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ANNA MCCOY, MAYOR PRO TEM
SHIRLEY MARCHMAN
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City of Villa Rica



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MAYOR & COUNCIL WORK SESSION AGENDA

Holt-Bishop Justice Center, Municipal Courtroom, 101 Main Street

October 7, 2025 | 10:00 AM

Review of the Agenda (Mayor Leslie McPherson)

A. Governing Body (Mayor Leslie McPherson)

1. Proclamation- October 28, 2025 is National First Responders Day (Jeremy Dukes, Street Department Manager)

B. Public Works (Hal Burch, Director)

1. Auction of Non-Running/Retired PD & Fleet Vehicles (Steve Dutton, Fleet Manager)
2. Announcement of City Wide Clean -Up Dates (Virgil Chappell, Stormwater Manager)

C. Utilities (John Bain, Director)

1. Development Regulations Revision (John Bain, Interim Deputy City Manager/Utilities Director)

D. City Manager (Interim City Manager, Jennifer Hallman)

1. Rental agreement with the Villa Rica Military Veterans Association (Jennifer Hallman, Interim City Manager)
2. Georgia Power Lighting Agreement - SR8 From Rocky Branch Rd to SR 61 (Jennifer Hallman, Interim City Manager)
3. Georgia Power Lighting Agreement – New Area Lights on W Bankhead Hwy, W Wilson St, Candler St, Westview St & Upgrade 3 lights from HID to LED 3 in Alleys between S Carroll Rd and Westview Dr (Jennifer Hallman, Interim City Manager)
4. Consideration of December 26, 2025 as an employee paid holiday (Jennifer Hallman, Interim City Manager)

E. Executive Session (Nicole Smith, City Attorney)

1. Meeting to discuss or deliberate upon the appointment, employment, compensation, hiring, disciplinary action or dismissal, or periodic evaluation or rating of a public officer or employee as provided in Georgia Code section 50-14-3(b)(2).

Individuals with disabilities who require certain accommodations in order to allow them to observe and/or participate in this meeting, or who have questions regarding the accessibility of the meeting or the facilities are required to contact the City Clerk at 678-840-1229 10 business days before the scheduled meeting to allow the City to make reasonable accommodations for those persons.

National First Responders Day Proclamation

October 28, 2025

WHEREAS, first responders—including public works professionals, firefighters, police officers, emergency medical technicians, 911 operators, paramedics, and other emergency personnel—stand on the front lines of our communities, selflessly serving and protecting the citizens of Villa Rica in times of crisis; and,

WHEREAS, first responders respond swiftly and courageously to emergencies, often putting their own lives at risk to ensure the safety and well-being of others, whether in natural disasters, accidents, medical emergencies, or public health and safety threats; and,

WHEREAS, it is in the public interest for the citizens, civic leaders, and children in Villa Rica to gain knowledge of and maintain an ongoing interest and understanding of the importance of public works and other first responder efforts in their respective communities; and,

WHEREAS, the year 2025 marks the 7th annual National First Responders Day sponsored by bipartisan resolutions in the US Senate and House be it now,

RESOLVED, I, Leslie McPherson, Mayor, of Villa Rica, do hereby designate October 28, 2025, as National First Responders Day. I urge all citizens to join with representatives of the American Public Works Association and government agencies in activities, events, and ceremonies paying tribute to our public works first responders alongside law enforcement, firefighters, paramedics, emergency medical technicians, 911 operators, and other emergency personnel, to recognize the substantial contributions they make to protecting our national health, safety, and advancing the quality of life for all.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the Seal of Villa Rica, Georgia

DONE at the Villa Rica, **Georgia** this _____ day of _____ 2025.

Mayor Leslie McPherson,

[OFFICIAL SEAL]



PUBLIC WORKS

FIRST RESPONDER

Why recognize public works professionals as **FIRST RESPONDERS**?

While police, fire, and EMS are often the three most recognized first responders, public works is also often silently there—providing vital support to emergency response partners, helping protect essential services, and restoring those services following an emergency situation. Consider the following:

- In 2003, President George W. Bush issued [Presidential Policy Directive 8 \(PPD-8\)](#) officially recognizing public works as first responders.
- In 2010, Mississippi, under House Bill (HB) 664, recognized public works professionals as first responders.
- In 2019, the US Senate passed Senate Concurrent Resolution 15 ([S.Con.Res.15](#)), “Expressing support for the designation of October 28, 2019, as Honoring the Nation’s First Responders Day.” Public works is specifically included.
- In 2022 New Hampshire Governor Chris Sununu signed into law SB325, formally recognizing public works employees as first responders.
- In 2022, New Hampshire passed HB 536, “An Act relative to death benefits for public works employees killed in the line of duty, and relative to workers’ compensation offsets for certain retirement system benefits.”
- Public works is often considered “the silent arm of public safety” ... usually without fanfare. Public works professionals are often the first on scene and the last to leave the scenes of disasters—no matter the peril.
- The National Incident Management System (NIMS) lists public works alongside police, fire, and public health in its documentation: [National Incident Management System, 3rd Edition \(fema.gov\)](#).

What can I do?

- Establish a public works awareness committee.
- Arrange networking sessions with fellow public works professionals to share your ideas, experiences, and your public works awareness success stories.
- Put together a short presentation/video to share with your elected officials at the local, county, state, and federal levels highlighting the vital role public works professionals have as first responders.
- Reach out to APWA’s Government Affairs staff and refer to the APWA website for the latest information.
- When discussing public works as first responders, remember to use the APWA theme, “Ready and Resilient.”
- Remind your organizations and those you serve, whether it is clearing debris after a major storm, clearing the roads during winter weather conditions, setting up protective barriers, or any other critical essential function, that **public works is always there** to ensure government operations return to normal as quickly as possible. “Public works is the silent arm of public safety!”

Please don’t hesitate to reach out to APWA Government Affairs Manager, Marty Williams by phone (202) 218-6732 or email mwilliams@apwa.org, or APWA’s Marketing Department by phone at (816) 595-5257 or email jshilhanek@apwa.org, should you have any questions or need assistance raising awareness of public works as first responders.



CITY OF VILLA RICA

City Council Meeting Agenda Item Cover Sheet

SUBJECT: Auction Of Non-Running/Retired PD and Fleet Vehicles on GovDeals.Com

AGENDA DATE: 10/7/25

DATE PREPARED: 9/9/25

PREPARED BY: Stephen Dutton, Fleet Manager

AMOUNT – 7.5% of total sale price after the auction, funds are taken out of our payments

GL ACCOUNT #: General Fund

FUNDING SOURCE: N/A

BUDGETED ITEM? N/A

PURPOSE: To make additional space in the Avanti Building by auctioning our surplus and non-running vehicles on GovDeals.com

BACKGROUND: We have used GovDeals Online Auctions with good success since 2009 to auction off our use vehicles and small equipment that are no longer feasible to repair. We have 5 older vehicles that are just taking up space that we badly need in the Avanti Building. These are 5 older Fleet vehicles that are unassigned and in poor condition with high mileage and have some mechanical issues.

- 2004 Ford Ranger- Retired from Distribution- 4989
- 2008 Ford Taurus- Retired from Building Dept/Maintenance use- 7360
- 2006 Ford F250- Retired from Distribution use- 8575
- 2010 Ford Fusion- Retired from Fleet/Code Compliance use- 8310
- 2014 Ford Taurus- Retired from PD use- 8084

STAFF RECOMMENDATION: To let us proceed with auctioning these 5 vehicles and make more space in the Avanti building for day-to-day operations

IMPACT: Free up parking space and we get funds for our salvage vehicles we no longer use.

MOTION: I move that we approve GovDeals.Com to list our 5 surplus vehicles for auction to the highest bidder on their website.



CITY OF VILLA RICA

City Council Meeting Agenda Item Cover Sheet

SUBJECT: City-Wide Clean Up
AGENDA DATE: 10/7/2025

DATE PREPARED: 9/15/2025
PREPARED BY: Virgil Chappell

AMOUNT: N/A
GL ACCOUNT #: N/A
FUNDING SOURCE: N/A
BUDGETED ITEM? N/A
PUBLIC HEARING: No

PURPOSE:

To announce and share the dates for the Annual City-Wide Clean-Up.

BACKGROUND:

Each year the city allows our residents to dispose of solid waste items that are not normally picked up like small appliances, furniture and miscellaneous junk items. This is an important event that helps the city satisfy part of our Phase II MS4 Stormwater Permit. We also select two days during the event to assist seniors with the transportation of appliances or furniture from the front of their house to the street. A signed waiver is required for this special service.

STAFF RECOMMENDATION:

This year's event will be held over a two-week period. Staff have chosen to hold our 2025 cleanup event during the weeks of October 13th and October 20th. We also would like to designate Wednesday, October 15th and Wednesday, October 22nd as the days we will assist seniors with large item removal. Promotion of the event will utilize our website, Facebook, flyers, and an insert with the utility bill.



VILLA RICA CITYWIDE CLEANUP

CITY OF VILLA RICA

QUESTIONS: 678.785.1000

The City of Villa Rica is committed to keeping our city beautiful by helping to keep neighborhoods free of junk. Villa Rica offers this annual event to assist residents in disposing of unwanted items that are not typically picked up by GFL Environmental with its weekly residential service of household garbage. Have your items curbside by 7:00 am on your normal yard waste/bulk item pickup day or call City Hall for special assistance. Pickups will occur according to the "Clean City" solid waste schedule, which may be different than your residential GFL Environmental schedule. A full [color-coded map](#) is available at villarica.org. Click below for each route map.

Solid Waste Pickup Schedule

Monday (Blue-A/B)	Oct 13, 2025 A	Oct 20, 2025 B
Tuesday (Orange-A/B)	Oct 14, 2025 A	Oct 21, 2025 B
Wednesday (Green-A/B)	Oct 15, 2025 A	Oct 22, 2025 B*
Thursday (Pink-A/B)	Oct 16, 2025 A	Oct 23, 2025 B
Friday (Yellow-A/B)	Oct 17, 2025 A	Oct 24, 2025 B

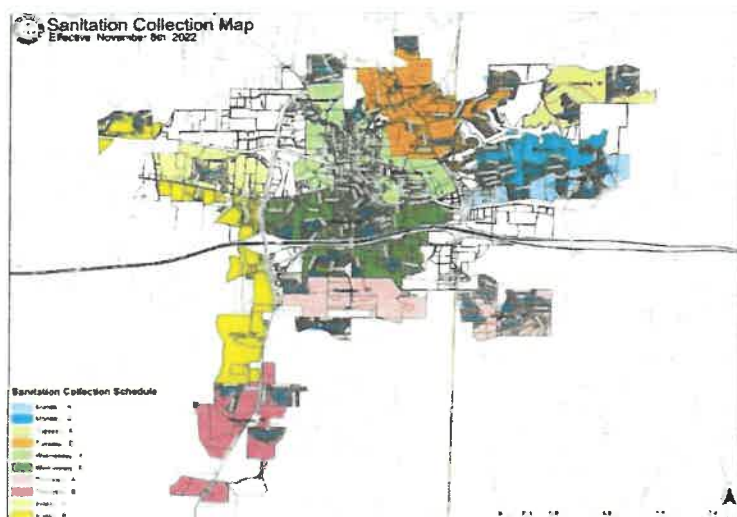
—Wednesday, October 15th and 22nd the City will provide special assistance to seniors with appliance pickup. Please contact City Hall for additional information.

We will pick up...

Bagged lawn clippings/
leaves | Plants materials |
Small appliances | Small
household items | Bicycles
Fence posts | Metal and
aluminum | Miscellaneous
junk items | Furniture |
Limbs no larger than 5-
feet long and 10- inches in
diameter

We will not pick up...

Automobiles | Boats | Trailers |
Tires and Car Parts | Creosote-
treated Wood and Crossties |
Batteries | Paint Cans (unless
lids are removed and paint dried
and mixed with sand |
Roofing Shingles
Hazardous Materials |
Household garbage |
Petroleum-based products |
Rocks and dirt | Items
weighing more than 500
pounds | No Freon- based
appliances or equipment |
Petroleum-based Products |
Unbagged Lawn Clippings
or Leaves





CITY OF VILLA RICA

City Council Meeting Agenda Item Cover Sheet

SUBJECT:	Development Regulations Revision
AGENDA DATE:	October 7, 2025
DATE PREPARED:	October 1, 2025
PREPARED BY:	John Bain
AMOUNT:	N / A
GL ACCOUNT #:	N / A
FUNDING SOURCE:	N / A
BUDGETED ITEM?	N / A

PURPOSE: To amend Sections 400 and 500 of the City's Development Regulations.

BACKGROUND: Through a review of Section 400 (Sewer) and Section 500 (Water) staff identified the need to update items to meet current standards, manufacturing methods, and/or to align with efforts to standardize stations and pump/piping fittings.

These housekeeping items include:

Section 400 – Sewer Regulations

403.8 A(2): Acceptance of only ductile iron pipe manufactured in the United States. All ductile iron pipe to be lined with Tnemec 431 perma-shield or Protecto 401 ceramic epoxy, and coated with a layer of arc-sprayed zinc.

403.11 Wastewater lift station standardization

A(1): Pump station pump and control panels standardization: pumps to be Flygt, Sulzer, or approved equal. Panels to be Flygt, Stacon, or Amtech.

D(1, 2, 4, 5): Standby power: Transition from standby generator to dry prime pump with silent pack in most applications. Dry prime pumps to be Godwin or approved equal.

F(2): Vents to be stainless steel

H(3): Force main air-release valves to be Crispin brand stainless steel valves

I(1) Electrical: Stations and controls to be 3-phase power, with handle style latching doors.

I(7): Pumps to be controlled by transducer, with high and low level alarm float system

I(8): Pump controller to be Time Mark or approved equal. H-O-A switches to be removed unless not using Time Mark controller.

Section 500 – Water Regulations

505.13: Meter yoke requirement for residential services to be removed

505.10 Fire hydrants:

Current specifications call for newly installed hydrants to be painted silver.

Recommendation is for newly installed hydrants to be painted red, with either the bonnet and/or two 2 ½" hose connections painted per current NFPA-recommended fire code.

Carroll County Fire Department recommends hydrants bodies be painted red as recommended. NFPA-recommended fire code painting is attached.

STAFF RECOMMENDATION: Staff recommends approving the revision to the Water and Sewer Development Regulations to meet current manufacturing standards and for the standardizing of the City's public utility system.

MOTION: I move to approve the revisions to Sections 400 and 500 of the City's Development Regulations as presented.

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400. SEWER REGULATIONS

401. General Information

401.1 Use of This Document:

- A. This document is subject to periodic revision to meet changing requirements for materials, environmental regulations, etc. At the beginning of a project the user should verify that he has the latest edition.
- B. This document is intended to convey the general design and construction requirements for a typical project. It also lists specific City of Villa Rica requirements relating to plan review, inspection, testing and acceptance of facilities. It is not intended as a substitute for site-specific engineering and construction techniques.

401.2 Connection to Existing Sewers:

- A. Except as provided below, all future buildings within the city's corporate limits which are to be utilized for occupancy or any other use such as commercial or industrial purposes which requires sanitary sewerage facilities shall be connected to the public sewer system. Cost of constructing the necessary facilities for connection to public sewers shall be at the expense of the developer.
- B. Waiver of the requirement to connect to public sewers will be considered on a case-by-case basis for non-subdivided, single-lot buildings when the nearest connection point to a public sewer is more than 200 feet from the property line, when such buildings are to be used for single-family dwelling or some other use where the wastewater loading is no more than that of a single-family dwelling.
- C. The City maintains the option of requiring developers of individual lots to construct main line extensions of up to 500 feet to avoid cutting pavement on existing streets for connection to the public sewer.

401.3 Definition of Sewer Line Terminology:

- A. "Building Sewers" or "Service Laterals" are defined as those pipes used to convey wastewater from the building or portions of a building to a main sewer. The minimum diameter for a service lateral is 4 inches. These sewers are privately funded and owned.
- B. "Main Sewers" are located in streets or dedicated easements. They are

gravity piping systems used to collect sewage from one or more service laterals to other main sewers. Main sewers are a minimum of eight (8) inches in diameter and may extend beyond the property boundaries of a development. Funding of main sewers is by the developer.

- C. "Force Main Sewers" are pressure piping systems which convey sewage from a pump station to a main sewer. These sewers are constructed of ductile iron pipe and have a minimum diameter of four (4) inches. Funding of force mains is by the developer.

401.4 When Public Sewers Are Not Available:

- A. If sewers are not available within 200 feet of the property line the options available are:
1. Do not develop.
 2. Install septic tanks or other on-site treatment system.
 3. Extend city sewers to the area.

402. Plans, Specifications and Submittals

- 402.1 **General:** All projects which involve construction of Main Sewers and/or Force Mains and Pumping Facilities shall have detailed construction plans and specifications prepared by a Registered Professional Engineer or Licensed Surveyor licensed in the State of Georgia. Developments which only involve building sewers may have plans and specifications prepared by the project Architect.
- 402.2 **Preliminary Review:** Preliminary plans will be prepared and submitted for review as described elsewhere in the development regulations. Questions relating to availability of sewers and proposed location of connection should be resolved at this stage before proceeding with final planning. A submittal for preliminary review must include all land to be developed although the land is to be developed in several phases or units. Availability determinations will be made only for the phases of the project proposed for current construction. Availability determinations will be valid for a period of one year from the date of project approval. The Developer must submit any data required for accurately projecting sewer flow quantities and rates. The Developer is also responsible for furnishing any other information deemed necessary for evaluating service feasibility.
- 402.3 **Sewer Construction Plans:** All plans for public sewer facilities shall be prepared in accordance with the requirements outlined herein and as required in regulations promulgated by the Georgia Environmental Protection Division. The developer shall be responsible for submitting

plans and other data to the Georgia EPD for required approvals. Projects involving sewers greater than 36 inches in diameter or pump stations with capacity of 700 gallons per minute and greater must be submitted to EPD for required approvals. The following requirements will apply to preparation of sewer construction plans:

- A. The site plan shall show land lots, district and north arrow, lot layout, and existing and proposed building locations. The site plan shall also show all existing and proposed streets and their names, all streams, water courses, existing and proposed storm drains, and the discharge points for all drainage structures. The site plan shall accurately show the topography with contour lines at two-foot intervals. Elevations shall be referenced to Mean Sea Level and plans shall note the location of the specific USGS Vertical Elevation Marker used for deriving site elevations. The site plan shall show the sewer layout with existing and proposed lines, manhole numbers, line designation and direction of flow, and proposed sewer easements and other utility easements. It shall also show the location of proposed services.
- B. The design of cross-country sewer lines and force mains shall be based on field-run surveys. The site plan for cross-country sewer lines and force mains need not show contour intervals on the plan view, but the profile views shall accurately depict ground level elevations and elevations of all relevant structures. Site plans for lift stations shall show existing and proposed contours. In the event the subdivision is developed in phases, the final construction plans for sewers may be submitted in phases or units. However, at the time the first phase is submitted, the engineer will submit one copy of the preliminary layout of the entire sewer system. This layout will show all lines required to serve any lots to be developed and any surrounding property that may be served through the property. The site plans for each phase or unit shall contain a location drawing showing the relationship of the phase or unit to the total project and to the surrounding streets and sewers.
- C. Profiles should have a horizontal scale of not more than 100 feet to the inch for cross-country lines and 50 feet to the inch for congested areas, and a vertical scale of not more than 10 feet to the inch. The plan view should be drawn to a corresponding horizontal scale. The plan view should normally be shown on the same sheet as the profile. In any case both the plan and profile view should have line designations, station numbers, manhole numbers and any other indexing necessary to easily correlate the plan and profile view.

Plans and profiles shall show:

1. Location of streets, sewers and utility easements.
2. Profile of ground surface, the grade of the sewer between each two adjacent manholes, size and material of pipe, length between manholes, invert of sewer in and out of each manhole, and ground surface elevation at each manhole. All manholes shall be numbered on the plan and correspondingly numbered on the profile and station numbers will be shown for each manhole. The profile of adjacent parallel stream beds and of adjacent lake surfaces, low buildings, and lots shall be shown on the profile.
3. Locations of all special features such as connection to existing sewers, concrete encasements, collar walls, ductile iron pipe sections, elevated sewers, piers, special manhole covers such as vented outfall covers or sealed covers, etc.
4. All known existing structures both above and below ground which might interfere with the proposed construction, particularly water mains, gas mains, storm drains, utility conduits, etc.
5. The vertical datum used shall be the elevation above mean sea level with benchmarks shown on the plans.

402.4 Erosion and Sedimentation Control Plan:

- A. The Georgia Soil and Water Conservation Commission has taken provisions of ACT 599 and published a **MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA**, 1992 Edition (or any more current edition as they are published). Sewer construction plans and specifications shall include appropriate segments of this manual. Developers, Engineers and Contractors performing work in the City of Villa Rica are responsible for acquiring a copy of this manual and using the best practical methods contained therein to control the erosion and sedimentation of the construction site in conformance with the intent of ACT 599.

Copies may be purchased from the Georgia Soil And Water Conservation Commission, P.O. Box 8024, Athens, Georgia 30603. For additional information, call the Commission at 706- 542-3065.

- B. Plan: An erosion and sediment control plan, meeting the requirements of applicable state regulations, shall be provided as part of the overall construction drawings.

402.5 Detail Drawings:

- A. Sewer Details: Special detail drawings made to a scale to clearly show the nature of the design shall be furnished to show the following particulars:

1. All stream crossings and storm drain outlets with elevations of the stream bed and of normal and extreme high and low water levels.
2. Details of special sewer joints and cross sections.
3. Details of special sewer appurtenances such as manholes, service connections, elevated sewers, piers, pipe bedding, special highway crossings, railroad crossings, etc.

- B. Erosion Control Details: Erosion Control Details and Symbols may be taken directly from the **Manual For Erosion and Sediment Control In Georgia**, current edition, referenced above.

402.6 As-Built Drawings: At the completion of construction (and preferably prior to the final field inspection), “As-Built” drawings of the project shall be submitted to the city to serve as a permanent record of the project and shall be furnished in the form of one set of mylar sepias (or other suitable form of reproducible drawings) and two sets of blue line copies. Acceptance by the city will be made only after satisfactory as-built drawings have been submitted. As-built drawings will be in the same format as the original construction plans and normally will be an updated version of the construction plans. As-built drawings shall be prepared by the project design professional. Each sheet of these drawings shall bear words “As-Built” or “Record Drawings”.

Guidelines for preparation of As-Built:

1. As-Built drawings will be same format as the original construction

- plans.
2. Contour lines are required.
 3. Road names and lot numbers should be on plan.
 4. "As-Built" or "Record Drawing" is to be stamped in large clear print on plans.
 5. Sheet should be no larger than 24" X 36".
 6. Lateral locations must show distance from the downstream manhole. Ends of lateral lines must show distance from downstream manhole and offset distance from the main line. Approximate depth of end of lateral must be indicated.
 7. Show elevations of manhole inverts and tops.
 8. Show field-measured distance between manholes.
 9. For any lines which are outside paved streets, show the field-measured azimuth or bearing of the line from manhole to manhole.
 10. Show actual slope of pipe.
 11. When a phase of a subdivision is completed, a location sketch of entire subdivision with said phase outlined shall appear on plans.
 12. Maximum error of as-built measurements shall be:
 - a. Manhole inverts: measure to 0.10' with maximum vertical error of 0.15' per 1,000 feet of horizontal traverse.
 - b. Manhole tops: measure to 0.10' with maximum vertical error of 0.50' per 1,000 feet of horizontal traverse.
 - c. Horizontal Locations: Measure to nearest 1.0' with allowable error of 1.0' per 1,000' of traverse.

402.7 Easement Acquisition and Utility Encroachment Permits:

- A. It shall be the responsibility of the developer to obtain any off-site easements required to connect the project to existing public sewers. Easements will be conveyed to the City of Villa Rica for all facilities which are to be conveyed to the city. This process must be started early enough to allow construction of the sewer before any building construction is to begin. No building permits or sewer tap applications can be issued until off-site sewers have been constructed and accepted. This condition shall override any provision for speed up of house starts such as furnishing a bond to guarantee completion of the streets and other appurtenances.
- B. All easements shall allow adequate room to construct the sewer and appurtenances. Permanent easements shall be a minimum of 20 feet wide, 10 feet on each side of the line; except that when the depth of the sewer exceeds 10 feet the required sewer easement width shall increase such that the easement width is at least twice the depth from the ground surface to bottom of the pipe. Designs

involving utilities sharing a common easement will be coordinated with the utilities to insure adequate separation of utilities and overall easement width is achieved.

- C. Easement drawings for work outside the development shall be furnished and recorded prior to approval of the sewer plans. The drawings shall be of a size suitable for legal recording and shall be prepared by a Registered Land Surveyor. The drawing will show property lines, the name of property owners with the length of line encroaching on each property owner, size of line, line designation, manhole numbers and stations, width of permanent and construction easement, scale of drawing, north arrow, land lot and district numbers, and a tie to the nearest land lot corner. Any streets or other existing easements shall also be shown.

The title block shall be shown as follows:

City of Villa Rica
NAME OF OUTFALL OR SUBDIVISION
EASEMENT FOR PROPOSED
SANITARY SEWER
CROSSING PROPERTY OF
John Doe

LL: District: Section: Date: Revised Date:

- D. The engineer shall furnish appropriate drawings for any submittal to agencies such as any state or federal highways, railroads, power lines, water lines, gas lines, petroleum lines, or any other utility lines on which the sewer construction will encroach. The drawing shall normally be 8-1/2" X 11" or 8-1/2" X 14" and shall show a plan view and profile view. The drawing will show the same information required for easement drawings. Also, the drawing will show the right-of-way of the existing street or utility, the owner's designation of the line, the name or number of the nearest intersection or mile-post or tower number and the distance to that appurtenance. The clearance distance between the street surface, or the bottom of the rail, or the utility and the sewer will be shown. The drawing will show the type of material to be used for the sewer and the method of construction to be used. The drawing will also contain any other special information required by the controlling authority of the facility on which the sewer is encroaching. A minimum of five copies of the utility encroachment drawing will be furnished with the plans when they are submitted for approval. The engineer is also responsible for furnishing a completed encroachment permit application ready for signature by Department Superintendent. Construction permits

will not be issued until the utility encroachment permit has been obtained and until any special conditions such as insurance requirements have been complied with.

403. **Design Criteria And Materials For Sewers**

403.1 **General:** The criteria listed herein is not intended to cover all aspects of design, but rather to mention the basic guidelines and those particulars that are required by the City of Villa Rica Water & Sewer Department. For more detailed criteria, the reader should refer to standard references such as “Ten States Standards”, Georgia EPD rules, Water Pollution Environment Federation Manual of Practice NO. FD-5, and other available literature.

403.2 **Types of Sewers:** All sewers for the conveyance of wastewater shall be designed as separate sanitary sewers in which groundwater, stormwater or other runoff from roofs, streets, parking lots, foundation drains and any source other than wastewater are excluded. Overflows from sewers shall not be permitted.

403.3 **Design Period:** Gravity sewer pipelines should, as a minimum, be designed with capacity sufficient to handle the estimated tributary population. Tributary population is considered to be all areas upstream of the discharge point of the system being designed as well as any anticipated pumped flow from other basins. Sewers will be designed and installed to the uppermost property line of the development being served. Consideration should be given to the maximum anticipated capacity of institutions, industrial parks, etc.

403.4 **Capacity and Size Determinations:** In determining the required capacities of sanitary sewers, the following factors should be considered:

1. Maximum hourly sewage flow.
2. Additional maximum sewage or waste flow from industrial plants.
3. Ground water infiltration.
4. Topography of the area.
5. Depth of excavation.

New sewer systems shall be designed on the basis of an average daily flow of sewage of not less than 400 gallons per household per day. Normally, all sewers shall be designed for a peak flow of **not less than** 2-1/2 times the average flow; this peak factor will be higher for smaller basins (see design guides). Sewers should be designed to carry the peak flow when flowing at a depth of 2/3 pipe diameter. The city land use plan should be consulted and special consideration given to commercial and industrial

areas. Where developers are installing major trunk lines or interceptor sewers, the city's long-range plan should be consulted as a guide and the sewer should as a minimum be of the size called for in the long-range plan. If proposed land use conditions have changed subsequent to the plan, these changes should be factored into the determination.

403.5 **Special City Requirements:**

- A. Distance Between Manholes: Maximum distance between manholes shall be 400 feet.
- B. Depth: Any sewers installed in the street shall, topography permitting, be sufficiently deep to provide 5 feet of cover over service laterals at the street right-of-way, and over any part of the main or service within the street right-of-way. The maximum depth for PVC pipe shall be 15 feet, depths in excess of this shall be ductile iron. Sewers installed in streets shall have maximum depth of 12 feet. Any sewers on off street easements shall have a minimum of four feet of cover unless ductile iron pipe is used. Filling over the pipe to obtain minimum cover is not allowed.
- C. Drop Across Manholes: All manholes shall be provided with, a minimum vertical drop across the manhole (between in and out pipes) of 0.10 feet.
- D. Detection tape shall be installed over all sewer pipe. Bury tape 18 to 24 inches below grade. Use detection wire on all service laterals.

403.6 **Slope:** All sewers shall be so designed and constructed to give mean velocities, when flowing full, of not less than 2.0 feet per second based on Manning's formula using an "n" value of 0.013. The following are the minimum slopes which should be provided; however, slopes greater than these are desirable:

Minimum Slope in Feet	
<u>Sewer Size</u>	<u>Per 100 Feet</u>
8"	0.40
10"	0.29
12"	0.22
14"	0.17
15"	0.15
16"	0.14
18"	0.12
21"	0.10
24"	0.08

These minimum slopes will be used only when sufficient flows are

expected to maintain a velocity of 2.0 feet per second and maintain a cleaning action in the line. Sewers shall be laid with uniform slope between manholes. Sewers on 20 percent slope or greater shall be ductile iron pipe and shall be anchored securely with concrete anchors (See Standard Details) to prevent displacement by erosion or shock. Maximum slope of sewers shall be 30 percent and sewers shall be designed at less than 20 percent whenever possible.

403.7 **Increasing Size:** When a small sewer is connected to a large one, the connection shall not be lower than matching the top of both sewers to the same elevation.

403.8 **Gravity Sewer Pipe Materials:** The city reserves the right to disallow any Manufacturer that does not have a consistent, long-term record of quality control and successful product performance. Gravity sanitary sewer pipe up through 15-inch diameter will normally be Polyvinyl Chloride (PVC), solid wall type SDR 35 thickness meeting ASTM D3034. Ductile Iron Pipe (DIP) will be used where certain conditions exist (see discussion of D.I.P.). For 18-inch diameter pipe and above, the Contractor may have the option of using either Polyvinyl Chloride (P.V.C.), Reinforced Concrete Pipe (R.C.P.), or Ductile Iron Pipe. The city may approve other types of pipe on a case by case basis and may limit the options of type of pipe depending on site conditions. This should be addressed at the preliminary review stage.

Bedding for sewer pipe shall be as follows (also see city standard details): For PVC the minimum bedding shall be #57 or #89 crushed stone a minimum of 6 inches below bottom of pipe extending up to 6 inches above top of pipe for the full width of the trench.

For Concrete and Ductile Iron pipe the minimum bedding shall be #57 or #89 crushed stone a minimum of 6 inches below bottom of pipe extending up to the top of pipe. In wet areas, the minimum bedding requirements will be increased as required to ensure a stable support under the pipe and on the sides of the pipe.

A. Ductile Iron Pipe (DIP):

1. Scope: Ductile iron sewer pipe shall be required at all utility crossings with less than 2 feet of clearance, in locations where cover is less than 4 feet, at stream crossings, where slopes exceed 20 percent, and where cover exceeds 15 feet.
2. **The City will only accept ductile iron pipe manufactured in the United States.** Ductile Iron Pipe shall be designed in accordance with ANSI Specification A21.50 - 81. The thickness and class of the pipe shall be governed by ANSI Specification A21.50-81, but shall be no less than class 50 thickness. Pipe shall be manufactured

in accordance with ANSI Specification A21.51 - 81 latest revision. ~~Pipe shall be coal tar epoxy lined and seal coated with approved bituminous seal coat in accordance with AWWA C151, latest revision. Coal tar epoxy lining shall adhere to the following specifications.~~ **All ductile iron pipe shall be lined with either Tnemec Series 431 Perma-Shield or Protecto 401 Ceramic Epoxy. The exterior of ductile iron pipe shall be coated with a layer of arc-sprayed zinc. The mass of the zinc applied shall not be less than 3 mils with a local minimum not less than 2 mils. All pipe shall be manufactured and coated in the United States at the pipe manufacturer's facility.**

3. Joints: DIP joints shall be of the bell and spigot type with push-on joints, conforming to ANSI Specification A21.11 or mechanical joints.

B. Polyvinyl Chloride (PVC) Sewer Pipe:

1. Scope: The Contractor shall provide unplasticized polyvinyl chloride (PVC) plastic gravity sewer pipe meeting the requirements of ASTM D3034 (Latest Revision) in the sizes shown unless otherwise indicated on the contract documents.
2. Materials: Pipe and fittings shall meet the requirements as specified under ASTM D3034 (Latest Revision) for pipe through 15" and ASTM F679 for pipe 18" through 27". All pipe and fittings shall be suitable for use as a gravity sewer conduit. Bell joints shall consist of an integral wall section with elastomeric gasket joint which provides a watertight seal. The pipe shall be capable of passing all tests which are detailed in this specification. Minimum wall thickness shall be SDR 35.
3. Fittings: All fittings and accessories shall be manufactured and furnished by the pipe supplier. They shall have bell and/or spigot configurations compatible with that of the pipe and shall have an equivalent wall thickness.
4. Pipe and Fittings Tests: Before shipping any pipe, the Manufacturer shall submit shop drawings to the City and shall furnish written certification that all pipe through 15" meets ASTM Specification D3034 and that pipe 18" through 24" meets ASTM F679. The City reserves the right to require additional laboratory testing at the Developer's expense to verify minimum quality standards are being met.

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6. Pipe Stiffness: Minimum “pipe stiffness” (F/Y) at 5 percent deflection shall be 46 psi for all sizes, when tested in accordance with ASTM Standard Method of Test D2412 (Latest Edition), to determine the “External Loading Properties

of Plastic Pipe by Parallel-Plate Loading”. There shall be no evidence of splitting, cracking, or breaking at a deflection of up to 30 percent of the original diameter.

6. Fusion Quality: There shall be no evidence of flaking, swelling, or disintegration when the pipe material is tested in accordance with ASTM D2152, “Quality of Extruded Poly (Vinyl Chloride) pipe by Acetone Immersion”.
7. Joint Tightness: Pipe and fitting joints shall comply with ASTM D3212 (Latest Edition) for “Joints for drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals”. Joint assemblies shall not leak when subjected to both an internal and external hydrostatic test at equivalent pressures of 10.8 psi gauge for a period of one hour. Pipes shall be tested in straight alignment, axially deflected position, and by shear load test as otherwise defined in Paragraphs 7.2, 7.3, and 7.4 of ASTM D3212.
8. Installation: PVC pipe will be installed in accordance with ASTM D2321 (Latest Revision). Initial backfill shall be compacted to the densities outlined in D2321. The City may require random compaction tests at the Developer’s expense to insure compliance with D2321.
9. Deflection Limit: Vertical deflection of installed pipe shall not exceed 5 percent of the un-deflected diameter as defined in ASTM D3034. Upon completion of the pipe laying the pipe will be tested for conditional acceptance. The test shall be performed by the Contractor pulling a mandrel of specified dimensions through the pipeline.

C. Reinforced Concrete Pipe (R.C.P.):

1. General: The use of reinforced concrete pipe for sewers will be subject to approval on a case-by-case basis depending upon size of the sewer and site conditions. When approved for use, concrete gravity sewer pipe shall meet all materials and testing requirements of ASTM C-76, ASTM C-443, and ASTM C-497 (except where modified herein).
2. Quality Assurance: The Contractor must submit to the Owner and Engineer the concrete pipe manufacturer’s evidence of a working Quality Control Program for approval, prior to any pipe being manufactured. The program and standards of

manufacturing must be established and well defined. The program must include the minimum following requirements:

- a. A full time Quality Control Technician.
 - b. A complete and working Quality Control Laboratory capable of testing and recording the requirements set forth in these Specifications for concrete pipe.
 - c. A zero-defect program for daily material testing and finished product testing to assure quality control as the pipe is being manufactured and shipped for this particular project.
3. Guarantee: The Contractor shall provide a guarantee against defective materials and workmanship in accordance with the requirements of the section entitled "Guarantees and Warranties" of these specifications.
4. Material:
 - a. All concrete pipe and fittings 12 inches in diameter and larger shall be reinforced concrete sewer pipe conforming to the latest requirements of ASTM C-76 with the following modifications: All concrete pipe with 0-20 feet of fill shall be a minimum of Class III with 4500 psi concrete. All pipe with 20-30 feet of fill shall be Class IV with 4500 psi concrete. All pipe with 30 feet of fill and over shall be Class V with 5500 psi concrete.
 - b. Pipe shall have circumferential reinforcement as required for the particular class of pipe furnished. The bell and spigot of the joint shall contain circumferential and longitudinal reinforcement. Reinforced concrete pipe shall be centrifugally cast or vibrated, horizontally or vertically cast or made on a Packer head machine and shall be furnished in lengths not more than 20 feet and not less than 8 feet, except where short lengths are required for construction conditions. Reinforced concrete pipe shall have bell and spigot joints suitable for the use of a rubber gasket to be provided as a part of this item.
 - c. Concrete pipe for sanitary sewers shall have bell and spigot joints consisting of self-centering steel joint rings securely attached to the pipe reinforcing steel. The steel joint rings shall be suitable for use with a rubber O-ring type gasket to be provided as part of this item.

- d. Bell and spigot joints consisting of self-centering steel joint rings shall have the joint rings securely attached to the pipe reinforcing steel. The rings which form the joint shall be made so that they will join with a close, sliding fit. The joint surfaces shall be such that the rubber gasket shall be confined on all sides and shall not support the weight of the pipe. The spigot ring shall have an external groove accurately sized to receive the gasket. Special section steel for spigot rings shall conform to ASTM A-283, Grade A, or ASTM A-306, Grade 50. The bell ring shall be flared to permit gradual deformation of the gasket when the joint is assembled. Minimum thickness of bell rings shall be 3/16 inch. Bell rings ¼ inch or thicker shall conform to ASTM A-283, Grade A, or ASTM A-306, Grade 50.

Bells less than ¼ inch thick shall conform to ASTM A-570, Grade A. Each ring shall be precisely sized by expansion beyond the elastic limit of the steel and then gauged on an accurate template. All exposed surfaces of both rings shall be protected by a corrosion-resistant coating of zinc applied by an approved metalizing process after proper cleaning.

5. Lining:

The coal tar epoxy system shall be Koppers 300 M, Porter Tarsol, Wise Chem CTE 200, Amercoat 78, Protecto 101 or equal.

The interior concrete or mortar surfaces of pipe and fittings are to be sandblasted and painted with one coat of a high-build, coal tar epoxy system or two coats of a standard coal tar epoxy system. The dry film thickness of the total system shall be 16 mils minimum on concrete or mortar surfaces and on steel joint ring surfaces.

Sandblasting shall result in a clean dry surface free of oil, grease, or other contaminants. Any air pockets over ¼ inch in diameter and 1/8-inch-deep appearing on the concrete surface after sandblasting will be filled with an epoxy sand patching material such as those sold by Sherwin-Williams, Glidden, or Moran. The epoxy sand patch should be troweled prior to the application of the coal tar epoxy.

Any steel surfaces to be painted should be sandblasted, solvent cleaned, or wire brushed prior to painting.

Application of the coal tar epoxy shall be by brush, roller, or spray system using equipment recommended by the manufacturer of the coal tar epoxy system. The temperature during application and curing of coal tar epoxy shall be as recommended by the manufacturer of the coal tar epoxy. Time between coats (if applicable) shall be as recommended by the manufacturer of the coal tar epoxy.

If the inside joint recess will be mortared and painted with coal tar epoxy in the field, the pipe supplier shall not paint the inside vertical surfaces at the ends of the pipe. When the inside joints will not be mortared in the field, the pipe supplier shall paint the inside vertical concrete or mortar surfaces at each end of the pipe.

The paint shall be extended continuously over the front lip of the steel spigot ring and a minimum of 2 inches onto the sealing surface of unrestrained bell rings so that all interior joint surfaces which can be exposed to the fluid inside the pipe are coated.

403.9 Precast Concrete Manholes:

- A. Manholes: Sewer manholes shall consist of precast reinforced concrete sections with eccentric top section, or flat slab for shallow manholes, and a base section conforming to the typical manhole details as shown on the Standard Detail Drawings. Flat top manholes will be approved only if a need for such can be demonstrated by the design engineer.
- B. Manhole Sections: Precast manhole sections shall be manufactured, tested, and marked in accordance with the latest provisions of ASTM Standard Specifications, Serial Designation C 478.
- C. Manhole Section Joints: Joints of the manhole sections shall be of the tongue-and-groove type with the inside tongue in the up position, sections shall be joined using a double strand seal of butyl mastic sealant (Kent Seal, Ram-Nech or equal). The inside and outside of all joints, lift holes and any bricks or precast adjusting rings shall be covered with non-shrink grout.
- D. Lift Holes: Each section of the precast manhole shall have not more than two holes for the purpose of handling and laying. These holes shall be sealed before backfilling using either rubber plugs specially designed for this purpose or with quick-setting cement mortar.
- E. Manhole Steps: Manhole steps conforming to the applicable provisions of ASTM Specification C 478, latest edition, shall be of

#4 steel reinforcing bars covered with Polypropylene Plastic or rubber and shall be supplied with depth rings and other necessary appurtenances. See the Standard Details for a typical manhole step detail.

- F. Pipe Holes: Holes in precast bases to receive sewer pipe shall be precast at the factory at the required locations and heights. Knocking out of holes in the field will not be permitted on new construction; however, holes can be cored in the field with a coring machine. All manholes shall have Kor-N-Seal by Press Seal Gasket Corporation (or equal) rubber boots for all pipe entries/exits.
- G. Inverts: Manhole inverts shall be constructed of either concrete or brick in accordance with details on Standard Detail Drawings and the invert (flow channel) shall have the same cross-section as the sewers which it connects. The manhole bench and invert shall be carefully formed to the required size and grade by gradual and even changes in direction. Changes in direction of flow through the invert shall be made to a true curve with as large a radius as the size of the manhole will permit. Inverts shall have a “smooth trowel” finish. The manhole bench shall be sloped 30° from the manhole wall toward the invert.
- H. Manhole Foundation: The manhole base shall be set upon a 12- inch minimum thickness compacted mat of Size #57 crushed stone graded level. In wet areas the crushed stone mat shall be thickened as needed to provide a non-yielding foundation.
- I. Brick: Brickwork required to complete the precast concrete manhole shall be constructed using 1-part Portland cement to 2 parts clean sand, meeting ASTM Specifications, Serial Designation C 144, thoroughly mixed to a workable plastic mixture. Brickwork shall be constructed in a neat and workmanlike manner. Nonshrink grout shall be used to grout interior and exterior exposed brick joints and faces. No more than 3 courses of brick with 9-inch maximum total depth of bricks may be used to adjust manhole covers.
- J. Frame and Cover: The cast iron frame for the manhole cover shall be set at the required elevation and thoroughly anchored to the masonry in a bed of mortar. Frames and covers shall be City of Villa Rica standard casting design by Vulcan Foundry, Standard Model V1327-1-CWD (see standard drawings). Where manholes are constructed in paved areas, the top surface of the frame and cover shall be tilted, if necessary, to conform to the exact slope, crown and grade of the existing adjacent pavement. In areas where manhole tops may be submerged by street runoff or high flood waters, the manhole lid shall be water-tight by Vulcan Foundry, water-tight Model V2327-1-CWD.
- K. Masonry Work: Masonry work shall be allowed to set for a period

of not less than 24 hours before being placed under traffic or in operation. All loose or waste material shall be removed from the interior of the manhole.

- L. Location: Manholes shall be installed at the end of each line; all changes in grade, size, or alignment; at all intersections; and at distances normally not greater than 400 feet. Cleanouts may be used only for special conditions and shall not be substituted for manholes nor installed at the ends of laterals greater than 150 feet in length. Manholes in cross-country areas shall be elevated so that the top is 24 inches above ground.
- M. Drop Manholes: A drop pipe shall be provided for a sewer entering a manhole at an elevation of more than 3.0 foot above the manhole invert. The drop pipe shall be of PVC materials with ductile iron mechanical joint fittings. All outside 90° elbows shall have concrete support blocking poured below the elbow to rest on stable undisturbed earth. Outside Drop Manhole will be noted on the construction plans at any time the drop exceeds 3.0 foot. Where the difference in elevation between the incoming sewer and the manhole invert is less than 3.0 foot, the invert shall be sloped from invert to invert to prevent solids deposition. Areas around the pipe will be backfilled with #57 or #89 crushed stone.

- 403.10 **Casings:** Steel casing pipe shall be used where boring and jacking of more than 20 feet in length is required for installation.

Steel casing pipe shall be Standard Class thickness with a minimum yield strength of 35,000 psi and shall conform to the requirements of ASTM A139. It shall be fully coated on the exterior and interior with a coal tar coating. The casing pipe diameter shall be six to eight inches greater than the “bell” diameter of the carrier pipe.

Wherever steel casing is required, the carrier pipe shall be ductile iron pipe with push-on joints or PVC. Approved spacers made of stainless steel straps with nylon skids shall be used to center the carrier pipe; two spacers per section of pipe will be used.

- 403.11 **Wastewater Lift Stations:** The following *minimum* requirements apply to wastewater lift stations:

A. General:

- 1. **Pumps shall be manufactured by Flygt, Sulzer, or approved equal. Control panels shall be manufactured by Amtech, Stacon, or Flygt.** ~~pump controls, and level sensing equipment must be manufactured by FLYGHT unless otherwise specified by the City.~~ Minimum pump size for pump stations shall be 150 gpm with 10 hp motors. Lift stations shall utilize two submersible centrifugal pumps each having a capacity equal to the design flow. **Developer shall**

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provide a spare pump of identical capacity.

2. Lift stations having a capacity of 500 gpm or more shall be reviewed on an individual basis and may have requirements differing from those outlined herein.
3. Force mains shall be sized to provide a velocity of at least 2 feet per second.
4. The design shall allow for easy removal of any pump or equipment item without the need of shut-down of the entire lift station.
5. The design engineer should consult the City Water Department after preliminary design data has been developed for information on approved pump Manufacturers. The City reserves the right to review each application on an individual basis and to reject the use of non-approved manufacturers or designs.
6. The lift station shall be sized based upon an anticipated upstream flow that will be realized in a seven-year period of basin development. **A peaking factor of 4 will be utilized for design.**

B. Submittals:

1. Submittal of construction plans shall include the following lift station information:
 - ✓ Capacity calculations. Use 1 gpm capacity per house on residential developments of less than 200 units, except that the minimum pump capacity shall be 150 gpm.
 - ✓ System head calculations; tabulated and plotted on the pump curve. Include a plot of force main velocity.
 - ✓ Standard drawings, details and specifications sufficient to ascertain compliance with these regulations.
 - ✓ Cycle time. Calculations showing determination of wet well volume and cycle time at design conditions. Wet well volume should be sufficient to provide a cycle time of no less than 5 minutes from a pump “on” to the next pump “on” time.
 - ✓ Storage Volume. Calculations showing volume of storage available in the event of a power outage. The storage zone shall be delineated on plan and profile drawings of the sewer system. (See subsection “Standby Power” below.)
 - ✓ Construction drawings and specifications in sufficient detail to ascertain compliance with these regulations.
 - ✓ Buoyancy computations showing that structures are protected against flotation.

2. Shop Drawings. After construction plan approval but before purchasing any lift station equipment, shop drawings shall be submitted including the following information:
 - ✓ Manufacturer's catalog sheets, performance curves, installation drawings, specifications and list of options for the specific pump that is offered for approval.
 - ✓ Similar catalog data for controls, valves, hatches, yard hydrants, precast wet well and other manufactured items.
3. Certification. After installation and before placing the system into full operation, the work must be inspected by the Developer's Engineer who must then issue a certification to the City verifying that all work has been done in accordance with approved plans. After acceptance of the work by the City, a factory representative shall inspect and start up the system certifying rotation, capacity, amperage draw, lack of vibration and other standard check points. This certification shall state the beginning date of the warranty and include a copy of the warranty. The Factory Representative shall provide a minimum of 4 hours training.
4. O & M Manuals. On or before the date of start-up, five sets of factory O & M Manuals shall be delivered to the City. These shall include the name of the purchaser, the serial numbers of pumps, detailed wiring schematics, telephone number and address for purchase of parts.
5. After construction is complete as-built drawings shall be furnished including 1 set of mylar sepias plus 2 sets of prints.

C. Spare Parts

1. Lift stations shall be supplied with a spare complete pump/motor combination plus a complete set of manufacturer's recommended spare parts.

D. Standby Power

1. The minimum requirement for standby power for lift stations shall be that each station have a permanent in-place **dry prime pump with silent pack, or** generator **with owner approval**, and shall have an automatic transfer switch.
2. **The dry prime pump shall be manufactured by Godwin or approved equal.**
3. Emergency standby power will be supplied by an on-site emergency generator and must be Caterpillar, Cummins-Onan, **or Kohler or Baldor**. The generator shall be diesel powered with an automatic transfer switch and provisions for an automatic exercise cycle. The transfer switch must be a NEMA-4 enclosure obtained from Cummins-Onan, ASCO, Hubbell, or

GE Zenith.

4. Generators **and dry prime pumps** must have 200-gallons minimum fuel storage capacity or 24-hour operating time, whichever is greater and must be supplied with all auxiliary systems necessary for operations (batteries, battery charger, block heater, etc.)
5. Generators **and dry prime pumps** must have a minimum of 5-year manufacturer warranty.

E. Site Requirements:

1. Flooding. Lift stations shall remain fully operational and accessible during the 25-year flood. All electrical controls shall be above the 100-year flood level. All motors and mechanical equipment shall be protected against physical damage from the 100-year flood.
2. Access Road. Access roads shall be paved with a 12-foot wide surface of either concrete (4" thick with wire mesh) or asphalt (6" Graded Aggregate Base plus 2" Type E asphalt). Maximum grade shall be 20%.
3. Ownership. Both the lift station site and the access road right-of-way shall have ownership dedicated to the City, and this shall be indicated on the subdivision plat. The dedicated space for the lift station shall include sufficient space for parking of two trucks, plus turn-around, plus slope maintenance. The dedicated width on road right-of-way shall be 30 feet minimum.
4. Fencing. Lift station sites shall be fenced with a minimum of 6-foot-high chain link fencing topped with 3 strands of barbed wire. Access gates shall be a minimum of 15 feet in width. The space inside the fencing shall be large enough to facilitate service vehicle access to the pumping station wet well and other facilities. A paved turn around area shall be provided whenever the access road length exceeds 200 feet or when the road grade exceeds 10 percent.
5. Water Supply. A metered water supply line (3/4" minimum size) shall be installed to the site, and a freeze-proof yard hydrant located near the wet well. The hydrant shall be equipped with a suitable backflow preventer.
6. Lighting. One pole-mounted, photo cell controlled, 150-watt ~~mercury vapor~~ **LED** security light shall be installed. It shall be equipped with a manual on/off switch (located in the main control panel) to override the photo cell control.
7. Screening. Where natural screening is not present to screen the site from view of residences, special plantings shall be installed to screen the site.
8. Ground Covers. All unpaved ground areas inside the fence and

extending 4 feet beyond the fence shall be treated with a herbicide and covered with a geotextile fabric, followed with a 4-inch thick layer of # 57 stone. The geotextile fabric shall be a non-woven polypropylene weighing 8 oz./S.Y. with a minimum burst strength of 250 psi, such as Amoco type 4553 or equal.

F. Design Features:

1. Wet Well Volume. The wet well volume shall be sized to limit pump cycles to no more than 4 cycles per hour under worst conditions.
2. Ventilation. For wet wells, the minimum requirement shall be a single 6-inch **stainless steel** vent with stainless steel mesh screen designed for natural ventilation. Where conditions are conducive to formation of hazardous conditions (in the design engineer's opinion) then mechanical ventilation shall be provided. For dry wells, mechanical ventilation shall be required.
3. Structures. Submersible lift stations shall have a wet well structure and a separate valve pit. Both structures shall be precast concrete with a monolithic base. The valve pit shall be a minimum of 4' X 4' X 5' deep with manhole steps, and provided with a floor drain pipe, and a 3' X 3' lockable aluminum access hatch. Wet wells may be either round or rectangular and shall have a diameter or width of at least 4 feet. Wet wells shall be sized to meet cycle time requirements with a drawdown (i.e. the distance between high water level and low water level) of not more than 3.0 feet. The wet well shall have a lockable aluminum hatch large enough for easy removal of pumps. Riser sections in precast units shall be sealed watertight using two strands of mastic and a coating of mortar on the inside and outside of the structure. Structures shall be adequately reinforced for all loading conditions normally encountered during shipping, construction and service. All openings (for pipes, hatch, conduits) shall be either cast in place or neatly cut. Sewer pipe connections shall utilize rubber boot connectors, and be watertight. ~~The wet well shall be equipped with an aluminum ladder.~~
4. Accessories. All materials inside the wet well and valve pit shall be corrosion resistant. Mechanical equipment requiring ferrous metals shall have a coal tar epoxy coating. Guide rails for pumps shall be stainless steel. Miscellaneous metals including fasteners shall be aluminum or stainless steel; anchor bolts shall be stainless steel.
5. Pressure gage. A pressure gage shall be installed on the force

main downstream of the gate valves, inside the valve pit and visible from ground level. A corporation stop shall be installed on the tap to allow removal of the gage.

6. Valves. The discharge pipe of each pump shall have a check valve followed by a gate valve before the two pipes join into a common force main.
7. Surge control valves. The pumping system shall be checked to determine if a surge control valve is required. If a valve is required, it shall be located within the valve pit on the common force main and a drain line installed to drain to the wet well.

G. Pump Features:

1. Pumps shall have the following features:
 - a. Non-clog impeller.
 - b. Be capable of passing a 3" sphere.
 - c. Be capable of dry operation without overheating.
 - d. Have dual mechanical seals with seal leak indicator light in the control panel.
 - e. Pump and motor casings shall be cast iron, and all fasteners shall be stainless steel.
 - f. Motor shall be selected to be non-overloading under all operating conditions.
 - g. Motor winding shall have a heat sensor with auto reset to prevent overheating; three-phase motors shall have two sensors.
 - h. Operating speed of the pump shall not exceed 1800 rpm without special approval.
 - i. Motor shall have upper and lower roller bearings.
 - j. The pump shall be automatically connected to the discharge connection elbow when lowered into place, and shall be easily removed for inspection or service. There shall be no need for personnel to enter pump well. Sealing of the pumping unit to the discharge connection elbow shall be accomplished by a simple linear downward motion of the pump. Each pump shall be equipped with a **stainless steel** chain (of aluminum or other non-corrosive material) for easy removal.

H. Force Main:

1. The force main shall be sized for a minimum velocity of 2 feet per second with one pump operating.
2. Force mains shall be ductile iron pipe.
3. The force main profile shall slope continuously upward where

practical. If high points occur where air could be trapped in the pipe, then ~~an~~ a **Crispin brand** air release valve (of the type made for sewage applications) will be installed (in a manhole) at the high points.

I. Electrical:

1. Lift station controls and electrical components shall be **3-Phase power**, factory- wired in completely weather proof stainless steel metal cabinets (NEMA 4X stainless steel). The cabinet **shall be provided with a securing door handle, and** shall be provided with condensate heaters. Spare fuses of each type that is used in the electrical/control system shall be furnished.
2. A main circuit breaker shall be installed to disconnect power to the entire station.
3. Three phase power will be provided for all motors.
4. Protection against voltage surge and loss of a phase shall be provided.
5. The factory-wired panel shall be equipped with a ground bus and neutral bus. Terminal shall be suitable for either aluminum or copper wire. All internal panel wiring shall be copper.
6. Motors shall be suitable for either 230-volt or 460-volt operation. Design engineer shall consult with the current power company in the area to verify specifics pertaining to electrical power availability.
7. Wet well level shall be controlled by **a transducer, with two** ~~four~~ sealed mercury tube float switches **for low and high level alarms**. All floats shall be provided with 25' of Type SJO flexible cord and shall be attached to a bracket mounted at the top of the wet well. Float functions shall be as follows:

Float no. 1 Low Level **Alarm** (~~Pumps Off~~)

Float no. 2 High Level **Alarm** (~~Lead Pump On~~)

~~Float no. 3 Extra High Level (Lag Pump On)~~

~~Float no. 4 Surge Level (Alarm Activated)~~

8. The pump control system shall include **a Time Mark Controller or approved equal, with** the following features:
 - a. Lead pump/lag pump alternator.
 - b. Alarm light and horn to indicate high water level.
 - c. Seal failure indicating light.
 - d. Pump failure indicating light.

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- e. Condensate heater.
- f. Lead pump selector switch
- g. H-O-A switch and run light for each pump, **unless incorporated with the Time Mark Controller**
- h. Control voltage shall be 120V.

- i. Wiring shall be neatly tied and number coded to facilitate maintenance. A schematic diagram shall be furnished with the panel.
- j. A 120 V. GFCI type electrical receptacle shall be located at the control panel.
- k. Pump stations will be equipped with a remote transmitting unit and telemetering circuitry connecting to the city's SCADA system. The design engineer should consult the city for specific requirements at the beginning of design.

J. Warranty:

- 1. Regardless of the manufacturer's warranty terms, the Developer will be responsible for all repairs necessary within one year from the date the station is completed and approved by the City. The Developer will be required to furnish such assurances to the City as deemed appropriate by the City to ensure prompt action.

404. **Construction Methods**

404.1 **Licensing and Safety:** All contractors who work on sewer systems that will be owned by the City of Villa Rica must be licensed in accordance with State of Georgia law and local ordinance. Compliance with applicable safety regulations is the responsibility of each company engaged in the work; the city assumes no responsibility for the actions of others on the job site. It is the responsibility of those installing sanitary sewers, lift stations and related appurtenances to conform to OSHA regulations, 29 CFR Part 1926, Subpart P, Paragraph 1926.650 through 1926.653. Publications from OSHA can be obtained by contacting OSHA Publications Distribution, Washington, D.C.

404.2 **Construction Permits:** No construction shall be allowed until a construction permit has been issued by the City of Villa Rica. The contractor shall submit one copy of the approved construction plans which have been stamped approved. The contractor shall furnish his name and address, telephone number. He shall also furnish the name of the person in charge of the project and any subcontractors and the name and telephone number of a responsible person who can be contacted in case of emergencies during nonworking hours. The contractor shall furnish his construction schedule and shall notify the City 24 hours prior to doing any work. Once the contractor begins work, he shall proceed in a workmanlike manner and shall complete the work in a reasonable time without undue off days and periods of inactivity which make it hard for the City to keep up with his activity.

- 404.3 **Changes from Approved Plans:** Any major changes from the approved plans will require that the engineer submit revised drawings along with a request explaining the reason for the change prior to construction of the change. Any deviation from City of Villa Rica standards will be considered a major change as will any change that will affect capacity, longevity, operation or maintenance of the facility. Any deviation from approved materials will not be accepted without prior approval.
- 404.4 **Trench Excavation:** Sewer lines shall normally be installed by open-cut trench excavation. Trenches shall be cut true to the lines and grades shown on the plans.

Pipe trenches shall not be excavated more than 100 feet in advance of pipe laying, and all work shall be performed to cause the least possible inconvenience to the public. Adequate temporary bridges or crossings shall be constructed and maintained where required to permit uninterrupted vehicular and pedestrian traffic.

All excavations shall be adequately guarded with barricades and lights in compliance with all OSHA and Georgia Department of Transportation requirements so as to protect the public and workers from hazard.

Excavations adjacent to existing or proposed buildings and structures, or in paved streets or alleys shall be adequately protected by the use of trench boxes, sheeting, shoring and bracing to prevent cave-ins of the excavation, or the undermining or subsequent settlement of adjacent structures or pavements. Underpinning of adjacent structures shall be done when necessary to maintain structures in safe condition.

Streets, sidewalks, landscapes, and other public and private property disturbed in the course of the work shall be restored to as near as original condition as possible or better in a manner satisfactory to the City.

Trenches shall be kept free of water by pumping or well-pointing, as determined by the contractor. No structure shall be built or pipe shall be laid in water. Water shall not be allowed to flow over or rise upon any concrete, masonry or pipe until the same has been inspected and the concrete or joint material has thoroughly set. All water pumped, bailed, or otherwise removed from the trench or other excavation shall be conveyed in a proper manner to a suitable place of discharge. Such discharge shall not cause injury to public health, property, work completed, work in progress, or to any street surface, or cause any interference with the use of same by the public.

Construction occurring around active sewer systems shall be done in such

a way so as to prevent the spillage of wastewater.

- 404.5 **Rock Excavation:** Drilling and blasting operations shall be conducted with due regard for the safety of persons and property in the vicinity and in strict conformity with requirements of all ordinances, laws and regulations governing blasting and the use of explosives. Rock excavation near existing pipelines or other structures shall be conducted with the utmost care to avoid damage. Injury or damage to other structures and properties are the sole responsibility of the installation contractor and shall be promptly repaired by the Contractor to the satisfaction of the City and property owner.

Rock in trenches shall be excavated over the horizontal limits of excavation and to depths as follows:

<u>Size of Pipeline Inches</u>	<u>Depth of Excavation Below Bottom of Sewer Pipe, Inches</u>
4 to 8	6
8 to 18	8
18 to 30	10

The undercut space shall then be brought up to grade by backfilling with Size #57 crushed stone material or approved equal.

- 404.6 **Installation of Sewer Pipe:** Construction stake-out will be required prior to construction of sewer lines. As a minimum, the horizontal alignment will be staked at 100-foot intervals and each manhole will be located with a centerline stake and two offset hubs. “Cuts” to invert elevations will be shown for each manhole entry and exit pipe. A copy of the stake-out notes will be provided to the city.

Pipe and accessories shall at all times be handled with care to avoid damage. Whether moved by hand, skidways or hoists, material shall not be dropped or bumped. The interior of all pipe shall be kept free from dirt and foreign matter at all times. Each joint of pipe shall be unloaded opposite or near the place where it is to be laid in the trench.

All such material that is defective in manufacture or has been damaged in transit or after delivery shall be removed from the job site.

Sewer pipes shall be joined by “push-on” joints using elastomeric gaskets to affect the pressure seal. The ends of pipe to be joined and the gaskets shall be cleaned immediately before assembly, and the assembly shall be made as recommended by the pipe manufacturer. Lubricant used must be

non-toxic and supplied or approved for use by the pipe manufacturer. Sewer pipes shall be laid in the uphill direction with the bells pointing upgrade. Any variation from this procedure shall require approval from the City.

When pipe laying is not in progress, the open ends of installed pipe shall be plugged with a watertight plug to prevent entrance of trench water into the line.

Bedding for pipe shall normally be as listed below (also see city standard details):

For PVC the minimum bedding shall be #57 or #89 crushed stone a minimum of 6" below bottom of pipe. For concrete and ductile iron pipe the minimum bedding shall be #57 or #89 crushed stone a minimum of 6" below bottom of pipe and initial backfill to the top of pipe for the full width of the trench.

In wet areas, the minimum bedding requirements will be increased as required to ensure a stable support under the pipe and on the sides of the pipe.

Backfill material up to 12 inches above the top of the pipe shall be compacted dry, loose, soil unless PVC is used in which case the first 6 inches above the top of pipe is required to be crushed stone. If such material is not available from the site then #57 stone shall be used to backfill up to 12 inches above the top of the pipe. Backfilling the remainder of the trench may utilize soil and blasted rock (not over 12 inches in any dimension) compacted sufficiently to avoid excessive settlement. Under no circumstances will tree parts, vegetation, building materials or any other type of debris be used for backfill.

All backfill beneath roads, sidewalks or other critical areas shall be compacted to ninety-five percent (95%) Standard Proctor or as otherwise required by the D.O.T. or other such agency having jurisdiction using mechanical tamping equipment. Moisture control of the material may be required to achieve this compaction and hauling in of select material may be required. Compaction testing and certification by an independent soil testing company will be required in these areas at the Developers expense.

- 404.7 **Railroad Crossings:** All railroad crossing shall conform to the requirements of the American Railway Engineering Association Manual for Railway Engineering, Part 5. The Contractor shall secure permission from the railroads to schedule the work so as not to interfere with the operation of the railroads. The Contractor shall be held responsible for any delays or damages occurring to the railroads. The Contractor will

furnish the railroad with such additional insurance as may be required, cost of same to be borne by the Contractor, together with the costs for flagmen, watchmen, temporary work of any nature, safety devices and any other items that may be imposed by the railroad.

404.8 **Highway Crossings:** All construction work in the State Highway right-of-way shall be approved by the Georgia Department of Transportation. Developer shall be responsible for obtaining encroachment permits.

404.9 **Stream Crossings:** The preferred method of crossing a river, stream, creek, impoundments, or wet weather ditch is with a minimum of six inches (6") of cover between the lowest point in the stream and the top of outside diameter of the pipe. Ductile iron pipe is required for all stream crossings and shall extend a minimum of ten feet (10') beyond the top of bank on each side. Concrete collars or encasement must be provided at all joints for ductile iron pipe with less than three feet (3') of cover.

The stream bed and sides at the crossing site shall be protected from erosion with the use of Rip-Rap, as defined and sized in the **Manual for Erosion and Sediment Control In Georgia**, Appendix C - Construction Materials, 1992 or most current edition.

Aerial Crossings will require detailed plans and will be allowed only when, in the city's opinion there is no reasonable alternative.

Erosion control measures shall be installed prior to installing pipe across any stream. All work should be performed when stream flows are at their lowest, and all work should be performed as quickly and safely as possible. As soon as conditions permit, the stream bed shall be cleared of all falsework, debris, and other obstructions placed therein or caused by the construction operations.

Erosion control measures can include, but are not limited to, the following items:

- a. Silt fencing, types A, B, and/or C
- b. Erosion control check dams
- c. Channel diversion through temporary storm drain pipe.
- d. Rock filter dams

The construction and installation of these various structures are detailed in the **Manual for Erosion and Sedimentation Control in Georgia** or the Georgia Department of Transportation Standards and Construction Details, both of which are available for purchase by the Contractor.

- 404.10 Casing for Sewers:** Where pipe is required to be installed under railroads, highways, streets or other facilities by jacking or boring methods, construction shall be done in a manner that will not interfere with the operation of the facility, and shall not weaken the roadbed or structure.

The diameter of the bore shall conform to the outside diameter and circumference of the casing pipe as closely as practicable. Any voids which develop during the installation operation shall be pressure grouted. Each segment of the casing pipe shall be welded (full circumference butt weld) to the adjoining segment. The completed casing shall have no sags or crowns which cause the grade for any segment to be less than the minimum slope for the size pipe being installed.

The carrier pipe shall be fitted with approved spacers to secure its position within the casing. At each end of the casing pipe the void between the carrier pipe and casing shall be sealed with brick and mortar.

- 404.11 Replacement of Pavement:** Contractor shall fully restore and replace all pavement, curbs, gutters, sidewalks and other surface structures removed or disturbed, to a condition that is equal to or better than the original condition in a manner satisfactory to the City (see standard details).

- 404.12 Location/Protection of Existing Underground Utilities:** It is the responsibility of the Contractor to locate all underground utilities and to protect same. Utility lines or services damaged by the Contractor shall be repaired by the Contractor at the Contractor's own expense. The Contractor has sole responsibility of complying with all provisions of the Utilities Protection Code.

- 404.13 Protection of Water Supply and Other Utilities:**

The City of Villa Rica has an established Cross-Connection Program to prevent the entry of contaminants or pollutants into any area of the potable water supply through the control of cross connections. It is illegal to introduce any substance into or to have any cross connections with the potable water supply. There shall be no physical connection between a public or private potable water supply system and a sanitary sewer which would permit the passage of any sewage or polluted water into the potable water supply.

Whenever possible, sewers should be laid at least 10 feet horizontally from any existing or proposed water main. Should conditions prevent a separation of 10 feet, the lines shall be laid in separate trenches.

- 404.14 Sewer Services:** A sewer service shall be provided for every existing or proposed lot or building. All sewer services shall be a minimum of 4" in

diameter unless otherwise specified. All service lines shall be designed to maintain a minimum of 2 ft/sec. sewer velocity. All services shall be shown on the construction and as-built drawings. A common service shall not be allowed for two or more buildings. The service shall extend to 5' inside the property line of the lot being served and normally be within 10 feet of the lower corner of the lot. All service laterals shall be a minimum of 5' deep at the property line. Where 5' of cover cannot be achieved, sewer services shall be constructed of ductile iron. A 90° bend, constructed from two 45° fittings shall be installed at the end of all sewer services with a vertical section of pipe to extend a minimum of 4' above existing ground level (See Standard Details). Connections to the main exceeding 8 feet in depth may have the saddle or tee rotated to a bend inserted in the service to provide 5' lateral depth at the property line.

The developer shall be responsible for serving all lots developed. On any lot where the service cannot be found, the developer shall be responsible for payment of the cost of installation of the service. Also, unless noted on the final plat, the service shall be low enough to serve the first-floor elevation at the building line. Install 14-gauge detector wire on all laterals.

The builder shall be responsible for the location of the service prior to the pouring of the foundation, driveway or other appurtenance. The City will not be responsible for any house built too low to be served nor for any service covered by construction.

No plumber or contractor will be allowed to connect to the sewerage system except to the end of the service provided for his connection. Also, any service provided will be utilized without the installation of additional services.

- 404.15 **Clean-Up:** Prior to requesting the “completion of sewer construction” inspection, the Contractor shall remove and dispose of in an acceptable manner all shipping timbers, shipping bands, spacers, excess materials, broken material, crates, boxes and any other material brought to the job site.

Any work areas within public right-of-way or property outside of the development that were damaged by the sewer construction shall be repaired or replaced with the same kind of material as existed prior to the damage occurring. All easement areas shall be cleared of trees, stumps and other debris and left in a condition such that the easement can be maintained by bush-hog equipment.

All shoulders, ditches, culverts, and other areas impacted by the sewer construction shall be at the proper grades and smooth in appearance.

All manhole covers shall be brought to grade.

A uniform stand of grass or mulch for erosion protection, as defined in the **Manual For Erosion and Sediment Control In Georgia**, is required over all construction easements and sanitary sewer easements prior to the City’s acceptance of the sewer. Use a grass mixture consisting of at least 50% fescue.

405. **Inspection of Sewers**

- 405.1 **City Inspection:** The developer’s contractor will be responsible for the quality, accuracy and workmanship of his completed work.

City personnel will visit the job site on a periodic basis and will make spot checks as they deem appropriate. The City of Villa Rica shall have the right to review and inspect all construction and may reject any work that does not meet quality control standards.

- 405.2 **Access to Project:** Authorized representatives of the City of Villa Rica, which may include city employees, the city engineer, state or federal agencies, shall have access to the site for inspection at any time.

- 405.3 **Communications During Construction:** A preconstruction conference will be required for all projects. The Developer has sole responsibility for scheduling. The Developer, design professional, contractor, and subcontractor(s) are required to meet with the City and all private utilities in this conference. The contractor will notify the city in writing 2 days before starting construction. The contractor will provide notification by phone any time the work is to be vacated and will provide notice by phone prior to resuming work. The contractor shall request the final inspection.

The city inspector may have informal verbal communications with the contractor foreman or superintendent at any time during construction. The city inspector will not direct the actions of contractor's workmen.

405.4 Concealed Work: The city inspector may direct that the contractor notify the city and receive inspection approval prior to concealing certain work such as manhole foundations, pipe bedding, tees, bends, service laterals, or other appurtenances. At the City's discretion, the City may require work to be uncovered which was not inspected prior to backfilling.

405.5 Minimum Inspection by Developer: The following minimum information shall be determined and certified by the engineer:

1. Horizontal location. Horizontal location of the line will be checked by measuring "as-built" distances between manholes and bearings from manhole to manhole.
2. Elevation and slope. Elevation of each invert and top of manhole will be measured and recorded. Actual pipe slope will be computed and any segment having less than minimum allowable slope will be rejected and re-done.

405.6 City Inspection: Cost for all testing shall be paid for by the developer.

1. Manhole construction. Manholes will be visually inspected to check for plugging of lift holes, use of connecting boots, use of joint material, leakage, proper invert construction, proper setting of frame and cover.
2. Pipe straightness. Sections of sewer line will be visually checked for straightness. A passing section shall show at least 80% of a full circle when observed from one end. Any section which fails this visual test shall be further checked.
The section shall have water run through it sufficient to fill any sags that may exist. Then it shall have a television camera pulled through it to check for sags. Any sag holding more than one and one-half inches of water will require that the pipe be removed and replaced to proper grade after which the section shall be televised again to verify correction. The contractor may propose alternative methods other than televising sewers for the City's approval to determine failing sections of sewers.
3. Infiltration. The allowable limit for any section from manhole to manhole will be 100 gallons per day per inch of pipe diameter per mile of pipe. If any infiltration is present at the most downstream point, then it will be measured using a specially-made weir and measurements will also be made at each upstream manhole that has any visible flow of water. Any individual segment

which exceeds the allowable infiltration shall be corrected to within allowable limits.

4. Compaction of backfill. Compaction testing may be required for sewers constructed in paved areas or where pavement is planned. A minimum of two tests per 500 feet of trench line located in roadways will be required. If any of these tests show failing results, then the failing backfill will be removed, re-compacted and re-tested, and one additional area will be tested as well.

405.7 Other Testing Requirements: The tests listed below shall be performed by the contractor in the presence of the City. The city will be notified at least 2 days prior to these tests.

- A. Mandrel Test for PVC Pipe: Procedure for testing PVC sewer pipe for maximum allowable deflection shall be generally as follows (Mandrel sized to 95% of the nominal internal pipe diameter):

1. Completely flush the line making sure the pipe is clean of any mud or trash that would hinder the passage of the mandrel.
2. During the final flushing of the line, attach a floating block or ball to the end of the mandrel pull rope and float the rope through the line. (A nylon ski rope is recommended).
3. After the rope is threaded through the line, connect the pull rope to the mandrel and place the mandrel in the entrance of the pipe.
4. Connect a second rope to the back of the mandrel. This will enable the mandrel to be retrieved if excessive deflection is encountered.
5. Draw the mandrel through the sewer line.
6. An increasing resistance to pull is an indication of excessive deflection. If this occurs mark the rope to note the location. Televis the sewer section to identify the extent of the problem and develop a plan, subject to city approval, for correcting the problem. The contractor may propose an alternative method other than televising sewers for the City's approval to determine locations of failing sewers.
7. Retest.

- B. Air Pressure Test: A low pressure test of each sewer line section will be conducted by the contractor to check for leaks. The following general procedures will apply (also refer to ASTM specs):

1. Temporarily plug the line segment between two manholes using plugs having air tight fittings through which low pressure air can be introduced into the pipe segment being tested.

2. Introduce low pressure air into the test pipe segment until the internal air pressure reaches 4.5 psig above ground water pressure, if any.
3. Wait at least five minutes for air temperature in the test segment to stabilize while internal air pressure remains no less than 3.5 psig above ground water pressure.
4. Bleed internal air pressure to exactly 3.5 psig above ground water pressure.
5. Accurately determine the elapsed time for internal pressure to drop to 2.5 psig above ground water pressure.
6. The air test is acceptable if elapsed time is no less than shown by the following table:

<u>Pipe Dia.</u> <u>Inches</u>	<u>Seconds Per</u> <u>100 Ft. of Pipe</u>	<u>Pipe Dia.</u> <u>Inches</u>	<u>Seconds Per</u> <u>100 Ft. of Pipe</u>
4	11	27	77
6	17	30	85

<u>Pipe Dia.</u> <u>Inches</u>	<u>Seconds Per</u> <u>100 Ft. of Pipe</u>	<u>Pipe Dia.</u> <u>Inches</u>	<u>Seconds Per</u> <u>100 Ft. of Pipe</u>
8	23	36	102
10	28	42	119
12	34	48	136
15	43	54	153
18	51	60	170
21	60	66	187
24	68	72	204

Air leakage time is based on pipe being damp. If pipe and joints are dry, dampen line if helpful in meeting air test time requirement.

Permanently correct excessive leakage determined by air testing, and repeat operations until City witnesses a successful test on each line segment.

Note: Upon request, the city may allow substitution of exfiltration test in lieu of air pressure test. If used, the exfiltration test will be conducted with a minimum water head of 2 feet above the groundwater table and the allowable exfiltration will be limited to 100 gallons per day per inch diameter of pipe per mile of pipe.

C. Manhole Testing: All manholes require testing by either the vacuum test or exfiltration test.

1. Exfiltration Test: Manholes which have been backfilled around shall be tested for exfiltration. The minimum test time duration is 1 hour. Manholes shall be filled with water to the top of ring. The maximum allowable exfiltration rate is 2 gal./ft. of depth/ft. of manhole diameter.
2. Vacuum Test: Vacuum testing of manholes for water tightness may be used in lieu of the exfiltration test prior to backfilling. After temporarily plugging pipe openings and installing the vacuum base on top of the cone, a vacuum of 10 inches of Mercury shall be drawn and the vacuum pump shut off. With valves closed, the pressure shall be monitored for a time period of 60 seconds. At the end of the test period, if the vacuum is 9 inches or greater, the manhole has passed the test. If the vacuum drops below 9 inches, the manhole has failed.

405.8 **Final Inspection and Conditional Acceptance:** In no circumstances shall any buildings and plumbing fixtures be connected to the sewers until inspected and approved by the City.

The contractor shall request in writing a final inspection. This final inspection will generally include spot checks of manholes and sewer lines and a complete overview of the project.

After any discrepancies are corrected, the city will issue a letter certifying conditional acceptance of the sewer system. This letter shall commence the start of the 18-month warranty period which is required of the contractor.

On projects having phased development, this letter will allow the developer to apply for a permit for the next phase of development.

At the end of 18 months, the subdivision inspection team will again re-inspect the entire development. When all discrepancies have been corrected, the city will issue an acceptance letter and will begin perpetual maintenance and operation of the sewerage system.

405.9 **Maintenance Bond or Letter of Credit:** The developer shall post a maintenance bond or Letter of Credit of 25% of the total project cost on the facility for an eighteen-month period after completion and conditional acceptance of the facility by the City of Villa Rica for all projects whose costs exceeds \$20,000.00. **Bonds are to be written where the City of**

Villa Rica must release the bond in writing. Bond expiration dates for release are not acceptable.

405.10 **Maintenance until Final Acceptance:** It shall be the developer's obligation to provide all maintenance for an 18-month period after conditional acceptance of the project by the City of Villa Rica. At the end of the 18-month maintenance period the City shall inspect the sewer system, and upon correction by the developer of all deficiencies noted by the City, the City will accept the sewer system for operation.

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500. WATER REGULATIONS**501. General Requirements****501.1 Use of This Document:**

- A. This document is subject to periodic revision to meet changing requirements for materials, fire and safety regulations, environmental regulations, etc. At the beginning of a project the user should verify that he has the latest edition.
- B. This document is intended to convey the general design and construction requirements for a typical project. It also lists specific City of Villa Rica requirements relating to plan review, inspection, testing and acceptance of facilities. It is not intended as a substitute for site-specific engineering and construction techniques. Individual project conditions may require variance from the provisions in this document in which case such variances should be noted in the plans and other data submitted by the project engineer for the city's approval.
- C. All phases of construction must be completed in accordance with the Erosion Sedimentation Act 12-7-1 *et seq.*
- D. No water mains shall be installed on or in close proximity to an abandoned landfill site or any site used for waste disposal.

502. Submittal Requirements**502.1 Water Flow Test:**

- A. A water flow test must be performed on the existing water line to determine the adequacy of the water supply for the project.
- B. The test shall consist of a fire hydrant flow test, conducted at the nearest hydrant to the proposed development and a twenty-four (24) hour pressure test.
- C. Test information shall consist of:
 - 1. Static Pressure and Residual Pressure.
 - 2. Flow in GPM at Residual Pressure
 - 3. Twenty-four (24) hour pressure chart
- D. An adequate supply of water for the proposed project must be available prior to the approval of any plans. Flow tests are valid for one year.
- E. The City will perform the test at the Developers expense.
- F. The Developer will be responsible for retaining the services of an outside consultant/contractor to accomplish and submit a design study based on the flow test results and indicating the projected available

flow at the highest point in the development in GPM with residual pressure of 20 psi for the total project. This report should provide results indicating adequacy of flow quantities and pressure for the proposed development.

502.2 Plans for Proposed Water System:

- A. Preliminary Review: Preliminary plans will be prepared and submitted for review as described elsewhere in the development regulations. Questions relating to adequate fire protection, multiple feeds, water supply and proposed locations of connection(s) should be resolved at this step before proceeding with detailed planning. A submittal for preliminary review must include all land to be developed although the land may be developed in several phases or units. Adequacy determinations of the existing water system will be made for the total project.

The project surveyor shall provide a signed statement indicating records of the property have been researched and no abandoned landfills or waste disposal sites are located in the proximity of proposed water line extension.

- B. Construction plans shall consist of the following:
1. Site plan with streets, street names, topography with contour lines at two-foot intervals, location map, lot layout (if subdivision) or building location (if multi-family, commercial or industrial), proposed location of future sidewalks, land lots, district, and north arrow showing the water layout only.
 2. Proposed pipe size and service lateral locations.
 3. Location and size of gate valves and air release valves.
 4. Thrust blocks at all bends, tees, and plugs.
 5. Fire hydrant locations.
 6. Water system materials.
 7. Location and sizes of existing water mains surrounding the project, with nearest line valve in each direction of proposed tie-in.
 8. Detail of connection to existing lines.
 9. Proposed meter sizes and locations.
 10. Residential developments shall have the electric transformer locations indicated, (this is necessary to verify no conflicts exist with water meter and fire hydrant locations).
 11. Plan of fire line meters or detector meters, if applicable.
 12. Any proposed off-site cross-county water mains or mains on existing right-of-way should be shown at a scale no smaller than 1:100.

13. Any other items incidental to the proposed system.
14. All plans must display the "Utilities Protection Center" logo and "Call Before You Dig" notice.
15. See Section 200 Check Lists for additional plan requirements.
The approved water plan shall not be changed except by written approval of the City or its designated representative.

C. As-Built:

1. As-Built drawings will be the same format as the original construction plans.
2. Road names and lot numbers should be on plans.
3. "As-Built" or "Record Drawing" is to be stamped in large clear print on plans.
4. Sheet should be no larger than 24" X 36".
5. Water mains and meters should be shown, including size and types.
6. Service and meter locations should be shown.
7. Include detail drawings showing size, type, configuration and location fittings.
8. Include detail drawings depicting the configuration of crossings with other utilities (i.e. storm sewers, catch basins, underground cables) and indicating vertical and horizontal clearances.
9. Clearly indicate easement boundaries on all lines not located inside the public right-of-way.
10. Fire hydrants, gate valves and air release valves should be shown.
11. Plan of fire meters or detector meters should be shown if applicable.
12. As-Built drawings must be submitted to the City and approved before the final plat is recorded.

503. **Design Criteria**

503.1 **General:** The criteria listed herein is not intended to cover all aspects of design, but rather to mention the basic guidelines and those particulars that are required by the City of Villa Rica.

503.2 **Water Supply:**

- A. Residential water supply for domestic use shall be in accordance with the following table and at a minimum residual pressure of twenty (20) psi at the highest point in the development.

INSTANTANEOUS WATER DEMANDS FOR RESIDENTIAL AREAS

TOTAL NUMBER OF RESIDENCES SERVED	GPM PER RESIDENCE	TOTAL NUMBER OF RESIDENCES SERVED	GPM PER RESIDENCE
5	8.0	90	2.1
10	5.0	100	2.0
20	4.3	150	1.6
30	3.8	200	1.3
40	3.4	300	1.2
50	3.0	400	0.9
60	2.7	500	0.8
70	2.5	750	0.7
80	2.2	1,000	0.6

- B. The City may require the following minimum flow/duration quantities prior to development of the property at the highest point in the development.
1. Multi-family: 1000 GPM for 30 minutes;
 2. Shopping Centers: 1000 GPM for 30 minutes;
 3. Motels, Light Industry and Schools: 1000 GPM for 30 minutes;
 4. Heavy Industry, Warehouses, Office Buildings, greater than 200,000 square foot: Minimum 1000 GPM for 45 minutes;
 5. Residential: 1000 GPM for 30 minutes.

503.3 **Fire Protection:**

- A. Fire hydrants shall be spaced not more than 500 feet apart with additional fire hydrants located as necessary to permit all portions of buildings to be reached by hose lays of not more than 300 feet in length. (Spacing as traffic travels.) In subdivisions, hydrants will generally be aligned with the property line separating two adjacent lots. **The minimum size water main for fire hydrant installations is an 8-inch main.**
- B. Fire lines shall be metered per these specifications.
- C. Hose lay distance for fire truck hoses is defined as being measured along the route a piece of fire apparatus must travel in laying a fire hose from the fire to the fire hydrant.
- D. All plans for development must meet all applicable fire protection codes.

503.4 Water Mains and Appurtenances:**A. Water Mains**

1. Ductile Iron Pipe - Ductile iron pipe shall be used in all locations.
2. On Existing Streets - On existing roads, water lines shall be located on the south and west side of the road, 8 feet from the back of curb, with a minimum cover of 36 inches below the level of the road shoulder. Fire hydrants on existing roads shall be located between the waterline and the back of curbing.
3. On New Streets - All curbing must be installed before any water lines are installed. Water lines on new streets shall be located on the south and west side of the street, as shown in the standard detail drawings. Water lines shall be installed with 36 inches of cover at finish grade. Fire hydrants shall be located between the water main and the back of curbing.

B. Service Laterals

1. Shortside service laterals shall be installed with a uniform slope from the main shallowing to a bury of 12 inches at the water meter setting. Water meter settings are to be located adjacent to the right of way limit. Longside services shall have a minimum cover of 36 inches under areas of pavement and curbing then shallowing to 12 inches at the water meter.
2. Service laterals crossing any roads shall be placed inside a minimum of a 2-inch diameter PVC casing.
3. A (W) shall be etched into the curb where each service tap is made for permanent location.
4. Copper tubing shall be used for all services. There shall be no splices of copper tubing under any pavement.
5. Services for subdivisions shall be sized and located as shown on the Standard Detail Drawings.

C. Residential water meters shall be located at the limits of the street right-of-way. In general, meters will be located near the property line and where possible a double yoke assembly will be utilized at the property line separating two adjacent lots. The project designer is responsible for verifying electric transformer locations and avoiding conflicts. The Developer shall be responsible for installing the meter box and yoke assembly. See standard detail for listing of required components. The City shall install the water meter in the yoke assembly after tap fees have been paid and service applied for.

- D. Vaults and all valve and piping assemblies for Commercial and Industrial meter settings shall be installed by the Developer. Installations for 3/4-inch and 1-inch meter settings shall utilize a standard yoke assembly and the required additional backflow device located in a separate box. The City shall provide the meter after tap fees are paid and service applied for. No water service shall be provided until all required backflow devices are in place.
- E. Backflow Preventer - All water meters shall be provided with a backflow preventer. Residential services shall be provided with a dual check backflow preventer installed by the Developer as part of the standard yoke assembly. Additional backflow prevention measures are required for residential services with lawn irrigation sprinkler systems connected. Commercial water services, as a minimum, shall be provided with a double check valve backflow prevention device installed by the Developer and located immediately downstream of the meter setting in a separate vault or utility box. Additional and/or more extensive backflow prevention measures may be required depending on the type of business, materials handled and plumbing configuration. All customers applying for commercial water service are to contact the Villa Rica Water Department Backflow Prevention Coordinator for a determination of specific requirements concerning backflow prevention devices.
- F. Fire Line Meters shall be designed to meet site-specific conditions. See Standard Details for conceptual layout of meter.
- G. Detector Meter shall be designed to meet site-specific conditions. See Standard Details for conceptual layout.
- H. Water Valves
1. At Intersections - Valves on water mains at intersections shall be located behind the curb. As a general rule, the number of valves shall equal the number of streets in the intersection minus one. The City may require valves in excess of this requirement if the water system layout warrants additional valves.
 2. At End of Line - A water valve and a minimum of 36 feet of pipe shall be provided at the end of all lines for phased developments, and at locations where the water main may be extended in the future for water system improvements. The end of the line shall be provided with a temporary plug and thrust collar designed to function in a manner that will allow for the end of the line to be excavated and exposed for tie-on of an extension without taking the main out of service.

3. Along Mains - Maximum spacing of water valves along mains shall be 1000 feet. These line valves, unless at intersections, shall be located near fire hydrants.
- I. Valve Markers - One concrete valve marker shall be furnished and set at each line valve as required by the City.
- J. Air and Vacuum Release Valves - Air and vacuum release valves shall be located where appropriate as determined by a registered engineer in responsible charge of the project design. All A&V release valve locations are subject to approval of the City. In general, within subdivisions A&V release valves are not necessary as long as services are located at the water main high points.
- K. Polyethylene Encasement - Ductile iron pipe water main shall be provided with polyethylene encasement where the water main either crosses or is in close proximity to a steel gas main.
- L. Easements - Water mains that are located off the public right-of-way shall have a 20-foot permanent easement.

503.5 Line Extension Requirements:

- A. Developers are required to extend all mains along their entire property frontage. The size of the extension will be at least the size of the existing main and may be larger if required by the City.
- B. If an existing main must be extended to serve a particular development, the Developer will be required to pay all costs.

504. Fire Line Ordinance:

- A. All fire service lines must be equipped with an appropriate backflow device. As a minimum this device shall be a double check valve installed in a vault at a point on the fire service line as near to the main as practical. Certain fire system configurations may require more extensive backflow prevention measures. Contact the Villa Rica Water Department Backflow Prevention Coordinator for a specific determination of backflow prevention requirements of a particular fire service system design.
- B. All fire service systems require the installation of an underwriter approved detector meter installed as a component of the double check assembly or a factory mutual fire line meter immediately upstream of the double check valve assembly.
 1. All detector check assemblies shall utilize a "City-Specified" meter equipped with a "Pro-read" remote reading device.

2. Factory mutual fire line meter systems shall utilize "City-Specified Turbine" or "compound" meter equipped with "Pro-read" remote reading devices.
- C. Fire service charges for systems utilizing a detector meter shall be based on a count of sprinkler heads plus a service fee.
- D. Fire service charges for systems utilizing a factory mutual fire meter shall be based on actual water usage and monthly minimums for meter size.
- E. When unauthorized water is used through a detector meter in three or more billing periods in one calendar year, it shall be replaced with a factory mutual fire line meter. Unauthorized use of water is defined as non-fire fighting water and/or water use without prior notification and approval of the City.
- F. All domestic water supply must be metered with a proper meter.
- G. Work to be performed by Developer. Installation of detector meters or factory mutual fire line meters as required by this ordinance will be handled by the Developer under supervision of the City's inspectors. The cost of installation will be the responsibility Developer.
- H. The City shall have the authority to cut off water service to buildings whose owners refuse to comply with the provisions of this ordinance upon proper notification of sixty (60) days.
- I. The customer shall have ownership and be responsible for maintenance and repairs of the fire service line beginning at the boundary with the public right-of-way. For mains located outside of public right-of-way the customer's ownership and maintenance responsibility shall begin at the connection to the main.

505. **Material Specifications**

All materials used in the work including equipment shall be new and unused materials of a reputable U.S. Manufacturer conforming to the applicable requirements of the Specifications, and no materials shall be used in the work until they have been approved by the City.

- 505.1 **Ductile Iron Pipe:** Ductile iron pipe shall be designed in accordance with ANSI A21.50 (AWWA C150), latest revision, and manufactured in accordance with ANSI A21.51 (AWWA C151), latest revision. Wall thickness class shall be a minimum Class 50.

Ductile Iron Pipe shall have an outside asphaltic coating per ANSI A21.51 (AWWA C151), latest revision. Pipe shall have standard cement lining inside with asphaltic seal coat per ANSI A21.4 (AWWA C104), latest revision.

Pipe Joints - except where restrained or flange joints are specified - shall

be push-on or mechanical joint type conforming to ANSI A21.11 (AWWA C111), latest revision. Pipe shall be in 18' to 20' nominal lengths with standard deflection pipe sockets. Where restrained joints are shown or specified on pipe larger than 12" diameter the joints shall be "Lok-Fast", "Lok-Ring", or equal. Restrained joints for pipe sizes 12" diameter and smaller requiring restrained joint construction may utilize "Fast Grip" gaskets as manufactured by American Pipe or an approved equal.

Where river crossing pipe is shown or specified, the pipe shall be "Flex-Lok Boltless Ball Joint Pipe" as manufactured by American Pipe or approved equal.

Where specified, flanged pipe shall meet ANSI A21.51 and be used with fittings meeting ANSI A21.53. (AWWA C153).

505.2 **PVC Pipe:** All PVC pressure pipe used for temporary water mains shall be Class 200, SDR 14 pipe rated at 200 psi working pressure.

505.3 **Copper Tubing for Water Service:** House service pipe shall be copper service pipe, type K, soft temper, seamless copper tubing, conforming to Federal Specification WW-T-T00. Compression or flare joints shall be used.

505.4 **Steel Casing Pipe:** Steel casing pipe shall be steel pipe conforming to A.S.T.M. Designation A-139, Grade B, electric fusion welded steel pipe. The pipe shall have a minimum tensile strength of 35,000 psi. Both the exterior and interior of the pipe shall have a coal tar varnish coating.

505.5 **Pipe Fittings:** Fittings shall be ductile iron furnished in accordance with ANSI Specifications A21.53 (AWWA C153), latest revision, and shall have a minimum of 250 psi. pressure class rating. Joints shall be mechanical joint with ductile iron retainer glands conforming to ANSI Specification A21.11 (AWWA C111), latest revision. Ductile iron retainer glands shall be Mega-Lug glands as manufactured by EBAA Iron. All fittings shall be furnished with a cement mortar lining.

505.6 **Butterfly Valves:**

A. All butterfly valves shall be bubble-tight closing at the rated pressure with flow in either direction, and shall be satisfactory for applications involving throttling service and frequent operations or operations after long periods of inactivity. Valves shall meet the full requirements of AWWA Standard C504, latest revision for 150 psi working pressure

and shall be suitable for above ground or buried service.

All interior ferrous surfaces of valves larger than 12-inch shall have a special epoxy coating meeting the requirements of AWWA C550.

Valve bodies shall be equipped with integrally cast mechanical joint ends meeting ANSI A21.11 (AWWA C111). Mechanical joints shall be fitted with retainer glands with set screws on ductile iron pipe. Retainer glands shall be Mega-Lug as manufactured by EBAA Iron.

Butterfly valves installed underground shall come equipped with the manual operator specified in the following paragraph.

- B. Manual operators shall be of the traveling nut, self-locking type and shall be designed to hold the valve in any intermediate position between fully open and fully closed without creeping or fluttering. Operators shall be equipped with mechanical stop-limiting devices to prevent over travel of the disc in the open and closed positions. Valves shall close with a clockwise rotation. Operators shall be fully enclosed and designed for buried operation. Provide extensions as necessary to bring the operating nut within eighteen inches of the ground surface

505.7 **Gate Valves:** Valves 12-inches and smaller shall be gate valves. These valves shall be non-rising stem design, iron body, bronze mounted with a compression, resilient seat manufactured in accordance with AWWA Standard C509, latest revision. Valves shall be designed for a minimum working pressure of 200 psi and shall have 2" square operating nuts, except in meter vaults where hand wheels shall be installed. Valves shall have non-rising stems, shall open when turned counter-clockwise and shall meet AWWA Specifications for Class C valves. Valves with flanged connections shall conform to ANSI B16.1. Mechanical joints shall be fitted with retainer glands and set screws on ductile iron pipe. Retainer glands shall be Mega-Lug as manufactured by EBAA Iron. Gate valves shall be as manufactured by American Darling, Mueller, or M&H. Provide extensions as necessary to bring the operating nut within eighteen inches of the ground surface.

505.8 **Valve Boxes:** Each valve shall be provided with a valve box. Valve boxes for valves shall be approved standard cast iron, screw type adjustable-shaft boxes having a minimum shaft diameter of 5-1/4 inches adjustable for the necessary depth. The casting shall be coated with two coats of coal tar pitch varnish. The lids of all boxes shall bear the word "Water". Boxes shall be equal to Russco Model 562-S or equal with a 5- 1/4-inch cast iron drop cover. All off-pavement valve boxes shall have concrete collars and valve markers.

- 505.9 **Air and Vacuum Relief Valve Assemblies:** Air and vacuum relief valves shall be cast iron body and covers with bronze trim, stainless steel float, Buna-N-Seal, and shall be designed for a minimum working pressure of 150 psi.

The valve shall be designed to exhaust large quantities of air during the filling period, and small quantities of air which collect in the line while operating under pressure. Acceptable manufactures of air/vacuum valves are Golden-Anderson, APCO or Val-Matic.

Valves between the water main and air relief valve shall be 2-inch stainless steel ball valves.

All air and vacuum relief valves are to be installed in standard meter boxes with gravel bottoms. Provide a minimum gravel layer thickness of 12 inches.

- 505.10 **Fire Hydrants:** All fire hydrants shall be designed and manufactured to comply with the latest specifications of the AWWA. They shall be designed for 5-1/4" valve opening and 150 pounds working pressure. The hydrants shall be of simple design, easy to operate, effectively and positively drained and protected from damage by freezing, have bronze seat and drain ring and convenient for repairing and replacing parts.

Hydrants shall be equipped with one 4-1/2" diameter pumper nozzle and two 2-1/2" diameter hose connections, which shall have threads meeting the latest requirements of the State Fire Insurance Commission. Hydrants shall have a 3-way pentagonal operating nut, and shall open when turned counter-clockwise. Hydrants shall have a safety flange on the barrel and a safety coupling on the valve stem, to prevent damage to barrel and stem in case of traffic accident. Hydrants shall be either Mueller Company's Centurian Traffic Model, M & H Style 129 Traffic Model, or American Darling Mark B62B. **The minimum main size for fire hydrant installation is an 8-inch main.**

The construction to the main line shall be with mechanical joint locked hydrant tee equal to American Cast Iron Pipe Company A-10180. All fire hydrant branches shall be valved. Wherever possible the fire hydrant shall be connected to the gate valve by using a locked hydrant adapter equal to American A-10895. The connection at the base of the hydrant shall be mechanical joint with ductile iron retainer gland, for Class 150, centrifugally cast, 6" ductile iron pipe. The valve opening shall meet the requirements of the AWWA Specifications for 5-1/4" hydrant. The valve,

valve seat and inner working parts shall be easily accessible. The distance from the ground to the hose nozzle shall not be less than 24". The body of each hydrant shall be neatly painted with a ~~silver~~ **red hydrant** paint and the ears and ~~or~~ bonnet painted ~~silver~~ **to match NFPA fire codes for hydrant painting**.

Each hydrant shall be tested to 200 psi. The first test shall be made with the valve closed. The second test shall be made with the main valve open but all nozzles closed. While this test is being carried on, the hydrant shall be subjected to a hammer test. Any hydrant showing defects by leakage, sweating or otherwise shall be rejected. The barrel and all parts shall withstand these tests. These tests shall be made in the field after the hydrants are installed.

505.11 **Service Saddles:** Service saddles shall be Ford F202 or equal with CC threads (3/4" single, 1" dual.)

505.12 **Pipe Couplings:** Pipe connections between new pipe and existing pipe shall be made with Dresser Style 90 long steel couplings for pipe sizes 2" and below; use mechanical joint sleeves for pipe sizes above 2". Field joints shall be made to insure permanently tight joints under all reasonable conditions of expansion, contraction, shifting, etc.

505.13 ~~**Yokes:** Yokes for 3/4" services shall include iron bar Ford Y502P, ball valve Ford B94-223WR, and dual check valve Ford HHS91-323 Dual.~~

505.14 **Corporation Stop:** Corporation stop shall be Ford F1000 or equal dual).

505.15 **Branch Piece:** 1" x 3/4" x 7-1/2" Branch Piece shall be Ford U48-43-7 1/2, 1" compression joint or flare inlet x 3/4" MIP outlet.

505.16 **P.V.C. Casing Pipe:** P.V.C. casing pipe used for long-side services shall be schedule 40, a minimum of 1" larger in diameter than the service line, but no less than 2" in diameter. Detection wire shall be placed on all non-metal casing pipes and service lines.

505.17 **Meter Boxes:** The meter box shall be plastic and the lid shall be cast iron. The meter box shall be as manufactured by DFW or equal; the lid shall be as manufactured by Kenflow or equal.

505.18 **Tapping Valves:** Tapping valves shall be M.J. Type, 200 psi minimum rating, acceptable manufactures include Mueller, M&H, and American Darling.

505.19 **Tapping Sleeves:** Tapping sleeves shall be Ford Stainless Steel tapping sleeves with carbon steel flange.

505.20 **Water Meters:** The Developer shall install the meter box and yoke on all residential and commercial and Industrial services in the 3/4 inch and 1-inch sizes. The City shall provide and install the meter after all fees are paid and service is requested. On larger size Commercial and Industrial services, the developer shall install the vault and all piping and valves. The City will provide and install the meter after all fees are paid. No water service will be provided until all required backflow prevention devices are in place.

505.21 **Backflow Preventers:** Backflow preventers for residential services shall consist of a dual check valve and shall be installed by the Developer as part of the yoke assembly. Backflow prevention devices for commercial services, as a minimum, shall consist of an ASSE approved double check backflow preventer installed by the developer immediately downstream of the meter assembly. Contact the Villa Rica Water Department Backflow Prevention Coordinator for a specific determination of backflow prevention requirements.

505.22 **Valve Markers:** Valve markers shall be made of 3,000 psi concrete, and shall be four feet (4') long and 4" on each side, with four #4 reinforcing bars. The markers shall be set with an even number of feet between the center line of the valve and the center line of the aluminum disc in the top of the marker, and the distance in feet between the valve and marker shall be stamped in the marker at the time of setting.

505.23 **Polyethylene Encasement:** Polyethylene film shall be manufactured of virgin polyethylene material conforming to ASTM Standard Specifications D-1248-78 Type I, Class A or C, Grade E-1. The polyethylene film shall have a minimum thickness of 8 mil. The polyethylene encasement material shall be provided in tube sizes adequate for the various size pipes.

505.24 **Insulators for D.I.P. in Steel Casing:** Insulators shall be as manufactured by Cascade Waterworks Manufacturing Company or approved equal. Insulators for 24" D.I.P. carrier pipe shall be CCS-2580 and 8" in width. Insulators for 12" D.I.P. carrier pipe shall be CCS-1320 and 8" in width. Insulators for 8" D.I.P. carrier pipe shall be CCS-905 and 8" in width. All insulators shall have a stainless-steel shell. Insulators shall be located within 2' of each end of the casing and spaced no more than 10' apart within the casing. The positioning of the casing insulators shall be centered for water mains.

506. **Water System Construction**

506.1 **General:**

- A. It shall be expressly understood that these specifications are for installation of all underground water mains and appurtenances.
- B. All work shall conform to the applicable provisions of the AWWA Specifications of latest revision except as otherwise specified herein.

506.2 **Trench Excavation:**

- A. Trenches shall have a minimum width of twenty-four (24) inches or the diameter of the outside of the bell of the water main plus twelve (12) inches, (which ever is greater), and the depth thereof shall be such that there shall be a minimum of 42 inches of cover measured below the roadway surface, natural ground, or proposed grade to the top of the pipe. In cases where water lines cross sanitary sewers, there shall be a minimum of two (2) feet vertical separation between the water and sewer mains. In cases where water mains parallel sewer mains there shall be a minimum of ten (10) feet horizontal separation maintained between the mains.

Trenches shall be dug so that the pipe can be laid to the alignment and depth required, and the trench shall be of such width and shall be braced and drained so that the workmen may work therein safely and efficiently. No chocking under the pipe will be permitted. All joints shall be as specified herein. Excavation must be made under the bell of each pipe so that the entire length of the pipe will lie uniformly on the bottom of the trench and the pipe weight shall not rest on the bells. Trenches shall be free of water during the work.

Water lines shall have a minimum cover of 42". All changes in grade shall be made gradually. At points of interference with storm sewers and cross drains, pipe will be run under the conflicting utility if the minimum cover cannot be maintained by going over the top of the pipe.

In laying pipe across water courses, railroad crossings, or depressions of any kind, the minimum depth here specified shall be maintained at the bottom of the depression.

Where necessary, the line shall be lowered at valves so that the top of the valve stem is approximately one foot below the finished grade. The trench shall be deepened to provide a gradual approach to all low points of the line.

- B. Wherever rock is encountered in the excavation, it shall be removed by suitable means. If blasting is used for removal of rock, the contractor shall take all proper safety precautions. He shall comply with all rules and regulations for the protection of life and property that may be imposed by any public body having jurisdiction relative to the handling, storing and use of explosives. Before blasting, the Contractor shall cover the excavation with heavy timbers and mats in such a manner as to protect the adjacent property owners from damage. All rock encountered shall be removed six (6") inches below the bottom grade of the trench and the trench built back to the correct grade with suitable material tamped into place. Sides of the trench shall be trimmed of projecting rock that will interfere with backfilling operations. The Contractor shall be wholly responsible for any damage resulting from blasting. Rock excavation by blasting shall be at least 75 feet in advance of pipe laying.
- C. After the pipe has been laid, backfilling shall be performed in two (2) distinct operations. In general, all backfill beneath, around and to a depth of twenty-four (24") inches above the top of the pipe shall be placed in six (6") inch layers for the full width of the trench and thoroughly compacted by hand with vibratory equipment. Care shall be taken so that the pipe is not laterally displaced during backfilling operations. The backfill lifts shall be placed by an approved method in accordance with that hereinafter specified. Backfill materials shall be the excavated materials without bricks, stone, foreign matter or corrosive materials, where not otherwise specified or indicated on the plans.
- D. Backfill under permanent concrete or bituminous pavement and as elsewhere specified or indicated on the plans shall be as shown in the Standard Detail Drawings for trenches in paved areas. Mechanical vibrating equipment shall be used to achieve the required compaction.
- E. Backfill under gravel or crushed stone surfaced roadways and low-type bituminous surfaced roadways shall be approved suitable excavated material placed in twelve (12") inch layers and thoroughly compacted for the full depth and width of the trench, conforming to the compaction, density compaction method and materials as specified in "D" above.
- F. Backfill in unpaved areas shall be compacted with mechanical vibrating equipment to ninety-five percent (95%) as determined by the Standard Proctor Test. Trenches shall be compacted so they will not settle. If settlement occurs, trenches are to be refilled, re-compacted and re-graded. Backfill material from pipe bedding to ground surface

shall be excavated earth free from large stones and other debris.

- G. Contractor shall fully restore and replace all pavement, surface structures, grassing, landscaping, etc., removed or disturbed as part of the work to a condition equal to that before the work began. All pavement removal shall be replaced per Standard Detail Drawings.
- H. Where sheeting is used in connection with the work, it is in no case to be withdrawn before the trench is sufficiently filled to prevent damage to banks, road surfaces, adjacent pipes, adjacent structures or adjacent property, public or private.

506.3 Laying Pipe: All pipe shall be laid straight, true to line and grade. Bell and coupling holes shall be dug in the trench and the pipe shall have a continuous bearing with the trench bottom between bell or coupling holes. No shimming or blocking up of the pipe shall be allowed. When the work is not going on, all pipe openings shall be securely closed by the insertion of the proper size plug and caulking so that dirt and debris will not be washed into the pipe in case of rain.

In making the joints with ductile iron pipe, the spigot end of the pipe and the inside of the bell shall be thoroughly cleaned and the gasket inspected to see that it is properly placed; lubricant shall be applied to the spigot end of the pipe and it shall be inserted into the bell of the adjoining pipe to the stop mark on the pipe.

506.4 Thrust Restraint for Pressure Lines:

A. Reaction Blocking

1. Underground piping laid around curves and at all unsupported changes of direction, all tees, wyes, crosses, plugs and other like fittings shall be solidly and properly blocked with concrete against solid earth to take the reaction of the main pressure and to prevent lateral movement of the pipe or fittings when under pressure. Reaction blocking shall be installed at all locations requiring same and where tie rods and clamps are not called for in the plans. Concrete for reaction blocking shall have a minimum compressive strength of 3,000 psi at twenty-eight (28) days. The blocking, unless otherwise shown, shall be so placed that the pipe and fitting joints will be accessible for repair. In addition to the concrete blocking specified herein, all mechanical joint fittings shall be installed with Mega-Lug retainer glands.
2. Reaction blocking shall be constructed as per AWWA Standard

C600 Section 3.8, latest revision. It shall be constructed in conformance with the Standard Detail Drawings for Reaction Blocking.

- B. Retainer Glands: Mechanical joint fittings on Ductile Iron Pipe shall be installed with retainer glands. Retainer glands are to be Mega-Lug retainer glands as manufactured by EBBA Iron.
1. Clean the socket and the plain end. Lubrication and additional cleaning should be provided by brushing both the gasket and the plain end with soapy water or an approved pipe lubricant meeting the requirements of ANSI C111 or AWWA A21.11 just prior to slipping the gland and gasket onto the plain end for joint assembly. Place the gland on the plain end with the lip extension toward the plain end, followed by the gasket.
 2. Insert the pipe into the socket and press the gasket firmly and evenly into the gasket recess. Keep the joint straight during assembly.
 3. Push the gland toward the socket and center it around the pipe with the gland lip against the gasket. Insert bolts and hand tighten nuts. Make deflection after joint assembly but before tightening bolts.
 4. Tighten the bolts to the normal range of bolt torque specified in AWWA C600 while at all times maintaining approximately the same distance between the gland and the face of the flange at all points around the socket.
 5. Tighten the torque limiting twist off nuts in a clock-wise direction until all wedges are in firm contact with the pipe surface. Continue tightening in an alternate manner until all of the nuts have been twisted off.

506.5 **Setting Fire Hydrants:** Fire hydrants shall be placed at the locations shown on the plans or as directed by the City and shall be installed **on a minimum main size of 8-inch**. All fire hydrants shall be installed with a resilient seat gate for isolation from the main. Gate valves for fire hydrants shall be connected directly to the main by means of a "Locked Hydrant Tee". Fire hydrants shall be connected to the isolation valve with a locked hydrant adapter. Installations where locked hydrant tees or locked hydrant adapters cannot be utilized, either due to distance from the main or size, shall be restrained with retainer glands and threaded rods. Care shall be exercised that set screws and retainer glands are tightened sufficiently to secure the hydrants before pressure is put on the main. Not less than nine cubic feet of coarse, broken stone shall be placed around the base of the hydrants, as shown in the Standard Detail Drawings, Section 500. Before placing the hydrants, care shall be taken to see that all foreign material is removed from within the body. The stuffing boxes shall be

tightened and the hydrant valve opened and closed to see that all parts are in first class working condition. All hydrant openings shall be kept capped, except when hydrant is being worked on.

Existing fire hydrants shall not be operated without permission of the City.

When a fire hydrant has been constructed but is not yet in service, the Contractor shall provide and attach to the fire hydrant, flags or collars indicating that the fire hydrant is not in service. Said flags or collars shall remain on the fire hydrant until it is put into service.

Whenever an existing fire hydrant is taken out of service, whether temporarily or permanently, it shall be equipped with a flag or collar indicating that it is not in service. The Contractor shall provide and install flags or collars as required and shall notify the Fire Department whenever the operating status of any fire hydrant changes.

FIRE HYDRANTS SHALL NOT BE OPERATED WITH ANY TOOL EXCEPT A SPECIFICALLY DESIGNED FIRE HYDRANT WRENCH.

If the Contractor observes any other contractor or person operating a fire hydrant with an unapproved fire hydrant wrench, he shall report that fact to the City immediately. It is the Contractors responsibility to ensure that all new facilities are maintained in new condition until final completion of the project and acceptance by the City. Fire hydrants with damaged operating nuts shall not be accepted.

- 506.6 Setting Valves and Fittings:** Valves shall be set plumb, and shall have cast iron valve boxes. The valve boxes shall be placed directly over the valve and set plumb, the top of the box being brought to the surface of the ground. Provide valve extensions on all valves with operating nuts more than three feet in depth. Valve extensions shall bring the operating nut to within eighteen (18) inches of the surface and shall be keyed into the valve nut. After the boxes are in place, earth shall be filled in the trench and thoroughly tamped around the box. After all settlement has taken place, a precast concrete collar shall be installed for each valve box.

Fittings shall be properly restrained to ensure that they will not be blown off or broken loose under the greatest possible working pressure (see Standard Detail Drawings). All fittings shall be mechanical joint and shall be installed with Mega-Lug retainer glands and concrete blocking unless specified otherwise. In situations where there is insufficient undisturbed earth to act as a bearing surface or where otherwise directed by the City, fittings shall be restrained by the use of threaded rods or other method acceptable to the City.

Prior to blocking any joint or fitting with concrete, that joint or fitting shall be wrapped with polyethylene film in such a manner that the concrete will not stick directly to the pipe but that the load bearing capacity of the blocking will not be affected. Care shall be taken to prevent the concrete from covering bolts. Polyethylene film shall be installed at other points along the water main where so directed by the City.

506.7 Placing of Steel Casing Pipe: Casing pipe shall be installed at the location shown on the plans. Unless directed otherwise, the installation procedure shall be by the dry bore method. The hole is to be mechanically bored and cased through the soil by a cutting head on a continuous auger mounted inside the casing pipe. The installation of the casing and boring of the hole shall be done simultaneously by jacking. Lengths of pipe are to be adequately welded to the preceding section installed. Excavation material will be removed and placed at the top of the working pit. Backfill material and methods of backfilling and tamping shall be as required under BACKFILLING. Carrier pipe shall be inserted within the casing by use of stainless steel casing spacers. Intervals shall be as detailed in Section 805.24.

506.8 Marking Location of Valves:

- A. Each main line water valve shall be marked by cutting a letter "V" in the horizontal surface at the back of the curb. The "V" shall be turned to point toward the valve which may be either in the street or in the grass behind the curb. The letter height shall be 4" to 6".
- B. Concrete valve markers shall be set for main line water valves with an even number of feet between the center line of the valve and the center line of the aluminum disc in the top of the marker, and the distance in feet between the valve and marker shall be stamped in the marker at the time of setting.

506.9 Dewatering Trenches: The Contractor shall do all necessary pumping or bailing, build all drains and do all other work necessary at his own expense to keep the trenches clear of water during the progress of the work.

506.10 Bracing, Sheeting, and/or Shoring: Whenever the condition of the ground is such that it is necessary to protect the work, the street, the roadway or the workmen, the sides of the trench shall be supported with suitable bracing, sheeting and/or shoring to be furnished by the Contractor at his own expense.

506.11 Rock Excavation: Drilling and blasting operations shall be conducted

with due regard for the safety of persons and property in the vicinity and in strict conformity with requirements of all ordinances, laws and regulations governing blasting and the use of explosives. Rock excavation near existing pipelines or other structures shall be conducted with the utmost care to avoid damage. Injury or damage to other structures and properties shall be promptly repaired by the Contractor to the satisfaction of the City and property owner.

Rock in trenches shall be excavated over the horizontal limits of excavation and to depths as follows:

<u>Size of Pipeline Inches</u>	<u>Depth of Excavation Below Bottom of Pipe, Inches</u>
6 and Less	6
8 to 18	8
18 to 30	10
Over 30	12

The undercut space shall then be brought up to grade by backfilling with Size #57 crushed stone material or approved equal.

506.12 Location and Protection of Existing Underground Utilities: It is the responsibility of the Contractor to locate the underground utilities and to protect same. Utility lines or services damaged by the Contractor shall be repaired by the Contractor at his own expense. The Contractor is to comply with all Federal, State and Local laws requiring notification of the Utilities Protection Center prior to excavating.

506.13 Connection to the Existing City Water System:

A. Requirements for all connections: All persons desiring to connect a line extension to an existing main must make application at the City at least 21 working days prior to the date the connection is to be made. Connection to existing mains will only be allowed for approved projects. All connections must be made with a wet tap using a tapping saddle or tapping sleeve. The contractor has the option of contracting with the City Water Department to perform the actual tapping of the main or they may contract with an outside private contractor. City approval of private contractor to perform pipe tapping is mandatory. Submit detailed resume and work history with references to establish competency and expertise for performing tap work. A City of Villa Rica Water Department inspector must be present at all times during tapping operations. The contractor shall furnish the following information when making application:

1. Approved plan for the project.
2. Copy of Street or highway permit if applicable.

3. Schedule of work to be performed.
 4. Resume, work history and references of proposed tapping contractor for taps installed by a private contractor.
 5. Payment of cost estimate for connections installed by the City.
- B. City makes connection: The City will charge for work at prevailing department rates and schedule the connection to conform to their work schedule and notify the Contractor so that he can complete his preparation.
1. The Contractor shall furnish the following at site:
 - a. Tapping sleeve and valve installed on the line and ready for tapping.
 - b. Proper traffic control devices and person(s) to direct traffic if required.
 - c. Backhoe or lift capable of handling the tapping machine.
 - d. Minimum of three (3) men to assist with the work.
 2. The Contractor will be billed for making the connection based on material costs and the hourly rates for the City's operator, additional laborers, truck and any other equipment used if made by City forces.
- C. Private Contractor makes connections:
1. City personnel shall supervise the tap and associated work by private contractor.
 2. All taps shall be made on wet lines under pressure.
 3. All taps to be made with saddles or tapping sleeves meeting City standard specifications.

506.14 Street Cuts:

- a. All paved roads will be bored and cased. A bore must be attempted before consideration will be given to cutting the street. A permit is required for all utility installations in existing City streets as detailed in Section 307.6 of the General Design Regulations.
- b. One lane of traffic shall be maintained open at all times.
- c. Construction work shall be limited to the hours between 9 A.M. and 4 P.M. Other time constraints may be imposed if deemed necessary by the City.
- d. The Contractor shall furnish traffic control devices and person(s) to direct traffic, if required.
- e. Compaction and surface replacement to be performed per City Standard Specifications as detailed in other sections herein.

506.15 **Standard Drawings:** Installation of fire hydrants, water valves, valve boxes, meters, long side service water lines, etc. shall be made in accordance with applicable Standard Design Drawings in these specifications.

506.16 **Clean Up:** Prior to requesting the final inspection, the Contractor shall do the following:

- A. Remove and dispose of in an acceptable manner all shipping timbers, shipping bands, spacers, excess materials, broken material, crates, boxes and any other material brought to the job site.
- B. Repair or replace any work damaged by the water line construction.
- C. Regrade and smooth all shoulder areas disturbed by the water line construction.
- D. Set precast concrete collars around all valve boxes outside paved areas.
- E. Insure that all fire hydrants are set to grade and that all valves have been located and are fully open.

506.17 **Interruption of Water Supply During Construction:** Approval of the City Water Department must be obtained prior to interrupting water service to an occupied building. A minimum of twenty-four (24) hours advance notice shall be given to any occupied building served by a water line which is required to be shut off. Occupants shall be informed of the date, time of cutoff and the duration of stoppage by written notice posted on doorways of all buildings affected. Failure to do so will make the Contractor liable for any damages reported to the City Office.

507. **Inspection and Tests**

507.1 **Scope:** This section pertains to the inspection and testing of installed water lines requiring testing for assuring proper operation and service and/or specifically specified to be tested. In general, all lines designed to operate under pressure shall be successfully tested. Tests of installed piping shall consist of a pressure and leakage test.

All piping to be tested must satisfactorily comply with the pressure tests before being eligible for acceptance. In general, tests shall be conducted in accordance with AWWA Standard C-600 except as otherwise herein specified.

507.2 Testing:

- A. After all piping has been placed, each run shall be tested by the Contractor in the presence of the Inspector and tests shall be continued until all leaks have been made tight to the satisfaction of the Inspector. The Contractor shall furnish all necessary water, meters, pumps, gauges, bulkheads, and other materials and appliances necessary to conduct the test as herein required. Every precaution must be taken to valve-off or otherwise protect control equipment in or attached to the pipe line to prevent damage or injury thereto. All piping shall be tested at 200 psi for a minimum test duration of one (1) hour. The City or its representative may require a 24-hour test if it so desires.
- B. Before applying the specified test pressure, all air shall be expelled from the pipe. If hydrants, blow-offs or air release valves are not available at the high places, the Contractor shall make the necessary taps, as per the standard detail for tap construction, at points of highest elevation before the test is made and close the corporation stop after the test has been completed.
- C. Prior to the pressure test, pipe laid in trenches shall be backfilled adequately to secure the pipe during the test. Any observed leakage shall require corrective measures to pipe lines and/or joints as otherwise provided for in these Specifications and to the satisfaction of the Inspector. During the final pressure test the specified pressure shall be maintained in the pipe being tested for a minimum time of one (1) hour.
- D. The City will furnish the necessary water for testing the lines. However, any water lost through breakage of lines or unnecessary or excessive flushing of line will be charged to the Contractor. Each valved section must be flushed and tested at a pressure of 200 PSI for one hour. Lines shall be tested in sections in a manner that assures testing of the tapping valve and all main line valves. When testing at the above specified pressures, the rate of leakage shall not exceed 15 gallons per 24 hours per inch diameter per mile of line. (See Table below).

Size of Pipe	Leakage Tabulation Gallons/Hr./100 Ft.	Gallons / Day
12"	0.142	3.409
10"	0.118	2.841
8"	0.095	2.273
6"	0.071	1.704

Any section of the line not meeting the above test shall have the leaks

found and corrected at once and re-tested until the leakage falls within the limits specified above.

- E. All fire hydrants shall be flushed to check operations.
- F. All valves shall be located and operation checked.

507.3 **Disinfection:** After leakage testing, and all necessary repairs have been made, the lines shall be flushed clean and then disinfected in strict accordance with AWWA Standard for Disinfecting Water Mains, AWWA C651, latest revision subject to the following special conditions:

- A. The method of disinfection shall be either the Continuous-Feed Method or the Slug Method. The Tablet Method is not acceptable.
- B. The form of chlorine may be either: (1) a 1 percent solution made from either sodium hypochlorite or calcium chlorine gas cylinder supplying a vacuum-type chlorinator, or (2) making a solution and pumping it into the pipeline.
- C. The Contractor shall dechlorinate the highly-chlorinated water being flushed from the pipeline or otherwise dispose of in a manner complying with State Environmental regulations.
- D. The developer shall be responsible for collecting bacteriological samples under City supervision. The City shall perform the initial bacteriological testing of water samples from the disinfected pipeline at no charge. The Contractor shall be responsible for charges on all failed tests.
- E. Before any flushing or disinfection work is begun, the Contractor shall outline his planned procedures for these tasks and obtain approval of the City.

507.4 **Contractor Qualifications:**

- A. Licensing and Safety: All contractors who work on water systems that will be owned by the City of Villa Rica must be licensed in accordance with State of Georgia law and local ordinance. Compliance with applicable safety regulations is the responsibility of each company engaged in the work; the city assumes no responsibility for the actions of others on the job site. It is the responsibility of those installing water mains and related appurtenances to conform to OSHA regulations, 29 CFR Part 1926, Subpart P, Paragraph 1926.650 through 1926.653. Publications from OSHA can be obtained by contacting OSHA Publications Distribution, Washington, D.C.
- B. Contractors performing water system installations must be approved by the City and should be completely familiar with the procedures and contract requirements associated with this type project.
- C. Unsatisfactory work will cause a contractor not to be given a permit for future work.

507.5 Construction Inspection:

- A. Responsibility for Inspection: The developer will be responsible for the quality, accuracy and workmanship of his completed work.

City personnel will visit the job site on a periodic basis and will make spot checks as they deem appropriate. The City of Villa Rica shall have the right to review and inspect all construction and may reject any work that does not meet quality control standards. The contractor shall leave trenches open at critical locations to allow visual inspection of fittings, valves and hydrants prior to backfilling. The City maintains the right to refuse performing inspections at unsafe worksites.

- B. Access to Project: Authorized representatives of the City of Villa Rica, which may include city employees, the City, state or federal agencies, shall have access to the site for inspection at any time.

- C. Communications During Construction: All written communications regarding water construction shall be directed to the City Water Department. The developer shall be responsible for scheduling a preconstruction conference between their contractor and utilities and affected City departments prior to any construction activities.

After a preconstruction conference has been held the contractor will notify the City in writing 2 days before starting construction. The contractor will provide notification by phone any time the work is to be vacated and will provide notice by phone prior to resuming work.

The Owner/Developer shall request the final inspection in writing.

The city inspector may have informal verbal communications with the contractor foreman or superintendent at any time during construction. The city inspector will not direct the actions of contractor's workmen.

- D. Concealed Work: The contractor shall notify the city and receive inspection approval prior to concealing certain work such as valves, fittings, bends, tees, fire hydrants, pipe bedding, reaction blocking, lot services, or other appurtenances.
- E. As-Built Drawings Provided by Design Professional: As-Built drawings will be provided and certified by the design professional who is employed by the developer. As-built drawings shall be submitted showing the horizontal location of the mains, main size, valve, hydrant, and service line and meter location. Locations shall be

referenced to a fixed landmark where necessary. Provide detail drawings of crossings with other utilities showing vertical and horizontal clearances.

F. **Minimum Testing:** All costs for testing required by the City shall be paid for by the developer.

1. **Compaction of backfill.** Compaction testing will be required for mains constructed in paved areas or where pavement is planned. A minimum of two tests at each road crossing will be conducted at varying depths as fill is being placed. If any of these tests show failing results, then the failing backfill will be removed, re-compacted and re-tested, and one additional area will be tested as well.
2. **Pressure and disinfection tests** shall be observed until each test is passing.

507.6 Final Inspection and Conditional Acceptance: Prior to final inspection of the water system the developer shall have previously completed the pressure and disinfection tests. After the developer makes written request for final inspection, the city will schedule a final inspection. The contractor and the developer will be present during this final inspection. This final inspection will generally include spot checks of hydrants, valves and other appurtenances and a complete overview of the project.

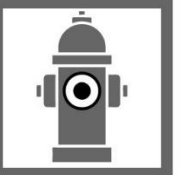
After any discrepancies are corrected and approved as-built drawings are submitted, the city will issue a letter certifying conditional acceptance of the water system. This letter shall commence the start of the 18-month warranty period which is required of the contractor.

On projects having phased development, this letter will clearly identify portions of the project being accepted.

At the end of 18 months, the subdivision inspection team will again re-inspect the entire development. When all discrepancies have been corrected, the city will issue an acceptance letter and will begin perpetual maintenance and operation of the water system.

507.7 Maintenance Bond or Letter of Credit: The developer shall post a maintenance bond or Letter of Credit of 25% of the total project cost on the facility for an eighteen-month period after completion and conditional acceptance of the facility by the City of Villa Rica for all projects whose cost exceeds \$20,000.00. **Bonds are to be written where the City of Villa Rica must release the bond in writing. Bond expiration dates for release are not acceptable.**

507.8 **Maintenance until Final Acceptance:** It shall be the developer's obligation to provide all maintenance for an 18-month period after acceptance of the project by the City of Villa Rica. At the end of the 18- month maintenance period the City shall inspect the water system, and upon correction by the developer of all deficiencies noted by the City, the City will accept the water system for maintenance.

BLUE BONNET	+1,500 gallons per minute		YELLOW BARREL Part of the public water system
GREEN BONNET	1,000-1,499 gallons per minute		 
ORANGE BONNET	500-999 gallons per minute		SILVER BARREL Part of a private fire protection system separated from the public water supply by a meter and backflow device
RED BONNET	499 or less gallons per minute		
BLACK BONNET	Out of Service		

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CITY OF VILLA RICA

City Council Meeting Agenda Item Cover Sheet

SUBJECT: Rental agreement with the Villa Rica Military Veterans Association
AGENDA DATE: 10/14/25

DATE PREPARED: 10/01/25

PREPARED BY: Jennifer Hallman, Interim City Manager / CFO

PURPOSE: The Council approved a resolution on September 9, 2025 for the Veterans Memorial Park. A rental agreement was drafted by legal staff for the park and now requires Council approval.

STAFF RECOMMENDATION: Approve the rental agreement with the Villa Rica Military Veterans Association

MOTION: I move to approve the rental agreement with the Villa Rica Military Veterans Association and authorize the Mayor to sign related documents.

STATE OF GEORGIA
COUNTY OF CARROLL

RENTAL AGREEMENT

THIS RENTAL AGREEMENT made and entered into this _____ day of _____ 2025, by and between CITY OF VILLA RICA, GEORGIA, acting by and through its Mayor and Council, whose address is 571 W Bankhead Hwy, Villa Rica, GA 30180, party of the first part, hereinafter called LANDLORD, and the **VILLA RICA MILITARY VETERANS ASSOCIATION**, a Georgia Non-Profit Corporation, as party of the second part, hereinafter called TENANT.

WITNESSETH

ARTICLE I. USE OF PREMISES

The LANDLORD and TENANT intend to create a usufruct under Georgia code section 44-7-1(a), regardless of the term of this rental agreement, and they do not intend to create an estate for years. The LANDLORD and TENANT further declare that the TENANT does not have the right to use the property in as absolute a manner.

ARTICLE II. PREMISES RENTED

The LANDLORD, in consideration of the rents agreed to be paid by the TENANT and of the covenants, agreements, provisions and stipulations herein agreed to be mutually kept and performed by the parties hereto, does hereby this day grant, demise and rent, upon the terms and conditions herein stated, unto the TENANT those certain premises situated in Carrollton, Georgia, and more particularly described as follows, to wit:

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING LOCATED IN LAND LOT 161 OF THE 6TH DISTRICT, CITY OF VILLA RICA, CARROLL COUNTY, GEORGIA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS. TO REACH THE POINT OF BEGINNING COMMENCE AT THE INTERSECTION OF THE EAST RIGHT-OF-WAY OF THE NORTHFOLK SOUTHERN RAILROAD AND THE SOUTH RIGHT-OF-WAY OF NORTH CARROLL ROAD; FROM SAID POINT OF COMMENCEMENT THENCE RUNNING S 53°03'33" E FOR A DISTANCE OF 121.19' TO A POINT LOCATED AT A 90-DEGREE BEND IN THE BACK OF THE SIDEWALK ALONG EAST TEMPLE STREET, AND BEING THE TRUE POINT OF BEGINNING; FROM SAID POINT OF BEGINNING THENCE RUNNING ALONG THE EDGE OF SAID SIDEWALK N 44°45'08" E FOR A DISTANCE OF 33.53' TO A POINT; THENCE CONTINUING ALONG SAID SIDEWALK N 79°07'07" E FOR A DISTANCE OF 4.81' TO A POINT; THENCE LEAVING SAID SIDEWALK S 41°20'02" E FOR A DISTANCE OF 24.18' TO A POINT ON THE BACK OF THE SIDEWALK ADJOINING THE CITY PARKING LOT; THENCE RUNNING ALONG SAID SIDEWALK N 46°46'27" E FOR A DISTANCE OF 24.39' TO A POINT; THENCE LEAVING SAID SIDEWALK AND RUNNING ALONG THE CURB LINE S 43°22'13" E FOR A DISTANCE OF 24.37' TO A POINT IN THE GUTTER; THENCE RUNNING S 46°21'06" W

FOR A DISTANCE OF 56.55' TO A POINT ON THE BACK OF CURB; THENCE RUNNING ALONG SAID CURB LINE S 42°24'00" W FOR A DISTANCE OF 2.90' TO A POINT ON THE BACK OF THE SIDEWALK ALONG THE NORTH SIDE OF EAST TEMPLE STREET; THENCE RUNNING ALONG SAID SIDEWALK NORTH 63°39'58" WEST A DISTANCE OF 6.54 FEET TO A POINT; THENCE CONTINUING ALONG SAID SIDEWALK N 42°35'24" W FOR A DISTANCE OF 44.44' TO THE POINT OF BEGINNING. SAID TRACT CONTAINS 2,483 SQUARE FEET, MORE OR LESS, AS SHOWN ON A SURVEY PREPARED BY GEORGIA AND WEST, INC., DATED SEPTEMBER 17, 2025, LAST REVISED ON SEPTEMBER 25, 2025.

The Property, as reflected in the Plat attached hereto as Exhibit A, includes the area formerly designated as six (6) parking spaces, which area is not designated as billable area, together with all the improvements, tenements and appurtenances belonging thereto or in any way appertaining, including the right of ingress and egress thereto and therefrom at all times. The Access Easement is more particularly described as follows:

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING LOCATED IN LAND LOT 161 OF THE 6TH DISTRICT, CITY OF VILLA RICA, CARROLL COUNTY, GEORGIA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS. TO REACH THE POINT OF BEGINNING COMMENCE AT THE INTERSECTION OF THE EAST RIGHT-OF-WAY OF THE NORTHFOLK SOUTHERN RAILROAD AND THE SOUTH RIGHT-OF-WAY OF NORTH CARROLL ROAD. FROM SAID POINT OF COMMENCEMENT THENCE RUNNING S 53°03'33" E FOR A DISTANCE OF 121.19' TO A POINT LOCATED AT A 90-DEGREE BEND IN THE BACK OF THE SIDEWALK ALONG EAST TEMPLE STREET AND BEING THE TRUE POINT OF BEGINNING. FROM SAID POINT OF BEGINNING THENCE ALONG THE BACK OF THE SIDEWALK S 42°35'24" E FOR A DISTANCE OF 44.44' TO A POINT; THENCE CONTINUING ALONG SAID SIDEWALK S 63°39'58" E FOR A DISTANCE OF 6.54' TO A POINT ON THE BACK OF THE CURB; THENCE RUNNING ALONG SAID CURB S 45°42'54" W FOR A DISTANCE OF 1.42' TO A POINT; THENCE CONTINUE RUNNING ALONG SAID CURB S 45°49'31" W FOR A DISTANCE OF 1.37' TO A POINT; THENCE CONTINUE RUNNING ALONG SAID CURB S 56°08'10" W FOR A DISTANCE OF 6.49' TO A POINT; THEN CONTINUE RUNNING ALONG SAID CURB AND WITH A CURVE TO THE RIGHT, HAVING AN ARC LENGTH OF 2.26', A RADIUS OF 11.84', AND A CHORD BEARING OF S 67°24'41" W WITH A CHORD LENGTH OF 2.26', TO A POINT; THENCE LEAVING SAID CURB RUNNING ALONG THE NORTH RIGHT-OF-WAY OF EAST TEMPLE STREET N 43°08'12" W FOR A DISTANCE OF 12.74' TO A POINT; THENCE CONTINUING ALONG SAID RIGHT-OF-WAY OF EAST TEMPLE STREET N 42°29'30" W FOR A DISTANCE OF 35.71' TO A POINT; THENCE LEAVING SAID RIGHT OF WAY RUNNING N 44°45'08" E A DISTANCE OF 9.04 FEET TO THE POINT OF BEGINNING. EASEMENT IS SHOWN AS "ACCESS EASEMENT" ON A SURVEY PREPARED BY GEORGIA AND WEST, INC., DATED SEPTEMBER 17, 2025, LAST REVISED ON SEPTEMBER 25, 2025.

ARTICLE III. TERM

This rental agreement shall be for a term of 20 years, commencing on the 1st day of _____ and ending at 12:00 o'clock midnight on the _____, unless terminated beforehand as hereinafter provided.

ARTICLE IV. FIXED RENTAL

The TENANT agrees to pay the LANDLORD, at his above-stated address, or at such addresses as may be designated in writing from time to time by the LANDLORD, the total fixed and equal annual rental of TEN DOLLARS (\$10.00) for the use and rent of the said premises beginning on the 1st day of January, _____ and payable on the first day of each and every annual anniversary during the said term.

ARTICLE V. OPTION TO RENEW OR EXTEND TERM

The LANDLORD, in consideration of the premises and of the covenants, agreements, provisions, and stipulations herein agreed to be mutually kept and performed by the parties to this rental agreement, does hereby give and grant unto the TENANT the exclusive right, privilege and option of renewing or extending this rental agreement at the expiration of the aforementioned term for an additional term of twenty years. Said renewal or extension shall be upon the same terms, conditions, covenants, provisions, stipulations and agreements as herein set forth and at the same monthly rate of rental herein stipulated; provided, however, that the notice of TENANT's desire to exercise such option shall be given to the LANDLORD at least thirty (30) days prior to the expiration date of the original term of this rental agreement or of any renewal or extension term thereof. It is further provided that this option may be exercised by the TENANT only in the event all rents have been fully paid and that all covenants, agreements, provisions, stipulations, terms and conditions of this rental agreement on the part of the TENANT to be performed, kept and observed.

LANDLORD may retake possession of the premises at any time during the 20-year term and the option periods upon 90-day written notice, if the area is needed for public purposes. LANDLORD shall have the right to terminate this Lease at any time, with or without cause, pursuant to the authority granted under the City Charter, by providing 90-day written notice to TENANT. TENANT shall have the right to terminate this Agreement by providing 90-day written notice to LANDLORD.

ARTICLE VI. CONSTRUCTION APPROVAL

TENANT shall not construct, install, or cause to be constructed or installed any memorial, monument, or other permanent improvement within the Premises without the prior review and approval of LANDLORD. Any proposal for such constructions shall first be submitted to City staff for review to ensure compliance with applicable building codes, safety standards, ADA accessibility requirements, maintenance considerations, and budgetary constraints. Upon confirmation of compliance by staff, the proposal shall be submitted to the City Council for final

approval. The City Council may approve or deny any such proposal in its sole discretion based on community values, policy considerations, or any other reason it deems appropriate.

ARTICLE VII. UTILITIES/SERVICES

LANDLORD shall be responsible for all utilities and shall provide grass clipping services on an as needed basis.

ARTICLE VIII. ALTERATIONS AND MODIFICATIONS

TENANT shall have the right to make alterations, additions, or improvements (collectively "Alterations") to the Premises, subject to the conditions set forth in this Agreement.

ARTICLE IX. CONTRACTOR INSURANCE REQUIREMENTS

TENANT shall ensure that any contractor, subcontractor, or other third party engaged by TENANT to perform construction, alterations, improvements, or similar work on the Premises carries and maintains, at its sole cost and expense, liability insurance with limits of coverage not less than the minimum amounts established from time to time by the LANDLORD. Such insurance shall include commercial general liability insurance (on an occurrence basis), workers' compensation insurance as required by law, and any other coverage reasonably required by the LANDLORD. All such insurance shall name the City of Villa Rica, its officers, officials, employees, and agents as additional insureds on a primary and non-contributory basis. Prior to commencement of any work, TENANT shall provide the LANDLORD with certificates of insurance (and endorsements, if requested) evidencing compliance with the requirements of this Section. TENANT shall be responsible for ensuring that its contractors and subcontractors maintain such insurance at all times during the performance of the work.

ARTICLE X. MISCELLANEOUS

A. The waiver by LANDLORD, or by TENANT, of any breach of any provision contained in this rental agreement shall not be deemed to be a waiver of such provision on any subsequent breach of the same or any other provision contained in this rental agreement.

B. Should any provision or portion of any provision of this rental agreement be held invalid by a Court of competent jurisdiction, the remainder of this rental agreement or the remainder of such provision shall not be affected thereby.

C. This rental agreement embodies and sets forth all the provisions and understanding between the parties relative to the premises. There are no provisions, understandings, representations or inducements, either oral or written, between the parties other than those hereinabove set forth. If it further understood and agreed that no subsequent alteration, amendment, modification, change or addition to this rental agreement shall be binding the parties hereto unless the same is reduced to writing and signed, sealed and delivered by parties to this

rental agreement.

IN WITNESS WHEREOF, LANDLORD and TENANT have hereunto executed, signed, and delivered this rental agreement in duplicate the day, month, and year first above written, each of the said parties keeping one of the copies hereof.

SIGNED, SEALED, AND DELIVERED in the presence of:

[The Following Page is a Signature Page]

LANDLORD: CITY OF VILLA RICA
BY:

Leslie McPherson, Mayor
City of Villa Rica

(SEAL)
ATTEST:

Unofficial Witness

Theresa Campbell, Clerk

Notary Public

TENANT: VILLA RICA MILITARY VETERANS
ASSOCIATION
BY:

Villa Rica Military Veterans Association

Title

Notary Public

Parcel Line Table		
Line #	Length	Direction
L3	4.81'	N79° 07' 07"E
L4	24.39'	N46° 46' 27"E
L5	2.90'	S42° 24' 00"W
L6	6.54'	N63° 39' 58"W
L7	44.44'	N42° 35' 24"W
L8	1.42'	S45° 42' 54"W
L9	1.37'	S45° 49' 31"W

Parcel Line Table		
Line #	Length	Direction
L10	6.49'	S56° 08' 10"W
L11	12.74'	N43° 08' 12"W
L12	35.71'	N42° 29' 30"W
L13	9.04'	N44° 45' 08"E

Curve Table				
Curve #	Length	Radius	Chord Direction	Chord Length
C1	2.26'	11.84'	S67° 24' 41"W	2.26'

Legal Description

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING LOCATED IN LAND LOT 161 OF THE 6TH DISTRICT, CITY OF VILLA RICA, CARROLL COUNTY, GEORGIA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS. TO REACH THE POINT OF BEGINNING COMMENCE AT THE INTERSECTION OF THE EAST RIGHT-OF-WAY OF THE NORTHFOLK SOUTHERN RAILROAD AND THE SOUTH RIGHT-OF-WAY OF NORTH CARROLL ROAD; FROM SAID POINT OF COMMENCEMENT THENCE RUNNING S 53°03'33" E FOR A DISTANCE OF 121.19' TO A POINT LOCATED AT A 90-DEGREE BEND IN THE BACK OF THE SIDEWALK ALONG EAST TEMPLE STREET, AND BEING THE TRUE POINT OF BEGINNING; FROM SAID POINT OF BEGINNING THENCE RUNNING ALONG THE EDGE OF SAID SIDEWALK N 44°45'08" E FOR A DISTANCE OF 33.53' TO A POINT; THENCE CONTINUING ALONG SAID SIDEWALK N 79°07'07" E FOR A DISTANCE OF 4.81' TO A POINT; THENCE LEAVING SAID SIDEWALK S 41°20'02" E FOR A DISTANCE OF 24.18' TO A POINT ON THE BACK OF THE SIDEWALK ADJOINING THE CITY PARKING LOT; THENCE RUNNING ALONG SAID SIDEWALK N 46°46'27" E FOR A DISTANCE OF 24.39' TO A POINT; THENCE LEAVING SAID SIDEWALK AND RUNNING ALONG THE CURB LINE S 43°22'13" E FOR A DISTANCE OF 24.37' TO A POINT IN THE GUTTER; THENCE RUNNING S 46°21'06" W FOR A DISTANCE OF 56.55' TO A POINT ON THE BACK OF CURB; THENCE RUNNING ALONG SAID CURB LINE S 42°24'00" W FOR A DISTANCE OF 2.90' TO A POINT ON THE BACK OF THE SIDEWALK ALONG THE NORTH SIDE OF EAST TEMPLE STREET; THENCE RUNNING ALONG SAID SIDEWALK NORTH 63°39'58" WEST A DISTANCE OF 6.54 FEET TO A POINT; THENCE CONTINUING ALONG SAID SIDEWALK N 42°35'24" W FOR A DISTANCE OF 44.44' TO THE POINT OF BEGINNING. SAID TRACT CONTAINS 2,483 SQUARE FEET, MORE OR LESS, AS SHOWN ON A SURVEY PREPARED BY GEORGIA AND WEST, INC., DATED SEPTEMBER 17, 2025, LAST REVISED ON SEPTEMBER 25, 2025.

RESERVED FOR CLERK OF COURT

LEGEND

- 101 HOUSE NUMBER
- 10 LOT NUMBER
- PROPERTY CORNER
- PROPERTY LINE
- IPF IRON PIN FOUND (1/2" REBAR UNLESS NOTED)
- IPP IRON PIN PLACED (1/2" REBAR)
- OTP OPEN TOP PIPE
- CTP CRIMPED TOP PIPE
- R/W RIGHT OF WAY
- RIGHT OF WAY
- R/W MONUMENT
- LAND LOT NUMBER
- LAND LOT LINE
- LAND LOT LINE
- E.O.P. EDGE OF PAVEMENT
- X- FENCE LINE
- ☆ LAMP POLE
- UTILITY POLE
- PP POWER POLE
- LP LAMP POLE
- P- OVERHEAD POWER
- P.I. POINT OF INTERSECTION

LEGEND

- ACCESS EASEMENT

- NOTES:
- BEING A PORTION OF TAX PARCEL V01 0040004
 - LAST DAY OF FIELDWORK: 09/12/2025
 - DEED REFERENCE: D.B. 3594 PG. 304
 - SITE AREA: 2,483 S.F.

ACCESS EASEMENT LEGAL DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING LOCATED IN LAND LOT 161 OF THE 6TH DISTRICT, CITY OF VILLA RICA, CARROLL COUNTY, GEORGIA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS. TO REACH THE POINT OF BEGINNING COMMENCE AT THE INTERSECTION OF THE EAST RIGHT-OF-WAY OF THE NORTHFOLK SOUTHERN RAILROAD AND THE SOUTH RIGHT-OF-WAY OF NORTH CARROLL ROAD. FROM SAID POINT OF COMMENCEMENT THENCE RUNNING S 53°03'33" E FOR A DISTANCE OF 121.19' TO A POINT LOCATED AT A 90-DEGREE BEND IN THE BACK OF THE SIDEWALK ALONG EAST TEMPLE STREET AND BEING THE TRUE POINT OF BEGINNING. FROM SAID POINT OF BEGINNING THENCE ALONG THE BACK OF THE SIDEWALK S 42°35'24" E FOR A DISTANCE OF 44.44' TO A POINT; THENCE CONTINUING ALONG SAID SIDEWALK S 63°39'58" E FOR A DISTANCE OF 6.54' TO A POINT ON THE BACK OF THE CURB; THENCE RUNNING ALONG SAID CURB S 45°42'54" W FOR A DISTANCE OF 1.42' TO A POINT; THENCE CONTINUE RUNNING ALONG SAID CURB S 45°49'31" W FOR A DISTANCE OF 1.37' TO A POINT; THENCE CONTINUE RUNNING ALONG SAID CURB S 56°08'10" W FOR A DISTANCE OF 6.49' TO A POINT; THEN CONTINUE RUNNING ALONG SAID CURB AND WITH A CURVE TO THE RIGHT, HAVING AN ARC LENGTH OF 2.26', A RADIUS OF 11.84', AND A CHORD BEARING OF S 67°24'41" W WITH A CHORD LENGTH OF 2.26', TO A POINT; THENCE LEAVING SAID CURB RUNNING ALONG THE NORTH RIGHT-OF-WAY OF EAST TEMPLE STREET N 43°08'12" W FOR A DISTANCE OF 12.74' TO A POINT; THENCE CONTINUING ALONG SAID RIGHT-OF-WAY OF EAST TEMPLE STREET N 42°29'30" W FOR A DISTANCE OF 35.71' TO A POINT; THENCE LEAVING SAID RIGHT OF WAY RUNNING N 44°45'08" E A DISTANCE OF 9.04 FEET TO THE POINT OF BEGINNING. EASEMENT IS SHOWN AS "ACCESS EASEMENT" ON A SURVEY PREPARED BY GEORGIA AND WEST, INC., DATED SEPTEMBER 17, 2025, LAST REVISED ON SEPTEMBER 25, 2025.

CLOSURE

THE FIELD DATA UPON THIS MAP OR PLAT IS BASED HAS A CLOSURE PRECISION OF ONE FOOT IN 10,000 FEET AND AN ANGULAR ERROR OF 10" PER ANGLE POINT, AND WAS ADJUSTED USING LEAST SQUARE RULE.

TOPCON 233 WAS USED TO OBTAIN THE LINEAR AND ANGULAR MEASUREMENTS USED IN THE PREPARATION OF THIS PLAT.

THIS MAP OR PLAT HAS BEEN CALCULATED FOR CLOSURE AND IS FOUND TO BE ACCURATE WITHIN ONE FOOT IN 300,000 FEET.

GENERAL NOTES

1. NO TITLE OR ABSTRACT RESEARCH WAS PERFORMED BY THE UNDERSIGNED FOR THIS SURVEY.

2. **WARNING:** THIS PLAT OF SURVEY MAKES NO WARRANTY OR GUARANTEE AS TO THE EXISTENCE OF ANY EASEMENTS OR RIGHTS OF WAY OF ANY TYPE NO ABSTRACT OR TITLE SEARCH WAS PERFORMED TO DISCOVER THE EXISTENCE OF ANY EASEMENTS OR RIGHTS OF WAY.

3. NO WARRANTY OR GUARANTEE AS TO THE EXISTENCE OR LOCATION OF UNDERGROUND STRUCTURES IS IMPLIED, ONLY THOSE ITEMS SHOWN.

4. NO WARRANTY OR GUARANTEE AS TO ENVIRONMENTAL ISSUES HAS BEEN IMPLIED, ONLY THOSE ITEMS SHOWN HEREON HAVE BEEN ADDRESSED.

5. ONLY ACTS OF POSSESSION, IF ANY, THAT ARE VISIBLE FROM CASUAL INSPECTION OF THE PROPERTY ARE SHOWN HEREON. NO WARRANTY OR GUARANTEE IS IMPLIED AS TO THE EXISTENCE OF ACTS OF POSSESSION BY ADJOINERS TO THE LANDS SHOWN AND DESCRIBED HEREON.

6. THE ACCEPTANCE OF THE PLAT HEREON AND MONUMENTS USED AND SET DURING THE PERFORMANCE OF THE FIELD SURVEY HEREBY LIMIT THE TORT OR CONTRACT HERETO TO AN AMOUNT NOT TO EXCEED THE FEE CHARGED. IF ADDITIONAL LIABILITY IS REQUIRED BY THE CLIENT, THEN AN AMOUNT OF 1% OF THE TOTAL LIABILITY REQUEST MUST BE PAID TO THE UNDERSTOOD PRIOR TO COMMENCEMENT OF WORK.

7. NO WARRANTY OR GUARANTEE AS TO COUNTY OR CITY ORDINANCE ISSUES, TO INCLUDE SET BACKS, HAS BEEN IMPLIED. ONLY THOSE ITEMS SHOWN HAVE BEEN ADDRESSED.

GRAPHIC SCALE



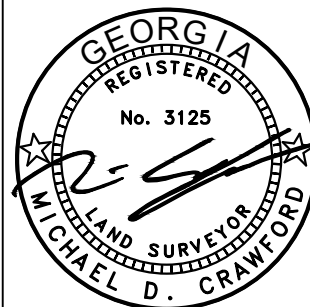
(IN FEET)
1 inch = 10 ft.

GEORGIA & WEST, INC.
ENGINEERING • LAND SURVEYING • LAND PLANNING

105 CORPORATE DRIVE
CARROLLTON, GA. 30117

OFFICE (770) 834-4694
FAX (770) 834-1005

E-MAIL: mailbox@georgiaandwest.com



SURVEYORS CERTIFICATION

AS REQUIRED BY SUBSECTION (D) OF O.C.G.A. SECTION 15-6-67, THIS PLAT HAS BEEN PREPARED BY A LAND SURVEYOR AND APPROVED BY ALL APPLICABLE LOCAL JURISDICTIONS FOR RECORDING AS EVIDENCED BY APPROVAL FOR CERTIFICATES, SIGNATURES, STAMPS, OR STATEMENTS HERON. SUCH APPROVALS OR AFFIRMATIONS SHOULD BE CONFIRMED WITH THE APPROPRIATE GOVERNMENTAL BODIES BY ANY PURCHASER OR USER OF THIS PLAT AS TO INTENDED USE OF ANY PARCEL. FURTHERMORE, THE UNDERSIGNED LAND SURVEYOR CERTIFIES THAT THIS PLAT COMPLIES WITH THE MINIMUM TECHNICAL STANDARDS FOR PROPERTY SURVEYS IN GEORGIA AS SET FORTH IN THE RULES AND REGULATIONS OF THE GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND AS SET FOR IN O.C.G.A. SECTION 15-6-67.

GA. REG. L.S. #125 MICHAEL D. CRAWFORD

BOUNDARY SURVEY PARCEL SPLIT FOR:
CITY OF VILLA RICA

LOCATED IN LAND LOT 161 DISTRICT 06
CITY OF VILLA RICA, CARROLL COUNTY, GEORGIA
SCALE: 1" = 10' DATE: 09/17/2025
CHECKED BY: REVISED: 09/25/2025

JN250818
3-25-111



CITY OF VILLA RICA

City Council Meeting Agenda Item Cover Sheet

SUBJECT: Georgia Power Lighting Agreement – SR8 From Rocky Branch Rd to SR61 (PI#0016466)
AGENDA DATE: 10/07/2025

DATE PREPARED: 09/30/2025

PREPARED BY: Jennifer Hallman, Interim City Manager / CFO

AMOUNT: \$900/month

GL ACCOUNT #: 100-4210-531231

FUNDING SOURCE: General Fund

BUDGETED ITEM? Include in future budgets after project completion

PURPOSE: Georgia Power requires a lighting agreement for project PI# 0016466. Per GDOT, “This project proposes to install a single lane roundabout at the intersection of CS 919/Rocky Branch Road/CS 804/Villa Trace and US 78/SR 8/West Bankhead Highway and replace an existing traffic signal with a multi-lane roundabout at the intersection of SR 61/SR 101/Industrial Boulevard and US 78/SR 8/West Bankhead Highway. We anticipate construction to start, possibly in July 2027. The construction timeframe is approximately 2 years, so it is expected to be completed around the summer of 2029. Please note that this timeline could change due to multiple factors, so these dates are not concrete.”

Per Mark Teal - City Engineer, based on a conversation with Mike McCowan (Georgia Power) we will have approximately 36 streetlights. The estimated monthly cost will be \$25/light (\$20 for maintenance from GA Power and \$5 for the power bill). Both the number of light poles and the \$5/month are conservatively estimated. This totals \$900/month.

STAFF RECOMMENDATION: Approve the Georgia Power lighting agreement for PI# 0016466.

MOTION: I move to approve the Georgia Power lighting agreement for project PI# 0016466 and the Mayor and/or City Manager to sign all related documents.

INTERGOVERNMENTAL LIGHTING AGREEMENT

BETWEEN

GEORGIA DEPARTMENT OF TRANSPORTATION

AND

CITY OF VILLA RICA

THIS AGREEMENT is made and entered into this _____ day of _____, 20__, (“Effective Date”) by and between the **GEORGIA DEPARTMENT OF TRANSPORTATION**, an agency of the State of Georgia, hereinafter called the **DEPARTMENT**, and the **CITY OF VILLA RICA, GEORGIA** acting by and through its City Council, hereinafter called the **CITY** (the **DEPARTMENT** and the **CITY** are sometimes referred to herein individually as a “Party” and collectively as the “Parties”).

WHEREAS, the **CITY** has represented to the **DEPARTMENT** a desire to obtain roundabout lighting as part of the **SR 8 FROM ROCKY BRANCH ROAD TO SR 61** project, said lighting to be installed under P.I. No. 0016466, Carroll County;

WHEREAS, the **CITY** has represented to the **DEPARTMENT** a desire to participate in: 1) Providing the Energy and 2) the Operation and Maintenance of said lighting system at the aforesaid location, and the **DEPARTMENT** has relied upon such representation; and

WHEREAS, the **DEPARTMENT** has indicated a willingness to fund the materials and installation for the said lighting system at the aforesaid location, with funds of the **DEPARTMENT**, funds apportioned to the **DEPARTMENT** by the Federal Highway Administration under Title 23, United States Code, Section 104, or a combination of funds from any of the above sources.

NOW, THEREFORE, in consideration of the mutual promises made and of the benefits to flow from one to the other, the **DEPARTMENT** and the **CITY** hereby agree each with the other as follows:

ARTICLE I **INSTALLATION**

The **DEPARTMENT** or its assigns shall cause the installation of all materials and equipment necessary for roundabout lighting as part of the **SR 8 FROM ROCKY BRANCH ROAD TO SR 61** project, said lighting to be installed under P.I. No. 0016466, Carroll County as shown on Attachment "A" attached hereto and made a part hereof.

ARTICLE II **CITY'S RESPONSIBILITIES**

1. Upon completion of installation of said lighting system, and acceptance by the **DEPARTMENT**, the **CITY** shall assume full responsibility and costs for the operation, the repair and the maintenance of the entire lighting system, including but not limited to repairs of any damages, replacement of lamps, ballasts, luminaires, lighting structures, associated equipment, conduit, wiring and service equipment, and the requirements of the Georgia Utility Facility Protection Act. The **CITY** further agrees to provide and pay for all the energy required for the operation of said lighting system.

2. It is understood by the **CITY** that the **DEPARTMENT** has relied upon the **CITY'S** representation of providing for the energy, maintenance, and operation of the lighting represented by this Agreement; therefore, if the **CITY** elects to de-energize or fails to properly maintain or to repair the lighting system during the term of this Agreement, the **CITY** shall reimburse the **DEPARTMENT** the materials cost for the lighting system. If the **CITY** elects to de-energize or fails to properly maintain any individual unit within the lighting system, the **CITY** shall reimburse the **DEPARTMENT** for the replacement cost for the individual unit which will include all costs for the pole, luminaires, foundations, and associated wiring. The **DEPARTMENT** will provide the **CITY** with a statement of material and/or replacement costs upon completion of the installation.

ARTICLE III **DEPARTMENT'S OWNERSHIP**

The **DEPARTMENT** shall retain ownership of all materials and various components of the entire lighting system. The **CITY**, in its operation and maintenance of the lighting system, shall not in any way alter the type or location of any of the various components which make up the entire lighting system without prior written approval from the **DEPARTMENT**.

ARTICLE IV **TERM OF AGREEMENT**

This Agreement is considered as continuing for a period of fifty (50) years from the date of execution of this Agreement. The **DEPARTMENT** reserves the right to terminate this Agreement, at any time for just cause, upon thirty (30) days written notice to the **CITY**.

ARTICLE V
RIGHT OF ENTRY

The **CITY** will be permitted to access the **DEPARTMENT'S** Right of Way in order to perform its responsibilities under **ARTICLE II, PARAGRAPH 1**, of this Agreement.

ARTICLE VI
INDEMNIFICATION

To the extent allowed by law, the **CITY** and all its successors and assigns, shall release and save harmless the **DEPARTMENT**, past, present and future board members, commissioners, officers, employees, agents, attorneys, affiliates, privies, successors, and assigns, and the State of Georgia, its political subdivisions, departments, agencies, commissions, affiliates, employees, agents, and attorneys from all suits, claims, actions or damages of any nature whatsoever resulting from the **CITY'S** access to **DEPARTMENT'S** Right of Way.

ARTICLE VII
MISCELLANEOUS

1. **NON-WAIVER.** No failure of either Party to exercise any right or power given to such Party under this Agreement, or to insist upon strict compliance by the other Party with the provisions of this Agreement, and no custom or practice of either Party at variance with the terms and conditions of this Agreement, will constitute a waiver of either Party's right to demand exact and strict compliance by the other Party with the terms and conditions of this Agreement.
2. **NO THIRD-PARTY BENEFICIARIES.** Nothing contained herein shall be construed as conferring upon or giving to any person, other than the Parties hereto, any rights or benefits under or by reason of this Agreement.
3. **SOVEREIGN IMMUNITY.** Notwithstanding any other provision of this Agreement to the contrary, no term or condition of this Agreement shall be construed or interpreted as a waiver, express or implied, of any of the immunities, rights, benefits, protection, or other provisions under the Georgia Constitution.
4. **CONTINUITY.** Each of the provisions of this Agreement will be binding upon and inure to the benefit and detriment of the Parties and the successors and assigns of the Parties.

5. **WHEREAS CLAUSE AND EXHIBITS.** The Whereas Clauses and Exhibits hereto are a part of this Agreement and are incorporated herein by reference.
6. **SEVERABILITY.** If any one or more of the provisions contained herein are for any reason held by any court of competent jurisdiction to be invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability will not affect any other provision hereof, and this Agreement will be construed as if such invalid, illegal or unenforceable provision had never been contained herein.
7. **CAPTIONS.** The brief headings or titles preceding each provision hereof are for purposes of identification and convenience only and should be completely disregarded in construing this Agreement.
8. **INTERPRETATION.** Should any provision of this Agreement require judicial interpretation, it is agreed that the court interpreting or construing the same shall not apply a presumption that the terms hereof shall be more strictly construed against one Party by reason of the rule of construction that a document is to be construed more strictly against the Party who itself or through its agent prepared the same, it being agreed that the agents of all Parties have participated in the preparation hereof.
9. **ENTIRE AGREEMENT.** This Agreement supersedes all prior negotiations, discussion, statements and agreements between the Parties and constitutes the full, complete and entire agreement between the Parties with respect hereto; no member, officer, employee or agent of either Party has authority to make, or has made, any statement, agreement, representation or contemporaneous agreement, oral or written, in connection herewith, amending, supplementing, modifying, adding to, deleting from, or changing the terms and conditions of this Agreement. No modification of or amendment to this Agreement will be binding on either Party hereto unless such modification or amendment will be properly authorized, in writing, properly signed by both Parties and incorporated in and by reference made a part hereof.

The covenants herein contained shall, except as otherwise provided accrue to the benefit of and be binding upon the successors and assigns of the parties hereto.

IN WITNESS WHEREOF, the parties hereto have made and executed this Agreement the day
and year first above written.

**GEORGIA DEPARTMENT
OF TRANSPORTATION**

CITY OF VILLA RICA

Commissioner

(SEAL)

Print Name: _____
Title: _____

(SEAL)

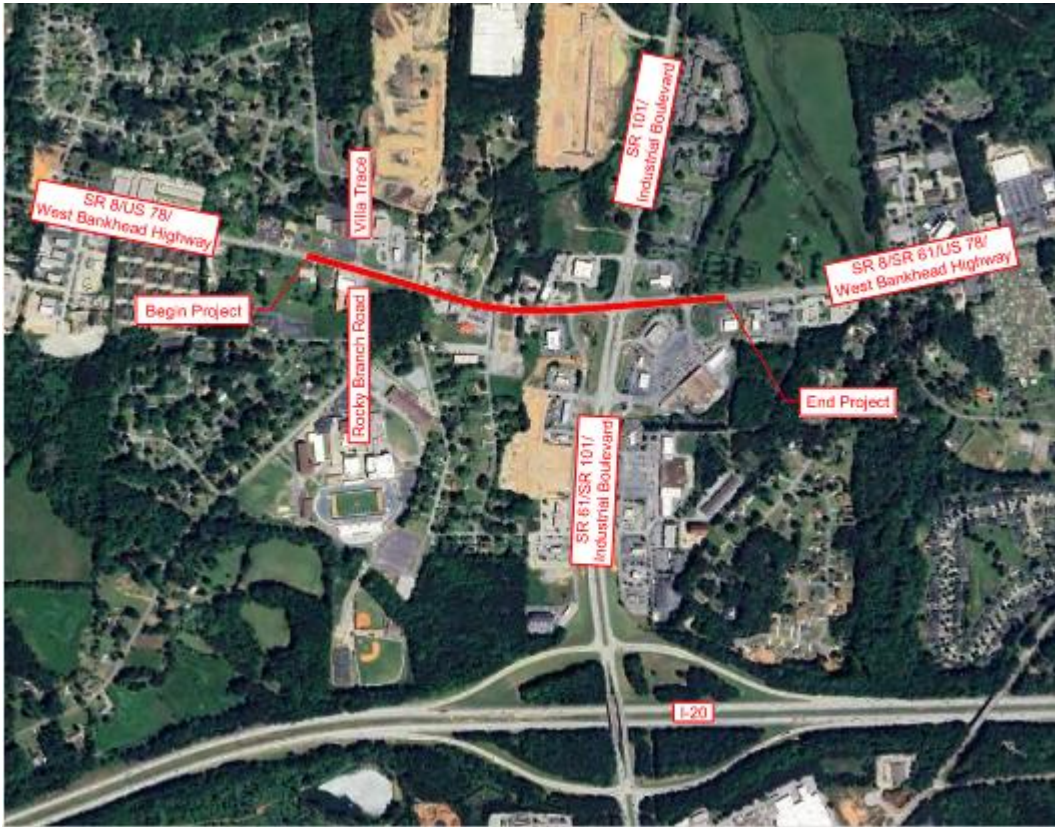
ATTEST:

ATTEST:

Treasurer

Print Name: _____
Title: _____

Attachment “A”



Project Location Map

**SR 8 from Rocky Branch Road to SR 61
Carroll County
P.I. No. 0016466**

**CERTIFICATION OF COMPLIANCE WITH
ANNUAL IMMIGRATION REPORTING REQUIREMENTS/
NO SANCTUARY POLICY/FEDERAL LAW ENFORCEMENT COOPERATION**

By executing this document, the undersigned duly authorized representative of the Local Governing Body, certifies that the Local Governing Authority:

- 1) has filed a compliant Annual Immigration Compliance Report with the Georgia Department of Audits & Accounts ("GDA&A") for the preceding calendar year required by O.C.G.A. § 50-36-4(b), or has been issued a written exemption from GDA&A from doing so;
- 2) has not enacted a "Sanctuary Policy" in violation of O.C.G.A. § 36-80-23(b); and,
- 3) is in compliance with O.C.G.A. §§ 35-1-17 *et seq.* regarding its obligation to cooperate with federal immigration enforcement authorities to deter the presence of criminal illegal aliens.

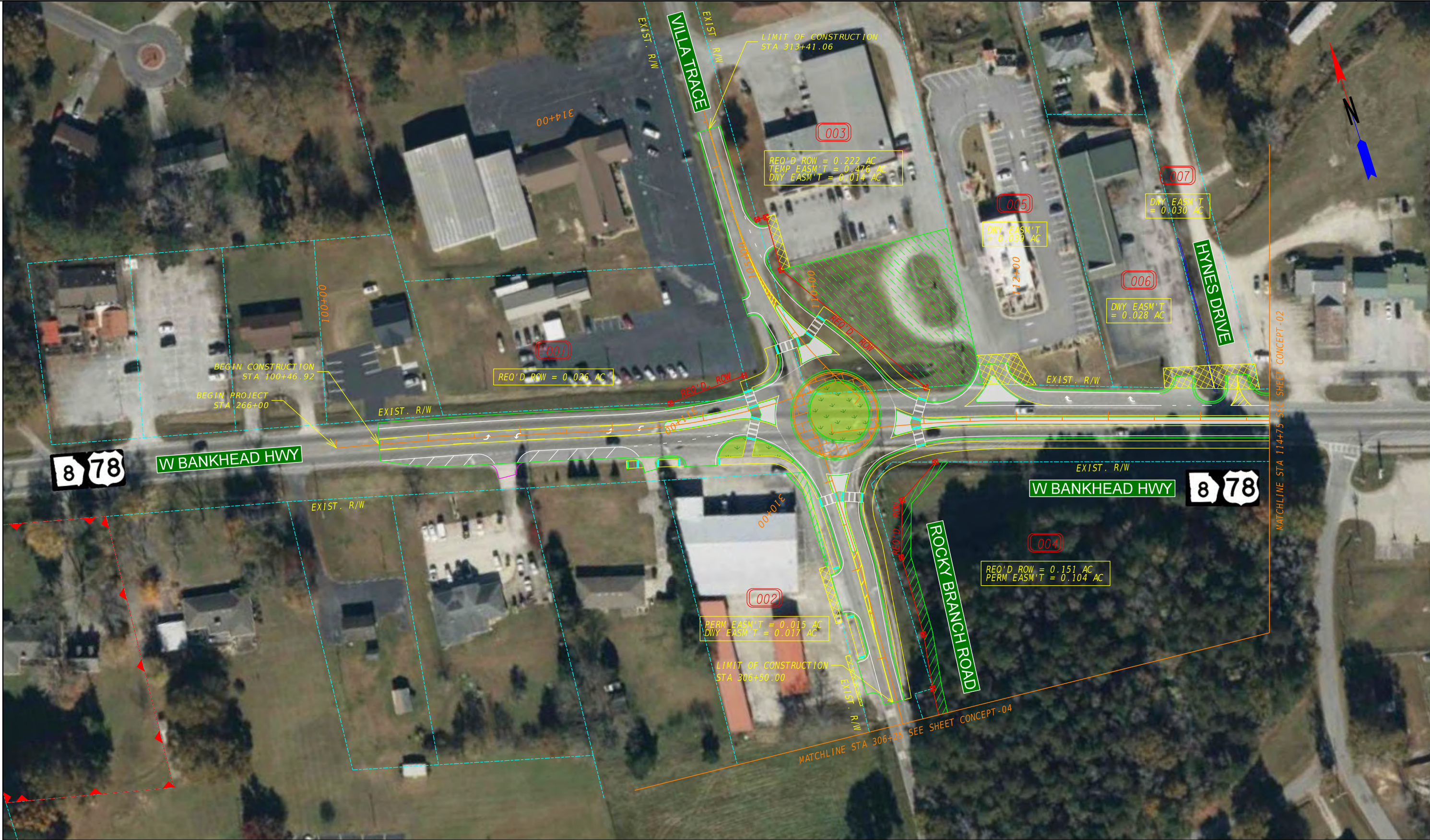
As an ongoing condition to receiving funding from the Georgia Department of Transportation, the Local Governing Body shall continue to remain fully compliant with O.C.G.A. §§ 50-36-4, 36-80-23 and 35-1-17 *et seq.* for the duration of time the subject agreement is in effect.

Signature of Authorized Officer or Agent

Printed Name of Authorized Officer or Agent

Title of Authorized Officer or Agent

Date





EXISTING R/W & PROPERTY LINE

REQUIRED R/W LINE

EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTR OF DRIVES

WETLANDS AND STREAMS DELINEATION

HISTORIC / ENVIRONMENT RESOURCE BOUNDARY

GDOT

Georgia Department of Transportation

Stantec

SCALE IN FEET

0

50

100

200

REVISION DATES

CONCEPTUAL LAYOUT

SR 8 FROM ROCKY BRANCH RD TO SR 61

CHECKED:

BACKCHECKED:

CORRECTED:

VERIFIED:

DATE:

DATE:

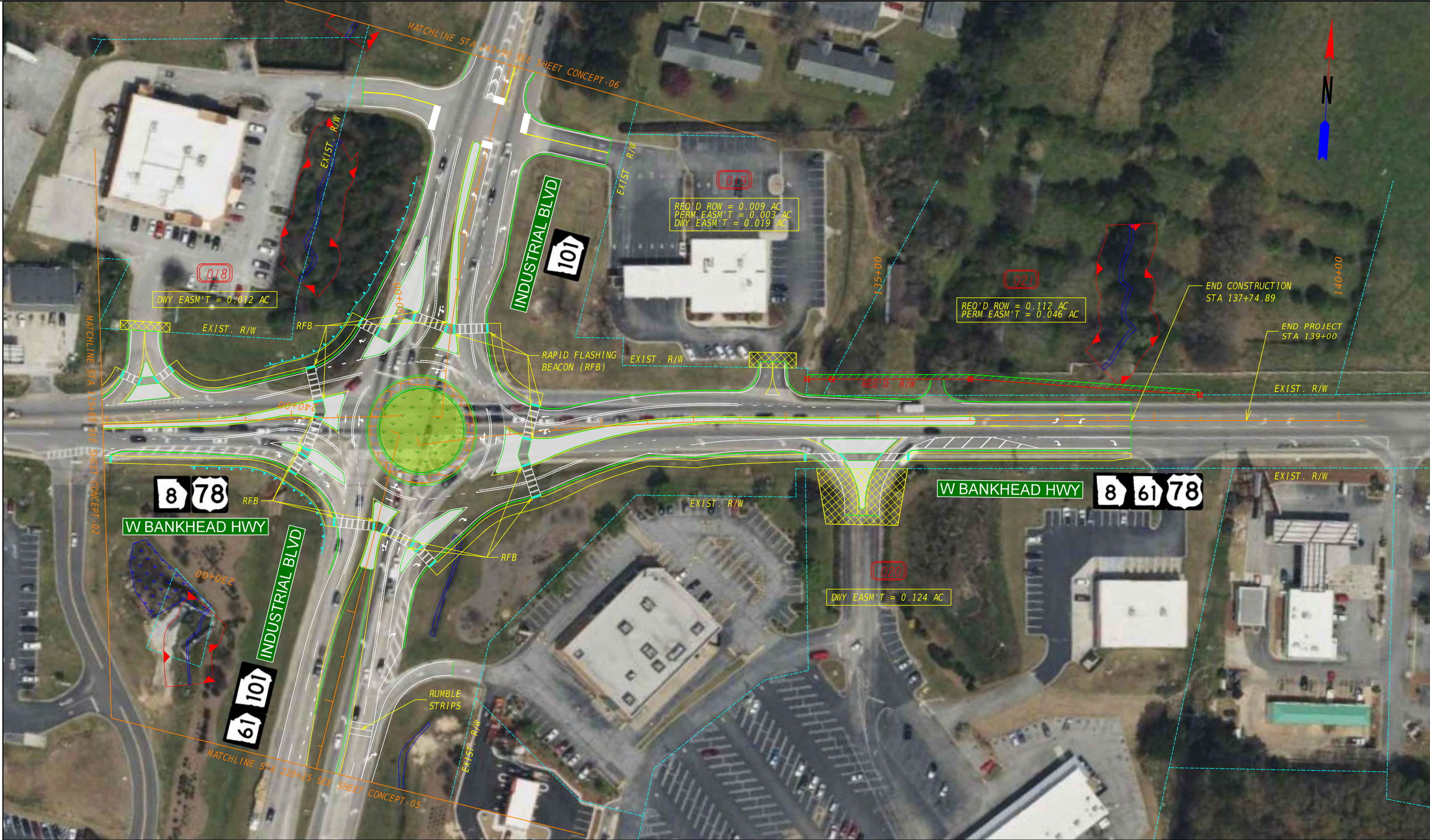
DATE:

DATE:

DRAWING No.

CONCEPT-02

GPLN-CE
11/05/2020



EXISTING R/W & PROPERTY LINE

REQUIRED R/W LINE

EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTR OF DRIVES

WETLANDS AND STREAMS DELINEATION

HISTORIC / ENVIRONMENT RESOURCE BOUNDARY

GDOT

Georgia Department of Transportation

Stantec

SCALE IN FEET

0

50

100

200

REVISION DATES

CONCEPTUAL LAYOUT

SR 8 FROM ROCKY BRANCH RD TO SR 61

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BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

CONCEPT-03



EXISTING R/W & PROPERTY LINE

REQUIRED R/W LINE

EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTR OF DRIVES

WETLANDS AND STREAMS DELINEATION

HISTORIC / ENVIRONMENT RESOURCE BOUNDARY

GDOT

Georgia Department of Transportation

Stantec

SCALE IN FEET

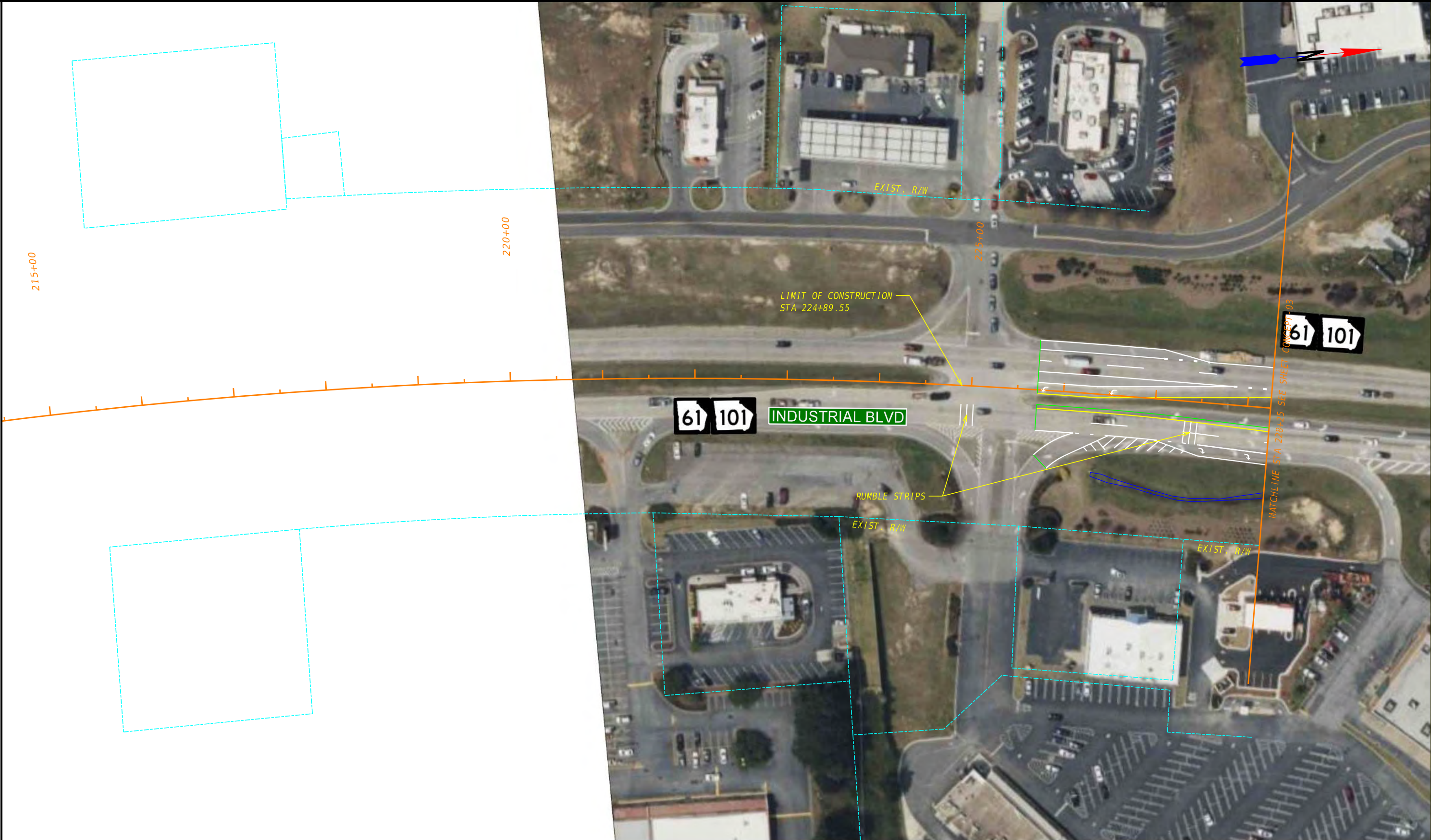
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REVISION DATES		

CONCEPTUAL LAYOUT

SR 8 FROM ROCKY BRANCH RD TO SR 61

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BACKCHECKED:		DATE:		CONCEPT-04
CORRECTED:		DATE:		
VERIFIED:		DATE:		



EXISTING R/W & PROPERTY LINE

REQUIRED R/W LINE

EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTR OF DRIVES

WETLANDS AND STREAMS DELINEATION

HISTORIC / ENVIRONMENT RESOURCE BOUNDARY

Georgia Department of Transportation

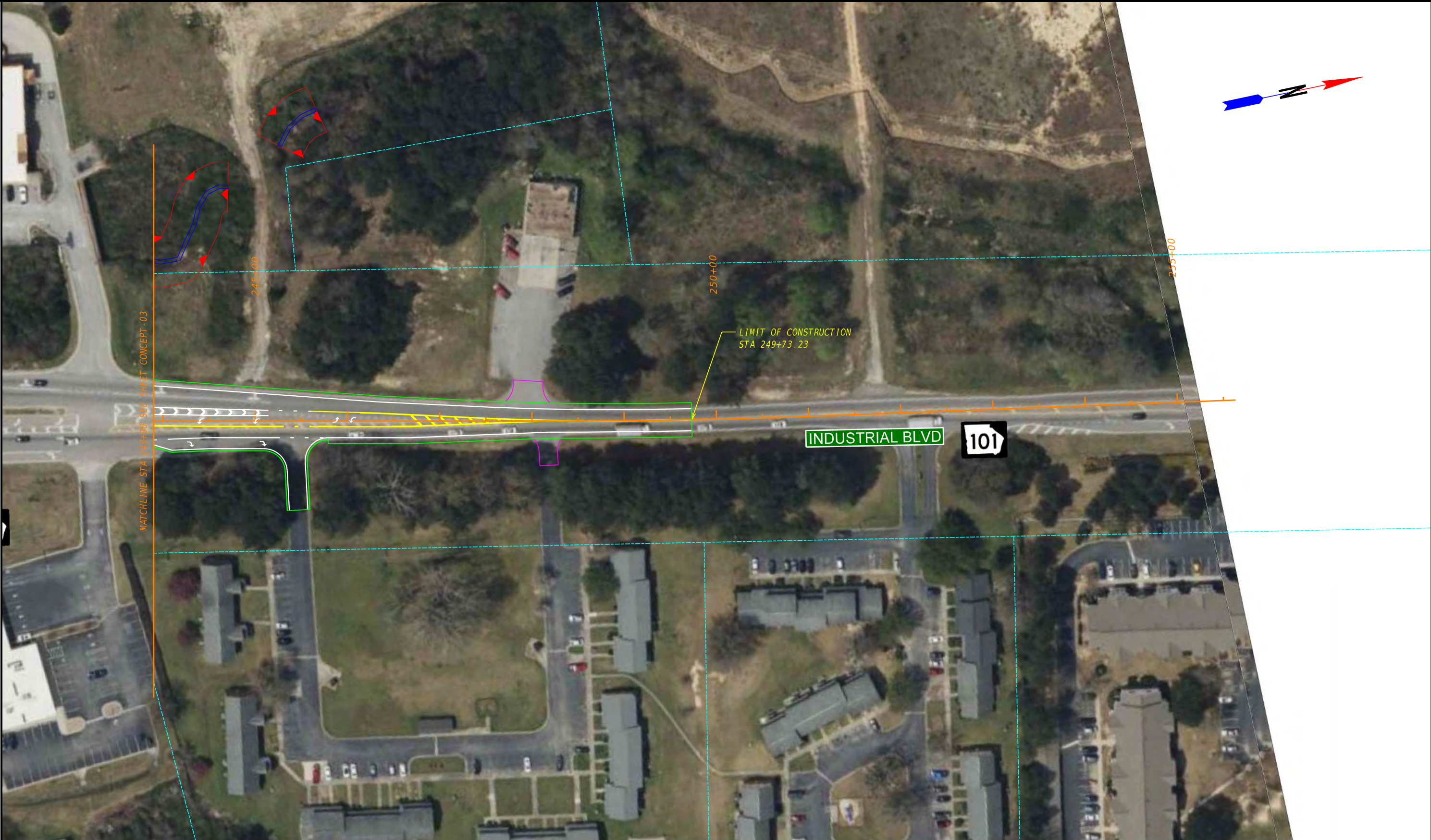
SCALE IN FEET

REVISION DATES		

CONCEPTUAL LAYOUT

SR 8 FROM ROCKY BRANCH RD TO SR 61

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BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		



EXISTING R/W & PROPERTY LINE

REQUIRED R/W LINE

EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTR OF DRIVES

WETLANDS AND STREAMS DELINEATION

HISTORIC / ENVIRONMENT RESOURCE BOUNDARY

Georgia Department of Transportation

SCALE IN FEET

REVISION DATES		

CONCEPTUAL LAYOUT

SR 8 FROM ROCKY BRANCH RD TO SR 61

CHECKED:		DATE:		DRAWING No.:
BACKCHECKED:		DATE:		CONCEPT-06
CORRECTED:		DATE:		
VERIFIED:		DATE:		



CITY OF VILLA RICA

City Council Meeting Agenda Item Cover Sheet

SUBJECT: Georgia Power Lighting Agreement – New Area Lights on W Bankhead Hwy, W Wilson St, Candler St, Westview St & Upgrade 3 lights from HID to LED 3 in Alleys between S Carroll Rd and Westview Dr

AGENDA DATE: 10/07/2025

DATE PREPARED: 10/02/2025

PREPARED BY: Jennifer Hallman, Interim City Manager / CFO

AMOUNT: \$24,600

GL ACCOUNT #: 335-4210-541405

FUNDING SOURCE: General Fund

BUDGETED No, but using a portion of the remaining LMIG Supplemental Funds that is undesignated

PURPOSE: With the assistance of the City Engineer, we requested Georgia Power to provide an estimate for additional lighting in a section of downtown due to very low lighting at night (see map).

STAFF RECOMMENDATION: Approve the Georgia Power lighting agreement.

MOTION: I move to approve the Georgia Power lighting agreement for new area lights on W Bankhead Hwy, W Wilson St, Candler St, Westview St & upgrade 3 lights from HID to LED 3 in alleys between S Carroll Rd and Westview Dr and the Mayor and/or City Manager to sign all related documents.



Lighting Services Agreement



Project # LP116312

Customer Legal Name VILLA RICA CITY OF DBA _____

Service Address 117 W Wilson St Villa Rica GA 30180 County Carroll County

Mailing Address 571 W BANKHEAD HWY VILLA RICA GA 30180

Email teale2.consulting@gmail.com Tel # 770-378-2408 Alt Tel # _____

Tax ID# 0691 Business Description City Government

Existing Customer Yes ☒ No ☐ If Yes (and if possible), does customer want the Service added to an existing account? Yes ☒ No ☐ If Yes, which Account Number? 94262-05011

Selected Components				
Action	Qty	Wattage	Type	Description
INS	20	120	LED	Area

Service Cost (\$)	Regulated Cost (\$)*	Monthly Cost (\$)*	Term (Months)	1
\$444.40	\$115.60	\$560.00		

* The actual Regulated Cost will be calculated using the tariffs approved by Georgia Public Service Commission at the time of billing. The estimate is based on Summer Rates in effect at the time of this proposal. Excludes applicable sales tax.

Project Notes:
New Area Lights on W Bankhead Hwy, W Wilson St, Candler St, Westview St

Customer agrees to this Lighting Services Agreement with Georgia Power Company under the attached terms and conditions and authorizes all actions noted on this agreement.

Customer also agrees to allow removal of existing lights. Yes ☐ N/A ☒

Type	Customer	Tariff	Content	Pre-Payment (\$)
NESC	Gov	EOL	NLC	\$24,600.00

Customer recognizes that the individual signing this Agreement on its behalf has authority to do so.

Customer Authorization	Georgia Power Authorization
Signature _____	Signature _____
Print Name _____	Print Name <u>Michael McCowen</u>
Print Title _____	Print Title <u>Account Executive</u>
Date _____	Date _____

TERMS and CONDITIONS (*Lighting – Governmental Service*)

1. **Agreement Scope.** This Lighting Services Agreement (“**Agreement**”) establishes the terms and conditions under which Georgia Power Company (“**GPC**”) will provide lighting and related service (collectively, the “**Service**”) to the customer identified on Page 1 (“**Customer**”) at the Service Address shown on Page 1 (the “**Premises**”). GPC may install, update, modify, or replace any GPC-owned pole, base, wiring, conduit, fixture, control, equipment, device, or related item at the Premises (collectively, “**GPC Assets**”) for any reason related to the Service or to use of GPC Assets.
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4. **Payment.** GPC will invoice Customer monthly for the Monthly Cost as described on Page 1. The Service Cost portion of the Monthly Cost will renew at the amount shown on Page 1, but the Regulated Cost portion will be determined by the applicable Georgia Public Service Commission-approved tariff at the time of billing. Customer agrees to pay the total amount billed in full by the invoice due date. If a balance is outstanding past the due date, Customer acknowledges that GPC may require Customer to pay a deposit of up to two times the Estimated Monthly Charge in order to continue Service. If applicable, Customer must provide a copy of its Georgia sales tax exemption certificate. Customer must pay costs associated with any Customer-initiated change to the Service after the date of this Agreement.
5. **Premises Activity.** Customer hereby grants to GPC and its contractors, agents, and representatives the right and license to enter the Premises at any time to perform any activity related to the Service or to GPC’s use of the GPC Assets, including the right to access the Premises with vehicles, GPC Assets, or other tools or equipment, and to survey, dig, or excavate, in order to: (i) install and connect GPC Assets, provide Service, or provide or install any other service; (ii) inspect, maintain, test, replace, repair, disconnect, or remove GPC Assets; (iii) install additional equipment or devices on GPC Assets; or (iv) conduct any other activity reasonably related to the Service or GPC Assets (collectively, “**GPC Activity**”). Customer represents or warrants that it has the right to permit GPC to provide the Service and to perform the GPC Activity upon the Premises and, if applicable, has obtained express written authority and required permission from all Premises owners, and any other person or entity with rights in the Premises, to enter into this Agreement and to authorize the GPC Activity and the Service.
6. **Installation and Underground Work.** Customer recognizes that the Service requires installation of GPC Assets. Customer warrants or covenants that: (i) the Premises’ final grade will vary no more than six inches from the grade existing at the time of installation; and (ii) if applicable and required for proper installation, Premises property lines will be clearly marked before installation.
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 - B. **Underground Facility/Obstruction Not Subject to Dig Law.** Because GPC Activity may require excavation not subject to the Georgia Utility Facility Protection Act (O.C.G.A. §§25-9-1 – 25-9-13) (“**Dig Law**”), **Customer must mark any private utility or facility (e.g., gas/water/sewer line; irrigation facility; fiber/data/communication line) or other underground obstruction at the Premises that is not subject to the Dig Law.** If GPC causes or incurs damage due to Customer’s failure to mark a private facility or obstruction before GPC commences GPC Activity, Customer is responsible for all damages and any loss or damage resulting from any such delay.
 - C. **Unforeseen Condition.** The estimated charges shown on Page 1 include no allowance for subsurface rock, wetland, underground stream, buried waste, unsuitable soil, underground obstruction, archeological artifact, burial ground, threatened or endangered species, hazardous substance, or similar condition (“**Unforeseen Condition**”). If GPC encounters an Unforeseen Condition in connection with any GPC Activity, GPC, in its sole discretion, may stop all GPC Activity until Customer either remedies the condition or agrees to reimburse all GPC costs arising from the condition. Customer is responsible for all costs of modification or change to GPC Assets requested by Customer or dictated by an Unforeseen Condition or circumstance outside GPC’s control.
7. **GPC Asset Protection and Damage.** Throughout the Term, in the event of any work or digging near GPC Assets, Customer (or any person or entity working on Customer’s behalf) must: (i) provide notices and locate requests to the Georgia Utilities Protection Center (“**UPC**”) and other utility owners or operators as required by the then-current Dig Law; (ii) coordinate with the UPC and any utility facility owner/operator as required by the Dig Law; and (iii) comply with the High-voltage Safety Act (O.C.G.A. §§46-3-30 – 46-3-40). As between Customer and GPC, Customer is responsible for any damage arising from failure to comply with applicable law or for damage to GPC Assets caused by anyone other than GPC or a GPC contractor, agent, or representative.
8. **Pole Attachments.** Nothing in this Agreement conveys to Customer any right to attach or affix anything to any GPC Asset. Customer agrees that it will not, and will not permit others to, rearrange, disconnect, remove, relocate, repair, alter, tamper with, or otherwise interfere with any GPC Asset. If Customer desires to attach or affix anything to GPC Assets, Customer must first obtain GPC’s written consent. Customer may call GPC Lighting and Smart Services business unit at 1-888-660-5890 to request consent.
9. **Interruption of Service.** Customer understands that Service is provided on an “as is” and “as available” basis and may be interrupted. If there is a Service interruption, Customer must notify GPC. Following notice, GPC will restore Service, at no cost to Customer. Customer may notify GPC by either calling 1-888-660-5890 or by reporting online at: <https://www.georgiapower.com/community/outages-and-stormcenter/power-outage-overview/street-light-outage.html>.
10. **Disclaimer; Damages.** **GPC makes no covenant, warranty, or representation of any kind (including warranty of fitness for a particular purpose, merchantability, or non-infringement) regarding Service, GPC Assets, or any GPC Activity.** Customer acknowledges that, due to the unique characteristics of the Premises, Customer’s needs, or selection of GPC Assets, the Service may not follow IESNA guidelines. **Customer waives any right to consequential, special, indirect, treble, exemplary, incidental, punitive, loss of business reputation, interruption of Service or loss of use (including loss of revenue, profits, or capital costs) damages in connection with the loss or interruption of Service, GPC Assets, or this Agreement, or arising from damage, hindrance, or delay involving the Service, GPC Assets, or this Agreement, whether or not reasonable, foreseeable, contemplated, or avoidable.** To the extent GPC is liable under this Agreement, and to the extent allowed by applicable law, GPC’s liability is expressly limited to: (i) with respect to the Service purchased by Customer, the annual amount paid by Customer for the Service; or (ii) with respect to any other liability, to proven direct damages in an amount not to exceed \$100.00. Customer is solely responsible for safety of the Premises; Customer agrees that GPC has no obligation to ensure safety of the Premises and that GPC has no liability for any personal injury, real or personal property damage or loss, or negative impact to Customer or any third party that occurs at the Premises.
11. **Risk Allocation.** Each party will be responsible for its own acts and the results of its acts, except as otherwise described in this Agreement.
12. **Georgia Security, Immigration, and Compliance Act.** Customer is a “public employer” as defined by O.C.G.A. § 13-10-91 and this is a contract for physical performance of services in Georgia. Compliance with O.C.G.A. § 13-10-91 is a condition of this Agreement and is mandatory. GPC will provide to Customer a contractor’s affidavit for installation services as required by O.C.G.A. § 13-10-91. If GPC employs any subcontractor in connection with installation under this Agreement, GPC also will secure from each subcontractor an affidavit attesting to compliance with O.C.G.A. § 13-10-91.
13. **Default.** Customer is in default if Customer: (i) does not pay the entire amount owed to GPC within 45 days after the due date; (ii) terminates this Agreement without proper notice and prior to the end of the then-current Term; or (iii) breaches any material term, warranty, covenant, or representation of this Agreement. GPC’s waiver of a past or concurrent default will not waive any other default. If a default occurs, GPC may: (a) immediately terminate this Agreement; (b) remove any GPC Asset from the Premises; or (c) seek any available remedy provided by law, including the right to collect any past due amount, or any amount due for the Service during the remaining Term.
14. **Miscellaneous.** This Agreement contains the parties’ entire agreement relating to the Service, GPC Assets, and GPC Activity and replaces any prior agreement, written or oral. Subject to applicable law, GPC may modify the terms of this Agreement by providing 30 days’ prior written notice of such modification to Customer. If Customer uses the Service or makes any payment for the Service on or after the modification effective date, Customer accepts the modification. GPC’s address for notice is 1790 Montreal Circle, Tucker, GA 30084-6801; Customer’s address for notice is stated on Page 1. Either party may update administrative or contact information (e.g., address, phone, website) at any time by written notice to the other. Customer will not assign, in whole or in part, this Agreement or any right or obligation it has under this Agreement; any such assignment without GPC’s prior written consent will be void and of no effect. In this Agreement: (i) “**include(ing)**” means “include, but are not limited to” or “including, without limitation”; (ii) “**or**” means “either or both” (“A or B” means “A or B or both A and B”); (iii) “**e.g.**” means “for example, including, without limitation”; and (iv) “**written**” or “**in writing**” includes email communication. Georgia law governs this Agreement. If a court rules an Agreement provision unenforceable to any extent, the rest of that provision and all other provisions remain effective.

Lighting Services Agreement



Project # LP116313

Customer Legal Name VILLA RICA CITY OF DBA _____

Service Address 115 W Wilson St Villa Rica GA 30180- County Carroll County

Mailing Address 571 WEST BANKHEAD HWY VILLA RICA GA 30180

Email teale2.consulting@gmail.com Tel # 770-378-2408 Alt Tel # _____

Tax ID# 0691 Business Description City Government

Existing Customer Yes ☒ No ☐ If Yes (and if possible), does customer want the Service added to an existing account? Yes ☐ No ☒ If Yes, which Account Number? _____

Selected Components				
Action	Qty	Wattage	Type	Description
INS	3	70	LED	Area

Service Cost (\$)	Regulated Cost (\$)*	Monthly Cost (\$)*	Term (Months)	1
\$41.67	\$10.08	\$51.75		

* The actual Regulated Cost will be calculated using the tariffs approved by Georgia Public Service Commission at the time of billing. The estimate is based on Summer Rates in effect at the time of this proposal. Excludes applicable sales tax.

Project Notes:
Upgrade 3 lights from HID to LED 3 in Alleys between S Carroll Rd and Westview Dr

Customer agrees to this Lighting Services Agreement with Georgia Power Company under the attached terms and conditions and authorizes all actions noted on this agreement.

Customer also agrees to allow removal of existing lights. Yes ☒ N/A ☐

Type	Customer	Tariff	Content	Pre-Payment (\$)
NESC	Gov	EOL	NLC	\$0.00

Customer recognizes that the individual signing this Agreement on its behalf has authority to do so.

Customer Authorization	Georgia Power Authorization
Signature _____	Signature _____
Print Name _____	Print Name <u>Michael McCowen</u>
Print Title _____	Print Title <u>Account Executive</u>
Date _____	Date _____

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CITY OF VILLA RICA

City Council Meeting Agenda Item Cover Sheet

SUBJECT: Consideration of December 26, 2025 as an employee paid holiday

AGENDA DATE: 10/14/2025

DATE PREPARED: 09/30/2025

PREPARED BY: Jennifer Hallman, Interim City Manager / CFO

PURPOSE: This year's Christmas Eve and Christmas Day employee holidays are on Wednesday & Thursday with employees returning to work on Friday December 26th. The Interim City Manager asked the Human Resource Director to poll other government entities to see if they have approved an additional holiday, so employees are not having to return to work for only one day before the weekend.

Many cities and counties across the state have started doing this, allowing their employees an extended break over the Christmas holiday. It can help staff recharge, spend more time with family, and come back to work refreshed for the new year. From a morale perspective, it's a small gesture that can have a big impact. For any personnel (i.e. Police, Water Treatment, etc.) required to work on December 26th, they would be paid the same as any other holiday, receiving their normal working pay plus holiday pay.

	Mon	Tues	Wed	Thur	Fri		Wed	Thur	Fri			
City or County	22-Dec	23-Dec	24-Dec	25-Dec	26-Dec		31-Dec	1-Jan	2-Jan			
Villa Rica												
Carroll County												
Carrollton												
Dallas												
Douglas County												
Douglasville												
Harlason County												
Hiram												
Temple												
Heard County												
Newnan												
Brantley County												
Fitzgerald												
Fort Oglethorpe												
Nashville												
Stonecrest												
Canton												
Tyrone												
Gilmer County												
Pickens County												
Banks County												
Milledgeville												
Duluth												
Dalton												
Albany												
Towns County												

	Closed
	Half Day
	Considering

STAFF RECOMMENDATION: Approve December 26, 2025 as an employee paid holiday.

MOTION: I move to approve December 26, 2025 as an employee paid holiday.