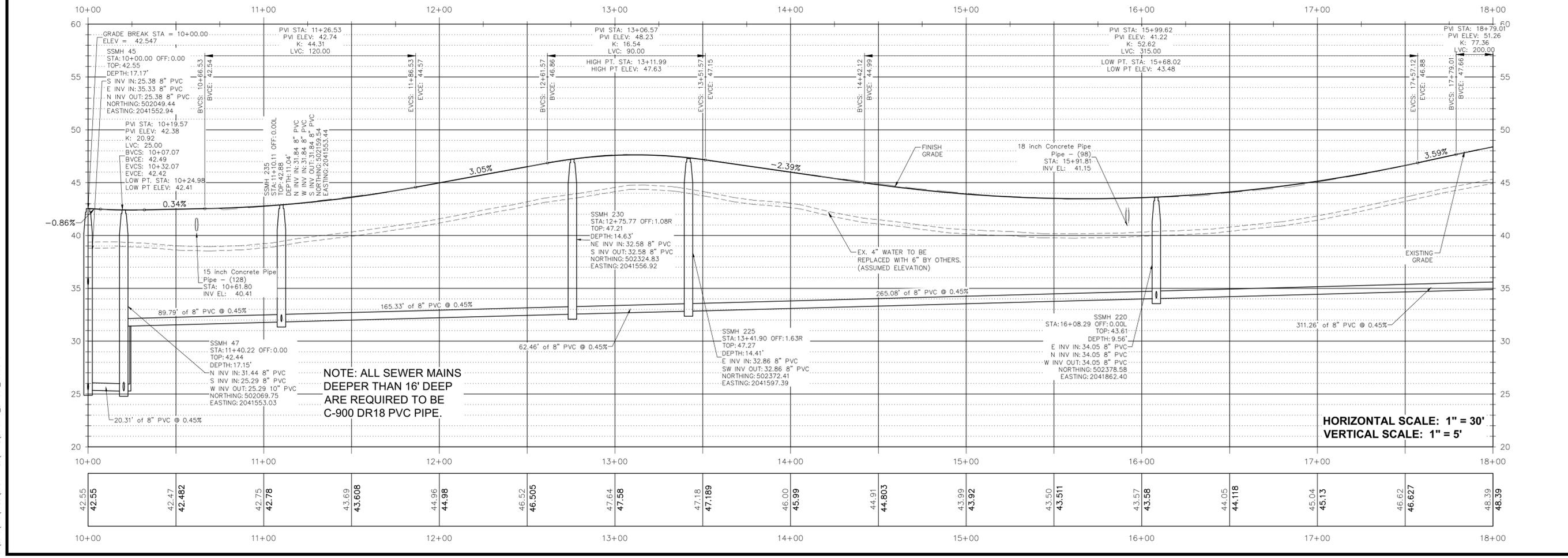
DATE  
**11/28/17**

November 28, 2017 10:10:05 EST  
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**LEGEND**

- 18" Proposed Sanitary Sewer Main
- 18" Proposed Sanitary Sewer Force Main
- Proposed Water Main
- Proposed 1" Water Service w/ 5/8" Meter
- Proposed 4" Sanitary Sewer Lateral
- Proposed Geosynthetic Check Structure
- - - Proposed Tree Protection
- - - Proposed Silt Fence
- - - Proposed Fiber Log Barrier



**NOTE: ALL SEWER MAINS DEEPER THAN 16' DEEP ARE REQUIRED TO BE C-900 DR18 PVC PIPE.**

NO.	DATE	DESCRIPTION	CHECKED BY	REVISIONS

PROJECT NUMBER: LCP5-043  
DATE: 11/28/17

DESIGNED BY: D.W.H.  
DRAWN BY: AD/RS

David W. Hutcheon, P.E.  
License Number 38670

GGL LLC dba GENESIS  
2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
(850) 224-4400 (850) 681-3600 FAX  
FL CA 000095660 FL LC 26000202

**GENESIS**  
FROM VISION TO REALITY

LEON COUNTY  
PUBLIC WORKS

PREPARED BY: GGL LLC dba GENESIS  
PREPARED FOR: LEON COUNTY

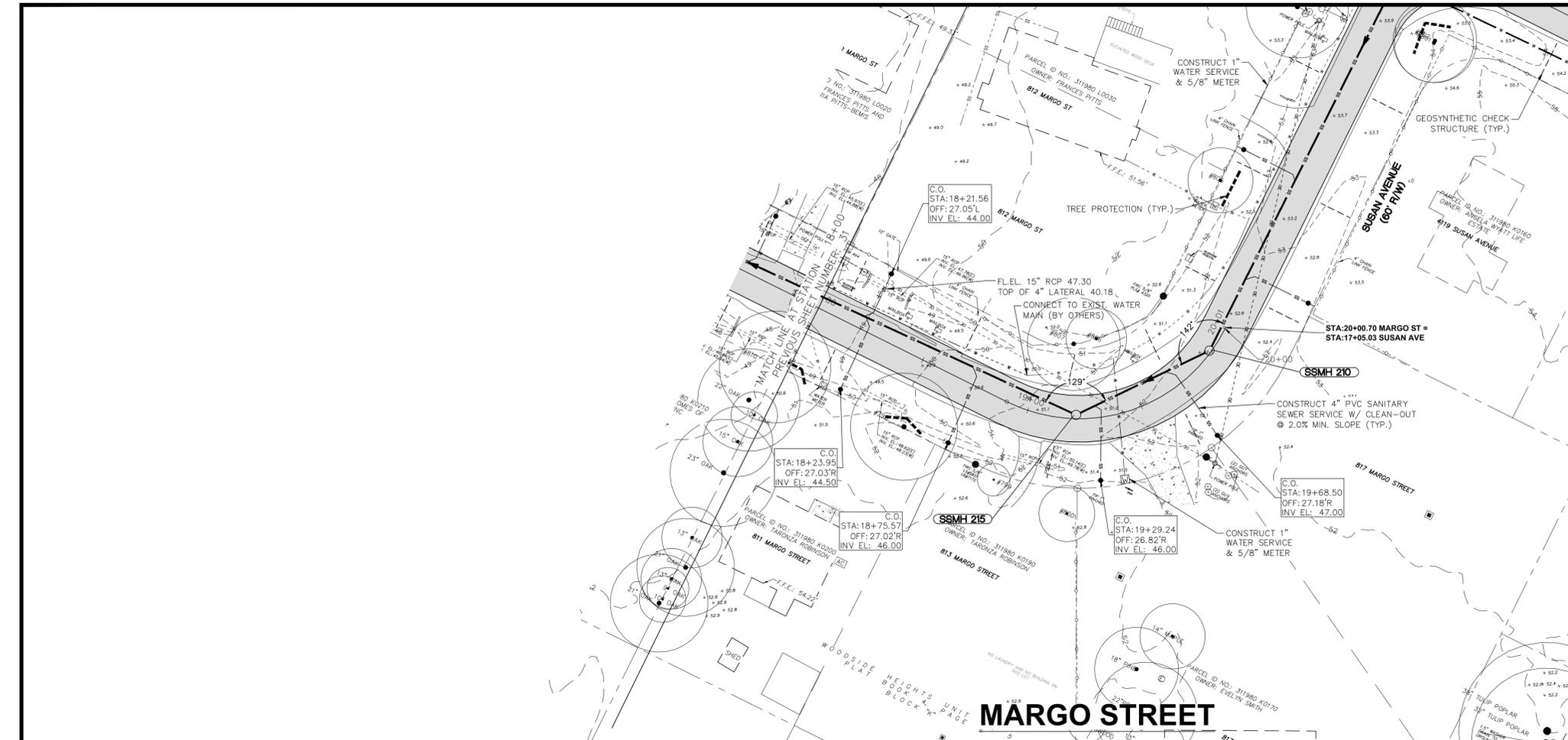
**PLAN AND PROFILE MARGO  
STA: 10+00 TO STA: 18+00**

**WOODSIDE HEIGHTS  
WASTEWATER RETROFIT**

FINAL CONSTRUCTION PLANS

SHEET NUMBER: 31

November 28, 2017 (10:10:05 EST)  
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**LEGEND**

- SS — Proposed Sanitary Sewer Main
- FW — Proposed Sanitary Sewer Force Main
- W — Proposed Water Main
- 1" — Proposed 1" Water Service w/ 5/8" Meter
- 4" — Proposed 4" Sanitary Sewer Lateral
- - - - Proposed Geosynthetic Check Structure
- T — Proposed Tree Protection
- - - - Proposed Silt Fence
- - - - Proposed Fiber Log Barrier

NO.	DATE	DESCRIPTION	CHECKED BY:	REVISIONS

DESIGNED BY: **D.W.H.**  
 DRAWN BY: **AD /SR**

PROJECT NUMBER: **LCP3-043**  
 DATE: **11/28/17**  
 SCALE: **1" = 30'**

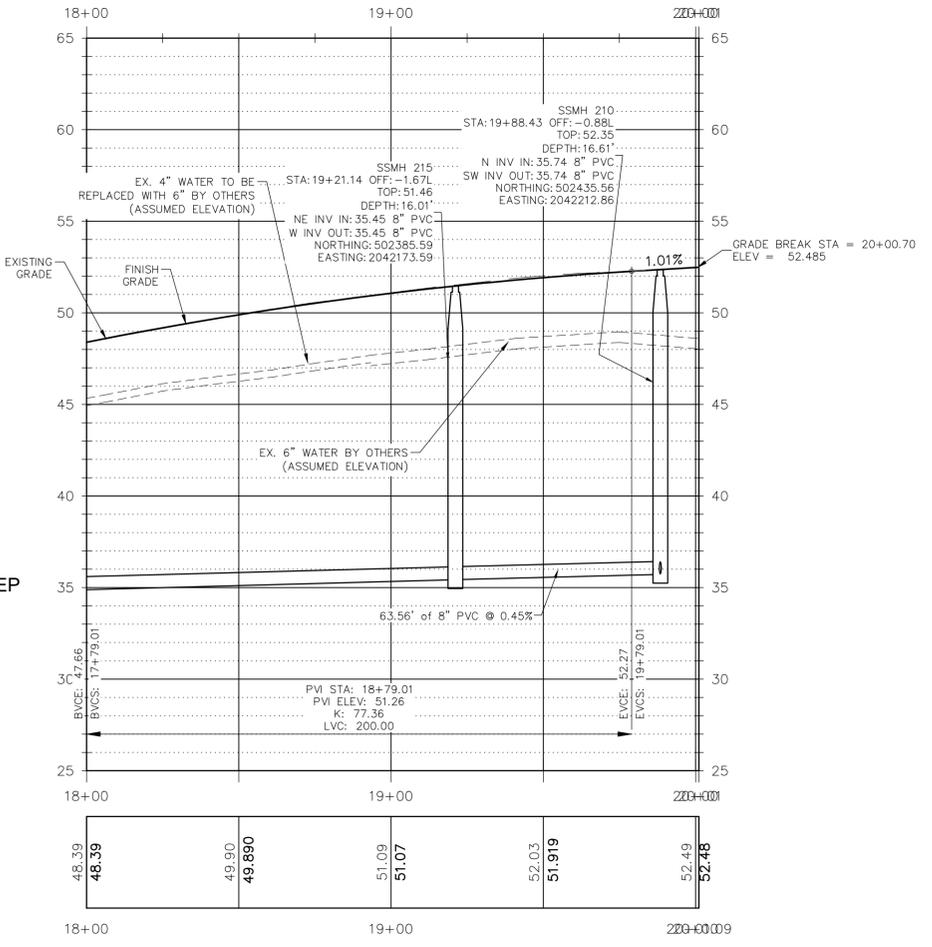
David W. Hutcheson, P.E.  
 License Number 38670

GGL LLC dba GENESIS  
 2507 CALLAWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
 (850) 224-4400 (850) 681-3600 FAX  
 FL CA 000095660 FL LC 26000202

**GENESIS**  
 FROM VISION TO REALITY

**LEON COUNTY**  
**PUBLIC WORKS**

NOTE: ALL SEWER MAINS DEEPER THAN 16' DEEP ARE REQUIRED TO BE C-900 DR18 PVC PIPE.



HORIZONTAL SCALE: 1" = 30' VERTICAL SCALE: 1" = 5'

SHEET TITLE: **PLAN AND PROFILE MARGO STA: 18+00 TO STA: 20+01**

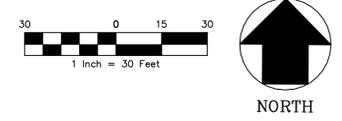
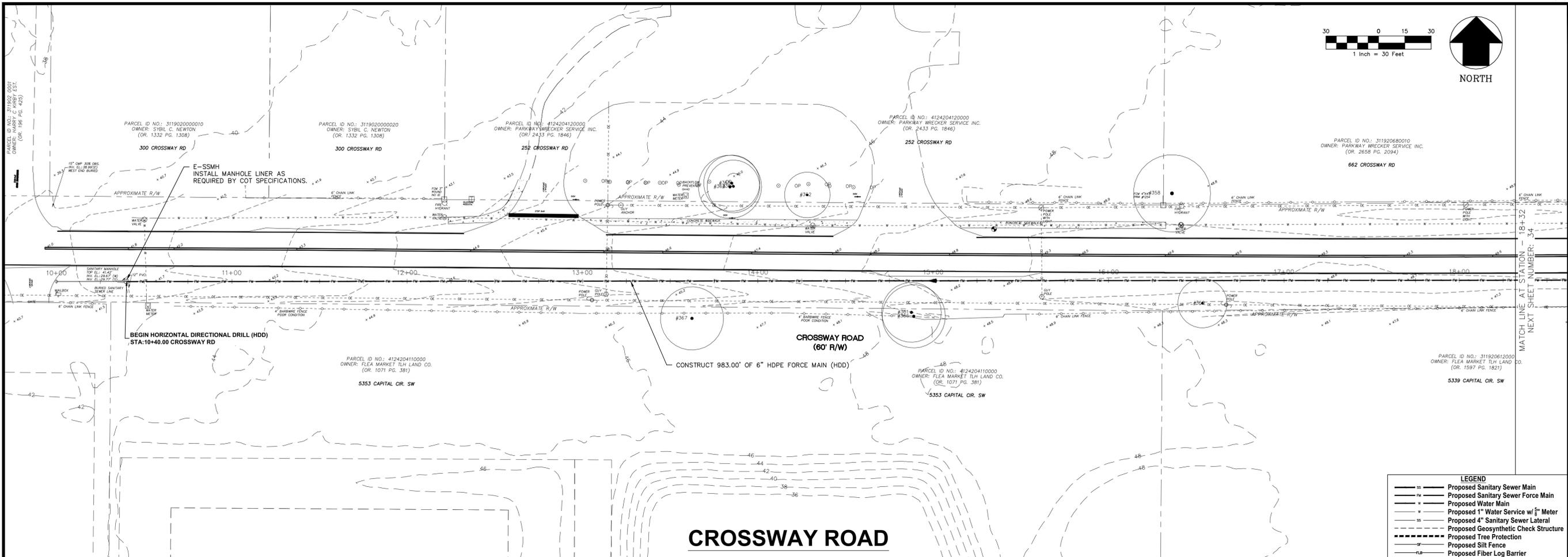
PROJECT NAME: **WOODSIDE HEIGHTS WASTEWATER RETROFIT**

SHEET NUMBER: **32**

FINAL CONSTRUCTION PLANS

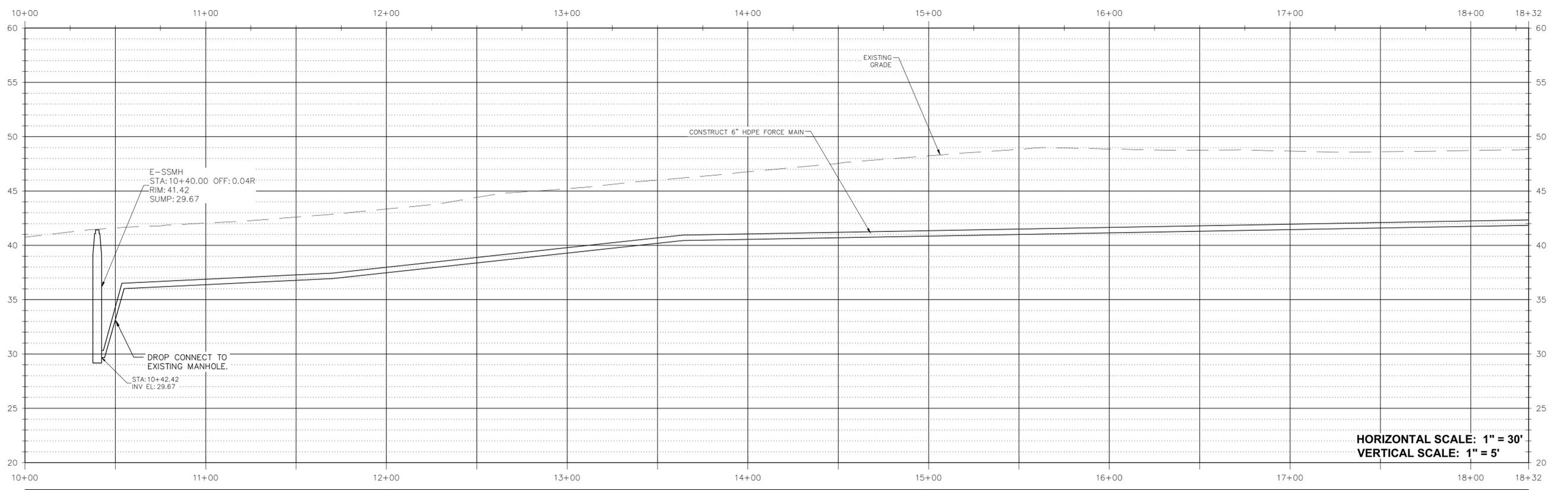
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**LEGEND**

- SS Proposed Sanitary Sewer Main
- FW Proposed Sanitary Sewer Force Main
- W Proposed Water Main
- 1" Proposed 1" Water Service w/ 5' Meter
- 4" Proposed 4" Sanitary Sewer Lateral
- Proposed Geosynthetic Check Structure
- Proposed Tree Protection
- Proposed Silt Fence
- Proposed Fiber Log Barrier



40.75	41.60	42.05	42.60	43.34	44.41	45.21	46.01	46.77	47.54	48.23	48.84	48.87	48.76	48.67	48.61	48.73	48.80
10+00	11+00	12+00	13+00	14+00	15+00	16+00	17+00	18+00	18+32								

NO.	DATE	DESCRIPTION	REVISIONS
DESIGNED BY:	D.W.H.	CHECKED BY:	C.S.B.
DRAWN BY:	AD/RS	SCALE:	1" = 30'
PROJECT NUMBER:	LCP5-043	DATE:	11/28/17

David W. Hutcheson, P.E.  
License Number 38670

GGL LLC dba GENESIS  
2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
(850) 224-4400 (850) 681-3600 FAX  
FL CA 000095660 FL LC 26000202

**LEON COUNTY  
PUBLIC WORKS**

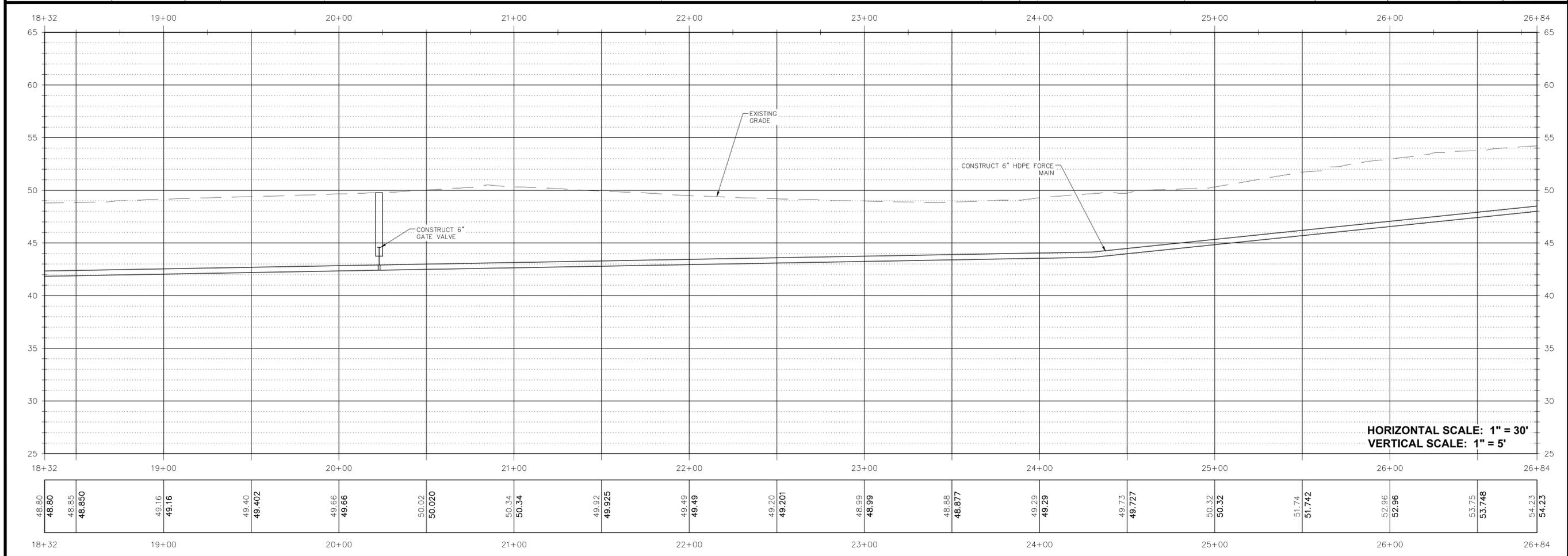
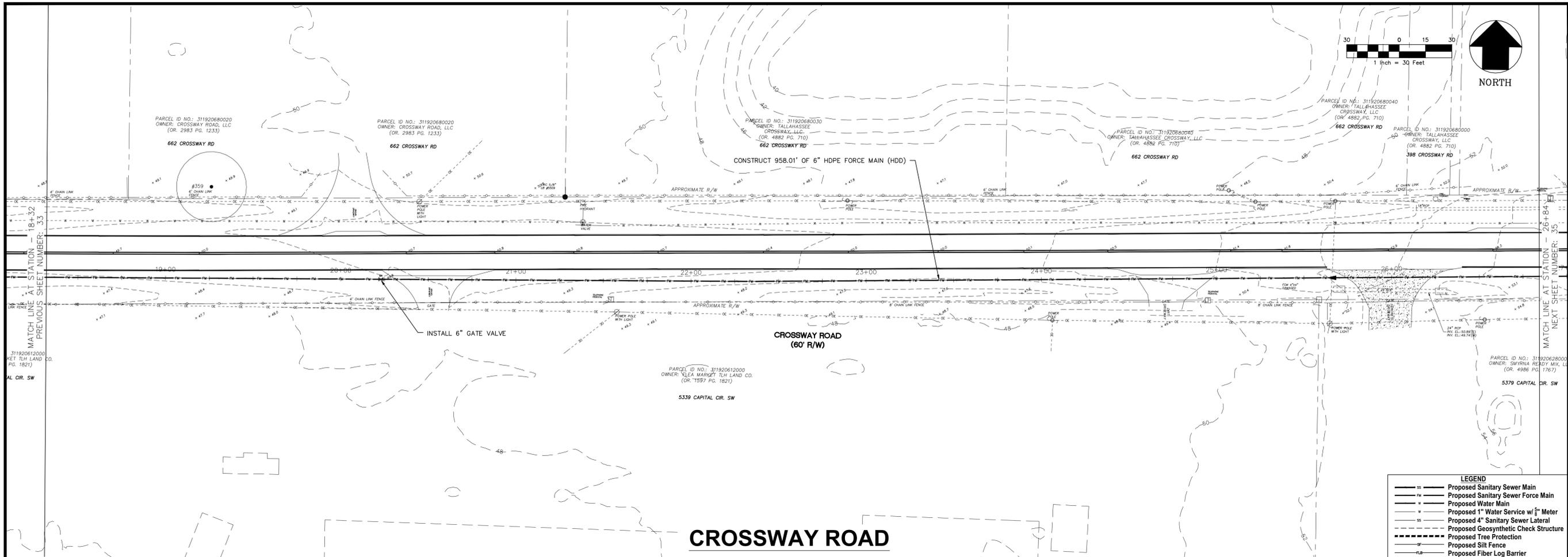
**PLAN AND PROFILE CROSSWAY  
STA: 10+00 TO STA: 18+32**

**WOODSIDE HEIGHTS  
WASTEWATER RETROFIT**

FINAL CONSTRUCTION PLANS

SHEET NUMBER  
**33**

November 28, 2017 (10:10:05 EST)  
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NO.	DATE	DESCRIPTION	CHECKED BY:	REVISIONS
1			D.W.H.	C.S.B.
2			AD/JSR	
DESIGNED BY:				PROJECT NUMBER
DRAWN BY:				LCP3-043
SCALE:				DATE
1" = 30'				11/28/17

David W. Hutchison, P.E.  
License Number 38670

GGL LLC dba GENESIS  
2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
(850) 224-4400 (850) 681-3600 FAX  
FL CA 000095660 FL LC 26000202

**LEON COUNTY**  
**PUBLIC WORKS**

PREPARED BY: GENESIS  
PREPARED FOR:

**PLAN AND PROFILE CROSSWAY**  
**STA: 18+32 TO STA: 26+84**

**WOODSIDE HEIGHTS**  
**WASTEWATER RETROFIT**

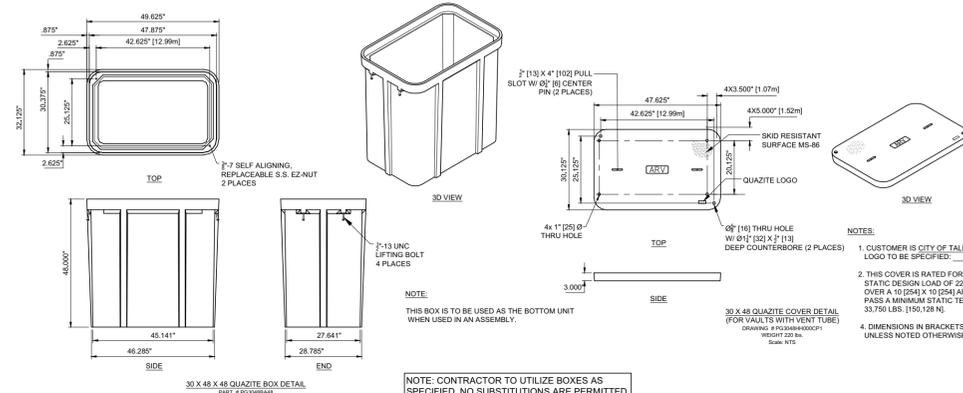
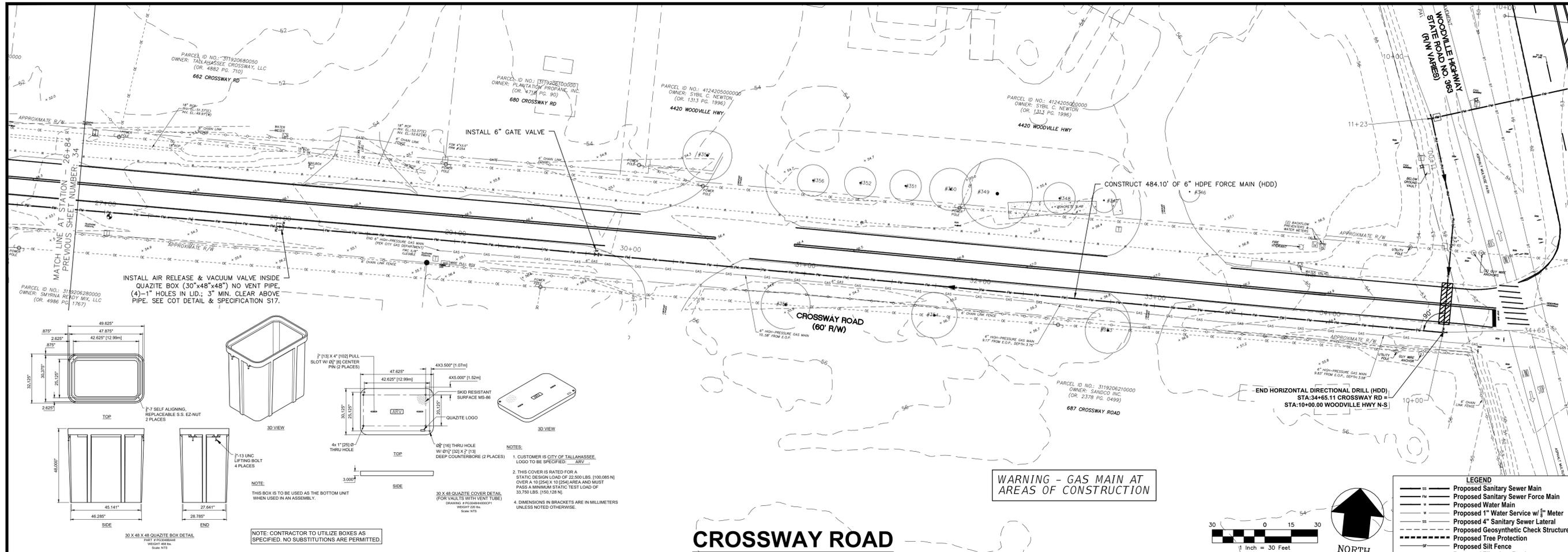
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SHEET NUMBER

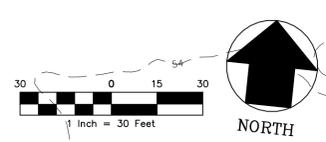
**34**

FINAL CONSTRUCTION PLANS

November 28, 2017 (10:10:05 EST)  
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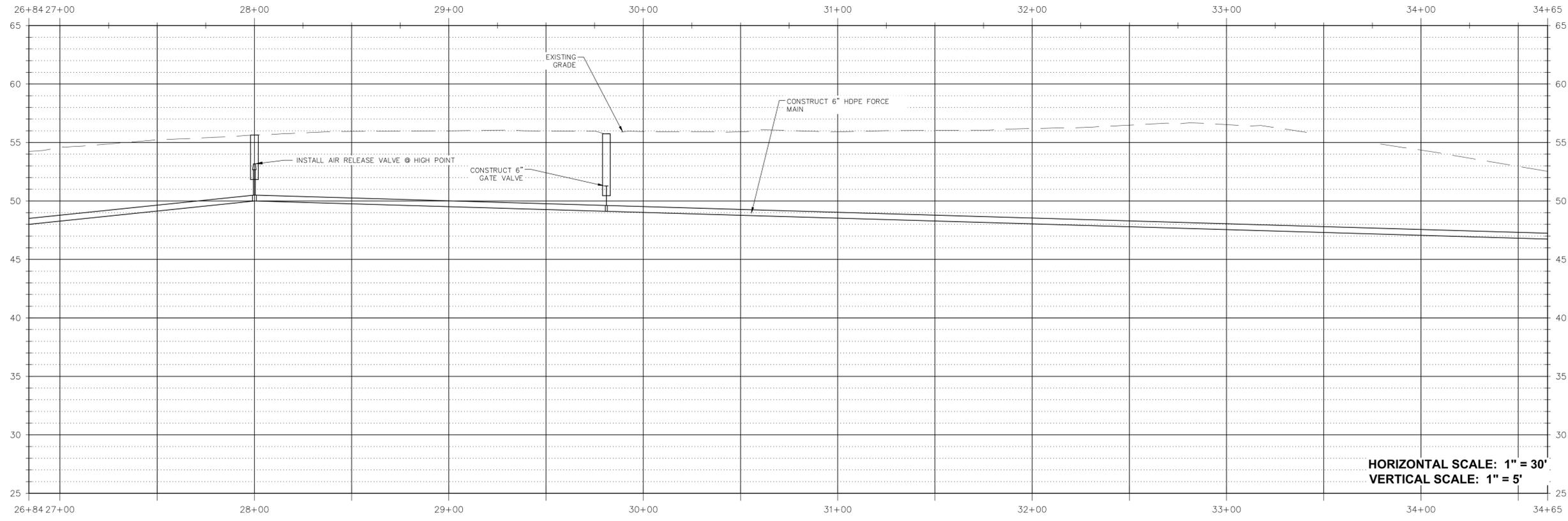


**WARNING - GAS MAIN AT AREAS OF CONSTRUCTION**



**LEGEND**

- SS Proposed Sanitary Sewer Main
- FSW Proposed Sanitary Sewer Force Main
- WM Proposed Water Main
- WS 1" Water Service w/ 5/8" Meter
- SSL Proposed 4" Sanitary Sewer Lateral
- CS Proposed Geosynthetic Check Structure
- PT Proposed Tree Protection
- SF Proposed Silt Fence
- FLB Proposed Fiber Log Barrier



HORIZONTAL SCALE: 1" = 30'  
VERTICAL SCALE: 1" = 5'

54.23	55.21	55.95	55.99	55.98	55.92	56.03	56.19	56.48	56.52	52.96	52.53
<b>54.23</b>	<b>55.215</b>	<b>55.945</b>	<b>55.99</b>	<b>55.981</b>	<b>55.915</b>	<b>56.027</b>	<b>56.19</b>	<b>56.482</b>	<b>56.52</b>	<b>52.956</b>	<b>52.53</b>
26+84.27+00	28+00	29+00	30+00	31+00	32+00	33+00	34+00	34+65.11			

NO.	DATE	DESCRIPTION	CHECKED BY:	REVISIONS
			D.W.H.	C.S.B.
DESIGNED BY:			AD/JSR	PROJECT NUMBER: LCP3-043
DRAWN BY:				DATE: 11/28/17
SCALE:			1" = 30'	

David W. Hutcheon, P.E.  
License Number 38670

GGL LLC dba GENESIS  
2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
(850) 224-4400 (850) 681-3600 FAX  
FL CA 000095660 FL LC 2-6000202

**GENESIS**  
FROM VISION TO REALITY

LEON COUNTY  
PUBLIC WORKS

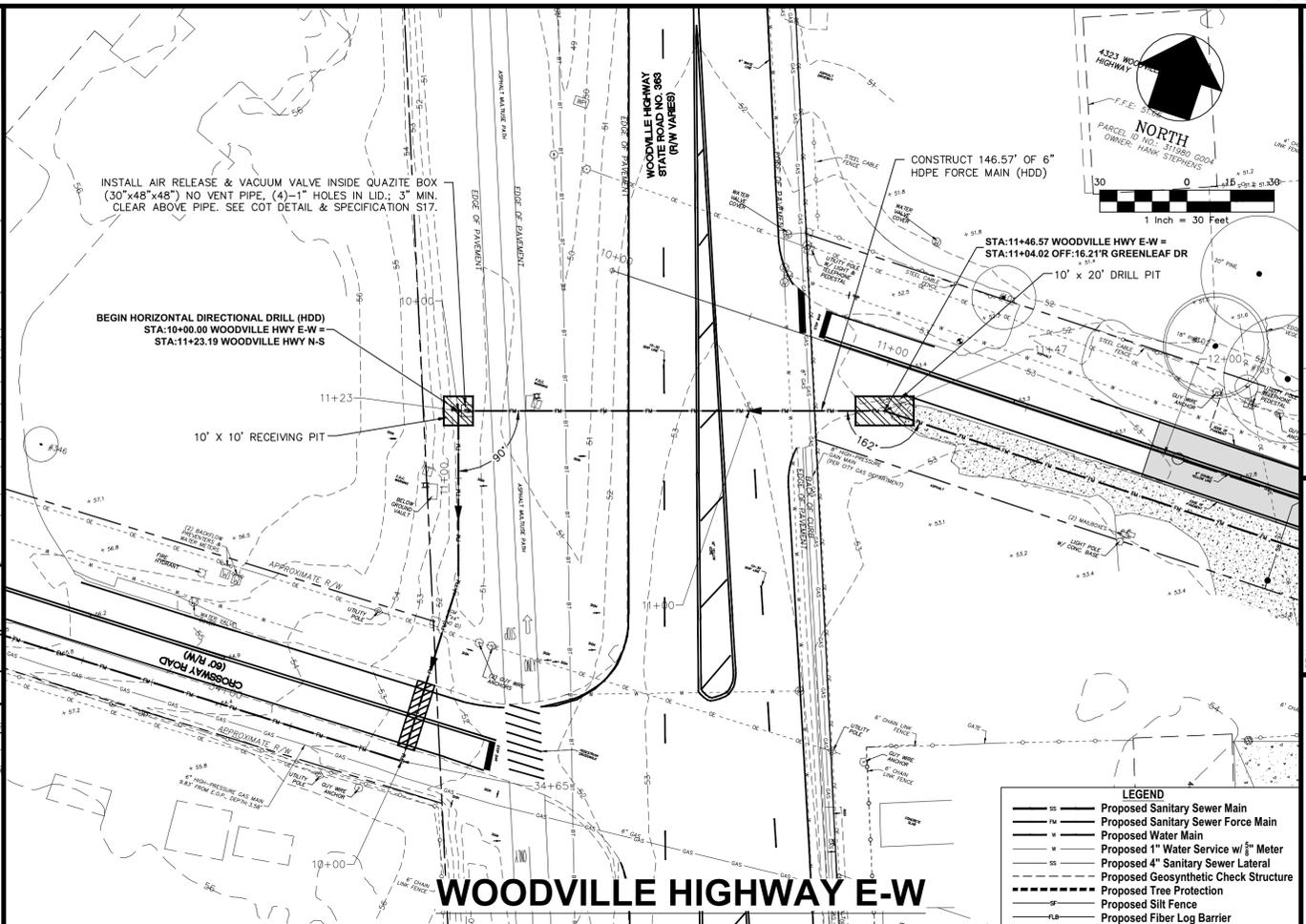
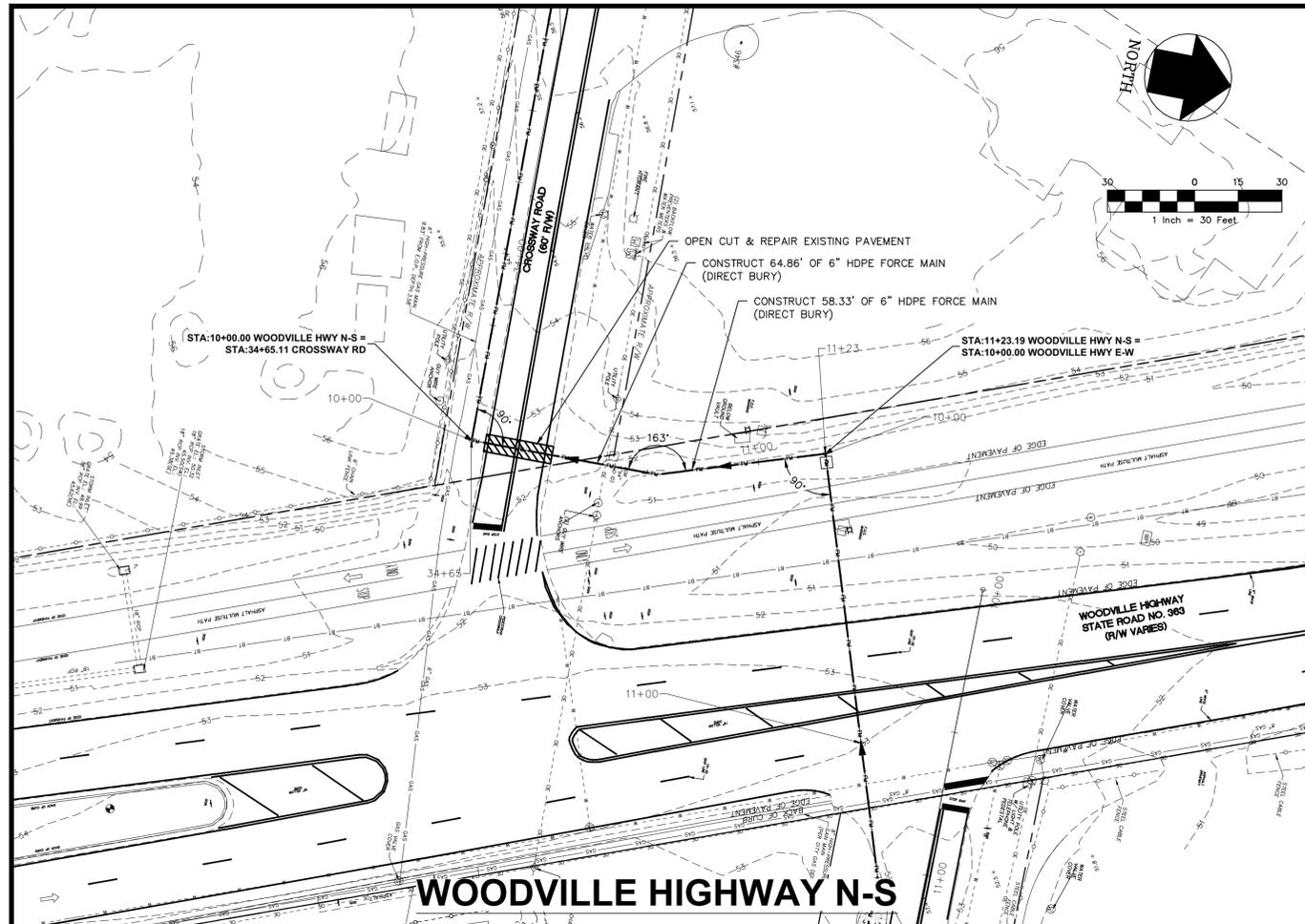
**PLAN AND PROFILE CROSSWAY**  
**STA: 26+84 TO STA: 34+65**

**WOODSIDE HEIGHTS**  
**WASTEWATER RETROFIT**

FINAL CONSTRUCTION PLANS

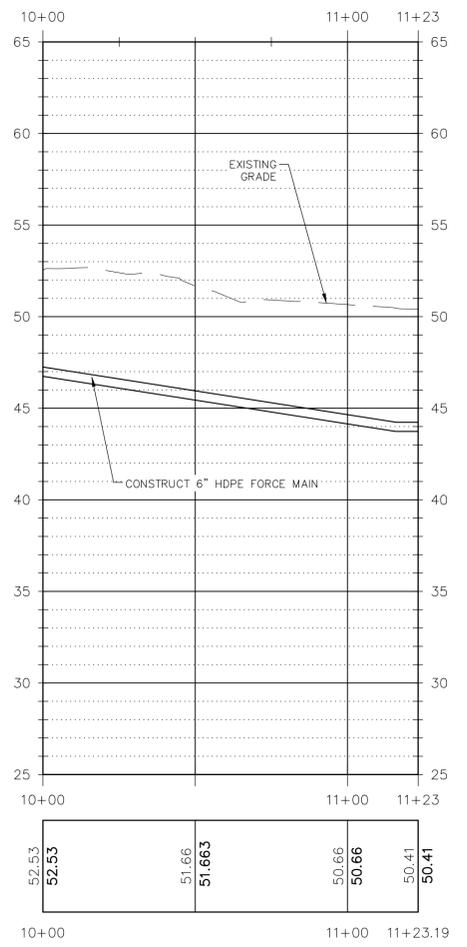
SHEET NUMBER: **35**

November 28, 2017 (10:10:05 EST)  
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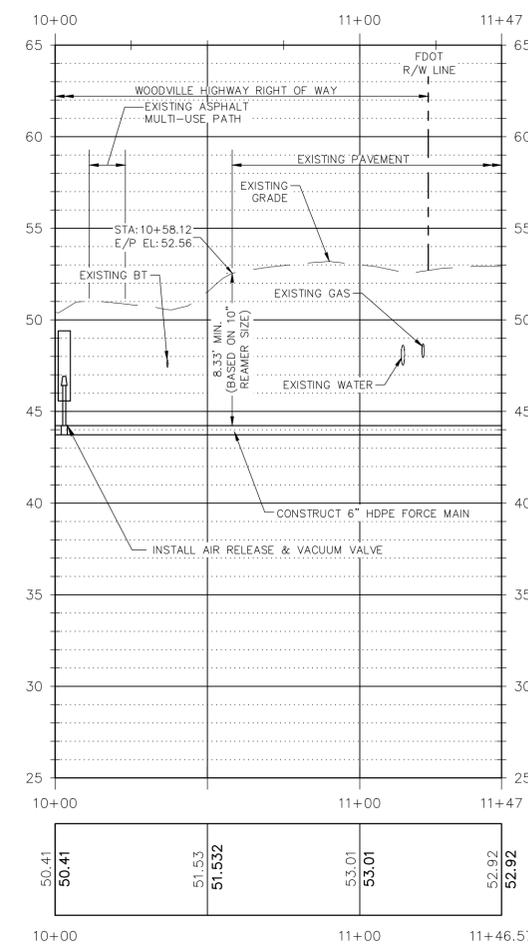


**LEGEND**

- SS — Proposed Sanitary Sewer Main
- FW — Proposed Sanitary Sewer Force Main
- WM — Proposed Water Main
- W 1/2" — Proposed 1" Water Service w 1/2" Meter
- S — Proposed 4" Sanitary Sewer Lateral
- CS — Proposed Geosynthetic Check Structure
- T — Proposed Tree Protection
- SF — Proposed Silt Fence
- FLB — Proposed Fiber Log Barrier



WARNING - GAS MAIN AT AREAS OF CONSTRUCTION



NOTE: DEPTH OF EXISTING UTILITIES SHOWN ARE BASED ON FDOT PLANS FOR WOODVILLE HIGHWAY IMPROVEMENTS. CONTRACTOR IS RESPONSIBLE TO VERIFY ELEVATIONS OF ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION CORRIDOR.

WARNING - GAS MAIN AT AREAS OF CONSTRUCTION

HORIZONTAL SCALE: 1" = 30'  
VERTICAL SCALE: 1" = 5'

NO.	DATE	DESCRIPTION	CHECKED BY:	REVISIONS

DESIGNED BY: D.W.H.  
DRAWN BY: AD /SR  
SCALE: 1" = 30'

PROJECT NUMBER: LCP5-043  
DATE: 11/28/17

David W. Hutchison, P.E.  
License Number 38670

GGL LLC dba GENESIS  
2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
(850) 224-4400 (850) 681-3600 FAX  
FL CA 000095660 FL LC 26000202

**GENESIS**  
FROM VISION TO REALITY

LEON COUNTY  
PUBLIC WORKS

SHEET TITLE  
**PLAN AND PROFILE WOODVILLE**

PROJECT NAME  
**WOODSIDE HEIGHTS WASTEWATER RETROFIT**

SHEET NUMBER  
**36**

FINAL CONSTRUCTION PLANS

STATE OF FLORIDA EROSION & SEDIMENT CONTROL - DESIGNER & REVIEWER MANUAL

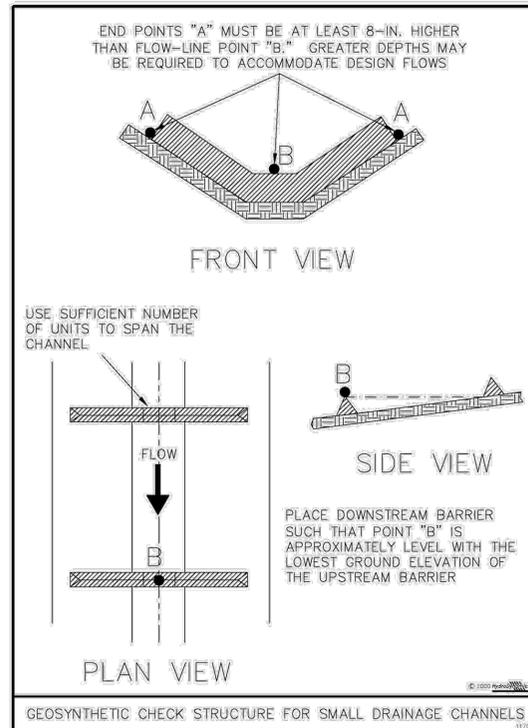


Figure III-10: Geosynthetic Barrier Check Structure for Small Drainage Ditches  
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III-31

STATE OF FLORIDA EROSION & SEDIMENT CONTROL - DESIGNER & REVIEWER MANUAL

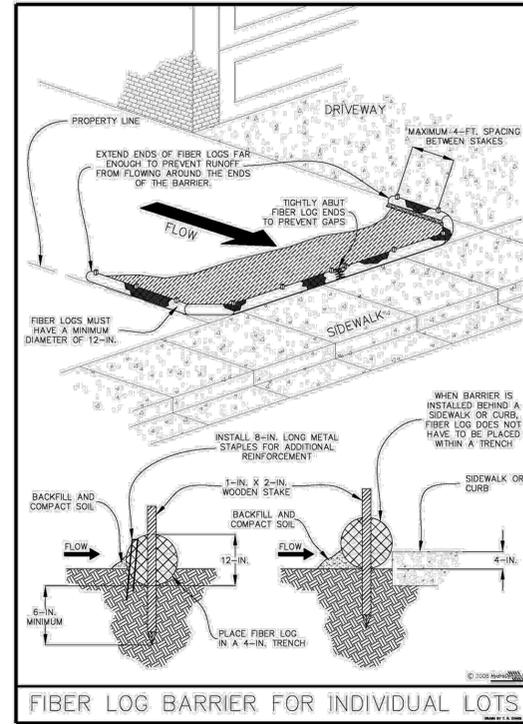
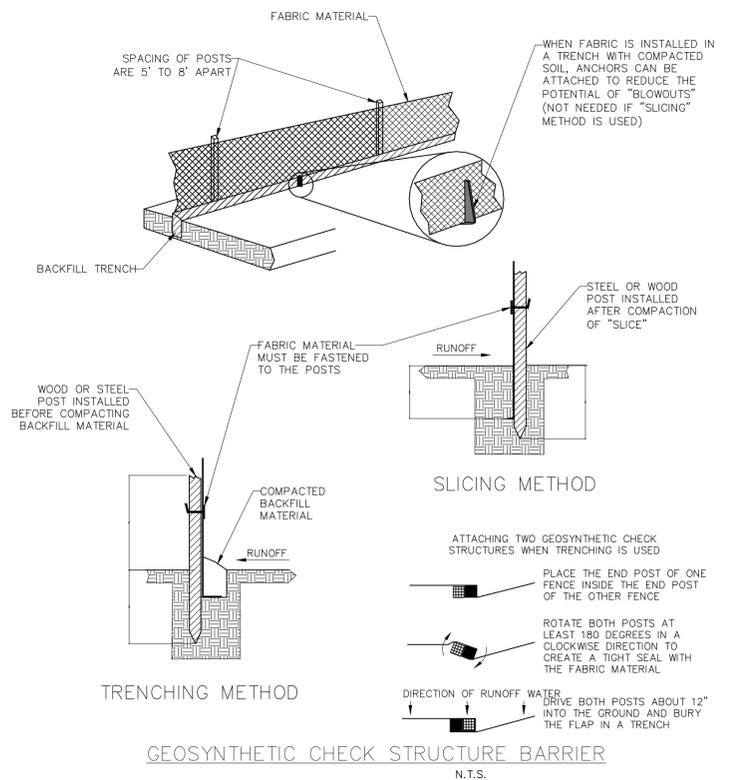
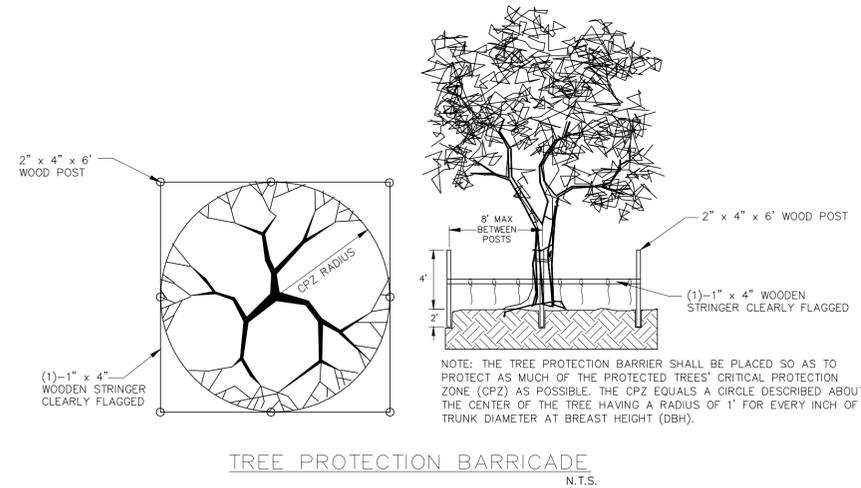


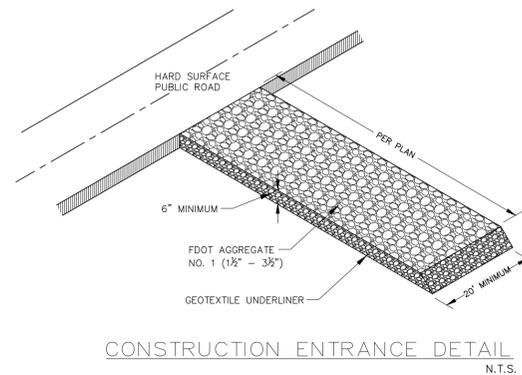
Figure V-41: Illustration of Fiber Log Barriers for Individual Lots  
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V-9



N.T.S.



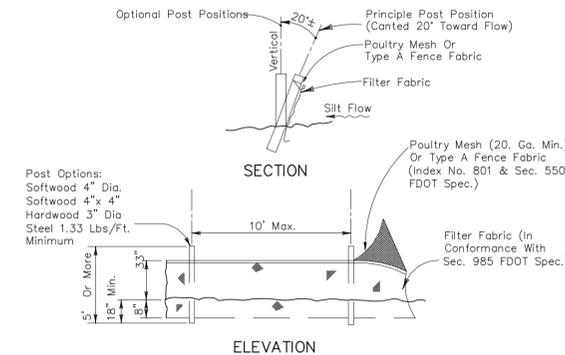
TREE PROTECTION BARRICADE  
N.T.S.



CONSTRUCTION ENTRANCE DETAIL  
N.T.S.

SWPPP NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN NPDES CONSTRUCTION PERMIT PRIOR TO CONSTRUCTION ACTIVITIES AND FOR COMPLIANCE WITH ALL STATE, LOCAL, AND FEDERAL PERMITS RELATED TO THIS PROJECT.
- THE EROSION CONTROL MEASURES SET FORTH IN THESE PLANS ARE INTENDED AS MINIMUM STANDARDS. ALL EROSION CONTROL REQUIRED SHALL BE IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL EXPOSED AREAS, COST OF WHICH SHALL BE INCIDENTAL TO THE PROJECT.
- PRIOR TO THE REQUIRED PRE-CONSTRUCTION MEETING, CONTRACTOR SHALL PROVIDE IN WRITING THE NAME AND TELEPHONE NUMBER OF THE STORMWATER CONTROL OFFICER TO THE OWNER, THE OWNER'S DESIGNATED REPRESENTATIVE, CITY OF MIDWAY, AND NFWFMD. THE OFFICER SHALL BE CERTIFIED UNDER THE FLORIDA STORMWATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR TRAINING PROGRAM AND SHALL BE AVAILABLE IN PERSON OR BY PHONE AT ALL TIMES DURING CONSTRUCTION.
- THE STORMWATER CONTROL OFFICER SHALL BE RESPONSIBLE FOR CONTINUALLY MONITORING WEATHER CONDITIONS AND EVALUATE THE EFFECTIVENESS OF THE CONTROL MEASURES THROUGHOUT ALL PHASES OF CONSTRUCTION.
- AS CONSTRUCTION PROGRESSES, THE STORMWATER CONTROL OFFICER SHALL MAKE ADJUSTMENTS AND/OR INSTALL ADDITIONAL MEASURES TO PREVENT DIRECT FLOW OR TRACKING OF SEDIMENTS ONTO ADJACENT PROPERTY, CONSERVATION AREAS, PUBLIC STREETS OR DRAINAGE SYSTEMS.
- ANY SEDIMENTS, GRAVEL OR MUD SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ADJACENT PROPERTY, ROADWAYS OR INTO STORM DRAINAGE SYSTEMS SHALL BE RECOVERED AND DISPOSED OF PROPERLY.
- TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PLACED ADJACENT TO ANY WATERWAY OR DRAINAGE FEATURE PRIOR TO CONSTRUCTION AND REMAIN IN PLACE UNTIL CONSTRUCTION OF THE FEATURE IS COMPLETE AND ALL AREAS ARE SUITABLY STABILIZED.
- CONTRACTOR SHALL REVISE THE SWPPP WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING AN INSPECTION WHEN ADDITIONS AND/OR MODIFICATIONS TO BEST MANAGEMENT PRACTICES (BMPs) ARE NECESSARY TO CORRECT OBSERVED PROBLEMS. REVISIONS SHALL OCCUR WHENEVER:
  - A CHANGE IN THE DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE AT THE CONSTRUCTION SITE HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE UNITED STATES NOT PREVIOUSLY ADDRESSED IN THE DOCUMENT.
  - DISCHARGES ARE CAUSING WATER QUALITY EXCEEDANCES, AS DEFINED BY THE EPA, OR THE BMPs ARE INEFFECTIVE IN MINIMIZING POLLUTANTS IN STORMWATER DISCHARGING FROM THE CONSTRUCTION SITE.
- EROSION CONTROL MEASURES SHALL REMAIN IN PLACE AT LOCATIONS SHOWN IN THE PLANS OR AS REQUIRED UNTIL CONSTRUCTION IS COMPLETED, SOILS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED. ALL EROSION CONTROL MEASURES ARE THEN TO BE REMOVED UPON APPROVAL BY THE ENGINEER OF RECORD.
- EROSION CONTROL ITEMS ARE ESTIMATED FOR PREVENTION, CONTROL, ABATEMENT OF EROSION, SEDIMENTATION AND WATER POLLUTION. THESE ITEMS ARE TO BE USED AT LOCATIONS DESCRIBED IN THE APPROVED SWPPP OR AS DIRECTED BY THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
- SWEEPING THE PERIMETER ROADS SHALL BE REQUIRED AS NEEDED TO REMOVE ANY DEBRIS OR SEDIMENT AS A RESULT OF PROJECT ACTIVITIES, AS PER FDEP'S COMPLIANCE AND ENFORCEMENT OFFICER.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DURING ANY PHASE OF DEVELOPMENT, AT THE DISCRETION OF FDEP'S COMPLIANCE AND ENFORCEMENT OFFICER.
- CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT SITE. SHOULD CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE. CONTRACTOR SHALL PROVIDE THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE. SINCE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AND INTENDED FOR EQUIPMENT USE AS A HAZARDOUS MATERIAL, SUCH PRODUCTS DO NOT NEED THE MSDS SUBMITTAL. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE AND WHO SHALL PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE WILL ARRANGE FOR INVESTIGATION, IDENTIFICATION, AND REMEDIATION OF THE HAZARDOUS MATERIAL. CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE.
- ALL SOD MATERIALS SHALL BE SUBJECT TO INSPECTION PRIOR TO PLACEMENT. ANY SOD WITH NOXIOUS WEEDS AND GRASSES SHALL BE REJECTED FOR USE ON THE PROJECT. CONTRACTOR SHALL FURNISH THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE, PRIOR TO INCORPORATION INTO THE PROJECT, A CERTIFICATION FROM THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICE DIVISION OF PLANT INDUSTRY, STATING THAT THE SOD, HAY, STRAW, AND MULCH MATERIALS ARE FREE OF NOXIOUS WEEDS.
- EQUIPMENT MAINTENANCE AND REPAIR SHALL BE LIMITED TO ONE AREA OF THE PROJECT. AN ADEQUATE NUMBER OF WASTE DISPOSAL RECEPTACLES FOR LIQUID AND SOLID WASTE SHALL BE PROVIDED. WASTE SHALL BE DISPOSED OF PROPERLY OFF-SITE. THE MAINTENANCE AREAS SHALL BE INSPECTED AND CLEANED DAILY. CARE SHALL BE TAKEN THAT ANY OILS, GASOLINE, GREASE, SOLVENTS, AND OTHER POTENTIAL POLLUTANTS SHALL NOT BE WASHED OFFSITE, EITHER DIRECTLY OR INDIRECTLY, THROUGH THE STORMWATER CONVEYANCE SYSTEMS.
- WASTE COLLECTION AND DISPOSAL - A SUFFICIENT NUMBER OF WASTE AND TRASH RECEPTACLES SHALL BE PROVIDED AT ALL TIMES. RECEPTACLES AND OTHER WASTE COLLECTION AREAS SHALL BE KEPT NEAT AND ORDERLY. TRASH CANS AND DUMPSTERS SHALL HAVE COVERS TO PREVENT THE ENTRANCE OF RAINFALL. ALL WASTE MATERIALS SHALL BE COLLECTED WEEKLY AT A MINIMUM AND DISPOSED AT A SUITABLE LANDFILL. TRASH COLLECTION POINTS SHALL BE LOCATED WHERE THEY WILL BE LEAST IMPACTED BY CONCENTRATED STORMWATER RUNOFF.
- DEMOLITION AND ACCESS AREAS - DUST CONTROL TECHNIQUES SHALL BE USED DURING DEMOLITION WHERE LARGE AMOUNTS OF DUST ARE GENERATED. IF WATER OR SLURRY IS USED TO CONTROL DUST, IT SHALL BE RETAINED ON THE SITE.
- WASHING AREAS - AN AREA SHALL BE DESIGNATED BY THE CONTRACTOR FOR WASHING VEHICLES AND WILL BE LOCATED WHERE THE WASH WATER WILL SPREAD OUT AND EVAPORATE OR INFILTRATE DIRECTLY INTO THE GROUND OR WHERE THE RUNOFF CAN BE COLLECTED IN A TEMPORARY HOLDING OR SEEPAGE BASIN. WASH AREAS SHALL HAVE GRAVEL BASES TO MINIMIZE MUD GENERATION.
- STORAGE OF CONSTRUCTION MATERIALS - AN ISOLATED AREA SHALL BE DESIGNATED TO STORE CHEMICALS, CEMENTS, SOLVENTS, PAINTS, OR OTHER POTENTIAL WATER POLLUTANTS. THE AREA SHALL BE SO LOCATED AS TO ELIMINATE RUNOFF POLLUTION. TOXIC CHEMICALS AND MATERIALS, SUCH AS PESTICIDES, PAINTS, AND ACIDS SHALL BE STORED ACCORDING TO THE MANUFACTURER'S GUIDELINES. CARE SHALL BE TAKEN IN THE USE OF THESE MATERIALS TO AVOID ACCIDENTAL SPILLS. GROUNDWATER RESOURCES SHALL BE PROTECTED BY THE USE OF PLASTIC MATS, TAR PAPER OR OTHER IMPERVIOUS MATERIALS ON ANY GROUND SURFACE WHERE TOXIC LIQUIDS ARE TO BE OPENED AND STORED.
- SANITARY FACILITIES - ADEQUATE SANITARY FACILITIES SHALL BE PROVIDED DURING ALL CONSTRUCTION PHASES FOR WORKERS ACCORDING TO APPLICABLE HEALTH AND SAFETY PRACTICES AND REGULATIONS.
- ALL DISTURBED AREAS TO BE LEFT IDLE LONGER THAN 14 DAYS MUST BE STABILIZED WITH QUICK GROW GRASS SEED AND MULCH.



TYPE C HEAVY DUTY SILT FENCE  
N.T.S.

NO.	DATE	DESCRIPTION	CHECKED BY:	REVISIONS

PROJECT NUMBER	LCP3-043
DATE	11/28/17
DESIGNED BY:	D.W.H.
DRAWN BY:	AD/JSR

SEAL

GGL LLC dba GENESIS  
2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
(850) 224-4400 (850) 681-3600 FAX  
FL CA 000095660 FL LC 26000202

LEON COUNTY  
PUBLIC WORKS

PREPARED BY: GGL LLC dba GENESIS

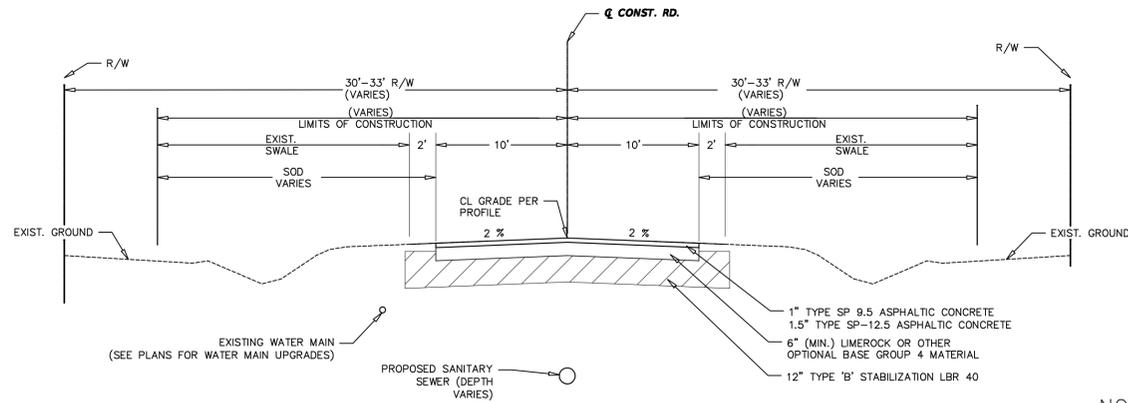
PREPARED FOR: LEON COUNTY PUBLIC WORKS

SHEET TITLE: SEDIMENTATION & EROSION CONTROL DETAILS

PROJECT NAME: WOODSIDE HEIGHTS WASTEWATER RETROFIT

SHEET NUMBER: 37

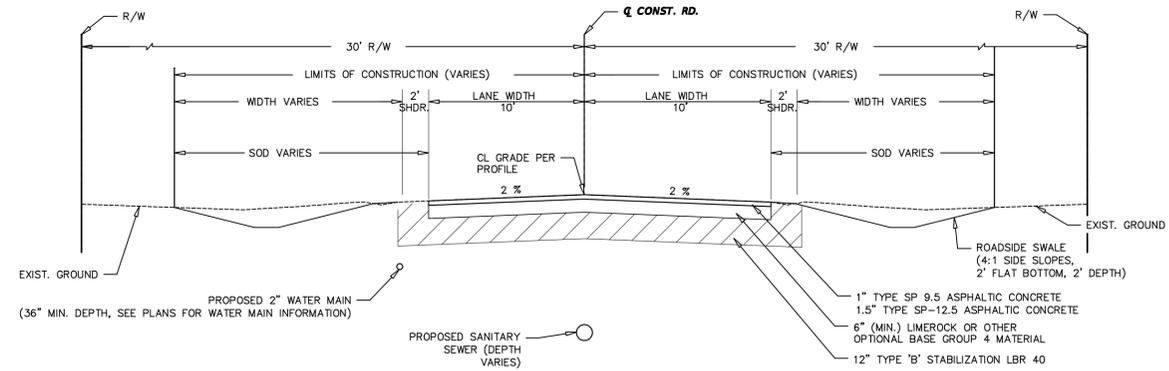
FINAL CONSTRUCTION PLANS



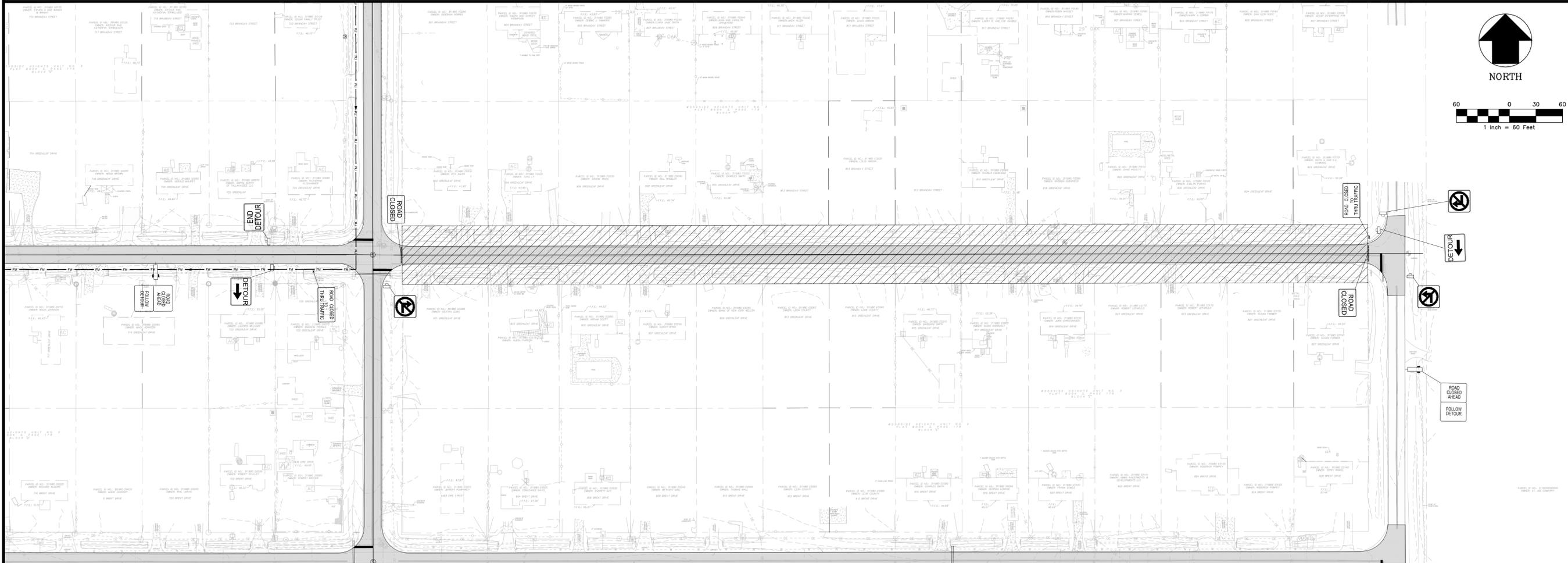
**TYPICAL PAVEMENT SECTION FOR RECONSTRUCTION OF EXISTING STREETS**  
N.T.S.

**NOTES:**

1. SOD ALL DISTURBED AREAS.



**TYPICAL PAVEMENT SECTION FOR NEW CONSTRUCTION WITHIN DUREN STREET RIGHT OF WAY**  
N.T.S.



**TRAFFIC CONTROL PLAN GENERAL NOTES:**

1. THE TRAFFIC ON IN THE NEIGHBORHOOD IS TO BE MAINTAINED IN ACCORDANCE WITH THE DESIGN STANDARD INDEX NO. 600, 602, 604, and 629.
2. WORK ZONES SHALL NOT EXCEED 1000 FT. IN LENGTH.
3. EXISTING POSTED SPEED LIMITS SHALL BE MAINTAINED IN WORK ZONES THROUGHOUT CONSTRUCTION DURATION.
4. ALL LANES MUST BE REOPENED TO NORMAL TRAFFIC WITHIN 12 HOURS OF AN EVACUATION NOTICE FOR A HURRICANE OR ANY OTHER EMERGENCY EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVENT AS DIRECTED BY THE PROJECT ADMINISTRATOR.
5. AT THE DISCRETION OF THE ENGINEER, IF A LANE CLOSING CAUSES EXTENDED CONGESTION, THE CONTRACTOR SHALL BE DIRECTED TO RE-OPEN THE CLOSED LANE(S) UNTIL SUCH TIME AS TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.
6. THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED TO CREATE A WORK ZONE UNTIL ALL LABOR AND MATERIAL ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.
7. ANY DROP OFF CONDITIONS CREATED, INCLUDING BETWEEN TRAVEL LANES, THAT ARE GREATER THAN 3\"/>

November 28, 2017 (10:10:05 EST)  
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NO.	DATE	DESCRIPTION	CHECKED BY:	REVISIONS
DESIGNED BY:	D.W.H.			
DRAWN BY:	AD/ISR			
PROJECT NUMBER			C.S.B.	11/28/17
LCP3-043				

David W. Hutcheson, P.E.  
License Number 38670

PREPARED BY  
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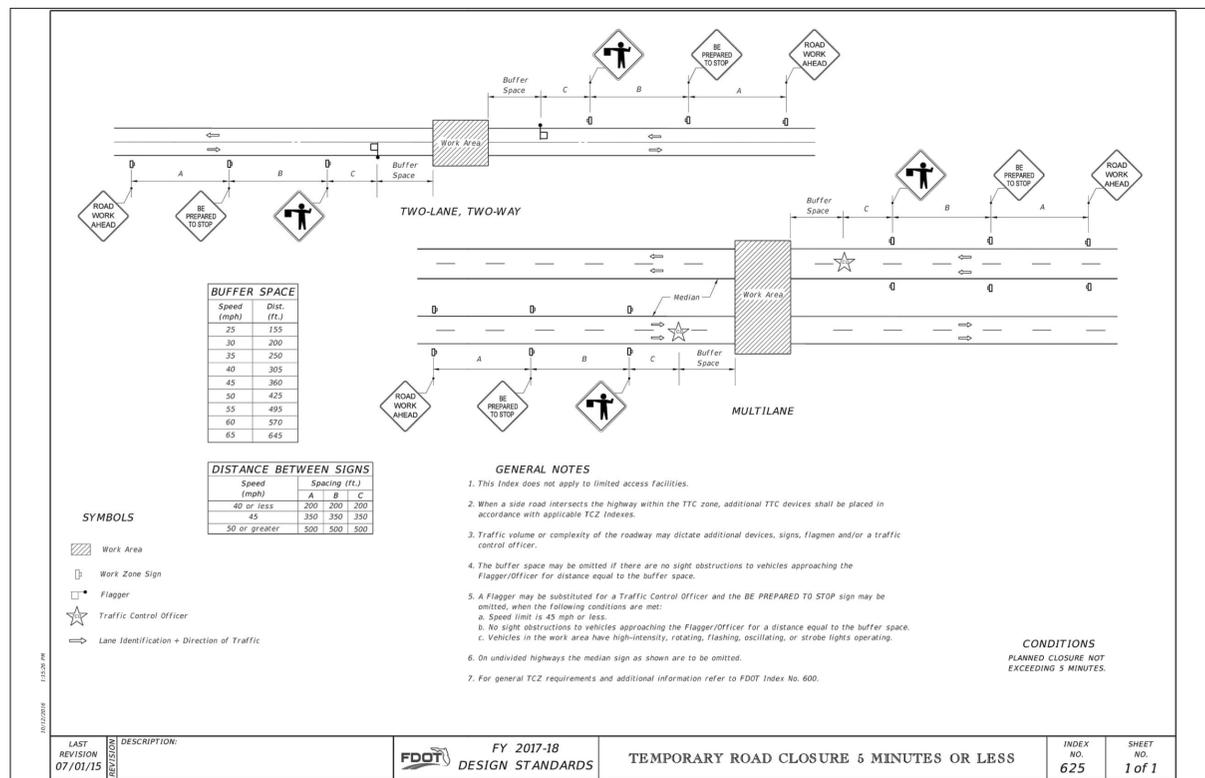
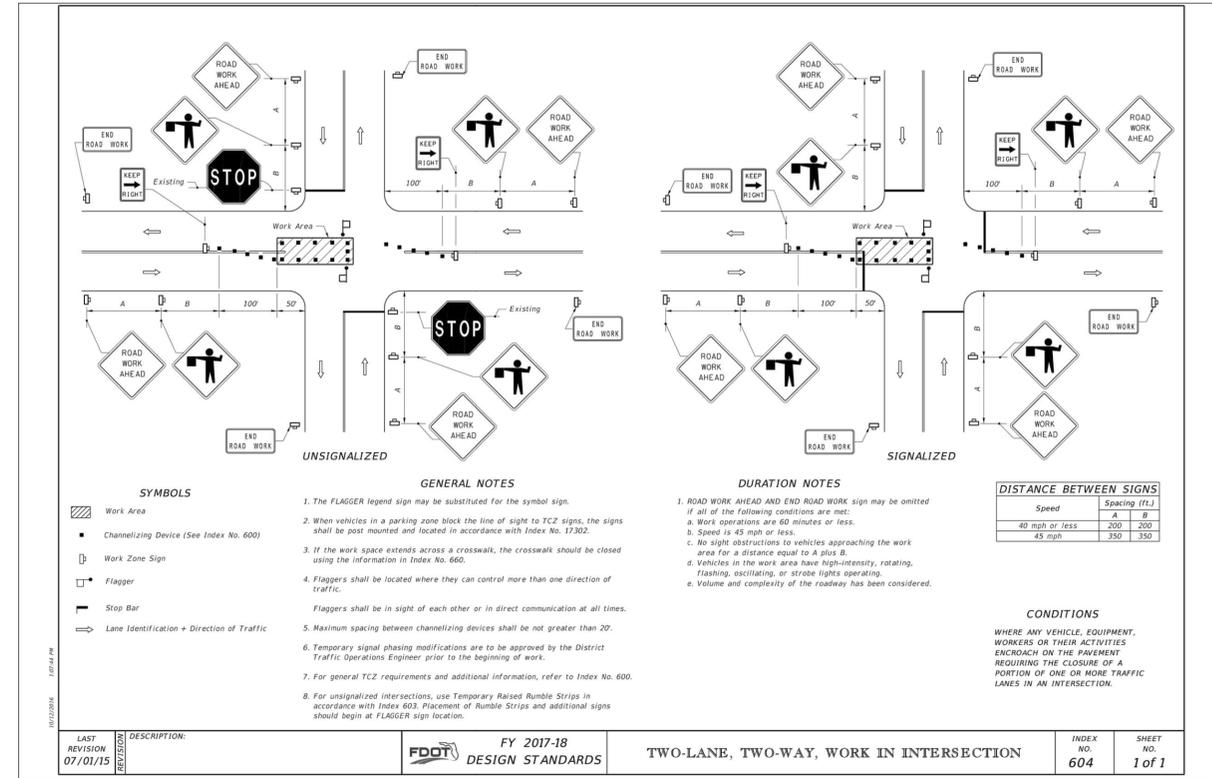
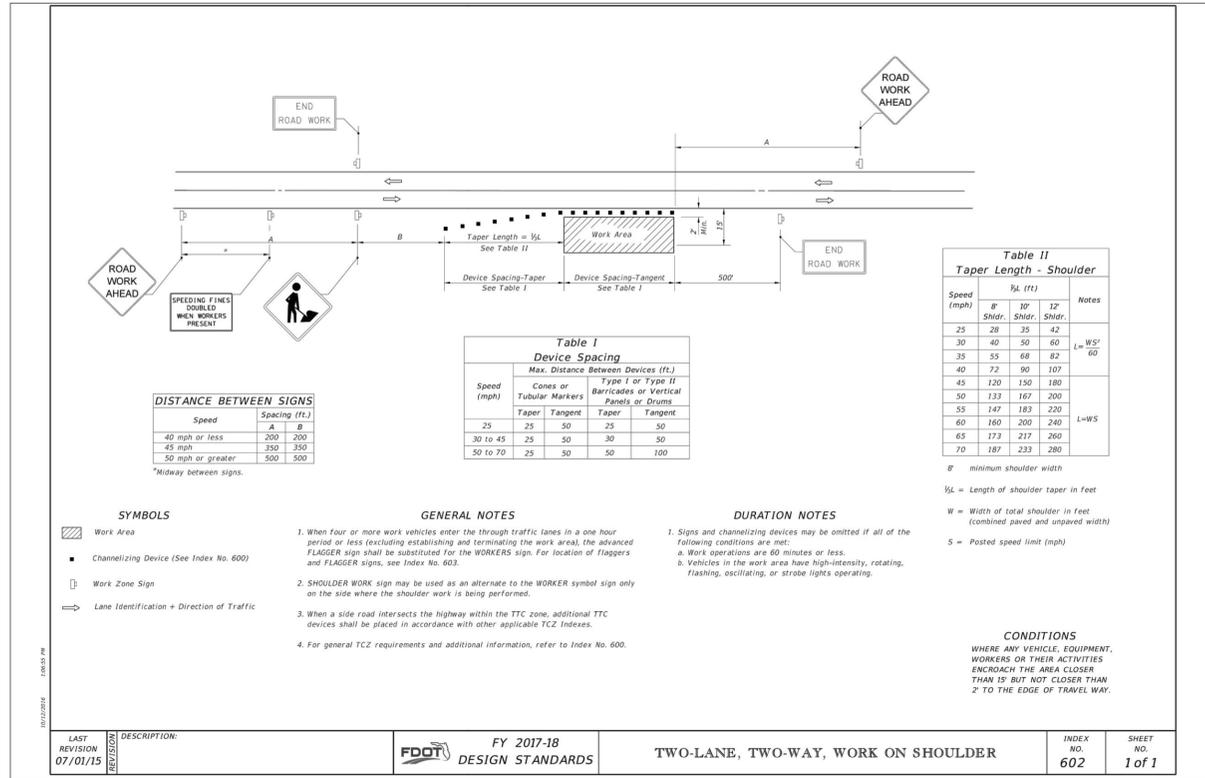
LEON COUNTY  
PUBLIC WORKS



TYPICAL SECTIONS  
& MOT PLAN

WOODSIDE HEIGHTS  
WASTEWATER RETROFIT

SHEET TITLE  
SHEET NUMBER



NO.	DATE	DESCRIPTION	CHECKED BY:	REVISIONS
			D.W.H.	C.S.B.
			AD/ SR	

PROJECT NUMBER: LCP5-043  
DATE: 11/28/17

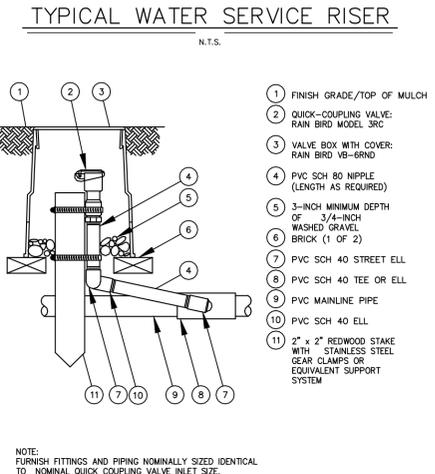
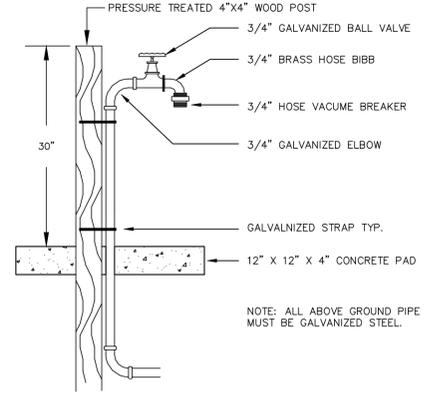
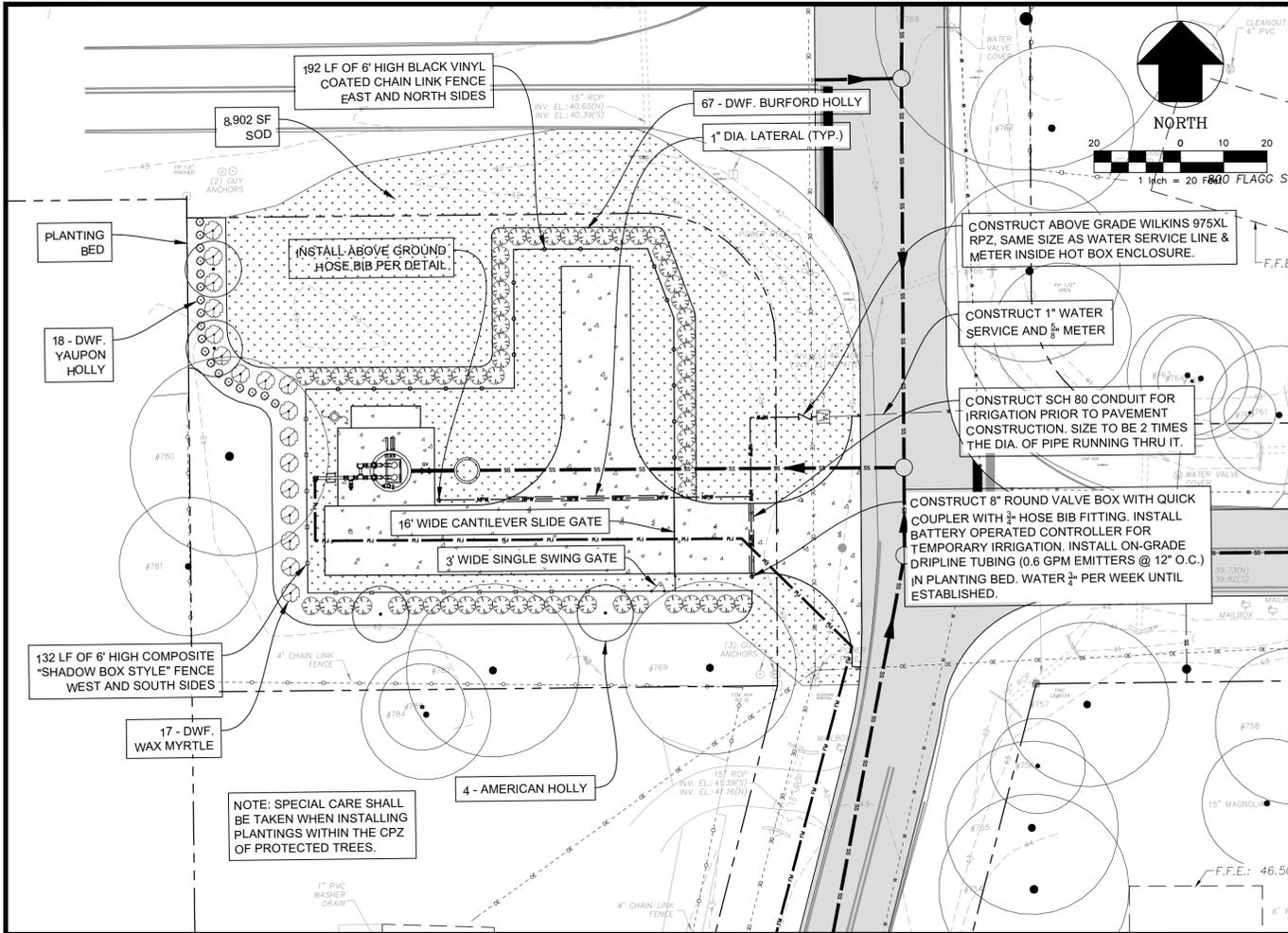
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LEON COUNTY PUBLIC WORKS

SHEET TITLE: MOT DETAILS  
PROJECT NAME: WOODSIDE HEIGHTS WASTEWATER RETROFIT  
FINAL CONSTRUCTION PLANS

SHEET NUMBER: 39



LANDSCAPE SPECIFICATIONS

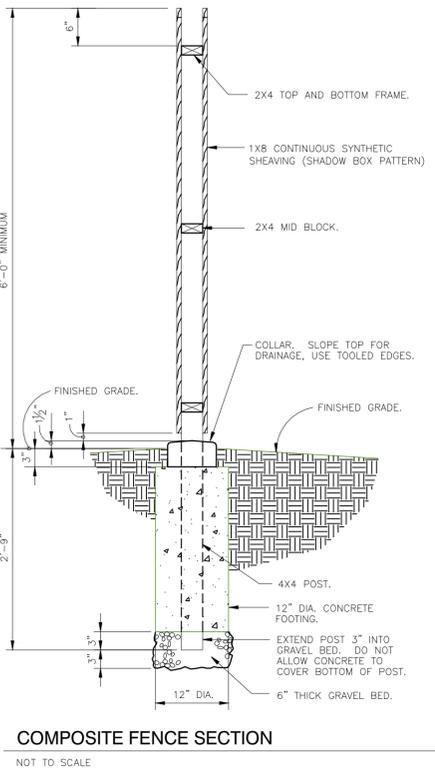
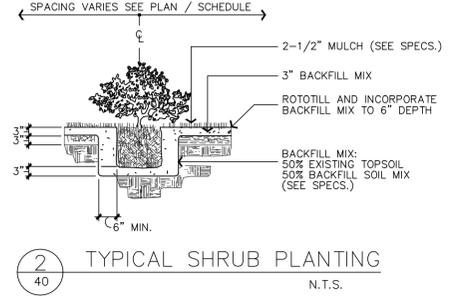
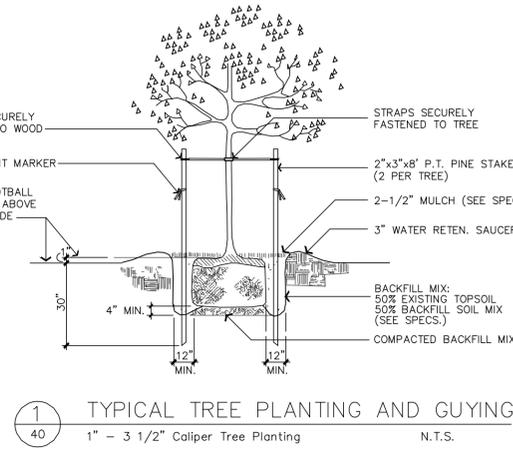
- MATERIALS:**
- PLANTING SOIL BACKFILL MIX: TREE PITS, SHRUBS AND GROUNDCOVERS: MIX 50% EXISTING TOPSOIL TO 50% SOIL ADMIXTURE COMPRISED OF 1/3 PARTS DECOMPOSED PINE BARK OR PEAT MOSS, 1/3 PARTS COW MANURE, AND 1/3 PARTS IMPORTED TOPSOIL AND SOIL AMENDMENTS AS REQUIRED TO BRING THE PH TO BETWEEN 5.5 TO 6.5. ALTERNATE PLANTING SOIL BACKFILL MIXTURE: MIX 50% EXISTING TOPSOIL AND 50% FLORIDA MUCK AND SOIL AMENDMENT AS REQUIRED TO BRING PH TO BETWEEN 5.5 AND 6.5.
  - TOP SOIL SHALL BE DEFINED AS THE UPPER 4" TO 6" OF NATURALLY OCCURRING SOILS SUITABLE FOR AGRICULTURAL PRODUCTION AND ARE WITHOUT DRAINAGE LIMITATIONS. IMPORT TOPSOIL FROM OFF-SITE SOURCES, IF REQUIRED. OBTAIN TOPSOIL FROM NATURALLY WELL-DRAINED SITES WHERE TOPSOIL OCCURS AT LEAST 4" DEEP. UNDER NO CIRCUMSTANCES SHOULD TOPSOIL BE OBTAINED FROM BODIES OF WATER OR MARSHES.
  - PLANTING BED AND TREE MULCH: HARDWOOD MULCH, CLEAN AND BRIGHT, FREE OF WEEDS, STICKS, AND OTHER DEBRIS. PROVIDE FOR 2-1/2" LAYER, AFTER SETTLING.
  - SOD: MATCH EXISTING SOD TYPE.
  - SEEDING: QUICK GROWING / TEMPORARY COVER  
MARCH-APRIL PLANTING: ANNUAL RYEGRASS  
MAY PLANTING: BROWN TOP MILLET  
JUNE-AUGUST PLANTING: MIX 50% RYE GRASS AND 50% WINTER WHEAT  
SEPTEMBER-OCTOBER PLANTING: ANNUAL RYEGRASS
  - FERTILIZER: FOR PLANT BEDS USE 8-8-8 RATIO, AND FOR LAWN AREAS USE 16-4-8 RATIO, EACH WITH AT LEAST 25% OF THE NITROGEN IN A WATER INSOLUBLE ORGANIC FORM.
  - TREE GUYING: STRAPS SHALL BE MINIMUM 1" WIDE NYLON OR POLYPROPYLENE. ALL WOOD STAKES SHALL BE LOCATED BEYOND THE EDGE OF THE ROOT BALL.
- SUBMITTALS:**
- SOD CERTIFICATE FROM GROWER.
  - SAMPLE OF PREPARED SOIL BACKFILL MIX (1/2 CU. FOOT).
  - SOIL TEST REPORT FOR PH WITH RECOMMENDATIONS FOR PH ADJUSTMENT (ALL LANDSCAPE PLANTING AREAS AND PLANTING BACKFILL MIX)
  - WRITTEN PLANT GUARANTEE.
- EXECUTION:**
- PERFORM ALL WORK AS SHOWN AND IN STRICT ACCORDANCE WITH SOUND HORTICULTURAL PRACTICE.
  - PLANTING PREPARATION:
    - INCORPORATE BACKFILL MIX AS SPECIFIED AND AS SHOWN ON DETAILS AND DRAWINGS.
    - ADJUST SOIL PH AS RECOMMENDED BY THE SOIL TEST FOR GRASS SPECIES.
    - ADJUST SOIL PH TO 5.5-6.5 AS RECOMMENDED BY THE SOIL TEST. USE ALUMINUM SULFATE OR IRON SULFATE TO LOWER THE PH AND USE HYDRATED LIME OR DOLOMITE TO RAISE THE PH.
  - PLACE ALL PLANT MATERIALS WHERE SHOWN ON DESIGN PLANS.
  - AFTER PLANTS ARE INSTALLED EACH TREE SHALL HAVE 1/4 LBS. OF 8-8-8 FERTILIZER APPLIED PER CALIPER INCH.
  - ALL TREES SHALL BE STAKED AND GUYED AS SHOWN TO MAINTAIN VERTICAL ALIGNMENT.
  - APPLY 2-1/2 INCHES OF MULCH (AFTER SETTLING) TO ALL TREES AND SHRUB BEDS. REDUCE MULCHING TO 1-1/2" DEPTH IN GROUNDCOVER AREAS.
  - ALL TREES PLACED IN LAWN AREAS SHALL UTILIZE A 3-FOOT DIAMETER CIRCLE OF LANDSCAPE MULCH BENEATH-SOD SHALL BE REMOVED.
- TEMPORARY IRRIGATION:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TEMPORARY IRRIGATION WATER SOURCE WITH THE OWNER.
- GRASSING:**
- SOIL PREPARATION:
    - REMOVE STONES OVER 1-1/2" IN DIAMETER, STICKS, ROOTS, RUBBISH AND OTHER EXTRANEIOUS MATTER FROM ALL LAWN AREAS.
    - ADJUST SOIL PH AS RECOMMENDED BY THE SOIL TEST FOR GRASS SPECIES.
    - ROTO-TILL SOIL 4" DEEP AND RAKE LAWN AREAS TO A SMOOTH EVEN SURFACE. IN AREAS TO BE SODDED, ALLOW FOR SOD THICKNESS, PROVIDING A FINISH GRADE 2" BELOW ADJACENT PAVEMENTS.
    - MOISTEN PREPARED LAWN AREAS PRIOR TO PLANTING IF DRY.
  - SEEDING:
    - ALL DISTURBED AREAS OF THE PROJECT SITE THAT ARE NOT IDENTIFIED TO BE SODDED SHALL BE SEEDDED.
    - APPLY QUICK GROWING / TEMPORARY SEED UNIFORMLY AT A RATE OF 10 POUNDS PER 1000 SQUARE FEET.
    - RAKE SOIL LIGHTLY TO LOOSEN SURFACE PRIOR TO SEED APPLICATION. COVER SEEDED AREAS WITH THIN LAYER OF OAT OR WHEAT STRAW AND ROLL LIGHTLY. WATER THOROUGHLY WITH A FINE SPRAY TO ESTABLISH SOIL MOISTURE TO 4" DEPTH. MAINTAIN APPROPRIATE SOIL MOISTURE LEVEL TO OPTIMIZE SEED ESTABLISHMENT.
  - SODDING:
    - INSTALL SOD WHERE SHOWN ON DESIGN PLANS.
    - APPLY FERTILIZER OVER PREPARED SOIL IN ALL AREAS TO BE SODDED, EXCEPT SLOPES ADJACENT TO WATER'S EDGE. APPLY MATERIAL AT A RATE OF 6 LBS. PER 1000 SQUARE FEET. SECOND APPLICATION SHALL BE SPECIFIED UNDER LAWN MAINTENANCE AND WARRANTY.
    - LAY SOD WITHIN 36 HOURS OF HARVESTING TIME.
    - LAY SOD IN STRAIGHT (NOT CURVED) PARALLEL ROWS TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS, WITHOUT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS. WORK TOPSOIL INTO MINOR CRACKS.
    - ROLL ENTIRE SODDED AREA WITH A 200 LB. ROLLER.
    - WATER SOD IMMEDIATELY AFTER ROLLING. THEREAFTER WATER SUFFICIENTLY TO KEEP SOIL MOIST TO A DEPTH OF 4" UNTIL ESTABLISHED.
- CLEANUP:**
- AT THE END OF EACH WORK DAY, REMOVE ALL DEBRIS RESULTING FROM THE WORK, CLEAN PAVED SURFACES AND BARRICADE ALL HAZARDS.
  - RESTORE ANY DAMAGED AREAS CAUSED BY THE WORK.
- INITIAL INSPECTION AND ACCEPTANCE:**
- THE WARRANTY SHALL BEGIN AFTER INITIAL LANDSCAPE INSPECTION AND ACCEPTANCE.
  - INSPECTION SHALL BE MADE BY THE OWNER OR OWNER'S REPRESENTATIVE WITHIN ONE WEEK OF WRITTEN NOTIFICATION FROM THE LANDSCAPE CONTRACTOR THAT INSTALLATION IS COMPLETE. PLANTS ARE SUBJECT TO INSPECTION AT ANY TIME.
- PLANT GUARANTEE:**
- ALL TREES, SHRUBS AND GROUNDCOVERS SHALL BE GUARANTEED BY THE LANDSCAPE CONTRACTOR TO BE HEALTHY, AND IN FLOURISHING CONDITION OF ACTIVE GROWTH FOR A PERIOD OF (1) ONE YEAR FROM INITIAL INSPECTION AND ACCEPTANCE. SOD SHALL BE GUARANTEED TO BE HEALTHY, FREE OF NOXIOUS WEEDS, DISEASE AND INSECT INFESTATION FOR A PERIOD OF SIXTY (60) DAYS FROM THE DATE OF INITIAL ACCEPTANCE.
- MAINTENANCE AND WARRANTY:**
- BEGIN MAINTENANCE OF LANDSCAPE WORK IMMEDIATELY AFTER EACH AREA IS PLANTED AND CONTINUE FOR THE MAINTENANCE PERIOD SPECIFIED.
  - PLANT MAINTENANCE AND WARRANTY:
    - CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING AND MAINTAINING PLANT MATERIAL FOR THE DURATION OF THE ESTABLISHMENT PERIOD.
    - THE ESTABLISHMENT PERIOD FOR PLANT MAINTENANCE AND WARRANTY SHALL BE 365 DAYS AFTER INITIAL ACCEPTANCE.
    - INSPECTIONS WILL BE CONDUCTED ON 90 DAY INTERVALS THROUGHOUT THE ESTABLISHMENT PERIOD TO ASSURE ALL PLANTINGS ARE BEING MAINTAINED IN A CONDITION OF GOOD HEALTH AND ACTIVE GROWTH. ANY DEAD OR DYING PLANTS SHALL BE PROMPTLY REMOVED AND REPLACED WITHIN 2 WEEKS FOLLOWING THE DATE OF INSPECTION. RESET SETTLED PLANTS TO PROPER GRADE AND POSITION AND TIGHTEN OR REPAIR GUYES AND STAKES AS NECESSARY. RE-MULCH TREES, SHRUBS AND GROUNDCOVER BEDS AS NECESSARY TO MAINTAIN THE SPECIFIED MULCH LAYER THROUGHOUT THE ESTABLISHMENT PERIOD.
    - ONE MONTH PRIOR TO THE END OF THE 365 DAY ESTABLISHMENT PERIOD, THE CONTRACTOR SHALL NOTIFY THE OWNER TO COORDINATE A DATE FOR FINAL INSPECTION OF ALL PLANTINGS AS BASIS FOR FINAL ACCEPTANCE.
  - LAWN MAINTENANCE AND WARRANTY:
    - MAINTAIN LAWN FOR A MINIMUM PERIOD OF 60 DAYS AFTER INITIAL ACCEPTANCE.
    - WATER LAWN SUFFICIENTLY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES UNTIL FINAL ACCEPTANCE.
    - NOV LAWN WHEN SOD IS FIRMLY ROOTED AND TOP GROWTH EXCEEDS 4 INCHES. MOW TO A HEIGHT OF NO LESS THAN 2-1/2 INCHES.
    - FERTILIZE LAWN 6 WEEKS AFTER PLANTING WITH 16-4-8 AT A RATE OF 6 LBS. PER 1000 SQUARE FEET.
- REPLACEMENTS AND CONDITIONS:**
- REPLACEMENTS FOR TREES, SHRUBS, AND GROUNDCOVERS SHALL BE MADE WITHIN 2 WEEKS FOLLOWING EACH 90 DAY ESTABLISHMENT PERIOD INSPECTION, INCLUDING THE FINAL INSPECTION.
  - A REPLACEMENT WILL BE OF THE SAME SIZE AS THE ORIGINAL WITH NO ADDITIONAL SOIL ADDITIVES TO BE USED.
  - AFTER INITIAL INSPECTION THE LANDSCAPE CONTRACTOR WILL NOT BE RESPONSIBLE FOR PLANT MATERIAL THAT HAS BEEN DAMAGED BY VANDALISM, FIRE, THEFT, RELOCATION OR OTHER ACTIVITIES BEYOND THE LANDSCAPE CONTRACTOR'S CONTROL.
  - THE LANDSCAPE CONTRACTOR WILL NOT BE RESPONSIBLE FOR PLANT LOSSES DUE TO ABNORMAL WEATHER CONDITIONS SUCH AS FLOODS, EXCESSIVE WIND DAMAGE OR SEVERE FREEZING.
- FINAL INSPECTION AND ACCEPTANCE:**
- FINAL INSPECTION: THE LANDSCAPE CONTRACTOR WILL CONDUCT A FINAL INSPECTION WITH THE OWNER OR OWNER'S REPRESENTATIVE AT THE END OF THE ESTABLISHMENT PERIOD FOR LAWN AND PLANT MATERIALS.
  - PLANT MATERIALS:
    - REPLACE ANY MATERIAL NOT IN HEALTHY CONDITION OR WHICH FAILS TO MEET SPECIFICATIONS.
    - DECIDUOUS MATERIAL WILL BE GUARANTEED TO BREAK DORMANCY IF PLANTED IN DORMANT SEASON.
  - LAWN:
    - AT THE TIME OF FINAL INSPECTION, SODDED LAWNS WILL BE ACCEPTABLE PROVIDED A HEALTHY, WELL-ROOTED, EVEN-COLORED, LAWN IS ESTABLISHED, FREE OF WEEDS, DISEASE AND INSECT INFESTATION. THERE SHALL BE NO OPEN JOINTS OR BARE AREAS.
    - SEEDED AREAS SHALL EXHIBIT NO LESS THAN 80% COVERAGE, UNIFORMLY THROUGHOUT. GRASS STANDS SHALL BE WELL ROOTED, EVEN-COLORED AND FREE OF WEEDS, DISEASE AND INSECT INFESTATION.

Note:  
The construction activities at 723 Flagg Street (pump station site) are subject to procurement of the property by Leon County Board of County Commissioners. Before the property is acquired by Leon County, the Contractor cannot work in this area. The Contractor may adjust the construction sequence and/or approach with approval by the County to ensure completion of the entire project within the contract schedule.

PLANT LIST

SYMBOL	SCIENTIFIC NAME	COMMON NAME	QTY.	SIZE	SPACING	COMMENTS
<b>UNDERSTORY TREES</b>						
	<i>Ilex opaca</i>	American Holly	4	B&B	12'-14" ht. 3" cal.	
<b>SHRUBS</b>						
	<i>Ilex vomitoria 'Nana'</i>	Dwf. Yaupon Holly	18	7 Gal.	3' o.c. 30" ht. 24" spd. min.	
	<i>Myrica cerifera pumila</i>	Dwf. Wax Myrtle	17	10 Gal.	6' o.c. 36" ht. 30" spd. min.	
	<i>Ilex cornuta 'Burfordii Nana'</i>	Dwf. Burford Holly	67	10 Gal.	4' o.c. 36" ht. 24" spd. min.	
<b>SOD</b>						
	<i>Eremochloa ophiuroides</i>	Centipede	8,902 sf			solid sod where shown
		Pine Straw Mulch	2,535 sf = 24 cy			place solid 3" compacted layer in all planting beds

NOTE: ALL PLANTS TO BE FLORIDA No.1 OR BETTER.



SUPPLEMENTAL LANDSCAPE NOTES

- CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES, EXISTING TREES AND VEGETATION PRIOR TO COMMENCEMENT OF THE PLANT INSTALLATION.
- CONTRACTOR SHALL ANTICIPATE THE POSSIBILITY OF THE LANDSCAPE ARCHITECT ADJUSTING THE LOCATIONS OF CERTAIN PLANTS AND TREES IN THE FIELD.
- ALL TREES AND SHRUBS SHALL BE OF THE SIZES AS CALLED FOR IN THE PLANT MATERIALS SCHEDULE. ANY PLANT MATERIALS AS DETERMINED BY THE LANDSCAPE ARCHITECT AS NOT MEETING THE SIZES AND QUALITY AS CALLED FOR SHALL BE REMOVED FROM THE SITE.
- ALL PLANT MATERIALS SHALL BE EQUIVALENT TO GRADES AS OUTLINED BY GRADES AND STANDARDS FOR NURSERY PLANTS, DIVISION OF PLANT INDUSTRY, FLORIDA DEPT. OF AGRICULTURE AND CONSUMER SERVICES.
- IF QUANTITIES DIFFER BETWEEN THE PLAN AND SCHEDULE, THOSE ON THE SCHEDULE SHALL GOVERN. THE CONTRACTOR SHALL VERIFY THAT THE QUANTITIES INDICATED WILL PROVIDE THE COVERAGE AS SPECIFIED AND REPORT ANY DISCREPANCIES AT THE TIME OF BIDDING TO THE LANDSCAPE ARCHITECT.
- ALL SHRUB MATERIAL IN MASS PLANTING AREAS SHALL BE PLANTED IN STAGGERED ROWS, SPACED ON CENTER (O.C.) AS SPECIFIED.
- THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONDITIONS THAT MAY ADVERSELY AFFECT PLANTING OPERATIONS IMMEDIATELY UPON SUCH FINDINGS.

November 28, 2017 10:10:05 EST  
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GGL LLC dba GENESIS  
 2507 CALLAWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
 (850) 224-4400 (850) 681-3600 FAX  
 FL CA 000095660 FL LC 26000202

LEON COUNTY  
 PUBLIC WORKS

PUMP STATION  
 LANDSCAPE PLAN

WOODSIDE HEIGHTS  
 WASTEWATER RETROFIT

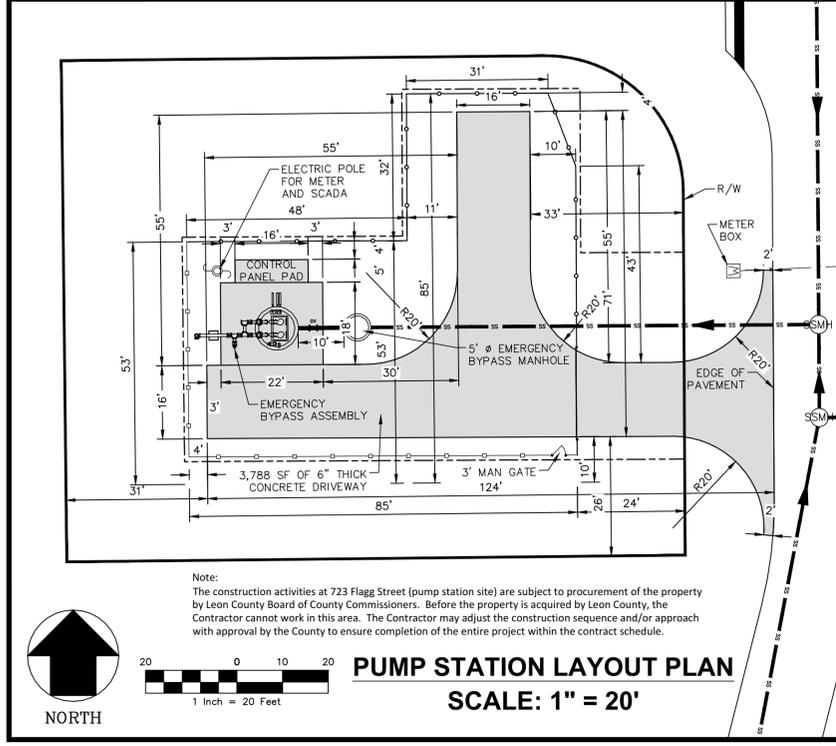
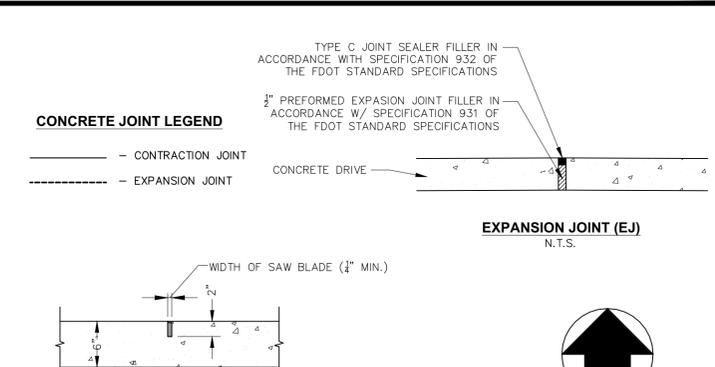
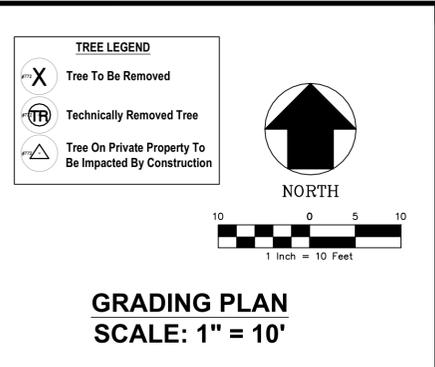
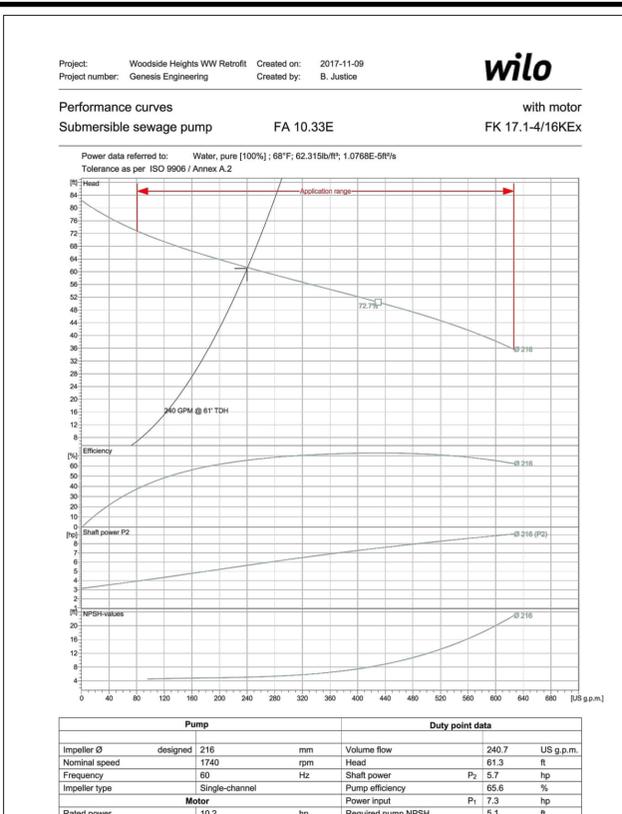
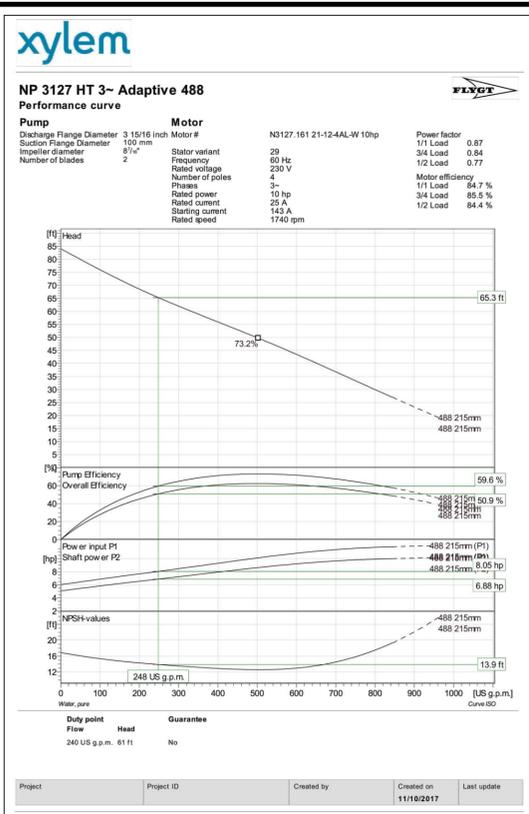
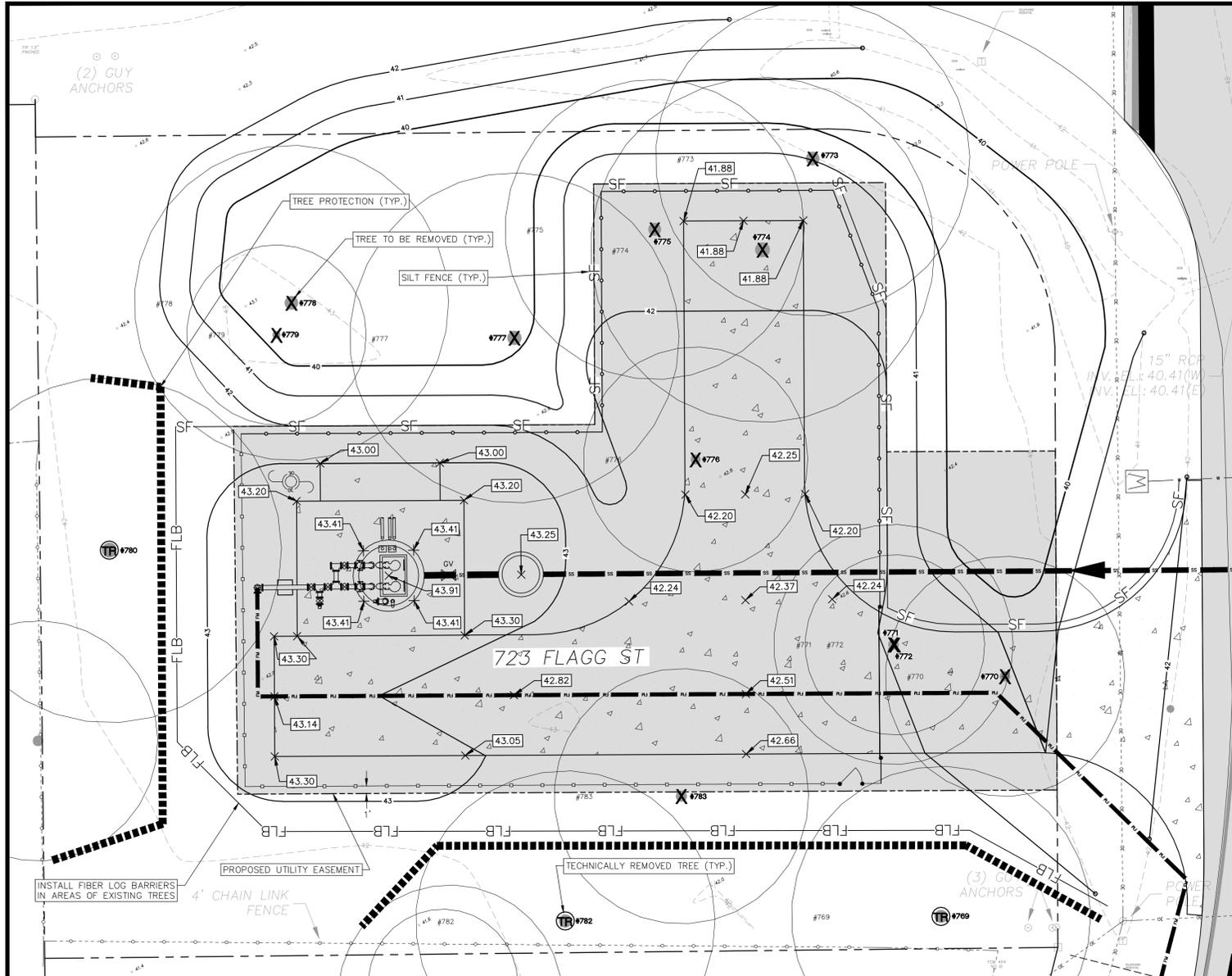
FINAL CONSTRUCTION PLANS

NO.	DATE	DESCRIPTION	CHECKED BY:	REVISIONS
DESIGNED BY:	D.W.H.		C.S.B.	
DRAWN BY:	AD/ SR			

PROJECT NUMBER: LCP3-043  
DATE: 11/28/17  
SCALE: 1" = 20'

David W. Hutcheon, P.E.  
License Number 38670





**GEOTECHNICAL DESIGN RECOMMENDATIONS FOR PUMP STATION:**

The geotechnical design recommendations made by EGS in this Report have been made using the following assumptions: the pump station will be constructed of reinforced concrete; the bottom bearing surface of the pump station will be at or below EL 30 feet; and, the pump station will be at least eight (8) feet in diameter.

**Subsoil Excavation**  
Based on the soils data collected during this Geotechnical Investigation, EGS does not believe additional excavation will be necessary beyond what is required to prepare the bearing surface for the pump station foundation in accordance with the COT Technical Specifications for Water and Sewer Construction.

**Material Reuse**  
Based on a review of the soils encountered in this investigation, and the requirements for select backfill provided in the COT Technical Specifications for Water and Sewer Construction, it is expected that the fine sands encountered to a depth of approximately 10 feet will be suitable for reuse as select backfill.

**Groundwater Impact and Control**  
Depending on the depth of the wet well, it is possible groundwater may be encountered during construction of the pump station. Additionally, as previously noted, the plastic silt encountered around EL 27 feet may 'perch' groundwater during and after periods of heavy rains and wet weather.

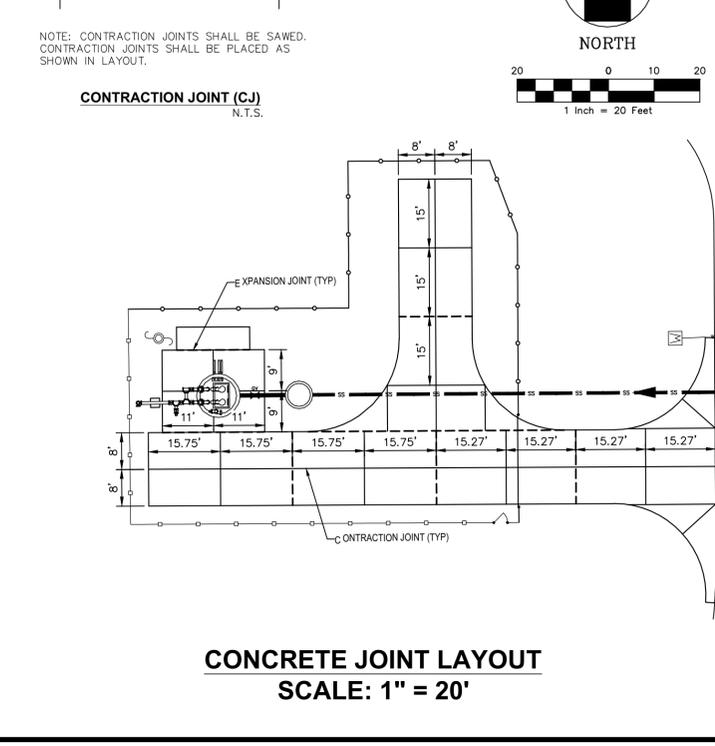
**Geotechnical Design Parameters**  
Based on the soils encountered during this study, assumed foundation dimensions, and subgrade preparations outlined above, the following geotechnical parameters can be used:

- Allowable Net Bearing Pressure ( $q_{all}$ ): 1,000 lb/ft<sup>2</sup>
- Modulus of Subgrade Reaction ( $K_s$ ): 60,000 lb/ft<sup>3</sup>

In addition, EGS has provided in TABLE 2 geotechnical design parameters for each of the soil strata encountered.

APPROXIMATE ELEVATION (FEET)	SPT $N_{60}$ VALUE <sup>1</sup>	ANGLE OF INTERNAL FRICTION $\phi$ (DEGREES)	TOTAL SOIL UNIT WEIGHT $\gamma$ (LB/FT <sup>3</sup> )	EFFECTIVE SOIL UNIT WEIGHT $\gamma'$ (LB/FT <sup>3</sup> )	UNDRAINED SHEAR STRENGTH $c$ (LB/FT <sup>2</sup> )	ACTIVE EARTH PRESSURE COEFFICIENT $k_a$	PASSIVE EARTH PRESSURE COEFFICIENT $k_p$	SOIL DESCRIPTION
43.0 to 32.0	5	28	100	100	0	0.36	2.77	FINE SAND (SP-SM)
32.0 to 21.0	15	32	115	115	500	0.31	3.19	CLAYEY FINE TO CLAYEY SAND (SC)
21.0 to 13.0	15	0	120	58	1,000	1.00	1.00	HIGHLY PLASTIC SANDY SILT (MH)

**CONSTRUCTION CONSIDERATIONS FOR PUMP STATION**  
As previously mentioned, existing structures are in close proximity to planned construction throughout the project limits. EGS believes that construction efforts expected for this project, such as vibrations caused by dynamic compaction of pipe subgrade and backfill soils, may cause adverse impacts to these adjacent structures. Therefore, EGS recommends consideration be given to precluding or minimizing the use of heavy vibratory equipment on this project.



Project: Woodside Heights WW Retrofit Created on: 2017-11-09  
Project number: Genesis Engineering Created by: B. Justice

**wilo**  
with motor  
Submersible sewage pump FA 10.33E FK 17.1-4/16KEx

Power data referred to: Water, pure [100%]; 68°F, 62.315lb/ft<sup>3</sup>; 1.0768E-5ft/s  
Tolerance as per ISO 9906 / Annex A.2

Application range: 100 to 600 US g.p.m.

Pump		Duty point data	
Impeller Ø	designed 216 mm	Volume flow	240.7 US g.p.m.
Nominal speed	1740 rpm	Head	61.3 ft
Frequency	60 Hz	Shaft power	P <sub>2</sub> 5.7 hp
Impeller type	Single-channel	Pump efficiency	65.6 %
Rated power	10.2 hp	Power input	P <sub>1</sub> 7.3 hp
		Required pump NPSH	5.1 ft

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REVISIONS  
NO. DATE DESCRIPTION CHECKED BY: C.S.B. PROJECT NUMBER LCP3-043  
DESIGNED BY: D.W.H. SCALE: 1" = 10'  
DRAWN BY: AD/RS DATE 11/28/17

David W. Hutcheon, P.E.  
License Number 36870

GGL LLC dba GENESIS  
2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
(850) 224-4400 (850) 681-3600 FAX  
FL CA 000095660 FL LC 26000202

LEON COUNTY  
PUBLIC WORKS

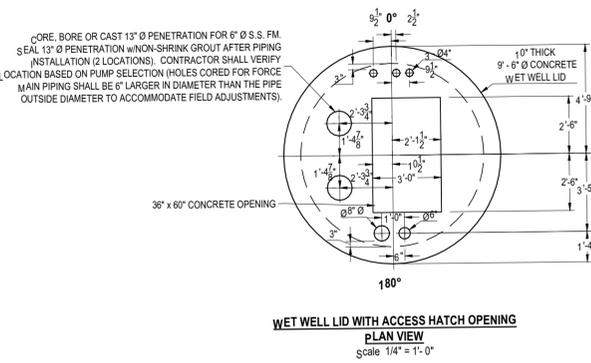
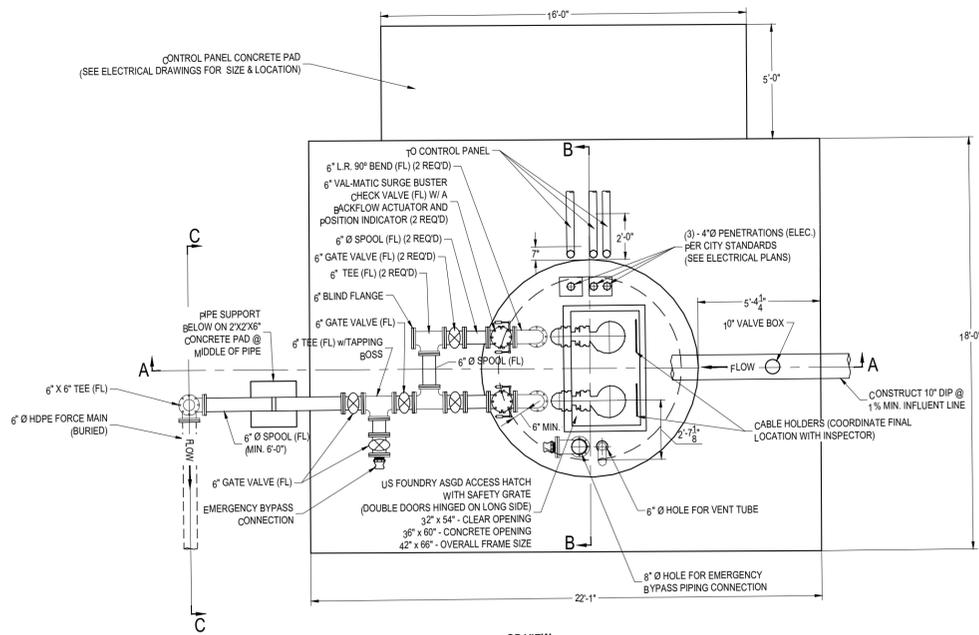
PREPARED FOR  
LEON COUNTY  
PUBLIC WORKS

PUMP STATION LAYOUT  
AND GRADING PLAN

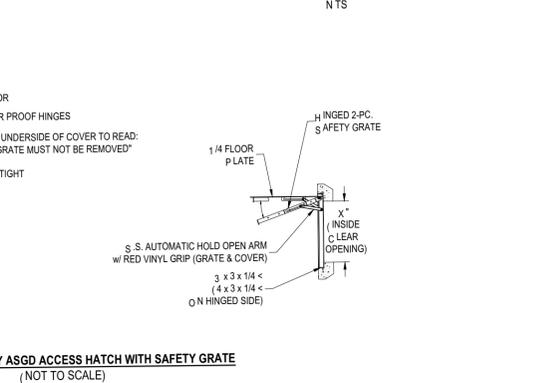
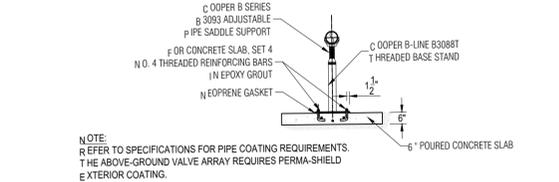
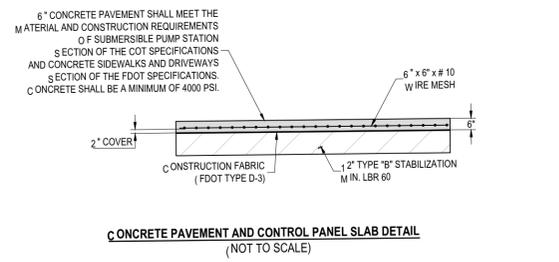
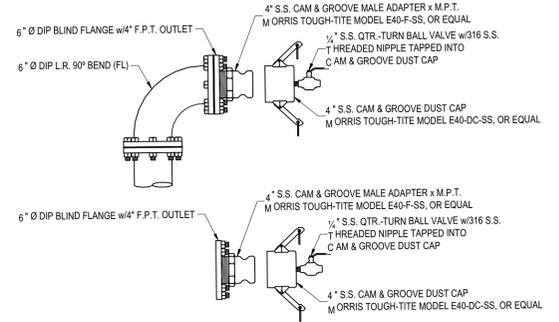
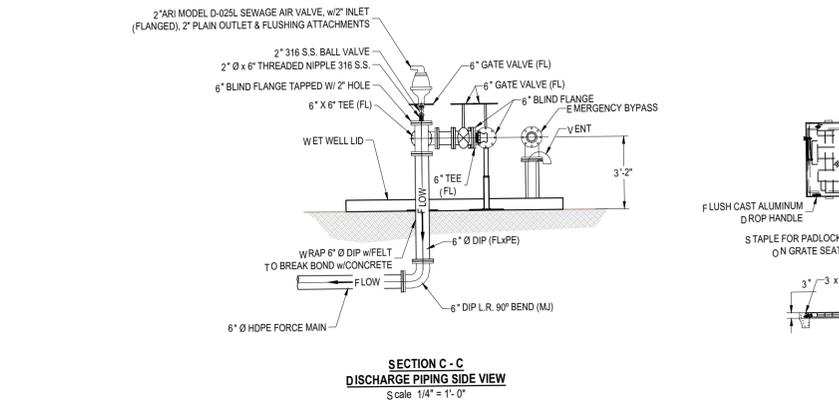
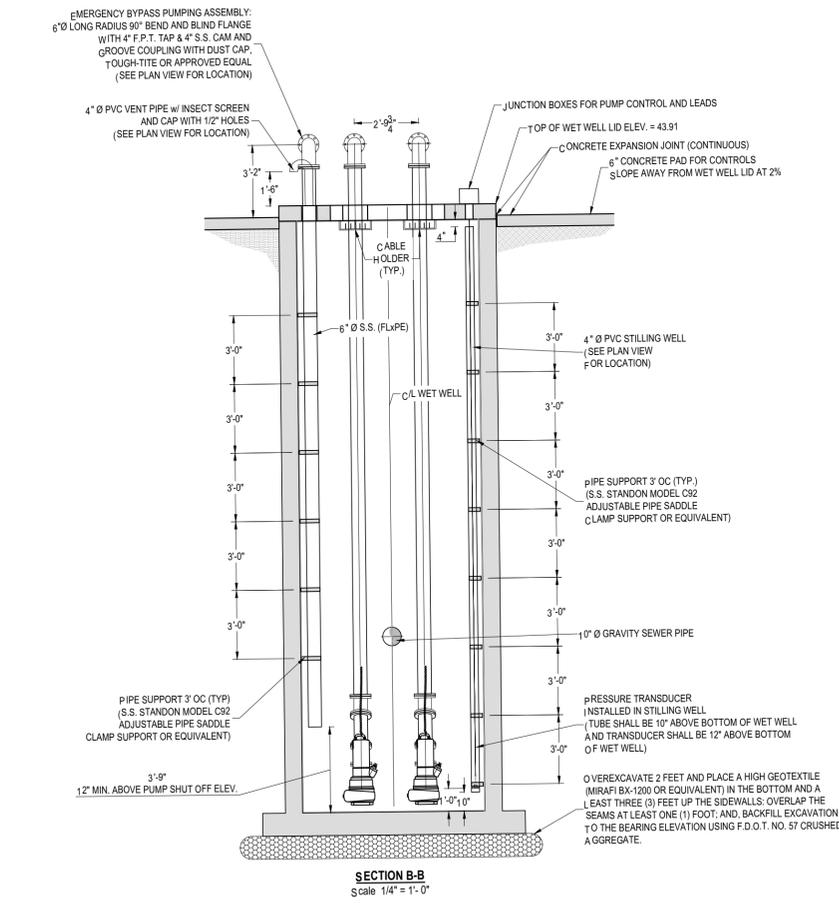
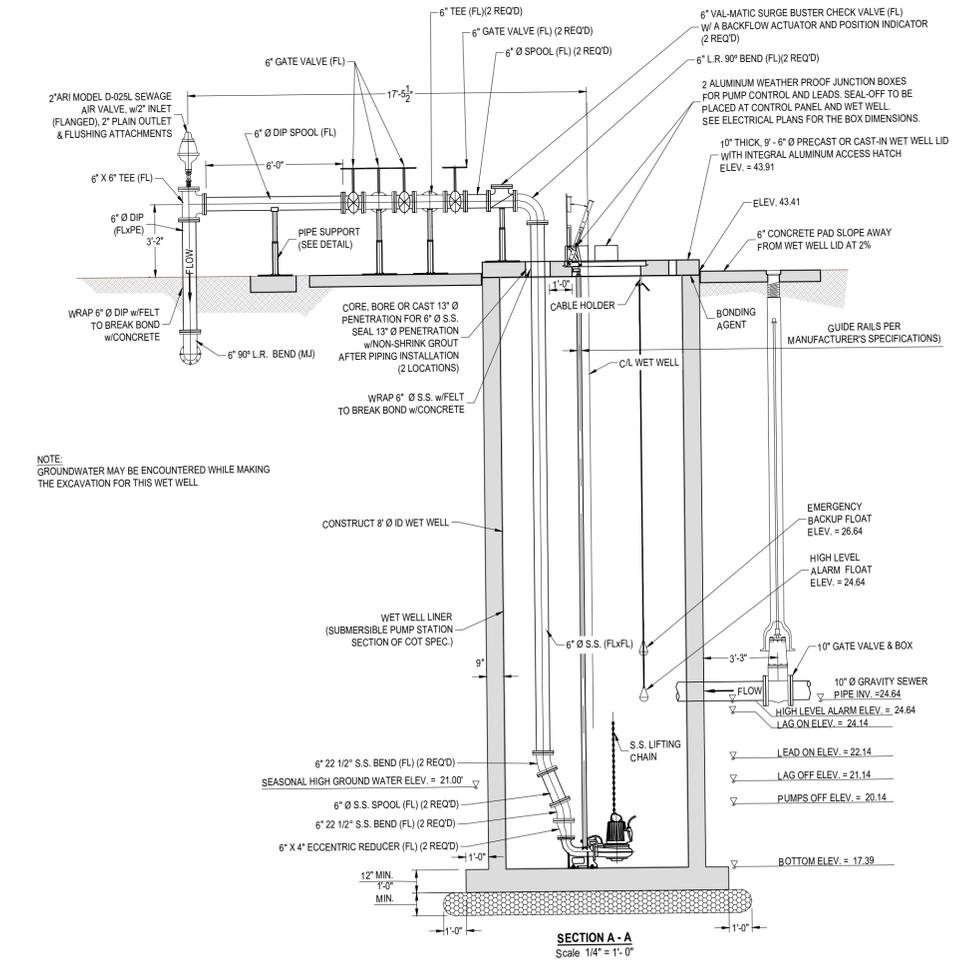
WOODSIDE HEIGHTS  
WASTEWATER RETROFIT

FINAL CONSTRUCTION PLANS

SHEET NUMBER  
41



Pump Station Data		
Pump Manufacturer	Flygt	Wilo
Pump Duty Point (GPM)	248	240.7
TDH at Duty Point (FT)	65.3	61.3
Design Duty Point FT (All Pumps)	240 GPM, 60.61	240 GPM, 60.61
Static Head (FT)	29	29
Pump Model No.	NP 3127 HT 3-488	FA 10.33E
Pump Curve No. (If Available)	N/A	N/A
Explosion Proof (Yes/No)	Yes	Yes
Pump Impeller Size - Cast Iron	9 IN	225 mm
Impeller Coating	Hardened Chrome	Ceram
Inlet/Discharge Size	100 mm/3-15/16 IN	80 / 100 mm
Supply Voltage (V)	230	230
Pump RPM	1740	1716
Horsepower	10.0	10.2
Forcemain Size (IN)	6	6
Total Forcemain Length (FT)	4383	4383
Equivalent Forcemain Length (FT)	4445	4445
Forcemain Elevation Point at Discharge/High Point (FT)	50	50
Wet Well Size (FT)	8	8
Wet Well Depth (FT)	26.52	26.52
Wet Well Type (Duplex/Triplex)	Duplex	Duplex



NO.	DATE	DESCRIPTION	CHECKED BY:	DESIGNED BY:	DATE	REVISIONS

PROJECT NUMBER: LCP3-043  
DATE: 11/28/17  
SCALE: C.S.B.  
DRAWN BY: AD /SR  
DESIGNED BY: D.W.H.  
CHECKED BY: C.S.B.

PREPARED BY: GGL LLC dba GENESIS  
2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
(850) 224-4400 (850) 681-3600 FAX  
FL CA 000095660 FL LC 26000202

LEON COUNTY PUBLIC WORKS

PUMP STATION DETAILS

WOODSIDE HEIGHTS WASTEWATER RETROFIT

FINAL CONSTRUCTION PLANS

PROJECT NAME: WOODSIDE HEIGHTS WASTEWATER RETROFIT

SHEET NUMBER: 42

TAG NO.	DBH (IN)	DESCRIPTION
91	8	LAUREL OAK
305	21	LONGLEAF PINE
306	16	CEDAR
307	4	DOGWOOD
308	25	LAUREL OAK
309	16	LAUREL OAK
310	17	LONGLEAF PINE
311	30	LAUREL OAK
312	8	DOGWOOD
313	19	LOBLOLLY PINE
314	20	PALM
315	20	LONGLEAF PINE
316	25	LIVE OAK
317	12	LIVE OAK
318	20	LIVE OAK
319	12	LIVE OAK
320	24	LONGLEAF PINE
321	14	DOGWOOD
322	8	DOGWOOD
323	14	LAUREL OAK
324	12	LAUREL OAK
325	13	LAUREL OAK
326	17	LAUREL OAK
327	11	CHERRY
328	14	CHERRY
329	13	LAUREL OAK
330	16	LAUREL OAK
331	17	LAUREL OAK
332	14	LAUREL OAK
333	26	LAUREL OAK
334	15	LONGLEAF PINE
335	16	LONGLEAF PINE
336	16	LIVE OAK
337	15	SYCAMORE
338	18	LONGLEAF PINE
339	17	LONGLEAF PINE
340	15	LONGLEAF PINE
341	14	LAUREL OAK
342	23	LONGLEAF PINE
344	23	LAUREL OAK
344	18	LAUREL OAK
345	34	LAUREL OAK
701	6	DOGWOOD
702	6	DOGWOOD
703	12	LAUREL OAK
704	10	CHERRY
705	10	LAUREL OAK
706	15	LAUREL OAK
707	15	LAUREL OAK
708	13	RED OAK
709	12	LAUREL OAK
710	18	LONGLEAF PINE
711	19	LONGLEAF PINE

712	13	SLASH PINE
713	23	LAUREL OAK
714	30	LAUREL OAK
715	11	CHERRY
716	11	CHERRY
717	12	LAUREL OAK
718	18	LIVE OAK
719	15	LAUREL OAK
720	17	LAUREL OAK
721	11	UNKNOWN
722	19	LONGLEAF PINE
723	16	LONGLEAF PINE
724	19	LONGLEAF PINE
725	20	RED OAK
726	29	LIVE OAK
727	22	WATER OAK
728	18	LONGLEAF PINE
729	21	WATER OAK
730	25	WATER OAK
731	12	LONGLEAF PINE
732	27	WATER OAK
733	14	LAUREL OAK
734	16	LAUREL OAK
735	12	LONGLEAF PINE
736	14	LAUREL OAK
737	13	LAUREL OAK
738	12	LAUREL OAK
739	21	LONGLEAF PINE
740	16	LONGLEAF PINE
741	12	LONGLEAF PINE
742	22	LONGLEAF PINE
743	16	LONGLEAF PINE
744	8	HOLLY
745	8	HOLLY
746	20	LONGLEAF PINE
747	13	LAUREL OAK
748	20	LAUREL OAK
749	13	LAUREL OAK
750	17	LAUREL OAK
751	17	LAUREL OAK
752	14	LONGLEAF PINE
753	20	LIVE OAK
754	22	LONGLEAF PINE
755	20	LAUREL OAK
756	11	LAUREL OAK
757	19	LONGLEAF PINE
758	18	LONGLEAF PINE
759	27	LAUREL OAK
760	16	LONGLEAF PINE
761	6	CRAPE MYRTLE
762	8	CRAPE MYRTLE
763	14	CAMPHOR
764	14	CAMPHOR
765	16	SYCAMORE

766	21	SYCAMORE
767	19	LONGLEAF PINE
768	35	LAUREL OAK
769	20	LONGLEAF PINE
770	16	LONGLEAF PINE
771	16	LONGLEAF PINE
772	12	LONGLEAF PINE
773	21	LONGLEAF PINE
774	23	LONGLEAF PINE
775	20	LONGLEAF PINE
776	15	LIVE OAK
777	22	LONGLEAF PINE
778	21	LONGLEAF PINE
779	12	LONGLEAF PINE
780	23	LONGLEAF PINE
781	16	LAUREL OAK
782	20	LONGLEAF PINE
783	17	LONGLEAF PINE
784	15	MAGNOLIA
785	10	MAGNOLIA
786	19	LONGLEAF PINE
787	17	LONGLEAF PINE
788	4	CRAPE MYRTLE
789	4	CRAPE MYRTLE
790	27	LIVE OAK
791	22	MULBERRY
792	24	LIVE OAK
793	24	LONGLEAF PINE
794	19	LAUREL OAK
795	12	LAUREL OAK
796	17	LAUREL OAK
797	14	LAUREL OAK
798	23	LAUREL OAK
799	7	DOGWOOD
800	12	CEDAR
801	17	LONGLEAF PINE
802	18	LONGLEAF PINE
803	6	DOGWOOD
804	22	LAUREL OAK
805	14	LAUREL OAK
806	13	LAUREL OAK
807	20	LAUREL OAK
808	26	CEDAR
809	24	LIVE OAK
810	24	LAUREL OAK
811	4	DOGWOOD
812	4	DOGWOOD
813	4	DOGWOOD
814	4	DOGWOOD
815	5	DOGWOOD
816	6	DOGWOOD
817	17	LAUREL OAK
818	17	LAUREL OAK
819	23	LAUREL OAK

820	16	LAUREL OAK
821	13	LAUREL OAK
822	12	LAUREL OAK
823	13	LAUREL OAK
824	19	LAUREL OAK
825	15	LAUREL OAK
826	25	LAUREL OAK
827	15	LAUREL OAK
828	12	LAUREL OAK
829	19	LAUREL OAK
830	14	LAUREL OAK
831	18	LAUREL OAK
832	17	DOGWOOD
833	27	LAUREL OAK
834	21	PALM
835	17	RED OAK
836	6	DOGWOOD
837	13	RED OAK
838	16	RED OAK
839	9	DOGWOOD POOR COND.
840	19	PALM
841	25	LAUREL OAK
842	22	LAUREL OAK
843	15	LAUREL OAK
844	18	LAUREL OAK
845	15	LAUREL OAK
846	14	LAUREL OAK
847	4	DOGWOOD
848	32	LIVE OAK
849	19	LONGLEAF PINE
850	17	LAUREL OAK
851	14	LAUREL OAK
852	18	LAUREL OAK
853	4	LONGLEAF PINE
854	22	LONGLEAF PINE
855	24	LAUREL OAK
856	18	SWEETGUM
857	17	SWEETGUM
858	24	LAUREL OAK
859	24	PALM
860	24	LONGLEAF PINE
861	12	HOLLY
862	12	HOLLY
863	6	MAGNOLIA
864	4	MAGNOLIA
865	6	MAGNOLIA
866	30	LAUREL OAK
867	8	DOGWOOD
868	6	DOGWOOD
869	14	LONGLEAF PINE
870	18	LAUREL OAK
871	16	LAUREL OAK
872	14	LONGLEAF PINE
874	5	CEDAR

875	26	PALM
875	14	HOLLY
876	9	CEDAR
877	6	CEDAR
878	8	CEDAR
879	10	CEDAR
880	41	LAUREL OAK
881	16	LONGLEAF PINE
882	16	LONGLEAF PINE
882	33	LAUREL OAK
883	9	DOGWOOD
884	16	CEDAR
885	15	CEDAR
886	11	LAUREL OAK
887	23	LIVE OAK
888	38	LAUREL OAK
889	12	LAUREL OAK
890	13	LAUREL OAK
892	20	LAUREL OAK
893	19	LONGLEAF PINE
894	17	LAUREL OAK
895	18	LAUREL OAK
896	13	LAUREL OAK
897	12	DOGWOOD
898	17	SLASH PINE
899	17	SLASH PINE
900	20	LONGLEAF PINE
901	18	LAUREL OAK
902	18	LAUREL OAK
903	14	LAUREL OAK
904	27	LIVE OAK
905	CLUSTER	CRAPE MYRTLE
906	CLUSTER	CRAPE MYRTLE
907	CLUSTER	CRAPE MYRTLE
908	CLUSTER	CRAPE MYRTLE
909	2	CRAPE MYRTLE
910	4	CRAPE MYRTLE

Tree Credit/Debit Table										
Removed Trees				Technically Removed Trees				Trees To Be Replanted		
Tree #	DBH (inches)	Description	Debits	Tree #	DBH (inches)	Description	Debits	DBH (inches)	Description	Credits
770	16	Longleaf Pine	6	769	20	Longleaf Pine	8		3 American Holly	2
771	16	Longleaf Pine	6	780	23	Longleaf Pine	8		3 American Holly	2
772	12	Longleaf Pine	4	782	20	Longleaf Pine	8		3 American Holly	2
773	21	Longleaf Pine	8	819	23	Laurel Oak	8		3 American Holly	2
774	23	Longleaf Pine	8	820*	16	Laurel Oak	0			
775	20	Longleaf Pine	8	825*	15	Laurel Oak	0			
776	15	Live Oak	6	826	25	Laurel Oak	10			
777	22	Longleaf Pine	8	832	17	Dogwood	6			
778	21	Longleaf Pine	8							
779	12	Longleaf Pine	4							
783	17	Longleaf Pine	6							
821*	13	Laurel Oak	0							
822*	12	Laurel Oak	0							
823*	13	Laurel Oak	0							
834	21	Palm	8							
Subtotal Debits			80	Subtotal Debits			48	Total Credits		8

\*Not a protected tree.

Total Debits	128
Total Credits	8
Outstanding Debits	120

SEAL

GGL LLC dba GENESIS  
2507 CALLAWAY ROAD, SUITE 100  
TALLAHASSEE, FLORIDA 32303  
(850) 224-4400 (850) 681-3600 FAX  
FL CA 000095660 FL LC 26000202



LEON COUNTY  
PUBLIC WORKS



TREE TABLE

WOODSIDE HEIGHTS  
WASTEWATER RETROFIT

FINAL CONSTRUCTION PLANS

SHEET TITLE

SHEET NUMBER

43

PROJECT NAME

PROJECT NUMBER

11/28/17

C.S.B.

D.W.H.

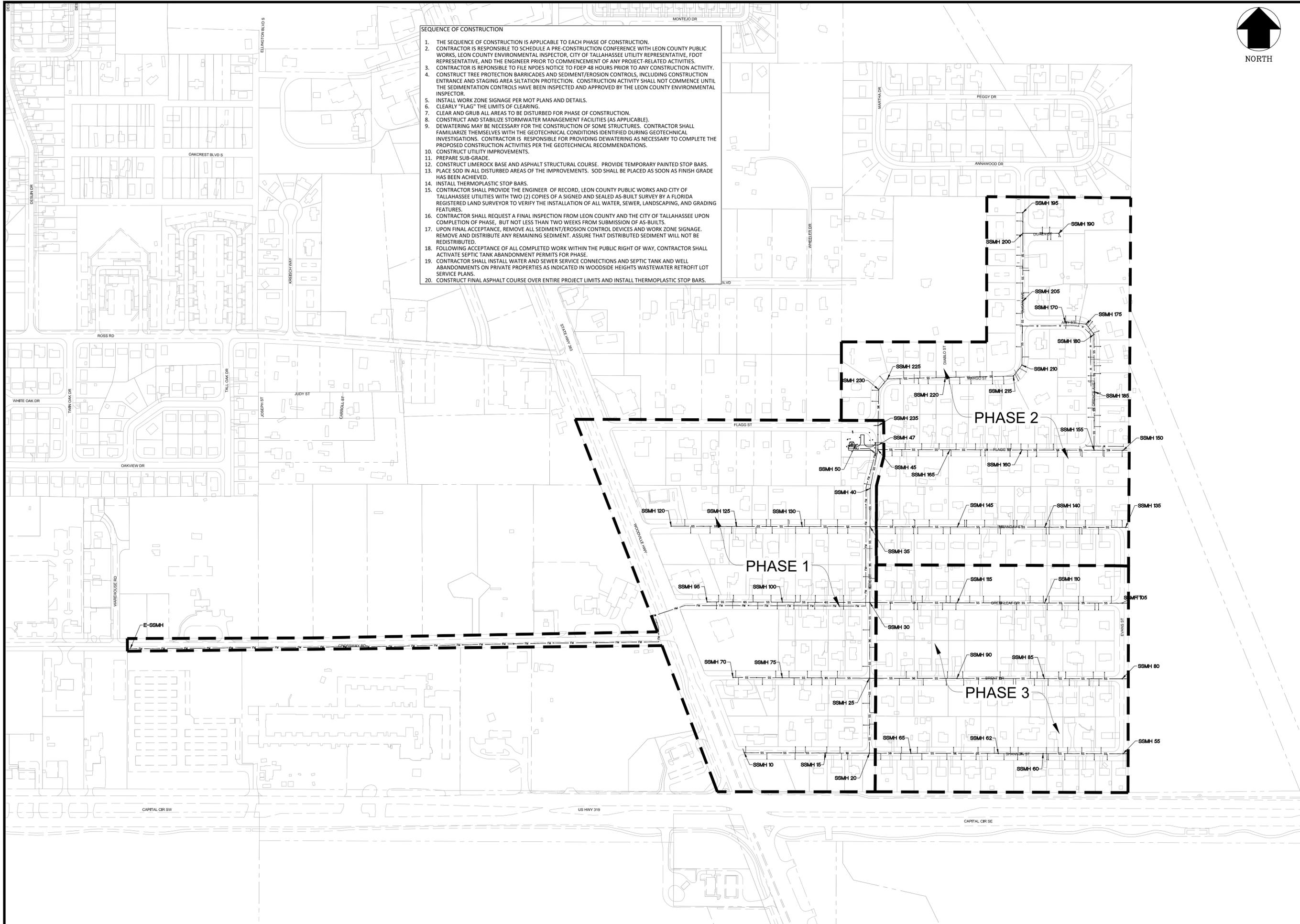
AD / SR

David W. Hutcheson, P.E.  
License Number 38670



SEQUENCE OF CONSTRUCTION

1. THE SEQUENCE OF CONSTRUCTION IS APPLICABLE TO EACH PHASE OF CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE TO SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH LEON COUNTY PUBLIC WORKS, LEON COUNTY ENVIRONMENTAL INSPECTOR, CITY OF TALLAHASSEE UTILITY REPRESENTATIVE, FDOT REPRESENTATIVE, AND THE ENGINEER PRIOR TO COMMENCEMENT OF ANY PROJECT-RELATED ACTIVITIES.
3. CONTRACTOR IS RESPONSIBLE TO FILE NPDES NOTICE TO FDEP 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY.
4. CONSTRUCT TREE PROTECTION BARRICADES AND SEDIMENT/EROSION CONTROLS, INCLUDING CONSTRUCTION ENTRANCE AND STAGING AREA SILTATION PROTECTION. CONSTRUCTION ACTIVITY SHALL NOT COMMENCE UNTIL THE SEDIMENTATION CONTROLS HAVE BEEN INSPECTED AND APPROVED BY THE LEON COUNTY ENVIRONMENTAL INSPECTOR.
5. INSTALL WORK ZONE SIGNAGE PER MOT PLANS AND DETAILS.
6. CLEARLY "FLAG" THE LIMITS OF CLEARING.
7. CLEAR AND GRUB ALL AREAS TO BE DISTURBED FOR PHASE OF CONSTRUCTION.
8. CONSTRUCT AND STABILIZE STORMWATER MANAGEMENT FACILITIES (AS APPLICABLE).
9. DEWATERING MAY BE NECESSARY FOR THE CONSTRUCTION OF SOME STRUCTURES. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE GEOTECHNICAL CONDITIONS IDENTIFIED DURING GEOTECHNICAL INVESTIGATIONS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING DEWATERING AS NECESSARY TO COMPLETE THE PROPOSED CONSTRUCTION ACTIVITIES PER THE GEOTECHNICAL RECOMMENDATIONS.
10. CONSTRUCT UTILITY IMPROVEMENTS.
11. PREPARE SUB-GRADE.
12. CONSTRUCT LIMEROCK BASE AND ASPHALT STRUCTURAL COURSE. PROVIDE TEMPORARY PAINTED STOP BARS.
13. PLACE SOD IN ALL DISTURBED AREAS OF THE IMPROVEMENTS. SOD SHALL BE PLACED AS SOON AS FINISH GRADE HAS BEEN ACHIEVED.
14. INSTALL THERMOPLASTIC STOP BARS.
15. CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD, LEON COUNTY PUBLIC WORKS AND CITY OF TALLAHASSEE UTILITIES WITH TWO (2) COPIES OF A SIGNED AND SEALED AS-BUILT SURVEY BY A FLORIDA REGISTERED LAND SURVEYOR TO VERIFY THE INSTALLATION OF ALL WATER, SEWER, LANDSCAPING, AND GRADING FEATURES.
16. CONTRACTOR SHALL REQUEST A FINAL INSPECTION FROM LEON COUNTY AND THE CITY OF TALLAHASSEE UPON COMPLETION OF PHASE, BUT NOT LESS THAN TWO WEEKS FROM SUBMISSION OF AS-BUILTS.
17. UPON FINAL ACCEPTANCE, REMOVE ALL SEDIMENT/EROSION CONTROL DEVICES AND WORK ZONE SIGNAGE. REMOVE AND DISTRIBUTE ANY REMAINING SEDIMENT. ASSURE THAT DISTRIBUTED SEDIMENT WILL NOT BE REDISTRIBUTED.
18. FOLLOWING ACCEPTANCE OF ALL COMPLETED WORK WITHIN THE PUBLIC RIGHT OF WAY, CONTRACTOR SHALL ACTIVATE SEPTIC TANK ABANDONMENT PERMITS FOR PHASE.
19. CONTRACTOR SHALL INSTALL WATER AND SEWER SERVICE CONNECTIONS AND SEPTIC TANK AND WELL ABANDONMENTS ON PRIVATE PROPERTIES AS INDICATED IN WOODSIDE HEIGHTS WASTEWATER RETROFIT LOT SERVICE PLANS.
20. CONSTRUCT FINAL ASPHALT COURSE OVER ENTIRE PROJECT LIMITS AND INSTALL THERMOPLASTIC STOP BARS.



NO.	DATE	DESCRIPTION	CHECKED BY:	REVISIONS
			D.W.H.	C.S.B.
			AD/JSR	1" = 200'

PROJECT NUMBER: LCP5-043  
 DATE: 11/28/17  
 DRAWN BY: AD/JSR  
 CHECKED BY: C.S.B.  
 SCALE: 1" = 200'

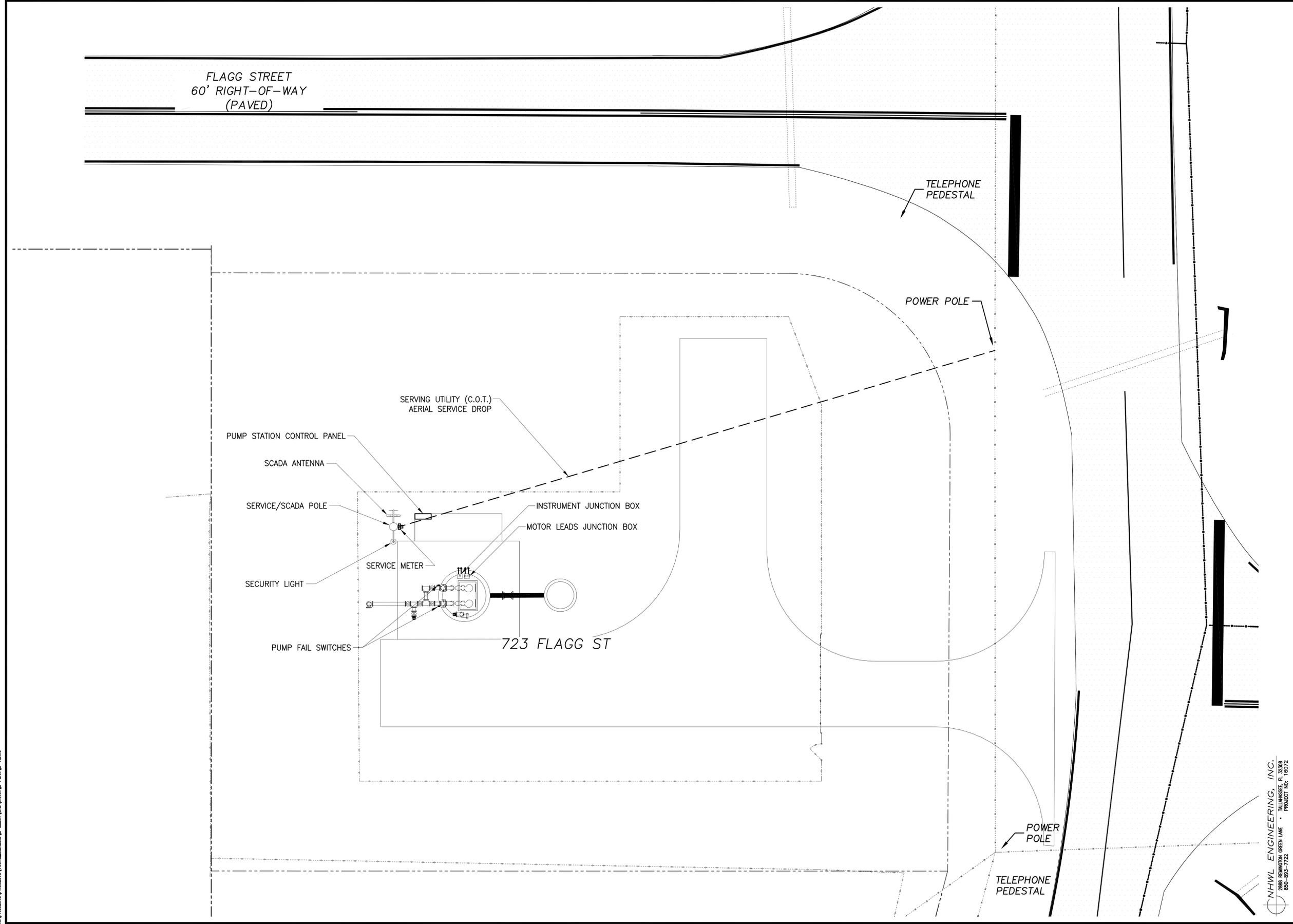
PREPARED BY: GGL LLC dba GENESIS  
 2507 CALLAWAY ROAD, SUITE 100  
 TALLAHASSEE, FLORIDA 32303  
 (850) 224-4400 (850) 681-3600 FAX  
 FL CA 000095660 FL LC 26000202

LEON COUNTY  
 PUBLIC WORKS

PHASING PLAN  
 WOODSIDE HEIGHTS WASTEWATER RETROFIT  
 FINAL CONSTRUCTION PLANS

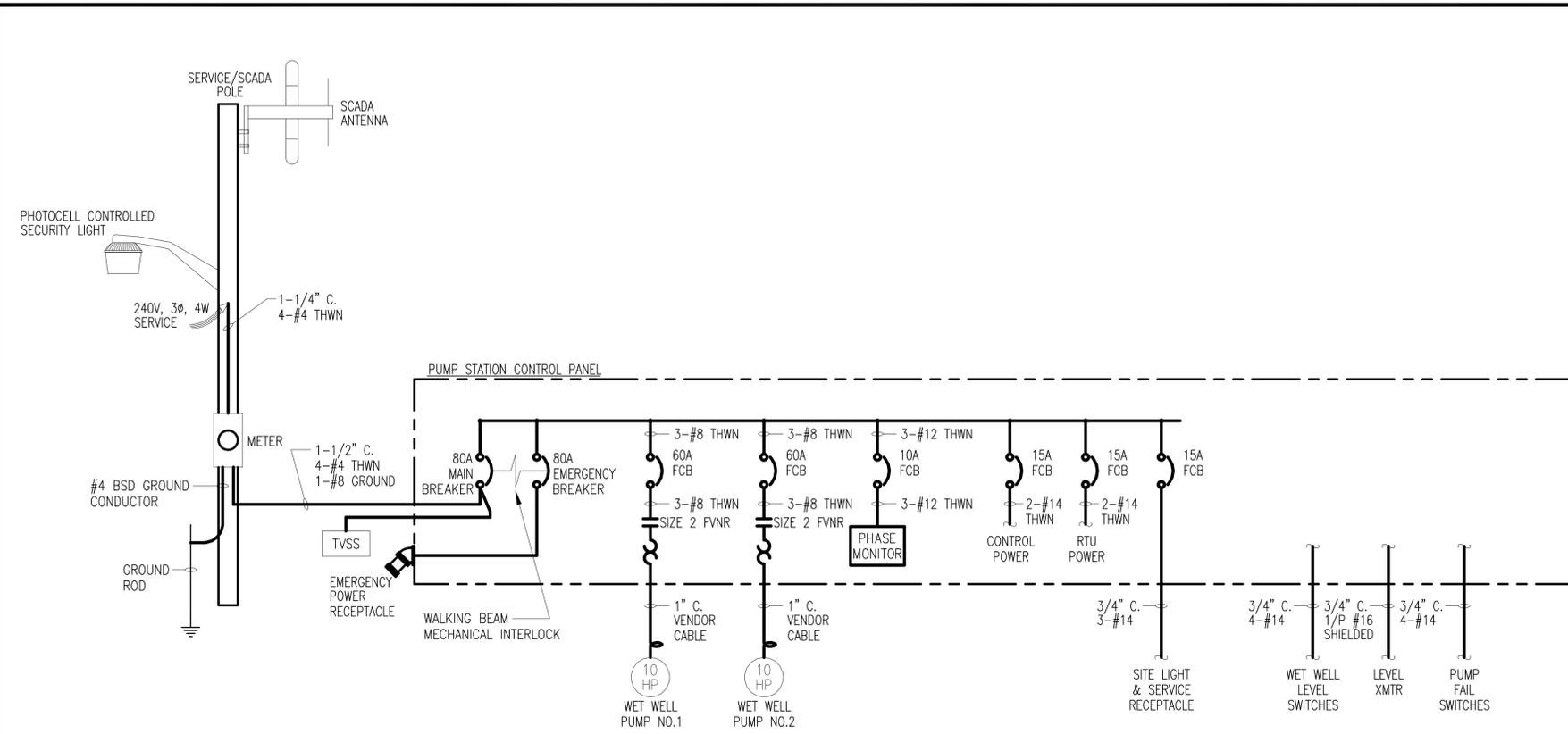
PROJECT TITLE: PHASING PLAN  
 PROJECT NAME: WOODSIDE HEIGHTS WASTEWATER RETROFIT  
 SHEET NUMBER: 44

October 9, 2017 (07/25/14 ESI)  
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**CNHWL ENGINEERING, INC.**  
 2888 REMINGTON GREEN LANE • TALLAHASSEE, FL 32308  
 850-883-7722 PROJECT NO: 16072

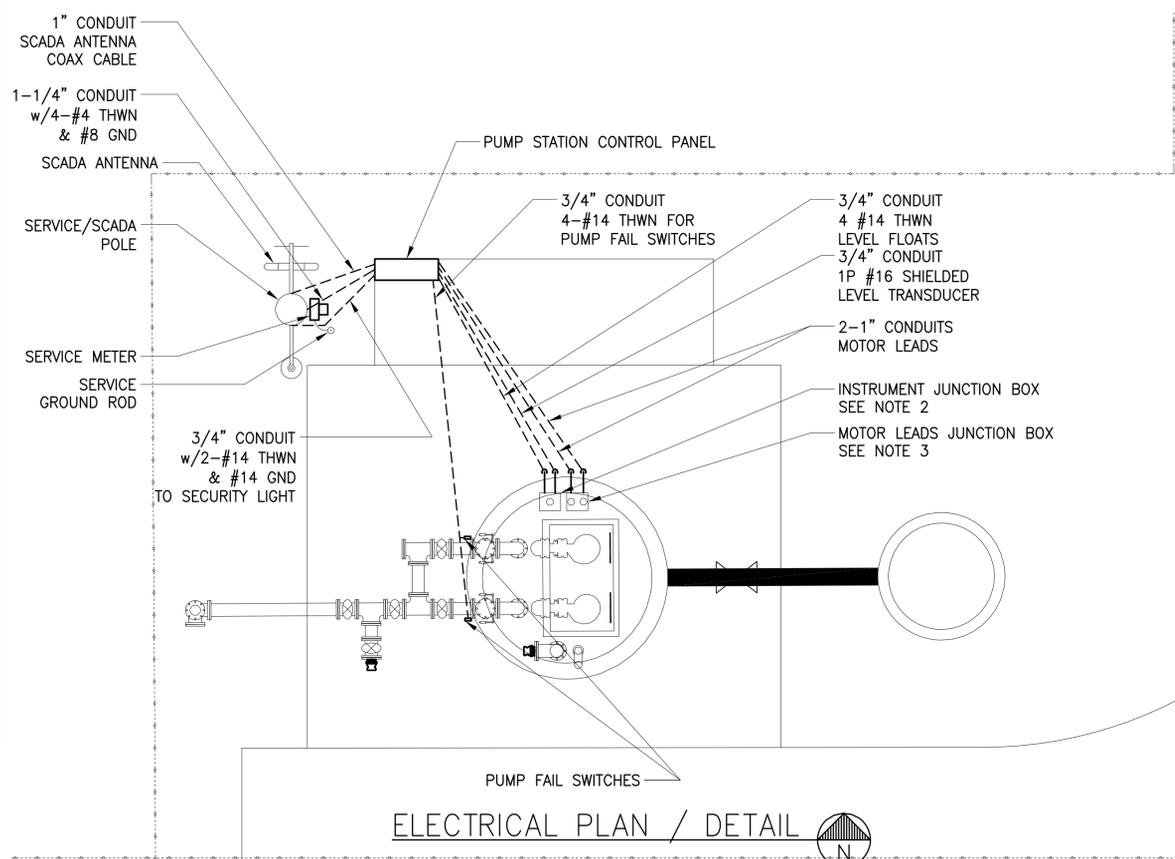
<b>GENESIS</b> FROM VISION TO REALITY <small>GGL LLC dba GENESIS          2507 CALLAWAY ROAD, SUITE 100          TALLAHASSEE, FLORIDA 32303          (850) 224-4400 (850) 681-5400 FAX          FL CA 00099600 FL LC 2600202</small>		<b>LEON COUNTY</b> <b>PUBLIC WORKS</b>	
PREPARED BY: <b>GENESIS</b>		PREPARED FOR: <b>LEON COUNTY</b>	
<b>PUMP STATION ELECTRICAL PLAN</b>		<b>WOODSIDE HEIGHTS WASTEWATER RETROFIT</b>	
SHEET TITLE:		SHEET NUMBER: <b>F-1</b>	
PROJECT NO:		PROJECT NAME:	
DESIGNED BY:		CHECKED BY:	
DRAWN BY:		SCALE:	
DATE:		REVISIONS:	
PROJECT NUMBER:		DATE:	
LCP3-043		NONE	
09/05/17		NONE	
10/11/17		NONE	
FINAL PLANS SUBMITTAL		R/J/C	
Joseph A. Lora, P.E. License Number 42532		NONE	



**SERVICE CALCULATION**  
 LIFT STATION PUMP 1 = 10HP = 10.4kVA  
 LIFT STATION PUMP 2 = 10HP = 10.4kVA  
 CONTROL POWER/SCADA = 2000VA = 2kVA  
 LIFT STATION LIGHTING = 150W = 0.15kVA  
**TOTAL LOAD = 22.95kVA**

AMPS =  $\frac{\text{TOTAL LOAD}}{240(1.73)}$   
 AMPS = 55.3 AMPS

PUMP STATION RISER DIAGRAM



ELECTRICAL PLAN / DETAIL

- NOTES:**
- 1] PUMP STATION WET WELL IS A CLASS 1, DIVISION 1, GROUP D HAZARDOUS LOCATION THAT REQUIRES THE USE OF CONDUIT SEALS BETWEEN THE WET WELL AND POSSIBLE SOURCES OF IGNITION. CONDUIT SEALS SHALL BE PLACED WITHIN (18)EIGHTEEN INCHES OF THE PUMP STATION CONTROL PANEL ENCLOSURE.
  - 2] 10"x12"x8" ALUMINIUM JUNCTION BOX WITH GASKETED COVER MOUNTED ON TOP OF THE WET WELL FOR THE WET WELL LEVEL/PRESSURE TRANSDUCER AND EMERGENCY BACKUP FLOAT SWITCH. THIS ASSEMBLY WILL REQUIRE CORED HOLES TO FACILITATE INSTALLATION AND REMOVAL OF THE 3/4" STAINLESS STEEL PIPE ON WHICH PRESSURE TRANSDUCER IS SUSPENDED AND THE FLOAT SWITCH ASSEMBLY FROM THE OUTSIDE OF THE WET WELL. CONTRACTOR TO USE TYPE CGB CONNECTORS WITH WIRE MESH GRIP TO SUPPORT THE FLOAT SWITCH AND CABLE SUSPENDED IN THE WET WELL.
  - 3] 10"x12"x8" ALUMINIUM JUNCTION BOX WITH GASKETED COVER MOUNTED ON TOP OF THE WET WELL FOR THE PUMP MOTORS POWER CABLES. ASSEMBLY WILL REQUIRE 2 CORED HOLES IN TOP OF THE WET WELL FOR PUMP MOTOR CABLES TO CHASE THROUGH INTO WET WELL. CONTRACTOR TO USE TYPE CGB CORD CONNECTORS WITH WIRE MESH GRIP TO SUPPORT THE PUMP MOTOR CABLES.
  - 4] SERVICE/SCADA POLE TO BE SUPPLIED AND INSTALLED BY CITY OF TALLAHASSEE ELECTRICAL DEPARTMENT. THE COST ASSOCIATED WITH THE POLE AND INSTALLATION SHALL BE BORNE BY THE CONTRACTOR.
  - 5] CONTRACTOR SHALL REFERENCE CITY OF TALLAHASSEE PUMP STATION STANDARDS FOR ANY ADDITIONAL REQUIREMENTS AND DETAILS FOR CONSTRUCTION OF THE ELECTRICAL PORTION OF THE PROJECT.

NO.	DATE	DESCRIPTION	REVISIONS	PROJECT NUMBER
0	10/11/17	FINAL PLANS SUBMITTAL	CHECKED BY:	LCP3-043
		DESIGNED BY:	SCALE:	DATE 09/05/17
		DRAWN BY:	RJC	NONE

Joseph A. Lora, P.E.  
 License Number 42632

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LEON COUNTY  
 PUBLIC WORKS

**PUMP STATION ELECTRICAL RISER DIAGRAM**

**WOODSIDE HEIGHTS WASTEWATER RETROFIT**

October 6, 2017 (071511 EBT)  
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NHWL ENGINEERING, INC.  
 2888 REMINGTON GREEN LANE • TALLAHASSEE, FL 32308  
 850-883-7722 PROJECT NO: 16072







