AGENDA CITY COUNCIL REGULAR MEETING

G.L. Gilleland Council Chambers on 2nd Floor Monday, December 6, 2021 5:00 P.M.

- 1. Call to Order
- 2. Roll Call
- 3. Invocation and Pledge
- 4. Announcements
- 5. Approval of the Agenda
- 6. Public Input
- 7. Consent Agenda
 - a. Approve Minutes
 - Regular Meeting and Work Session held November 15, 2021

PUBLIC HEARING

- ZA-C2200053: Robert Howard has petitioned a zoning amendment for TMP 093 058 Land Lot 429
 13th District, Located at 1732 Perimeter Road from OD (Office District) to R-1 (Restricted Single
 Family Residential). Public Hearing Dates: Planning Commission on November 8, 2021 and City
 Council on December 6, 2021. City Council for a decision on December 20, 2021.
- 9. <u>ZSP-C2200055</u>: Cook Communities has petitioned site plan approval as required for single-family attached dwelling (townhouses) in the R-6, Multiple-Family Residential District for TMP D02 002 Land Lot 507 and 446 4th District, Located at 362 Maple Street. Public Hearing Dates: Planning Commission on November 8, 2021 and City Council on December 6, 2021. City Council for a decision on December 20, 2021.

BUSINESS

- 10. FY 2020-2021 Audit Presentation and Approval
- 11. Dawsonville History Museum Director's Report
- 12. ANX-C2100043 and ZA-C2100043: Allen Street Properties, LLC and B & K Turner Family, LLP have petitioned to annex into the city limits of Dawsonville tract 2 with 32.937 acres (amended application) tract known as a portion of TMP 093 004 001, located at Perimeter Road, with a request to rezone from County Zoning of RSR (Residential Sub Rural) and RA (Restricted Agriculture) to City Zoning of R3 (Single Family Residential). Public Hearing Dates: Planning Commission on September 13, 2021 and City Council on October 4, 2021. City Council for a decision on October 18, 2021 Tabled from October 18, 2021 to December 6, 2021
- 13. An Ordinance To Repeal And Replace Portions Of The Existing Fee Schedule And Provide A New Fee Schedule For Utilities, Garbage, Buildings And Building Regulations, And Planning And Zoning; And For Other Purposes. (First Reading: November 15, 2021; Second Reading and Consideration to Adopt: December 6, 2021)
- 14. Intergovernmental Agreement with Dawson County Right of Way Mowing
- 15. 2022 City of Dawsonville Municipal Property Leases
- 16. Standard Details Update
- 17. Standard Specifications for Roadway and Drainage Systems
- 18. Standard Specifications for Water Distribution and Sanitary Sewerage Systems

EXECUTIVE SESSION, IF NEEDED

ADJOURNMENT

The next scheduled City Council meeting is Monday, December 20, 2021

Those persons with disabilities who require reasonable accommodations in order to allow them to observe and/or participate in this meeting or who have questions regarding the accessibility of the meeting, should contact the Clerk at Dawsonville City Hall at 706-265-3256 at least two (2) business days prior to the meeting.



DAWSONVILLE CITY COUNCIL EXECUTIVE SUMMARY FOR AGENDA ITEM #____7

SUBJECT: CONSENT AGENDA
CITY COUNCIL MEETING DATE: 12/062021
PURPOSE FOR REQUEST:
CONSIDERATION AND APPROVAL OF ITEMS BELOW; SEE ATTACHED SUPPORTING DOCUMENTS
a. Approve MinutesRegular Meeting and Work Session held November 15, 2021



DAWSONVILLE CITY COUNCIL EXECUTIVE SUMMARY FOR AGENDA ITEM #__7a___

SUBJECT: APPROVE MINUTES	
CITY COUNCIL MEETING DATE: 12/06/2021	
BUDGET INFORMATION: GL ACCOUNT #NA	
☐ Funds Available from: Annual Budget Capital Budget Other	
☐ Budget Amendment Request from Reserve:Enterprise FundGeneral Fund	
PURPOSE FOR REQUEST:	
TO APPROVE THE MINUTES FROM:	
REGULAR MEETING AND WORK SESSION HELD NOVEMBER 15, 2021	
HISTORY/ FACTS / ISSUES:	
OPTIONS:	
AMEND OR APPROVE AS PRESENTED	
RECOMMENDED SAMPLE MOTION:	
REQUESTED BY: Beverly Banister, City Clerk	

MINUTES

CITY COUNCIL REGULAR MEETING AND WORK SESSION

G.L. Gilleland Council Chambers on 2nd Floor Monday, November 15, 2021 5:00 P.M.

- 1. CALL TO ORDER: Mayor Eason called the meeting to order at 5:00 pm.
- 2. ROLL CALL: Present were Councilmember John Walden, Councilmember Mark French, Councilmember Caleb Phillips, Councilmember William Illg, City Attorney Kevin Tallant, Attorney Kip O'Kelley, City Manager Bob Bolz, City Clerk Beverly Banister, Public Works Director Trampas Hansard, Utilities Operation Manager Jacob Barr, Planning Director David Picklesimer and Finance Administrator Robin Gazaway.
- 3. INVOCATION AND PLEDGE: Invocation and Pledge were led by Councilmember Phillips.
- 4. ANNOUNCEMENTS: Mayor Eason thanked the residents who came out to vote in the Municipal Election and congratulated Councilmember Illg and French who will continue to serve the City Council. He also announced there will be a Public Information Meeting regarding the Elliott Field Airport on Thursday, December 9, 2021 from 5:30 pm 7:00 pm at City Hall. He also reminded everyone that the Christmas Tree Lighting and Parade will take place at City Hall on Saturday, December 4, 2021 and all are invited. Lastly, he reported the paving of Main Street, Jack Heard Road and Memory Lane are almost complete.
- **5. APPROVAL OF THE AGENDA:** Motion to approve the agenda as presented made by C. Phillips; second by J. Walden. Vote carried unanimously in favor.
- 6. **PUBLIC INPUT:** Christopher Fabian, 4375 Ridge Stone Way, Cumming He spoke to the Council providing his personal background and his desire to be a part of the Dawsonville community and plans to build a house in the City. He petitioned the City Council to do everything they can to expedite the permit process in the Creekstone Subdivision.
- **7. CONSENT AGENDA:** Motion to approve the consent agenda for the following items (a, b, c, d) made by J. Walden; second by C. Phillips. Vote carried unanimously in favor.
 - a. Approve Minutes
 - Special Called Meeting held October 27, 2021
 - Regular Meeting held November 1, 2021
 - b. Approve 2022 Georgia Municipal Association Cities United Summit and Municipal Training
 - c. Approve 2022 Newly Elected Officials Training
 - d. Approve Reappointment for Planning Commission and Historic Preservation Commission Members (listed below)
 - Planning Commission:
 - Randy Davis (Member at Large); Term: 01/01/2022 12/31/2024
 - Matt Fallstrom (Post 1); Term: 01/01/2022 12/31/2024
 - Historic Preservation Commission
 - Perry Bohn; Term: 01/01/2022 12/31/2024
- **8. EMPLOYEE RECOGNITION**: The Mayor and Council recognized Sara Beacham for thirteen years of service and Bob Bolz for five years of service. Trampas Hansard received the October Employee of the Month award.
- **9. INTRODUCTION OF LAW ENFORCEMENT OFFICERS**: City Manager Bolz introduced one of the deputies who will be serving the City; Vic Gazaway. The other deputy, Kyle Bailey, was not present.

BUSINESS

10. BOARD OF EDUCATION FEE WAIVER: The Board of Education has requested the building permit fees and development fees be waived for the construction of the Agriculture Building and the Athletic Building.

Motion to waive the building permit fees and development fees in the amount of \$15,934.20 for the Dawson County Board of Education for the construction of the Agriculture Building and Athletic Building and for the City to absorb the cost for the plan review already completed by our engineering firm made by W. Illg; second by M. French. Attorney Tallant confirmed there is no issue with waiving

MINUTES

CITY COUNCIL REGULAR MEETING AND WORK SESSION

G.L. Gilleland Council Chambers on 2nd Floor Monday, November 15, 2021 5:00 P.M.

the fees since the request is from another government entity and not a private development. Vote carried unanimously in favor.

- 11. **RESOLUTION OPIOID LITIGATION:** Motion to approve the resolution as presented and to appoint the Mayor as a point person authorizing him to sign documents made by C. Phillips; second by J. Walden. Vote carried unanimously in favor. (Exhibit "A")
- **12.** An Ordinance Of The City Of Dawsonville, Georgia, To Provide For Application Of Rates To Customer Accounts; To Provide For Discounts In Specifically Approved Circumstances; To Provide For Methodology For Determining Approval Of Discount; To Provide For Severability; To Provide For An Effective Date; And For Other Purposes. (First Reading: November 1, 2021; Second Reading and Consideration to Adopt: November 15, 2021)
 - Attorney Tallant read the second reading of the ordinance amendment.
 - Motion to approve the ordinance as presented made by M. French; second by W. Illg. Vote carried unanimously in favor. (Exhibit "B")
- **13.** An Ordinance To Regulate Post Development Stormwater Management, To Provide For Responsibility For Maintenance Of Facilities, To Provide For Penalties, To Provide For An Effective Date, And For Other Purposes. (First Reading: November 1, 2021; Second Reading and Consideration to Adopt: November 15, 2021)
 - Attorney Tallant read the second reading of the ordinance amendment. Councilmember Illg abstained from commenting or voting on this ordinance.
 - Motion to approve the ordinance as presented made by C. Phillips; second by J. Walden. Vote carried three in favor (Phillips, Walden, French) with one abstained (Illg). (Exhibit "C")
- **14.** An Ordinance To Repeal And Replace Portions Of The Existing Fee Schedule And Provide A New Fee Schedule For Utilities, Garbage, Buildings And Building Regulations, And Planning And Zoning; And For Other Purposes. (First Reading: November 15, 2021; Second Reading and Consideration to Adopt: December 6, 2021)

Planning Director Picklesimer read the first reading of the ordinance.

WORK SESSION

- 15. PROPOSED IGA WITH DAWSON COUNTY RIGHT OF WAY MOWING: Mayor Eason stated this IGA was provided by the County for consideration and would like the Council to review it. He would like the IGA to eliminate the language that enforces the City to mow the State right of ways despite the fact the City does like to maintain them. Councilmember Illg felt it prudent to share responsibility with the County without duplicating services. He also asked Attorney Tallant to point out any issues with the IGA that could force liability onto the City; he did not indicate an issue with it but thought there could be future concern when additional properties are annexed into the City. Mayor Eason asked the City Attorney to work on an amended IGA for the Council to consider.
- 16. STANDARD DETAILS UPDATE: Presented to Council to review for consideration of approval at the December 6, 2021 City Council meeting. Mayor Eason asked for any comments to be directed to Planning Director Picklesimer.
- 17. STANDARD SPECIFICATIONS FOR ROADWAY AND DRAINAGE SYSTEMS: Presented to Council to review for consideration of approval at the December 6, 2021 City Council meeting. Mayor Eason asked for any comments to be directed to Planning Director Picklesimer. David mentioned one highlight of the updated specifications is that it will require a new stormwater inspection before the City accepts any stormwater or right of ways.
- 18. STANDARD SPECIFICATIONS FOR WATER DISTRIBUTION AND SANITARY SEWERAGE SYSTEMS: Presented to Council to review for consideration of approval at the December 6, 2021 City Council meeting. Mayor Eason asked for any comments to be directed to Planning Director

MINUTES CITY COUNCIL REGULAR MEETING AND WORK SESSION

G.L. Gilleland Council Chambers on 2nd Floor Monday, November 15, 2021 5:00 P.M.

Picklesimer. David mentioned this includes additional testing to the sewer main before accepted by the City.

STAFF REPORTS

- **19. BOB BOLZ, CITY MANAGER:** City Manager Bolz provided his report in the agenda packet and reported the leak adjustment for the month was zero; no questions from Council.
- **20. ROBIN GAZAWAY, FINANCE ADMINISTRATOR:** Financial reports representing fund balances and activity through October 31, 2021 were provided in the agenda packet. No questions from Council.

ADJOURNMENT:

At 5:43 p.m. a motion to adjourn the meeting was made by J. Walden; second by C. Philips. Vote carried unanimously in favor.

	Approved this 6 th day of December 2021.
	By: CITY OF DAWSONVILLE
	Mike Eason, Mayor
	Caleb Phillips, Councilmember Post 1
	William IIIg, Councilmember Post 2
	John Walden, Councilmember Post 3
	Mark French, Councilmember Post 4
Attested: Beverly A. Banister, City Clerk	
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RESOLUTION NO. R2021-08

A RESOLUTION OF THE CITY OF DAWSONVILLE, GEORGIA ("CITY") AGREEING TO BE BOUND BY THE MEMORANDUM OF UNDERSTANDING BETWEEN THE STATE OF GEORGIA AND CERTAIN LOCAL GOVERNMENT ENTITIES CONCERNING THE NATIONAL DISTRIBUTOR AND J&J SETTLEMENTS AND DIRECTING THE EXECUTION OF THE "ACKNOWLEDGMENT AND AGREEMENT TO BE BOUND BY MEMORANDUM OF UNDERSTANDING," "SUBDIVISION DISTRIBUTOR SETTLEMENT PARTICIPATION FORM," AND "JANSSEN SETTLEMENT PARTICIPATION FORM."

WHEREAS, the City initiated litigation against certain manufacturers and distributors of prescription opioids in *In re: National Prescription Opiate Litigation*, MDL 2804, to hold them accountable for the opioid epidemic and to seek equitable and monetary relief;

WHEREAS, opioid distributor defendants McKesson Corporation, AmerisourceBergen Corporation, and Cardinal Health, Inc. ("Settling Distributors"), and opioid manufacturer defendants Johnson & Johnson, Jannsen Pharmaceuticals, Inc., Ortho-McNeil-Janssen Pharmaceuticals, Inc., and Janssen Pharmaceutica, Inc. ("J&J") have separately reached settlement frameworks (otherwise known as the "National Distributor Settlement" and "J&J Settlement") with certain states and local government entities that the State of Georgia and Georgia's local government entities have the option to join;

WHEREAS, the State of Georgia and certain Georgia local government entities seek to enter a Memorandum of Understanding that would enable them to join the National Distributor and J&J Settlements and maximize the recovery to the State of Georgia and Georgia local government entities from those settlements; and

WHEREAS, the City desires to agree to be bound by the Memorandum of Understanding and to participate in the National Distributor and J&J Settlements.

NOW, THEREFORE, BE IT RESOLVED BY THE DAWSONVILLE CITY COUNCIL, AS FOLLOWS:

Section 1. The City Council, as the governing body of the City, hereby agrees to be bound by the Memorandum of Understanding between the State of Georgia and certain Georgia local government entities concerning the National Distributor and J&J Settlements.

Section 2. The City Council, as the governing body of the City, hereby agrees to participate in the National Distributor and J&J Settlements.

Section 3. The City Council hereby appoints _________, as the duly-appointed representative of the City for the purposes of agreeing to be bound by the Memorandum of Understanding and participating in the National Distributor and J&J Settlements.

Section 4. The City Council directs the duly-appointed representative of the City to execute the "ACKNOWLEDGMENT AND AGREEMENT TO BE BOUND BY MEMORANDUM OF UNDERSTANDING," attached hereto and incorporated herein as **Exhibit A**.

Section 5. The City Council directs the duly-appointed representative of the City to execute the "Subdivision Distributor Settlement Participation Form," attached hereto and incorporated herein as **Exhibit B**.

Section 6. The City Council directs the duly-appointed representative of the City to execute the "Janssen Settlement Participation Form," attached hereto and incorporated herein as $\underline{\mathbf{Exhibit}}$ $\underline{\mathbf{C}}$.

Section 7. If any section, paragraph or provision of this Resolution shall be held to be invalid or unenforceable for any reason, the invalidity or unenforceability of such section, paragraph or provision shall not affect any of the remaining provisions of this Resolution.

Section 8. This Resolution shall be in full force and effect from and after its adoption as provided by law.

This Resolution was introduced, seconded and adopted at a duly convened meeting of the City of Dawsonville City Council, held on November 15, 2021.

Mayor

EXHIBIT "A"

Acknowledgment and Agreement to Be Bound By Memorandum of Understanding

EXHIBIT 1

ACKNOWLEDGEMENT AND AGREEMENT TO BE BOUND BY MEMORANDUM OF UNDERSTANDING

WHEREFORE, the undersigned, as a duly-appointed representative of the below-referenced entity, acknowledges the following:

- The City of Dawsonville, Georgia has received the State of Georgia and Local Governments: Memorandum of Understanding Concerning National Distributor and Johnson & Johnson Opioid Settlements.
- The undersigned is a duly-appointed representative of the City of Dawsonville, Georgia, and has the authority to execute this document and bind the City of Dawsonville, Georgia to the Memorandum of Understanding.
- The City of Dawsonville, Georgia is either represented by legal counsel, or has the ability to obtain advice from legal counsel, concerning the contents and implication of the Memorandum of Understanding.
- The undersigned, on behalf of the City of Dawsonville, Georgia, understands and acknowledges the terms of the Memorandum of Understanding, and the City of Dawsonville, Georgia agrees to be bound by its terms.

No party is under duress or undue influence.

Name MIKE Eason

Title Mayor

Date 11.15 2021

Entity City of Dawsonville, Georgia

EXHIBIT "B"

Subdivision Distributor Settlement Participation Form

Subdivision Distributor Settlement Participation Form

Governmental Entity: City of Dawsonville	State: GA
Authorized Official: Mayor Mike Eason	
Address 1: 415 Hwy 53 E	4 1
Address 2: Suite 100	
City, State, Zip: Dawsonville, GA 30534	
Phone: (706) 265-3256	
Email: mike.eason@dawsonville-ga.gov	

The governmental entity identified above ("Governmental Entity"), in order to obtain and in consideration for the benefits provided to the Governmental Entity pursuant to the Settlement Agreement dated July 21, 2021 ("Distributor Settlement"), and acting through the undersigned authorized official, hereby elects to participate in the Distributor Settlement, release all Released Claims against all Released Entities, and agrees as follows.

- The Governmental Entity is aware of and has reviewed the Distributor Settlement, understands that all terms in this Participation Form have the meanings defined therein, and agrees that by signing this Participation Form, the Governmental Entity elects to participate in the Distributor Settlement and become a Participating Subdivision as provided therein.
- The Governmental Entity shall, within 14 days of the Reference Date and prior to the filing of the Consent Judgment, secure the dismissal with prejudice of any Released Claims that it has filed.
- 3. The Governmental Entity agrees to the terms of the Distributor Settlement pertaining to Subdivisions as defined therein.
- 4. By agreeing to the terms of the Distributor Settlement and becoming a Releasor, the Governmental Entity is entitled to the benefits provided therein, including, if applicable, monetary payments beginning after the Effective Date.
- 5. The Governmental Entity agrees to use any monies it receives through the Distributor Settlement solely for the purposes provided therein.
- 6. The Governmental Entity submits to the jurisdiction of the court in the Governmental Entity's state where the Consent Judgment is filed for purposes limited to that court's role as provided in, and for resolving disputes to the extent provided in, the Distributor Settlement. The Governmental Entity likewise agrees to arbitrate before the National Arbitration Panel as provided in, and for resolving disputes to the extent otherwise provided in, the Distributor Settlement.

- 7. The Governmental Entity has the right to enforce the Distributor Settlement as provided therein.
- 8. The Governmental Entity, as a Participating Subdivision, hereby becomes a Releasor for all purposes in the Distributor Settlement, including, but not limited to, all provisions of Part XI, and along with all departments, agencies, divisions, boards, commissions, districts, instrumentalities of any kind and attorneys, and any person in their official capacity elected or appointed to serve any of the foregoing and any agency, person, or other entity claiming by or through any of the foregoing, and any other entity identified in the definition of Releasor, provides for a release to the fullest extent of its authority. As a Releasor, the Governmental Entity hereby absolutely, unconditionally, and irrevocably covenants not to bring, file, or claim, or to cause, assist or permit to be brought, filed, or claimed, or to otherwise seek to establish liability for any Released Claims against any Released Entity in any forum whatsoever. The releases provided for in the Distributor Settlement are intended by the Parties to be broad and shall be interpreted so as to give the Released Entities the broadest possible bar against any liability relating in any way to Released Claims and extend to the full extent of the power of the Governmental Entity to release claims. The Distributor Settlement shall be a complete bar to any Released Claim.
- 9. The Governmental Entity hereby takes on all rights and obligations of a Participating Subdivision as set forth in the Distributor Settlement.
- 10. In connection with the releases provided for in the Distributor Settlement, each Governmental Entity expressly waives, releases, and forever discharges any and all provisions, rights, and benefits conferred by any law of any state or territory of the United States or other jurisdiction, or principle of common law, which is similar, comparable, or equivalent to § 1542 of the California Civil Code, which reads:

General Release; extent. A general release does not extend to claims that the creditor or releasing party does not know or suspect to exist in his or her favor at the time of executing the release, and that if known by him or her would have materially affected his or her settlement with the debtor or released party.

A Releasor may hereafter discover facts other than or different from those which it knows, believes, or assumes to be true with respect to the Released Claims, but each Governmental Entity hereby expressly waives and fully, finally, and forever settles, releases and discharges, upon the Effective Date, any and all Released Claims that may exist as of such date but which Releasors do not know or suspect to exist, whether through ignorance, oversight, error, negligence or through no fault whatsoever, and which, if known, would materially affect the Governmental Entities' decision to participate in the Distributor Settlement.

- 11. Nothing herein is intended to modify in any way the terms of the Distributor Settlement, to which Governmental Entity hereby agrees. To the extent this Participation Form is interpreted differently from the Distributor Settlement in any respect, the Distributor Settlement controls.
- 12. The effective date of this Participation Form shall be the date on which the State of Georgia enters into the Distributor Settlement. In the event that the State of Georgia elects not to enter into the Distributor Settlement, this Participation Form shall be null and void and shall confer no rights or obligations on the State of Georgia, the Released Entities (as defined in the National Settlement Agreement dated July 21, 2021), or the Governmental Entity.

I have all necessary power and authorization to execute this Participation Form on behalf of the Governmental Entity.

Signature:

Name:

Title:

Date:

EXHIBIT "C"

Janssen Settlement Participation Form

Janssen Settlement Participation Form

Governmental Entity: City of Dawsonville	State: GA
Authorized Official: Mayor Mike Eason	
Address 1: 415 Hwy 53 E	
Address 2: Suite 100	
City, State, Zip: Dawsonville, GA 30534	
Phone: (706) 265-3256	
Email: mike.eason@dawsonville-ga.gov	

The governmental entity identified above ("Governmental Entity"), in order to obtain and in consideration for the benefits provided to the Governmental Entity pursuant to the Settlement Agreement dated July 21, 2021 ("Janssen Settlement"), and acting through the undersigned authorized official, hereby elects to participate in the Janssen Settlement, release all Released Claims against all Released Entities, and agrees as follows.

- The Governmental Entity is aware of and has reviewed the Janssen Settlement, understands that all terms in this Election and Release have the meanings defined therein, and agrees that by this Election, the Governmental Entity elects to participate in the Janssen Settlement and become a Participating Subdivision as provided therein.
- The Governmental Entity shall, within 14 days of the Reference Date and prior to the filing of the Consent Judgment, dismiss with prejudice any Released Claims that it has filed.
- 3. The Governmental Entity agrees to the terms of the Janssen Settlement pertaining to Subdivisions as defined therein.
- 4. By agreeing to the terms of the Janssen Settlement and becoming a Releasor, the Governmental Entity is entitled to the benefits provided therein, including, if applicable, monetary payments beginning after the Effective Date.
- 5. The Governmental Entity agrees to use any monies it receives through the Janssen Settlement solely for the purposes provided therein.
- The Governmental Entity submits to the jurisdiction of the court in the Governmental
 Entity's state where the Consent Judgment is filed for purposes limited to that court's role
 as provided in, and for resolving disputes to the extent provided in, the Janssen
 Settlement.
- 7. The Governmental Entity has the right to enforce the Janssen Settlement as provided therein.

- 8. The Governmental Entity, as a Participating Subdivision, hereby becomes a Releasor for all purposes in the Janssen Settlement, including but not limited to all provisions of Section IV (Release), and along with all departments, agencies, divisions, boards, commissions, districts, instrumentalities of any kind and attorneys, and any person in their official capacity elected or appointed to serve any of the foregoing and any agency, person, or other entity claiming by or through any of the foregoing, and any other entity identified in the definition of Releasor, provides for a release to the fullest extent of its authority. As a Releasor, the Governmental Entity hereby absolutely, unconditionally, and irrevocably covenants not to bring, file, or claim, or to cause, assist or permit to be brought, filed, or claimed, or to otherwise seek to establish liability for any Released Claims against any Released Entity in any forum whatsoever. The releases provided for in the Janssen Settlement are intended by the Parties to be broad and shall be interpreted so as to give the Released Entities the broadest possible bar against any liability relating in any way to Released Claims and extend to the full extent of the power of the Governmental Entity to release claims. The Janssen Settlement shall be a complete bar toany Released Claim.
- 9. In connection with the releases provided for in the Janssen Settlement, each Governmental Entity expressly waives, releases, and forever discharges any and all provisions, rights, and benefits conferred by any law of any state or territory of the United States or other jurisdiction, or principle of common law, which is similar, comparable, or equivalent to § 1542 of the California Civil Code, which reads:

General Release; extent. A general release does not extend to claims that the creditor or releasing party does not know or suspect to exist in his or her favor at the time of executing the release that, if known by him or her, would have materially affected his or her settlement with the debtor or released party.

A Releasor may hereafter discover facts other than or different from those which it knows, believes, or assumes to be true with respect to the Released Claims, but each Governmental Entity hereby expressly waives and fully, finally, and forever settles, releases and discharges, upon the Effective Date, any and all Released Claims that may exist as of such date but which Releasors do not know or suspect to exist, whether through ignorance, oversight, error, negligence or through no fault whatsoever, and which, if known, would materially affect the Governmental Entities' decision to participate in the Janssen Settlement.

10. Nothing herein is intended to modify in any way the terms of the Janssen Settlement, to which Governmental Entity hereby agrees. To the extent this Election and Release is interpreted differently from the Janssen Settlement in any respect, the Janssen Settlement controls.

11. The effective date of this Participation Form shall be the date on which the State of Georgia enters into the Janssen Settlement. In the event that the State of Georgia elects not to enter into the Janssen Settlement, this Participation Form shall be null and void and shall confer no rights or obligations on the State of Georgia, the Released Entities (as defined in the National Settlement Agreement dated July 21, 2021), or the Governmental Entity.

I have all necessary power and authorization to execute this Election and Release on behalf of the Governmental Entity.

Signature:

Name:

Title:

Date:

figueson

Mayor

Subject Matter: Water/Sewer Rate Discount Date of First Reading: November 1, 2021 Date of Second Reading: November 15, 2021 Date of Adoption: November 15, 2021

AN ORDINANCE OF THE CITY OF DAWSONVILLE, GEORGIA, TO PROVIDE FOR APPLICATION OF RATES TO CUSTOMER ACCOUNTS; TO PROVIDE FOR DISCOUNTS IN SPECIFICALLY APPROVED CIRCUMSTANCES; TO PROVIDE FOR METHODOLOGY FOR DETERMINING APPROVAL OF DISCOUNT; TO PROVIDE FOR SEVERABILITY; TO PROVIDE FOR AN EFFECTIVE DATE; AND FOR OTHER PURPOSES.

ORDINANCE NUMBER 04-2021

WHEREAS, the City of Dawsonville Georgia operates a water and sewer utility system for which customers pay monthly fees in exchange for services provided;

WHEREAS, the City of Dawsonville recognizes that the provision of water and sewer service is a vital function to promote the health, prosperity, safety and general welfare of the City of Dawsonville and its citizens;

WHEREAS, the City of Dawsonville has been generally able to provide water and waste water service at lower rates than other providers of similar services within the geographical limits of Dawson County, Georgia;

WHEREAS, the City of Dawsonville is nevertheless open to exploring avenues for making this vital service more affordable to persons whose financial situation make even the City of Dawsonville's reasonable rates a fiscal challenge;

WHEREAS, it is often senior citizens living on fixed incomes who struggle with paying for water and sewer service even at the reasonable rates charged by the City of Dawsonville;

AND WHEREAS, part of providing more affordable rates and service to persons is making sure that the persons receiving the rates are entitled to them, while asking those who are able, to pay the normally applicable highly competitive rates.

NOW THEREFORE, premises considered, the Council for the City of Dawsonville hereby ordains as follows:

Section 1.

Chapter 14, Article II, Section 14.22 of the Code of Ordinances for the City of Dawsonville is hereby deleted in its entirety, and in its place is inserted a new Section 14.22 which shall read as follows:

Sec. 14-22. Rate schedule.

- (a) All water furnished by the City of Dawsonville to users or property situated within or without the corporate limits shall be metered and computed monthly and paid for at the rates set forth in section 2-110 of this Code.
- (b) All sewer service furnished by the City of Dawsonville to users or property situated within or without the corporate limits shall be computed monthly and paid at the rates set forth in section 2-110 of this Code.
- (c) Upon the approval of the utilities director for the City of Dawsonville, individuals and entities may purchase water in bulk from the city at a rate set out in section 2-110 of this Code.
- (d) Upon annual application to the city clerk, individuals may be eligible to receive an annual exclusion of 15% from the applicable rates as set forth in section 2-110 of this Code for water and sewer service furnished by the City of Dawsonville to property situated within or without the corporate limits if the applicant meets the following requirements:
 - 1. The applicant is age 65 or older at the time of application with the city clerk;
 - 2. The applicant's household has an annual gross income equal to or less than \$25,000.00;
 - 3. The applicant is the record owner or lessee of the property to be serviced; and
 - 4. The application is signed by the applicant and contains an affirmation by the applicant that the information contained in the application and all materials submitted with it are true and correct to the actual knowledge of the applicant.
- (e) Applications for annual exclusions under subsection (d) hereinabove shall be filed annually and, upon application, the applicant's qualification for the annual exclusion must be demonstrated by tendering to the city clerk the following, all of which shall be returned to the applicant after inspection and review by the clerk:
 - 1. A valid Georgia driver's license, birth certificate, passport or other government issued identification card demonstrating the applicant's date of birth, and
 - 2. A recorded deed or executed lease showing the applicant's right to possession of the property to be serviced with water and sewer by the City of Dawsonville;
 - 3. Financial information in compliance with the following:
 - a. A tax return or returns for the period of filing immediately preceding the submission of the application to the city clerk, which application must include all schedules and forms submitted as part of the tax return(s) and which must cover all household income for the property being serviced; OR,
 - b. In the event the applicant's household has total income of less than the amount required to file a tax return for the period in question, a statement from the Social Security Administration setting forth the total income received by the applicant and any other person residing therein, in the form of social security payments, which payments shall total less than the threshold for filing a tax return.
- (f) All applications for renewal of annual exclusions provided for in subsection (d) hereinabove shall be submitted from May 1 through and including June 30 of each successive calendar year and if not timely renewed, the exclusion shall lapse on June 30.

Section 2. Severability

If any provision of this Ordinance or the application thereof to any person or circumstances is held invalid, such invalidity shall not affect other provisions or applications

of the Ordinance which may be given effect without the invalid provision or application, and to this end the provisions of this Ordinance are declared severable.

Section 3. Repealer and Restatement.

All ordinances and resolutions and parts thereof in conflict herewith are repealed. However, to the extent not in conflict, all remaining ordinances, resolutions, or parts thereof shall not be amended or repealed and shall remain in full force and effect, except as expressly stated in this ordinance.

Section 4. Effective Date.

This ordinance shall	I take effect	and be in	n force	from and	after i	ts adoption.
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SO ORDAINED this 15 day of Wolmber, 2021.

By:

Mike Eason, Mayor

Caleb Phillips, Council Member Post 1

William Illg, Council Member Post 2

John Walden, Council Member Post 3

Mark French, Council Member Post 4

ATTEST:

Beverly A. Banister, City Clerk

Page 3 of 3

Subject Matter: Stormwater Management
Date of First Reading: November 1, 2021
Date of Second Reading: November 15, 2021
Date of Adoption: November 15, 2021

AN ORDINANCE TO REGULATE POST DEVELOPMENT STORMWATER MANAGEMENT, TO PROVIDE FOR RESPONSIBILITY FOR MAINTENANCE OF FACILITIES, TO PROVIDE FOR PENALTIES, TO PROVIDE FOR AN EFFECTIVE DATE, AND FOR OTHER PURPOSES

ORDINANCE NUMBER 05-2021

WHEREAS the City of Dawsonville has previously adopted an ordinance to regulate stormwater in and around the City of Dawsonville;

WHEREAS, the continued purpose of the City of Dawsonville stormwater ordinance is to ameliorate the impacts of post-development stormwater runoff, through the regulation of quality and quantity through both structural and non-structural measures;

WHEREAS, structural measures involving stormwater runoff require, from time to time, maintenance to ensure they remain operational and effective for their intended purpose;

AND WHEREAS, the responsibility for the periodic maintenance would be properly borne by the parties contributing stormwater to the infrastructure in need of maintenance.

NOW, THEREFORE, be it ORDAINED by the Mayor and City Council of the City of Dawsonville, and it is hereby enacted by the authority of the same:

Section 1. Definitions: the definition of the term "Person" is deleted in its entirety from Section 107-41, and in its place is inserted the following new definition of the term "Person."

Person means, except to the extent exempted from this chapter, any individual, partnership, firm, association, joint venture, public or private corporation, trust, estate, commission, board, public or private institution, utility, cooperative, city, county or other political subdivision of the state, any interstate body or any other legal entity, in the singular or in the plural as the case may be under this Code.

Section 2. Maintenance responsibility: Section 107-191 of the Code of the City of Dawsonville is hereby deleted in its entirety, and in its place is inserted the following language which shall form a new Section 107-191:

§ 107-191. Maintenance Responsibility

(a) Except as provided below, the owner of the property on which work has been done pursuant to this chapter for private stormwater management facilities, regional stormwater facilities, and stormwater BMPs, or any other person or agent in control

- of such property, shall maintain in good condition and promptly repair and restore all grade surfaces, walls, drains, dams and structures, vegetation, erosion and sedimentation controls, and other protective devices. Such repairs or restoration and maintenance shall be in accordance with the approved inspection and maintenance agreement and covenant.
- (b) If the owner of the stormwater management facility, regional stormwater facility, or stormwater BMP is an owner's association, unit owners' association, or homeowners' association, the owner shall provide the city a copy of the association's recorded declaration. The declaration must provide:
 - 1. That the facility or BMP is part of the common elements and shall be subject to the inspection and maintenance agreement and covenant;
 - 2. That membership in the association shall be mandatory and automatic for all unit owners or homeowners of the development and their successors;
 - 3. That the association shall have lien authority to ensure the collection of dues from all members;
 - 4. That the requirements of the inspection and maintenance agreement and covenant shall receive the highest priority for expenditures by the association except for any other expenditures which are required by law to have a higher priority;
 - 5. That a separate fund shall be maintained by the association for the routine maintenance, reconstruction and repair of the facilities and/or BMPs, separate from all other funds of the association; that it shall be kept in an account insured by the FDIC or by another entity acceptable to the city;
 - 6. That the routine maintenance, reconstruction, and repair fund shall contain at all times the dollar amount reasonably determined from time to time by city to be adequate to pay for the probable reconstruction and repair cost (but not routine maintenance cost) for a three-year period;
 - 7. That, to the extent permitted by law, the association shall not enter into voluntary dissolution unless the facilities and/or BMPs are transferred to a successor owner.
- (c) The city, in lieu of an inspection and maintenance agreement and covenant, may accept dedication of any existing or future stormwater management facility or BMP for maintenance, provided such facility or BMP meets all the requirements of this chapter, is in proper working order at the time of dedication, and includes adequate and perpetual access and sufficient area for inspection and regular maintenance. Such adequate and perpetual access shall be accomplished by granting of an easement to the city or through fee simple dedication to the city.
- (d) Stormwater management facilities and practices included in a stormwater management plan which are subject to an inspection and maintenance agreement and covenant must undergo ongoing inspections to document maintenance and repair needs and ensure compliance with the requirements of the agreement and covenant, the stormwater management plan, and this chapter.
- (e) In the event that a stormwater detention facility is located in a residential development which development does not have an owner's association, unit owners' association, or homeowners' association which is responsible for periodic maintenance of the facility, then and in that event the person, persons or owners,

whose properties contribute stormwater runoff to the detention facility, shall bear responsibility for the said periodic maintenance required to keep the detention facility working properly as determined by the City.

Section 3. Failure to Maintain: Section 107-195 of the Code of the City of Dawsonville is hereby deleted in its entirety, and in its place the following language is inserted as a new Section 107-195.

§ 107-195 Failure to Maintain

If a responsible person fails or refuses to meet the requirements of this chapter and/or the inspection and maintenance agreement and covenant, the City, after 30 days written notice (except, that in the event the violation constitutes an immediate danger to public health or public safety, 24 hours-notice shall be sufficient), may correct a violation of the design standards or maintenance requirements by performing the necessary work to place the facility or practice in proper working condition. The City may assess the parties responsible for maintenance of the facility penalties as described in § 107-240, or may assess for the cost of repair work which shall be a lien on the property, and may be collected in any manner allowed by law, including but not limited to the manner in which liens for taxes are collected.

- Section 4. All Ordinances or parts of ordinances in conflict with this ordinance are hereby repealed.
- Section 5. This ordinance shall become effective upon adoption, the public good demanding the same.

By:

Mike Eason, Mayor

Caleb Phillips, Council Member Post 1

IBSTAINED (be

William Illg, Council Member Post 2

John Walden, Council Member Post 3

Mark French, Council Member Post 4

ATTEST:

Beverly A. Banister, City Clerk

CORCL



DAWSONVILLE CITY COUNCIL EXECUTIVE SUMMARY FOR AGENDA ITEM # 8

SUBJECT: ZA-C2200053
CITY COUNCIL MEETING DATE: 12/06/2021
BUDGET INFORMATION: GL ACCOUNT #
☐ Funds Available from: Annual Budget: Capital Budget: Other ☐ Budget Amendment Request from Reserve: Enterprise Fund: General Fund
PURPOSE FOR REQUEST: PUBLIC HEARING
 ZA-C2200053: Robert Howard has petitioned a zoning amendment for TMP 093 058 Land Lot 429 13th District, Located at 1732 Perimeter Road from OD (Office District) to R-1 (Restricted Single Family Residential). Public Hearing Dates: Planning Commission on November 8, 2021 and City Council on December 6, 2021. City Council for a decision on December 20, 2021. HISTORY/ FACTS / ISSUES: Applicant is requesting to rezone property from Office district to R1 district. Property was zoned from RA to Office district April 4, 2005. Property is located within William Illg Post 2 district. The subject property adjoins City zoned R1 zoning district to the north, R3 zoning district to the west, Office district to the south and Institutional district to the east. 2018 comprehensive plan character area proposes commercial use. Planning Commission approved the request on 11.08.2021.
OPTIONS: No action required
RECOMMENDED SAMPLE MOTION:
DEPARTMENT: Planning and Zoning
REQUESTED BY: David Picklesimer

415 Highway 53 E. Suite 100 Dawsonville, Georgia 30534



(706) 265-3256 Fax (706) 265-4214 www.dawsonville-ga.gov

Date: 11/10/2021

To: Mayor and Council

Reference: ZA C2200053 Planning and Zoning Department Summary

The Planning and Zoning Department has provided the following pertinent information to help you decide on this request:

- 1. Applicant is requesting to rezone property from Office district to R1 district.
- 2. Property was zoned from RA to Office district April 4, 2005.
- 3. Property is located within William Illg Post 2 district.
- 4. The subject property adjoins City zoned R1 zoning district to the north, R3 zoning district to the west, Office district to the south and Institutional district to the east.
- 5. 2018 comprehensive plan character area proposes commercial use.
- 6. Planning Commission approved the request on 11/8/2021.

David Picklesimer Planning Director

415 Highway 53 E. Suite 100 Dawsonville, Georgia 30534



(706) 265-3256 Fax (706) 265-4214 www.dawsonville-ga.gov

Date: 10/11/2021

To: Planning Commission

Reference: ZA C2200053 Planning and Zoning Department Summary

The Planning and Zoning Department has provided the following pertinent information to help you decide on this request:

- 1. Applicant is requesting to rezone property from Office district to R1 district.
- 2. Property was zoned from RA to Office district April 4, 2005.
- 3. Property is in Post 2 vacant commission district.
- 4. The subject property adjoins City zoned R1 zoning district to the north, R3 zoning district to the west, Office district to the south and Institutional district to the east.
- 5. 2018 comprehensive plan character area proposes commercial use.

David Picklesimer Planning Director

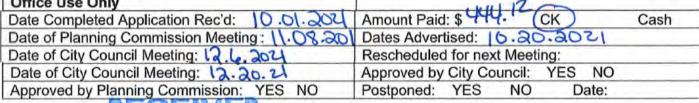


City of Dawsonville

4115 Highway 53 East, Suite 100 Dawsonwille, GA 30534 (7706) 265-3256

Zoning Amendment Application

Applicant Name(s): Robert Lee Howard & Misty Marije		7: 70574
Address: 1732 Perimeter Road Phone:	City:Dawsonville Email:	Zip: 30534
Signature(s)	Email.	ete
4700 Dadandar Band		ate
Property Address: 1732 Perimeter Road	Live one received the	O CONTRACTOR DE LA CONT
Directions to Property from City Hall: South on 53, let't or	Perimeter Road, 2nd house on left a	across from highschool
Tax Map#Paircel	#Curren	nt Zoning: Office District (Commercia
Land Lot(s): 429District	et: North 1/2 of the 13 district Section	on: 1st Section of Dawson County
Subdivision Name: N/A		Lot# N/A
Acres: 1,296 Current use of property:	Residential	
Has a past request of Rezone of this property been made before		ZA# 04-003 file 61
Proposed use of property if rezoned: Residential Home Residential #of lots proposed: 1 Minimu Amenity area proposed N/A , if yes,	um lot size proposed N/A what	(Include Conceptual Plan)
If Commercial: total building area proposed: N/A		ptual Plan)
Utilities:(utilities readily available at the road frontage): _		
Proposed Utilities:(utilities developer intends to provide)	Water Sewer Electric	Natural Gas
Road Access/Proposed Access: (Access to the develop		
Roadname: N/A driveway connect to Perimeter Roa	Type of Surface:	Asphalt
Failure to complete all sections will result in I understand that failure to appear at a public Signature of Applicant		
Office Use Only		kul 12-0





City of Dawsonville

41/5 Highway: 53 East, Suite 100 Dawsonville, GA 30534 (706) 265-3256

Zoning Amendment Authorization

Property Owner Authorization

1/We_	Robert Lee Howard & Misty Marie Twiggs Ho		the property
located a	at (fill in address and/or tax map & parcel #)	TMP	093 058
in the tax	maps and/or deed records of Dawsorn Cou	ounty, Georgia, and which parcel will be affected by th	as shown ne request.
rezoning ກ່ອວອປາດ authorize the same Printed N Signatur	g requested on this property. I understaind th in the property will be binding upon the prop ed to make this application. The undersigne	ed below to act as the applicant or agent in pursuit of that any rezone granted, and/or conditions or stipulation perty regardless of ownership. The under signer belowed is aware that no application or reapplication affect from the date of the last action by the City Council. Howard Date 10 1	ions w is
	Dawsonville	State GA. Zip 30534	
	RIBED AND SWORN BEFORE ME ON THE	HIS	
Str. Notary F	Public, State of Georgia	Stanislav 2 NOTARY Dawson Cou My Commis March 2	PUBLIC inty, Georgia sion Expires
My Com	mission Expires: March 21	202} Notary Seal	

(The complete names of all owners must be listed, if the owner is a partnership, the names of all partners must be listed, if a joint venture, the names of all members must be listed. If a separate sheet is needed to list all names, please have the additional sheet not arized also.)



City of Dawsonville

4115 Highway 53 East, Suite 100 Dawsonville, GA 30534 (7706) 265-3256

Zoning Amendment Adjacent Property Owners

The section of the se	
Application # ZA - C22 0005 3	TMP#093 058

It is the responsibility of the applicant to provide a list of adjacent property owners. This list must include the name and address of anyone who has property touching your property or who has property directly across the street from your property. (Use additional sheets if necessary)

Please note This information should be obtained at the Planning Office using the Tax Map Parcel Map listing any parcel(s) adjoining or adjacent to parcel where resone is being requested.

TIMP#	083 022 1.	'Name(s):_	Peachtree Villiages Partners LLC
) (Address:_	901 Highway 53 E 2905 Predmont Rd STE A
			-Dawsonville GA 30534 Atlanta, GA 30305
TMP#	093 060 2.	Name(s):_	Peachtree Villiages Partners LLC
7710-10-	100000	Address:	4818 Perimeter Road 2905 Predmont Rd STEA
		f-	Dawsonville, GA 30534 Atlanta, GA 30305
TMP#_	093 023 _ 3.	Name(s):_	Bobby L. & Brenda A Hathcock
	*	Address:_	4710 Perimeter Road P.O.Box 382
		-	Dawsonville, GA 30534
TMP#_	093 070 4.	Name(s):_	Dawson County Board of Education
		Address:_	1665 Perimeter Road
		- T	Daw-sonville, GA 30534
TMP#_	093 009 029 5.	Name(s):_	Kamil W Jezierski
		Address:_	154 Sandberg Way
		-	Dawsonville, GA 30534
TMP#	6.	Name(s):_	
1.5.4.			
		1	
TMP#	7.	Name(s)	
		Address:_	
		,	

Adjacent Property Owner notification of a zoning amendment request is required.

City of Dawsonville

4115 Highway 53 East, Suite 1100 Dawsonville, GA 30534 (7706) 265-3256

Zoning Amendment Campaign Disclosure

Disclosure of Campaign Contributions (Applicant(s) and Representative(s) of Rezoning)

Pursuant to OCGA, Section 36-67 A-3. A, the following disclosure is mandatory when an applicant or any representation of application for rezoning has been made with two years immediately preceding the filing of the applicant's request for rezoning, campaign contributions aggregating \$250.00 or more to a local government official who will consider the application for rezoning.

It shall be the duty of the applicant and the attorney representing the applicant to file a disclosure with the governing authority of the respective local government showing the following:

Name of local official to whom campaign contribution was made:

	ance our bio			
opponent to	the local governme e filing of the ap plic	nt official during th	gn contribution made to two years immediate ing action and the date	ely
Amount \$	N/A	Date:	N/A	
to the local govern	nment official during	g the 2 years imme	ediately preceding the	
		g the 2 years imme		
e to the local govern	nment official during	g the 2 years imme		

Failure to complete this form is a statement that no disclosure is required.

City of Dawsonville

415 Highway 53 East, Suite 100 Dawsonville, GA 30534 (7706)) 265-3256 Zoning Amendment Notice of R-A Adjacency

Notice of Residential--Agricultural District (R-A) Adjacency

Agricultural districts include uses of land primarily for active farming activities and result in odors, noise, dust, and other effects, which may not be compatible with adjacent development. Future abutting developers which are not in R-A land use districts shall be provided with this "Notice of R-A Adjacency" prior to administrative action on either the land use district or the issuance of a building or occupancy permit.

Prior to administrative action the applicant shall be required to sign this waiver which indicates that applicant understands that a use is ongoing adjacent to his use which will produce odors, noise, dust and other effects which may not be compatible with the applicant's development. Nevertheless, understanding the effects of the adjacent R-A use, the applicant agrees by executing this form to waive any objection to those effects and understands that his district change and / or his permits are issued and processed in reliance on his agreement not to bring any action asserting that the adjacent uses in the R-A district constitute a nuisance against local governments and adjoining landowners whose property is located in an R-A district.

This notice and acknowledgement shall be public record.

Applicant Signature_	Muthbul Date	10-	1-2021
Application Number:	ZA - C2200053		

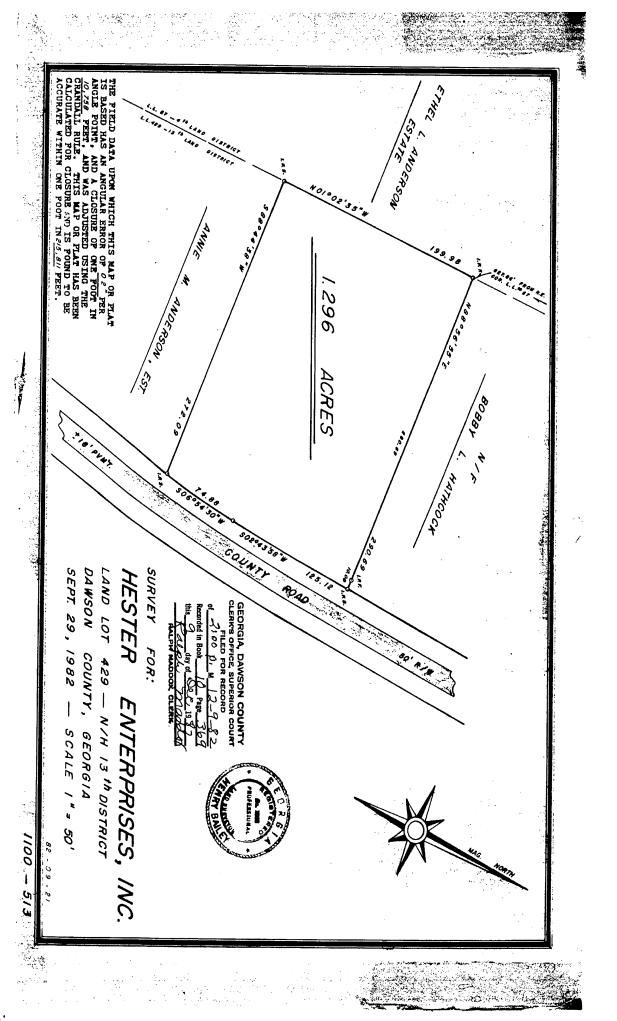
SUBSCRIBED AND SWORN BEFORE ME ON THIS

DAY OF October 2021
Studies Bourney
Notary Public, State of Georgia

My Commission Expires: March 21, 2023

Stanislav Zaverukha NOTARY PUBLIC Dawson County, Georgia My Commission Expires March 21, 2023

Notary Seal



Year of Our Lord One Thousand Nine Hundred and Eighty-two between NANCY FORSYTH NOBLIN and EDGAR GEORGE DAVID, JR., EXECUTORS OF ESTATE OF ANNIE M. ANDERSON
of the State of Georgia and County of Fulton of the first part, and
HESTER ENTERPRISES, INC.
of the State of Georgia and County of Dawson of the second part,
WITNESSETH: That the said parties of the first part, for and in consideration of the sum of
TEN (\$10.00) and other valuable considerations Dollars,
in hand paid, at and before the sealing and delivery of these presents, the receipt of which
is hereby acknowledged, ha ve. granted, bargained, sold and conveyed, and by these presents
do grant, bargain, sell and convey unto the said part. y of the second part, its
heirs and assigns, which accepte the property:
All that tract or parcel of land lying and being in Land Lot 429 in the north half of the 13th District of Dawson County, Georgia, and more fully described as follows:
BEGINNING at an iron pin on the line between Lot 57 in the 4th District and Lot 429 in the 13th District at corner of property heretofore sold by Estate of Annie M. Anderson to Bobby L. Hathcock; thence along line of said Hathcock property north 88° 56' 55" east 290.69 feet to asphalt paved county road; thence south along the west side of said county road 200 feet; thence south along the west side of said county road 200 feet; thence south 48° 44' 38" west 272.09 feet to the line between Lot 57 in the 4th District and Lot 429 in the 13th District; thence north along said land lot line 199.98 feet to the beginning corner, containing 1.296 acres, more or less. The Clip ty societance hereof agrees to the following restrictive in more saids shall run with the title until Becember 31, 1992: The clip the residence and a minimum of 1200 sq. feet heated interior floorspace. 3. No commercial use except in-home business. For descriptive purposes see plat of survey for Hester Enterprises, Inc. by Henry Bailey, dated September 29, 1982, and recorded in Plat Book Page 30', Dawson County Records, and being incorporated herein. TO HAVE AND TO HOLD the said tract or parcel of land, with all and singular the rights, members and appurtenances thereof, to the same being, belonging, or in anywise appertaining, to the only proper use, benefit and behoof of the said party of the second part, its
heirs and assigns, forever, in Fee Simple.
AND THE SAID part ies of the first part, for their heirs,
executors and administrators, will warrant and forever defend the right and title to the above
described property, unto the said part Y of the second part, its heirs and assigns,
against the claims of all persons whomsoever.
IN WITNESS WHEREOF, the said parties of the first part hanve hereunto set their
hand and seal, the day and year above written.
Signed, sealed and delivered in presence of:
Nancy Forsyth Noblin (Seal)
(Seal)
Notary Public Edgar George David, Jr. (Seal)
CLERK'S OFFICE, SUPERIOR COURT AS EXECUTORS OF ESTATE OF
FILED FOR RECORD ANNIE M. ANDERSON
01.3100 P. M 12-7-82
Recorded in Book to 3 Page 127
this g day of 10 c 19 8 5
RALPH MADDOX, CLERK





Parcels

Parcel ID: 093 058 Alt ID: 6388

Owner: CENTOFANTI DANIEL LOUIS

Acres: 1.3

Assessed Value: \$274240

Date created: 10/4/2021 Last Data Uploaded: 10/2/2021 12:30:53 AM

Developed by Schneider

Letter of Intent

Rezoning Request - O-Office District to R-1



Dear Mayor and City Council of Dawsonville and Members of the Planning Commission,

Please accept this letter of intent from Robert L & Misty M Twiggs Howard, property owner of 1732 Perimeter Road requesting a rezoning from O-Office District to R-1 to use as a residential property. The proposed rezoning would allow the owner to use the property as a residential home. Before the property was used as a "school", it has a history of being used as residential home. The property listing indicated that the property, "is commercially zoned lot was formerly used as a home and a Montessori School, offices, and is now being listed again as residential, easily upgraded to 3/4 BD, 2/3BA ranch." The previous owner indicated the zoning would allow the property to be used as either a commercial property or residential. We asked our real estate agent if the zoning would allow this and he indicated it should, so we proceeded with the purchase.

The appraisal report was complete as if the property was residential, we obtained a residential loan and have a residential home insurance policy. At no point in the purchase process did any of the professionals we worked with indicate that the property was zoned as only O-Office District (commercial). When we turned in my applications for utilities, we presented the property as a residence. At no point did any utility company including Georgia Power, Constellation Natural Gas, and the City of Dawsonville (for water and garbage services) indicated that we had to establish a "commercial" account for the property. Only when we received a significantly highwater bill did we determine the zoning of the property was commercially zoned. We immediately went to the office of planning and zoning to determine what steps were necessary to change the zoning so we could use the property as we intended, as a residential home.

Currently the property is zoned as O-Office District. We received this information from the City of Dawsonville Planning and Zoning Website and reviewing the "City of Dawsonville Official Zoning Map." A review of the surrounding adjacent properties indicates several different zonings. We searched qPublic.net when preparing the application to change the zoning. The following information is for the adjacent properties and we used the zoning as indicated on the "City of Dawsonville Official Zoning Map" as the data on qPublic.net appears to be recently updated.

- 1818 Perimeter Road is also zoned O-Office District and extends from our property west towards Highway 53 with frontage on Perimeter Road. The property has a single-family home on it.
- 154 Sandberg Way (Lot 29) is zoned R-3 which located in a subdivision. The property
 extends the entire backside of our property. The property has a single-family home on it.
- 1710 Perimeter Road is zoned R-1 and extends from our property east on Perimeter Road with frontage on Perimeter Road. The property has a single-family home on it.
- 901 Highway 53 East is a 2.4-acre unincorporated property that abuts a corner of our property

Our property is already sandwiched with single family homes being used as residences. While at the time the property was incorporated into the City of Dawsonville it may have been used as a "business", we believe the property is better suited to be zoned as R-1 residential based on a review of the "City of Dawsonville Official Zoning Map" and the observation of the usage of the properties surrounding 1732 Perimeter Road. While researching zoning ordinances in preparation for this zoning application, there were several sections that we felt were applicable to our current situation. Article XXIL - Commercial Zoning Districts in General indicates that "Single-family residential use is permitted in any commercial zoning district unless otherwise noted with conditions herein." (Sec. 2204 - Single-family.) The current zoning of O-Office District allows the property to be used as a single-family residence (Article XXVII - O Office District Sec. 2802. - Permitted uses) While it appears these sections indicated our property can be used as "residential"; it will still be zoned commercial. We have already spent thousands of dollars on repair and maintenance of the property and intend to continue altering the property to meet the needs of our family. This will include modifications to the home that will require permits and other construction costs that will be far more expensive if the property maintains its commercial status. We bought a property to use as a residential home for our children that is connected to other properties with residential homes

The previous owner indicated that the property might be very valuable in the future as a "commercial" zoned property. While this may be true, that is not why we bought the property. We understand to some extent we may be losing "value" in the property. The property was bought to serve as a residential home for our family. Its proximity to the local schools, neighborhoods, parks, and the public library are ideal for our children. Our home, and the homes next to ours, set back from the road along with sidewalks/crosswalks will make it an excellent location to raise our family. We currently have four children living with us. Three of our children our currently enrolled in the Robinson Elementary School and Dawson County Junior High. I currently work for the State of Georgia and my wife is transitioning to a new career path. The general atmosphere of the local community, the excellent schools, and the overall setting of area are why we made the choice to move from an urban setting to a more rural one.

We believe the change in zoning from O-Office District to R-1 Residential is the best fit for this property. We believe we have made the best choice for our family, and we hope that you will decide this matter in our favor.

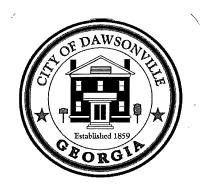
Thank you in advance for your time and consideration,

Robert L & Misty M. Howard

City Council: John Walden Caleb Phillips William Illg Mark French

Planning Commission:

Matt Fallstrom Randy Davis Anna Tobolski Sandy Sawyer



415 Highway 53 East, Suite 100
Dawsonville, GA 30534
Office (706)265-3256 Fax (706)265-4214
www.dawsonville.com

Mike Eason Mayor

Robert Bolz City Manager

Beverly Banister City Clerk

David Picklesimer Planning Director

Stacy Harris Zoning Admin Assistant

PUBLIC NOTICE

The following public hearings will be heard by the City of Dawsonville Planning Commission at 5:30 p.m. and/or the City Council beginning at 5:00 p.m. respectively on the dates indicated below. Public hearings are heard in the Council Chambers on the second floor at City Hall located at 415 Hwy 53 East, Dawsonville, Georgia 30534. The public is invited to participate.

ZA-C2200053: Robert Howard has petitioned a zoning amendment for TMP 093 058 Land Lot 429 13th District, Located at 1732 Perimeter Road from OD (Office District) to R-1 (Restricted Single Family Residential). Public Hearing Dates: Planning Commission on November 8, 2021 and City Council on December 6, 2021. City Council for a decision on December 20, 2021.

<u>ZSP-C2200055</u>: Cook Communities has petitioned site plan approval as required for single-family attached dwelling (townhouses) in the R-6, Multiple-Family Residential District for TMP D02 002 Land Lot 507 and 446 4th District, Located at 362 Maple Street. Public Hearing Dates: Planning Commission on November 8, 2021 and City Council on December 6, 2021. City Council for a decision on December 20, 2021.

<u>VAR-C2200057</u>: William Elliott has petitioned side and rear property setback and zoning buffers be reduced to 0' for TMP 068 063 001 and 068 063 002, Land Lot 86 4th District, Located at 2367 Elliott Family Parkway. Public Hearing: Planning Commission on November 8, 2021.

If you wish to speak on the requests, please contact City Hall for a CAMPAIGN DISCLOSURE form. This form is only needed if you have made campaign contributions in the amount of \$250.00 or more within 2 years prior to this date.

Those persons with disabilities who require reasonable accommodations in order to allow them to observe and/or participate in this meeting or who have questions regarding the accessibility of the meeting, should contact the Clerk at Dawsonville City Hall at 706-265-3256 at least two (2) business days prior to the meeting.

roperty will be sold :to:(a) any outstanding orem taxes (including which are a lien, but due and payable), (b) water or sewage bills nstitute a lien against operty whether due ivable or not yet due yable and which may of record, (c) the right emption of any taxing ity, (d) any matters might be disclosed accurate survey and tion of the property, e) any assessments, encumbrances, zoning restrictions, nces, and matters ord superior to the y Deed first set out

le will be conducted t to (1) confirmation not sale is ited under the U.S. iptcy Code; and (2) onfirmation and audit status of the loan with older of the Security Pursuant to O.C.G.A. 9-13-172.1, which for certain procedures ing the rescission of I and non-judicial sales State of Georgia, the **Jnder Power and other** sure documents may e provided until final nation and audit of the of the loan as provided diately above. NGTON SAVINGS FUND

TY, FSB, AS TRUSTEE TANWICH MORTGAGE TRUST C as agent and ey in Fact for Melissa LLP, Pite, ge 3575 Center,

ont iont Road, N.E., Suite ıtlanta, Georgia 30305, 994-7637. 2280A

FIRM MAY LAW DEBT CTING AS A ATTEMPTING CTOR OLLECT A DEBT. ANY **OBTAINED** MATION BE USED FOR THAT OSE. 2191-2280A 5343 10/6,13,20,27

tsone) e of Sale Under Power on County, Georgia

r and by virtue of the of Sale contained certain Georgia ity Deed and Security ment given by Janice /hetsone and William (collectively, 'hetstone itor") to LSC18, LLC, as nee of Truist Bank, f/k/a :h Banking and Trust pany ("Lender"), dated 25, 2008 and recorded 7, 2008 in Deed Book age 76, Dawson County, official records, fected by that certain. fication Agreement to gia Security Deed and

easements, hereditaments, members, and located appurtenances thereon and described in the Security Deed (collectively, the "Property"):

All that tract or parcel of land lying and being in Land Lot 506 of the South Half of the 13th District, First Section of Dawson County, Georgia and being known as part of Lot 7 of the Mrs. Shelton Pugh Estate as shown on a plat prepared by Owen Patton dated November 12, 1981 and entitled "Survey for Joseph C. Conawal" and particularly more described according to said plat as follows:

TO FIND THE TRUE POINT OF BEGINNING begin at the intersection of the easterly edge of the pavement of State Route No. 53 and the centerline of Highway No. 318; thence along the easterly edge of the pavement of Route No. 53 in a southerly direction 655.00 feet to a point; thence North 87 degrees 49 minutes 16 seconds East 51.60 feet to an iron pin on the easterly rightof-way of State Route No. 53 which iron pin is the TRUE POINT OF BEGINNING; thence from said beginning iron pin corner North 87 degrees 49 minutes 16 seconds East 264,76 feet to an iron pin on the land lot line dividing Land Lots 506 and 507 of the South Half, First Section, 13th Land District, Dawson County, Georgia; thence along said land lot line South 00 degrees 36 minutes 20 seconds East 100.00 feet to an iron pin; thence South 88 degrees 15 minutes 20 seconds West 242.73 feet to an Iron pin on the easterly right-of-way of State Route No. 53; thence along said right-of-way North 13 degrees 18 minutés West 100.00 feet to the beginning iron pin corner.

This is the same property described in a deed from Eugene Hyatt and Setsuko Hyatt dated August 25, 1986 to Dan H. Charles and Connie M. Charles recorded in Deed Book 91, Page 625, Dawson County, Georgia Deed Records which deed erroneously describes the being subject property known as Lot 7 of the Mrs. Shelton Pugh Estate. In fact said property is a portion of Lot 7 of the Mrs. Shelton

Pugh Estate. This property is also described in that certain plat of survey denominated as "Survey for William Whetstone and Jan Whetstone" dated 8/21/97 Frederick by prepared Youngman, Georgia Registered Surveyor No. 2160 and recorded at Plat Book 43, Page 33, Dawson County Plat

following described property, to wit:

O Regan Circle, Dawsonville, GA 30534 according to the present system of numbering properties in Dawson County Georgia, having Tax Parcel ID 054076001 and being further described as follows:

All that tract or parcel of land lying and being in

Parcel One: All that tract or parcel of land lying and being in land Lots 59 & 60, of the 4th District, 1st Section of Dawson County, Georgia and being described as Tract "K3", containing 0.225 acres, according to plat for Robert Harding, Janice Fleming & Douglas Hardin by Michael Stewart Kelly dated May 3, 1991 and recorded in Plat Book 25, Page 275, Dawson County, Georgia Plat Records. Said Plat is incorporated herein and made are hereof by reference.

Parcel Two: All that tract of land or parcel of land lying and being in land Lot 60, of the 4th District, 1st Section of Dawson County, Georgia and being described as Tract "K4", containing 1.59 acres, according to plat for Robert Harding, Janice Fleming & Douglas Hardin by Michael stewart Kelly dated May 3, 1991 and recorded in Plat Book 25, Page 275, Dawson County, Georgia Plat Records. Said Plat is incorporated herein and made are hereof by reference.

will expire and be forever foreclosed and barred on and after the 4th

day of November 2021, or Thirty days after legal service of this notice, whichever is

The tax deed to which this notice relates is dated the day of 14, August 2009

, and is recorded in the office of the Clerk of the Superior Court of Dawson

County, Georgia, in Deed Book 923 at page 364 -365. The property may redeemed at any time before the day of the November 4th 2021, or thirty days after legal service of this notice, whichever is later, by payment of the redemption price as fixed and provided by law to the undersigned at the following address: Cecil L. Pearce, Jr., 30 Miller Dawsonville, Georgia 30534. Please be governed

accordingly. Sincerely, Cecil L Pearce Jr. 56423 10/6,13,20,27

Local Government

Development Authority of Dawson County will hold its regular meeting on: October 26, 2021 Time: 8:00 am Place: 44 Commerce Drive.

Who: Dawson County Board of Education What: Fall Board Retreat and Training

Dawson County Where: Schools Technology Center at 175 Tiger Circle, Dawsonville, GA 30534

When: 11/8/2021 from 11AM-1PM, followed by a tour of facilities

Why: Charter Board Training & tour of Technology Center and Transportation Facility 56540 10/20

Public Hearings

Notice of Public Hearing public following hearings will be heard by the City of Dawsonville Planning Commission at 5:30 p.m. and/ or the City Council beginning at 5:00 p.m. respectively on the dates indicated below. Public hearings are heard the Council Chambers on the second floor at City Hall located at 415 Hwy 53 East, Dawsonville, Georgia 30534. The public is invited to participate.

ZA-C2200053: Robert Howard has petitioned a amendment zoning TMP 093 058 Land Lot 429 13th District, Located at 1732 Perimeter Road from OD (Office District) to R-1 Family Single (Restricted Residential). Public Hearing **Dates: Planning Commission** on November 8, 2021 and City Council on December 6, 2021. City Council for a decision on December 20,

Cook ZSP-C2200055: Communities has petitioned site plan approval as required for single-family attached dwelling (townhouses) in Multiple-Family R-6, Residential District for TMP D02 002 Land Lot 507 and 446 4th District, Located at 362 Maple Street. Public Planning Hearing Dates: Commission on November 8, 2021 and City Council on December 6, 2021. City Council for a decision on December 20, 2021.

VAR-C2200057: Elliott has petitioned side and rear property setback zoning buffers be reduced to 0' for TMP 068 063 001 and 068 063 002, Land Lot 86 4th District, Located at 2367 Elliott Family Parkway. Public Hearing: Planning Commission on November 8, 2021.

56570 10/20

Probate Notices

IN THE PROBATE COURT OF DAWSON COUNTY STATE OF GEORGIA

a notary public or before a probate court clerk, and filing fees must be tendered with your objections, unless you qualify to file as an indigent party. Contact probate court personnel for the required amount of filing fees. any objections are filed, a hearing will be (scheduled at a later date). Ifno objections are filed the petition may be granted without a hearing. Judge Jennifer Burt Judge of the Probate Court By Allie Phillips Clerk of the Probate Court 25 JUSTICE WAY, SUITE 4332 DAWSONVILLE, GA 30534 (706)344-3580

IN THE PROBATE COURT OF DAWSON COUNTY STATE OF GEORGIA

56530 10/20,27,11/3,10

INRE: BARBARA ANN BEARDEN DECEAS ED ESTATE NO. 2021-ES-148 PETITION FOR LETTERS OF **ADMINISTRATION** NOTICE

To whom it may concern: has Α Johnson petitioned to be appointed administrator(s) of the estate of Barbara Ann Bearden, deceased, of said county. (The petitioner has also applied for waiver of bond, waiver of reports, waiver of statements, and/or grant of certain powers contained in O.C.G.A. ss 53-12-261.) All interested persons are hereby notified to show cause why said petition should not be granted. All objections to the petition must be in writing, setting forth the grounds of any such objections, and must be filed with the Court on or before November 15th 2021.

BE NOTIFIED FURTHER: A objections to the Petition must be in writing, setting forth the grounds of any such objections. All objections should be sworn to before a notary public or before a Probate Court Clerk, and filing fees must be tendered with your objections, unless you qualify to file as an indigene party. Contact Probate Court personnel for the required amount of filing fees. If any objections are filed, a hearing will be scheduled at a later date. If no objections are filed, the Petition may be granted without a hearing. Judge Jennifer Burt Judge of the Probate COurt

By:Allie Phillips Clerk of the Probate Court 25 Justice Way, Suite 4332 Dawsonville, GA 30534 (706)344-3580

56595 10/20, 27,11/3,10

IN THE PROBATE COURT OF DAWSON COUNTY

overmient center, Justice Way, Dawsonville, GA 30534.

The public is invited to attend.

56828 11/3,10

Notice of Public Hearing following public hearings will be heard by the City of Dawsonville Planning Commission at 5:30 p.m. and/or the City Council beginning at 5:00 p.m. respectively on the dates indicated below. Public hearings are heard in the Council Chambers on the second floor at City Hall located at 415 Hwy 53 East, Dawsonville, Georgia 30534. The public is invited to participate.

ZA-C2200053: Robert Howard has petitioned a zoning amendment for TMP 093 058 Land Lot 429 13th District, Located at 1732 Perimeter Road from OD (Office District) to R-1 (Restricted Single Family Residential). Public Hearing Dates: Planning Commission on November 8, 2021 and City Council on December 6, 2021. City Council for a decision on December 20, 2021.

ZSP-C2200055: Cook Communities has petitioned plan site approval as required for single-family attached dwelling (townhouses) in the R-6, Multiple-Family Residential District for TMP D02 002 Land Lot 507 and 446 4th District, Located at 362 Maple Street. Public Hearing Dates: Planning Commission on November 8, 2021 and City Council on December 6, 2021. City Council for a decision on December 20, 2021.

56781 11/3

Public Notice

The Dawson County Planning Commission will hear the following requests on November 16, 2021 at 6:00 p.m. in the DAWSON COUNTY GOVERNMENT CENTER, ASSEMBLY ROOM 2303 located at 25 JUSTICE WAY, Dawsonville, Georgia: Application for Rezoning: ZA 21-22 Redo Properties, is requesting to TMP rezone 094-044 from RSR to RMF for the purpose of bringing a nonconforming use into zoning compliance. Reeves Road The Dawson County Board of Commissioners will hear

Aviling Administrator at 706-344-3500, ext. 42336. All interested parties are invited to attend and be heard.

If you should wish to speak favor or opposition above listed application, please contact this office for a Campaign Disclosure Form. This must be completed and filed with this office prior to the meeting date. This is only necessary if you have made campaign contributions in the amount of \$250,00 or more within 2 years prior to this date.

56835 11/3,10

Public Notice The Dawson County Planning Commission will hear the following requests on November 16, 2021 at 6:00 p.m. in the DAWSON COUNTY GOVERNMENT CENTER, ASSEMBLY ROOM 2303 located at 25 JUSTICE WAY, Dawsonville, Georgia: Application for Special Use and Variance:

SU 21-07 Greg Spence obo Verizon Wireless is requesting a Special Use of TMP 049 001 for the purpose of placing telecommunications tower. Hwy 52 E

VR 21-19 Greg Spence obo Verizon Wireless is requesting a variance to the Dawson County Land Use Resolution Article IV Section 410 F.4

The Dawson County Board of Commissioners will hear SU 21-07 & VR 21-19 at their regularly scheduled meeting on December 16, 2021 Dawson County Board of Commissioners? regular voting session p.m.at the DAWSON COUNTY GOVERNMENT CENTER, ASSEMBLY ROOM 2303 located at 25 JUSTICE WAY, Dawsonville, Georgia. If you have any questions or concerns regarding this application or need special accommodations please contact Harmony Gee, Zoning Administrator at 706-344-3500, ext. 42336. All interested parties are invited to attend and be heard.

If you should wish to speak favor or opposition above listed application, please contact this office for a Campaign Disclosure Form. This must be completed and filed with this office prior to the meeting date. This is only necessary if you have made

securioek storage - 184 Carlisle Rd Dawsonville, GA 30534 Jason

McWilliams: Halloween and Christmas decorations, frames, electronics, and kitchen utensils. Kelly Roberts:

Boxes, mattress, clothes, bean bag, chair, toys, totes, and VCR/DVD player.

56838 11/3,10

Probate Notices

IN THE PROBATE COURT OF DAWSON COUNTY STATE OF GEORGIA

INRE: Harmon Arthur Williams II DECEASED

ESTATE NO. 2021-ES-141 NOTICE OF PETITION TO FILE FOR YEAR'S SUPPORT The petition of Diana L. Williams for a year's support from the estate of Harmon Arthur Williams II deceased, for decedent's (surviving spouse)(and) (minor child(ren)), having all been duly filed. interested persons are hereby notified to show cause, if any they have, on or before November 8th,2021, why said petition should not be granted.

objections to the petition must be in writing, setting forth the grounds of any such objections, and must be filed on or before the time stated in the preceding sentence. All objections should be sworn to before a notary public or before a probate court clerk, and filing fees must be tendered with your objections, unless you qualify to file as an indigent party. Contact probate court personnel for the required amount of filing If any objections are filed, a hearing will be (scheduled at a later date). If no objections are filed the petition may be granted without a hearing. Judge of the Probate Court Clerk of the Probate Court

Judge Jennifer Burt By Allie Phillips

25 Justice Way, Suite 4332 Dawsonville, GA 30534 (706)344-3580

56433 10/13,20,27,11/3

IN THE PROBATE COURT OF DAWSON COUNTY STATE OF **GEORGIA** IN RE: JOE EDWIN TOUNZEN SR.

All interested persons are hereby notified to show cause why said petition should not be granted. All objections to the petition must be in writing, setting forth the grounds of any such objections, and must be filed with the Court on or before November 15th. 2021.

BE NOTIFIED FURTHER: All objections to the Petition must be in writing, setting forth the grounds of any such objections. All objections should be sworn to before a notary public or before a Probate Court Clerk, and filing fees must be tendered with your objections, unless you qualify to file as an indigent party. Contact Probate Court personnel for the required amount of filing fees. If any objections are filed, a hearing will be scheduled at a later date. If no objections are filed, the Petition may be granted without a hearing. Judge Jennifer Burt Judge of the Probate COurt By:Allie Phillips Clerk of the Probate Court 25 Justice Way, Suite 4332 Dawsonville, GA 30534 (706)344-3580 56595 10/20, 27,11/3,10

IN THE PROBATE COURT OF DAWSON COUNTY STATE OF GEORGIA

INRE: BRIAN THOMAS RAS T **DECEAS ED** ESTATE NO. 2021-ES-150 PETITION FOR LETTERS OF **ADMINISTRATION**

NOTICE To whom it may concern: Lisa Wise has petitioned

in O.C.G.A. \$ 53-1 All interested perso hereby notified to cause why said p should not be granted. All obj to the petition m in writing, setting the grounds of an objections, and m filed with the Court before November 29 BE NOTIFIED FU All objections to Petition must be in v setting forth the gi of any such obje All objections show sworn to before a public or before a P Court Clerk, and filin must be tendered your objections, you qualify to file indigent party. Co Probate Court pers for the required amo filing fees. If any obje are filed, a hearing v scheduled at a later c no objections are file Petition may be gr without a hearing. Judge Jennifer Burt Judge of the Probate By Allie Phillips

(706)344-3580 56816 11/3,10,17,

Clerk of the Probate C

25 Justice Way, Suite 4

Dawsonville, GA 3053

IN THE PROBATE CO OF DAWSON COUNT STATE OF GEORGIA INRE:

KINSER WILLIAM **GALLOWAY DECEAS EI** ESTATE NO. 2021-ES-PETITION FOR LETTE F **ADMINISTRATION** NOTICE

To whom it may conce

Place y ad tod Call 706-265-



DAWSONVILLE CITY COUNCIL EXECUTIVE SUMMARY FOR AGENDA ITEM # 9

SUBJECT: ZSP-C2200055		
CITY COUNCIL MEETING DATE: 12/06/2021		
BUDGET INFORMATION: GL ACCOUNT #		
☐ Funds Available from: Annual Budget: Capital Budget: Other☐ Budget Amendment Request from Reserve: Enterprise Fund: General Fund		
PURPOSE FOR REQUEST: PUBLIC HEARING		
ZSP-C2200055: Cook Communities has petitioned site plan approval as required for single-family attached dwelling (townhouses) in the R-6, Multiple-Family Residential District for TMP D02 002 Land Lot 507 and 446 4 th District, Located at 362 Maple Street. Public Hearing Dates: Planning Commission on November 8, 2021 and City Council on December 6, 2021. City Council for a decision on December 20, 2021.		
 HISTORY/ FACTS / ISSUES: The R6 zoning was approved 10.01.2007. The R6 zoning was approved with the following conditions: dedicate additional right of way, covenants shall identify the project as active adult, widen Maple Street South asphalt travel lane two feet, twenty percent of the dwellings shall meet handicap accessibility requirements. Traffic study was submitted and reviewed by the city. The study recommended right turn decel lane and widen Maple Street South. The original number of units for both combined parcels was approved for 92 units. 		
 Both parcels combined will now have a total 74 units. That's a reduction of 18 units from the original approved units. The revised site plan meets the current R6 city ordinance requirements. Planning Commission approved the site plan 11.08.2021. 		
OPTIONS: No action required		
RECOMMENDED SAMPLE MOTION:		
DEPARTMENT: Planning and Zoning		
REQUESTED BY: David Picklesimer_		

415 Highway 53 E. Suite 100 Dawsonville, Georgia 30534



(706) 265-3256 Fax (706) 265-4214 www.dawsonville-ga.gov

Date: 11/9/2021

To: Mayor and City Council

Reference: ZSP C2200055 Planning and Zoning Department summary for a site plan approval.

The Planning Department has provided the following pertinent information to help you decide on this request:

- 1. Property is in Caleb Phillips Post 1 district.
- 2. The revised site plan meets the current R6 city ordinance requirements.
- 3. The R6 zoning was approved 10/1/07.
- 4. The R6 zoning was approved with the following conditions: dedicate additional right of way, covenants shall identify the project as active adult, widen Maple Street South asphalt travel lane two feet, twenty percent of the dwellings shall meet handicap accessibility requirements.
- Traffic study was submitted and reviewed by the city. The study recommended right turn decel lane and widen Maple Street South.
- 6. The original number of units for both combined parcels was approved for 92 units.
- 7. Both parcels combined will now have a total 74 units. That's a reduction of 18 units from the original approved units.
- 8. Planning Commission approved the site plan November 8, 2021.

David Picklesimer Planning Director

415 Highway 53 E. Suite 100 Dawsonville, Georgia 30534



(706) 265-3256 Fax (706) 265-4214 www.dawsonville-ga.gov

Date: 10/8/2021

To: City of Dawsonville Planning Commission

Reference: ZSP C2200055 Planning and Zoning Department summary for a site plan approval.

The Planning Department has provided the following pertinent information to help you decide on this request:

- 1. Property is in Randy Davis Post 1 district.
- 2. The revised site plan meets the current R6 city ordinance requirements.
- 3. The R6 zoning was approved 10/1/07.
- 4. The R6 zoning was approved with the following conditions: dedicate additional right of way, covenants shall identify the project as active adult, widen Maple Street South asphalt travel lane two feet, twenty percent of the dwellings shall meet handicap accessibility requirements.
- Traffic study was submitted and reviewed by the city. The study recommended right turn decel lane and widen Maple Street South.
- 6. The original number of units for both combined parcels was approved for 92 units.
- 7. Both parcels combined will now have a total 74 units. That's a reduction of 18 units from the original approved units.

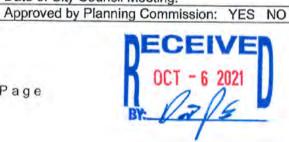
David Picklesimer Planning Director



415 Highway 53 East, Suite 100 Dawsonville, GA 30534 (706) 265-3256

Zoning Amendment Application

Phone:	Address: 3120 Frontage Road	- Gainesville	20504
Signature(s)	(MATW.E.2.)	City: Gainesville	Zip: 30504
Property Address: 362 Maple Street S - Dawsonville, GA 30534 Directions to Property from City Hall: Highway 53W (0.3 Miles) / Left on Academy Ave (0.4 Miles) / Left on Maple Street (0.3 Miles) Tax Map # D02 002		Email:	40.0.04
Directions to Property from City Hall: Highway 53W (0.3 Miles) / Left on Academy Ave (0.4 Miles) / Left on Maple Street (0.3 Miles) Tax Map # D02 002	Signature(s)		Date_10-6-21
Tax Map # D02 002			
Land Lot(s): 446 & 507 District: 4th Section: 1st Lot # N/A Acres: 6.16 Acres Current use of property: Single-Residence with Outbuildings Has a past request of Rezone of this property been made before? The applicant request: Rezoning to zoning category: (Site Plan Approval) Proposed use of property if rezoned: Single-Family Attached Neighborhood Residential # of lots proposed; 31 Minimum lot size proposed 2,800 S.F. (Include Conceptual Plan) Amenity area proposed N/A (50% openspace), if yes, what If Commercial: total building area proposed: (Include Conceptual Plan) Utilities: (utilities readily available at the road frontage): X Water X Sewer X Electric Natural Gas Proposed Utilities: (utilities developer intends to provide) X Water X Sewer X Electric Natural Gas	Directions to Property from City Hall: Highway 53W (0.3	Miles) / Left on Academy Ave (0.4 Miles)	/ Left on Maple Street (0.3 Miles)
Subdivision Name: N/A Acres: 6.16 Acres Current use of property: Single-Residence with Outbuildings Has a past request of Rezone of this property been made before? Yes	Tax Map #Pa	rcel#_D02 002Curr	rent Zoning: R-6
Subdivision Name: N/A Acres: 6.16 Acres	Land Lot(s): 446 & 507 Dis	strict: 4th Sec	tion: 1st
Has a past request of Rezone of this property been made before? Sirgle-Family Attached Neighborhood Conditional Use permit for: Proposed use of property if rezoned: Single-Family Attached Neighborhood Residential #of lots proposed; 31	Subdivision Name: N/A		
The applicant request: Rezoning to zoning category: (Site Plan Approval) Conditional Use permit for: Proposed use of property if rezoned: Single-Family Attached Neighborhood Residential #of lots proposed: 31			
The applicant request: Rezoning to zoning category: (Site Plan Approval) Conditional Use permit for: Proposed use of property if rezoned: Single-Family Attached Neighborhood Residential #of lots proposed; 31	Has a past request of Rezone of this property been made	before? Yes, prov	ide ZA# 6-07-1556 f.
	If Commercial: total building area proposed: Utilities:(utilities readily available at the road frontage Proposed Utilities:(utilities developer intends to provi	e): X Water X Sewer X Electric de) X Water X Sewer X Electric	Natural Gas
		Type of Surface: Ashalt	
Failure to complete all sections will result in rejection of application and unnecessary delays. I understand that failure to appear at a public hearing may result in the postponement or denial of this application. Signature of Applicant Date	Road name: Maple Street Failure to complete all sections will result I understand that failure to appear at a pub	t in rejection of application and unne lic hearing may result in the postpon	cessary delays. ementor denial of this application. 3-21
I understand that fallure to appear at a public hearing may result in the postponement or denial of this application.	Road name: Maple Street Failure to complete all sections will result I understand that failure to appear at a pub Signature of Applicant Office Use Only	t in rejection of application and unne lic hearing may result in the postpon 10-6	cessary delays. ement or denial of this application. 6-21 Date
I understand that failure to appear at a public hearing may result in the postponement or denial of this application. 10-6-21 Date	Failure to complete all sections will result I understand that failure to appear at a pub Signature of Applicant Office Use Only Date Completed Application Rec'd: C	t in rejection of application and unne lic hearing may result in the postpon	cessary delays. ement or denial of this application. 6-21 Date CC SOLUTION



Date of City Council Meeting:

Date:

Approved by City Council: YES NO

NO

Postponed: YES

415 Highway 53 East, Suite 100 Dawsonville, GA 30534 (706) 265-3256

Zoning Amendment Campaign Disclosure

Disclosure of Campaign Contributions

(Applicant(s) and Representative(s) of Rezoning)

Pursuant to OCGA, Section 36-67 A-3. A, the following disclosure is mandatory when an applicant or any representation of application for rezoning has been made with two years immediately preceding the filing of the applicant's request for rezoning, campaign contributions aggregating \$250.00 or more to a local government official who will consider the application for rezoning.

It shall be the duty of the applicant and the attorney representing the applicant to file a disclosure with the governing authority of the respective local government showing the following:

1.	Name of local official to whom campaign contribution	n was made:
	N/A	
2.	The dollar amount and description of each campaigr opponent to the local government official during the preceding the filing of the application for the rezonin each such contribution.	two years immediately
	Amount \$Date:	
made to the	on and description of each gift when the total value on the local government official during the 2 years immed in for rezoning:	liately preceding the filing
		10 -6-2 1
Signat	ure of Applicant / Representative of Applicant	Date

Failure to complete this form is a statement that no disclosure is required.



415 Highway 53 East, Suite 100 Dawsonville, GA 30534 (706) 265-3256

Zoning Amendment Authorization

Property Owner Authorization

	- 11 71 A	- 16 -1 =	hat I / we own the proper
we william 8. Zoope accepted at (fill in address and/or tax map's parcel	Cel#) 362 M	1918 51 5	D 0 2 0 0 2
the tax maps and/or deed records of Dawson	n County, Georgia, and	d which parcel will b	
nereby authorize the person(s) or entity(ies) n	amed below to act as	the applicant or age	ent in pursuit of the
zoning requested on this property. I understa			
aced on the property will be binding upon the			
thorized to make this application. The unders			
same land shall be acted upon within 6 mor			
inted Name of Applicant or Agent KEITH	1		
gnature of Applicant or Agent illing Address 3120 FRONTAGE ROAD	U		Date
V GAWESVILLE	State GA	Zip 3050	214
ephone Number	State On		T
JBSCRIBED AND SWORN BEFORE ME OF	NTHIS		
U Worken	21		
4 DAY OF OCTOBAL	2021		
ary Public, State of Georgia	The street of th		Martin M
Commission Expires: 7 15 2024			Notary Seal
	12-13-13-13-13-13-13-13-13-13-13-13-13-13-		



415 Highway 53 East, Suite 100 Dawsonville, GA 30534 (706) 265-3256 Zoning Amendment Campaign Disclosure

Disclosure of Campaign Contributions
(Applicant(s) and Representative(s) of Rezoning)

Pursuant to OCGA, Section 36-67 A-3. A, the following disclosure is mandatory when an applicant or any representation of application for rezoning has been made with two years immediately preceding the filing of the applicant's request for rezoning, campaign contributions aggregating \$250.00 or more to a local government official who will consider the application for rezoning.

It shall be the duty of the applicant and the attorney representing the applicant to file a disclosure with the governing authority of the respective local government showing the following:

	1.10	nom campaign contribution was m	aus.
2.	announced to the local days	scription of each campaign contrit ernment official during the two yes application for the rezoning action	at 5 Illimodicately
	Amount \$	Date:	
made to t	he local government official	n gift when the total value of all gif I during the 2 years immediately p	preceding the ining
	THE STATE OF THE STATE OF		

Failure to complete this form is a statement that no disclosure is required.

(The complete names of all owners must be listed, if the owner is a partnership, the names of all partners must be listed, if a joint venture, the names of all members must be listed. If a separate sheet is needed to list all names, please have the additional sheet notarized also.)



City of Dawsonville

415 Highway 53 East, Suite 100 Dawsonville, GA 30534 (706) 265-3256

Zoning Amendment Adjacent Property Owners

Application # ZA - C	20	100	055
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TMP# D02 002

It is the responsibility of the applicant to provide a list of adjacent property owners. This list must include the name and address of anyone who has property touching your property or who has property directly across the street from your property. (Use additional sheets if necessary)

Please note This information should be obtained at the Planning Office using the Tax Map Parcel Map listing any parcel(s) adjoining or adjacent to parcel where rezone is being requested.

TMP # 083 038 076 1.	Name(s): Josiah M. Buwalda
MAN CONTRACTOR	Address: 148 Angela Lane
	Dawsonville, GA 30534
TMP # 083 038 075 2.	Name(s): David Christopher Gallagher
	Address: 136 Angela Lane
	Dawsonville, GA 30534
TMP # 083 038 074 3.	Name(s): Xiqing Yang & Chunqin Yu
	Address: 130 Angela Lane
	Dawsonville, GA 30534
TMP # 083 038 4.	Name(s): Angela B Fowler c/o Hubert Tinsley
	Address: 76 Tinsley Chapel Rd.
	Dawsonville, GA 30534
TMP #_083 038 008 5.	Name(s): Susan Denise Hughes
	Address: 7240 Highbrook Cir. E
	Cumming, GA 30041
TMP # 083 038 006 6.	Name(s): Kevin Meyers
	Address: 408 Maple Street S
	Dawsonville, GA 30534
TMP # D02 003 083 7.	Name(s): Galina & Angelina Belistova
J. (1	Address: 50 Pearls Way
	Dawsonville, GA 30534

Adjacent Property Owner notification of a zoning amendment request is required.

(The complete names of all owners must be listed, if the owner is a partnership, the names of all partners must be listed, if a joint venture, the names of all members must be listed. If a separate sheet is needed to list all names, please have the additional sheet not arrived also.)



City of Dawsonville

415 Highway 53 East, Suite 100 Dawsonville, GA 30534 (706) 265-3256

Zoning Amendment Adjacent Property Owners

Application #_Z	A -	Ca	12	000	55

TMP# D02 002

It is the responsibility of the applicant to provide a list of adjacent property owners. This list must include the name and address of anyone who has property touching your property or who has property directly across the street from your property. (Use additional sheets if necessary)

Please note This information should be obtained at the Planning Office using the Tax Map Parcel Map listing any parcel(s) adjoining or adjacent to parcel where rezone is being requested.

TMP # D02 001 1.	Name(s): Livic Properties LLC
dim direct permits	Address: 3575 Bonnerville Drive
	Cumming, GA 30041
TMP # 083 038 082 2.	Name(s): Livic Properties LLC
7)	Address: 3575 Bonnerville Drive
	Cumming, GA 30041
TMP # 083 038 062 3.	Name(s): Melissa King
	Address: 61 Driftwood Trail
	Dawsonville, GA 30534
TMP # 083 038 061 4.	Name(s): Blake Evan Kimbrell
	Address: 64 Driftwood Trail
	Dawsonville, GA 30534
TMP # 083 038 060 5.	Name(s): James J. Thomas and Joanna Thomas Chesley
N. V. C.	Address: P.O. Box 3438
	Cumming, GA 30028
TMP # 083 038 004 6.	Name(s): Wen Shi
7.	Address: 184 Angela Lane
	Dawsonville, GA 30534
TMP # 083 038 003 7.	Name(s): Anita Seay
W. 2007 - 17	Address: 168 Angela Lane
	Dawsonville, GA 30534

Adjacent Property Owner notification of a zoning amendment request is required.

 $(The complete names of all owners must be listed, if the owner is a partner ship, the names of all partners must be listed, if a joint venture, the names of all members must be listed. If a separate sheet is needed to list all names, please have the additional sheet <math>\underbrace{notarized}_{notarized}$ also.)



Application # ZA - 2200055

City of Dawsonville

415 Highway 53 East, Suite 100 Dawsonville, GA 30534 (706) 265-3256

Zoning Amendment Adjacent Property Owners

Application # <u>ZA - 🔾 </u>	00055	TMP#_D02 003
It is the responsibility of the and address of anyone who your property. (Use addition	has property touching your propert	nt property owners. This list must include the name or who has property directly across the street from
Please note This informa parcel(s) adjoining or adjac	ation should be obtained at the Plan cent to parcel where rezone is bein	ning Office using the Tax Map Parcel Map listing any grequested.
TMP # D02 003 1.	Name(s): Timothy R Chatham	
674	Address: 10 Pearl Chambers I	rive
	Dawsonville, GA 305	34
TMP # D02 003 001 2.	Name(s): Gwendolyn M Young	
0000	Address: 11 Pearl Chambers D	rive
	Dawsonville, GA 305	34
TMP # D02 025 001 3.		oeth Dianne Long
	Address: 1106 Red Bud Circle	
	Villa Rica, GA 30180	-5329
TMP #	Name(s):	
TMP # 5.	Name(s):	
	Santa Vala	
TMP #6.	Name(s):	
	Address:	
TMD #	The state of the s	
TMP #7.	Name(s):	

Adjacent Property Owner notification of a zoning amendment request is required.

Address:



October 6th, 2021

City of Dawsonville 415 Highway 53 East, Suite 100 Dawsonville, GA 30534 (706) 265-3256

LETTER OF INTENT

Site Plan Approval for 362 Maple Street – Dawsonville, GA Tax Parcel No. D02 002 L.L. 446 & 507 / 4th District / 1st Section

Cook Communities submits this Letter of Intent and attached Application for the purpose of receiving Site Plan Approval as required for Single-Family Attached Dwellings (townhouses) in the R-6, Multiple-Family Residential Zoning District. The property is located at 362 Maple Street in Dawsonville, Georgia.

Cook Communities proposes to develop a distinctive and attractive single-family attached neighborhood consisting of 31 townhomes. Each townhome will have 1,600 S.F.+ of heated floor space and will include 3 bedrooms, 2.5 bathrooms and a two-car garage. The proposed units will include attractive architectural elements, which consist of brick/stone water tables and hardiplank siding and will meet or exceed the same quality and price point of homes in the surrounding area. Access for the development will be provided along Maple Street, directly across from the Maple Street Townhome Development located on Pearl Chambers Drive. The entrance will have an attractive monument-type sign with landscaping. The provisions for water and sanitary sewer for the development will be provided by the City of Dawsonville.

The applicant and its representatives welcome the opportunity to meet with the City of Dawsonville staff to answer any questions or concerns you may have. Cook Communities respectfully requests your approval of this Site Plan application.

Respectfully,

Cook Communities

Keith Cook

ANDL. SECTION OF LANGE OF COUNTY, GEORGE
SURVEYED AND PLAT DRAWN 1982

TOTAL AGRES 1 10 MORE OR LESS.

SGALE 1 IN. = 45. FT.

RTE. 1 CUMMING, GAL THAD P. THOMASE SURVEYOR

Tisar sixon



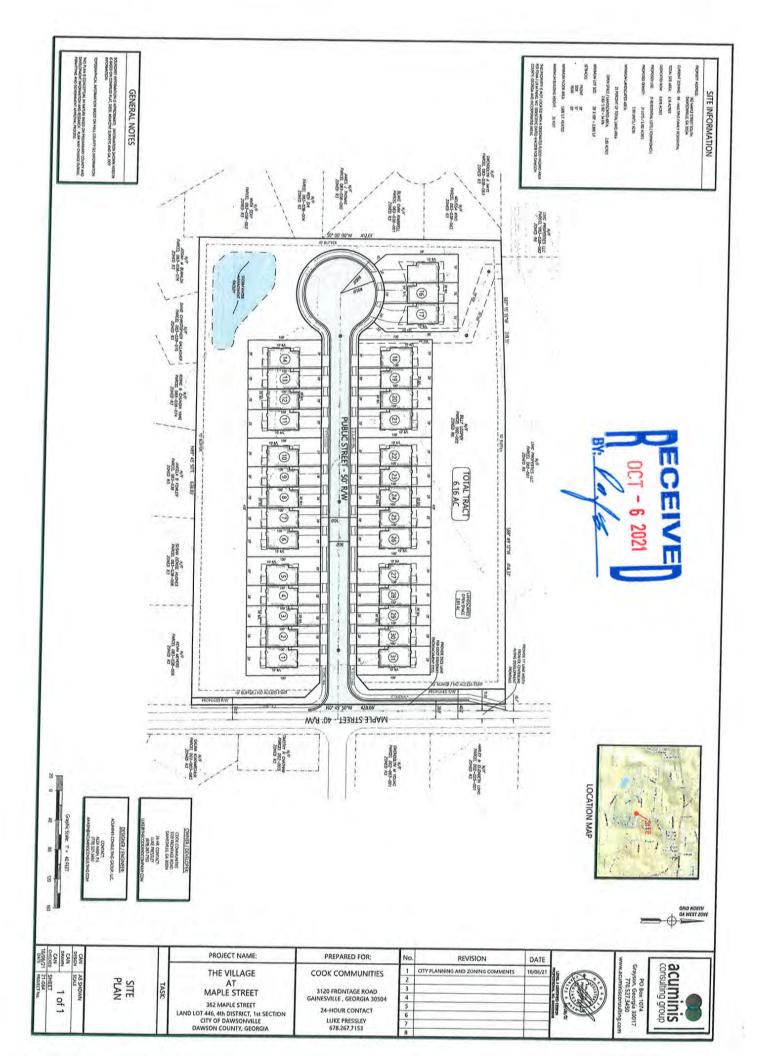
Filed & Rocardelo 7-22-63 Rafi Maldon

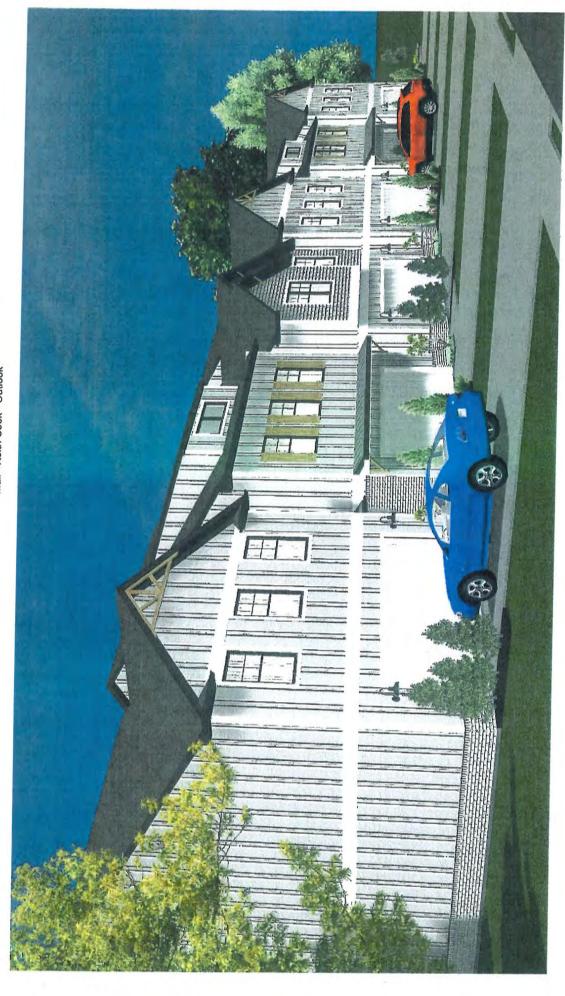
Plat Books Page 120 CLYDE CASTLEBERRY CO., COVINGTON, GA. 30209

Exhibit "A"

All that fract or parcel of land lying and being in Land Lot 507 and 446 of the 4th District and 1th Section of Dawson County, Georgia and more particularly described as follows: Beginning at a point on the West side of Maple Street in the Town of Dawsonville, Georgia, which point is located North 80 degrees. East 640 feet from the North and South line of the West side of said Land Lot 507, which beginning point is designated by an iron stake, thence North 1 degree, West 300 feet to the East and West original line dividing Land Lots 507 and 446, thence continuing 126 feet along the West side of Maple Street to a stake on the West side of Maple Street thence along a dead end road South 89 degrees West 640 feet to an iron state with is located on the North and South original line, thence along the North and South original line on the West side of Land Lot 446 and 507 South 1 degree flast 426 feet to an iron stake thence North 89 degrees East 640 feet to an iron stake, the beginning point which lands contain 6.25 acres and which is shown by a plat made by Thad P. Thomas as is recorded in the office of the Clerk of the Superior Court of said County in Plat Book 1, Page 120 and to which reference is herein made.

William I. Loopen











City Council: John Walden Caleb Phillips William Illg Mark French

Planning Commission:

Matt Fallstrom Randy Davis Anna Tobolski Sandy Sawyer



415 Highway 53 East, Suite 100
Dawsonville, GA 30534
Office (706)265-3256 Fax (706)265-4214
www.dawsonville.com

Mike Eason Mayor

Robert Bolz City Manager

Beverly Banister City Clerk

David Picklesimer Planning Director

Stacy Harris Zoning Admin Assistant

PUBLIC NOTICE

The following public hearings will be heard by the City of Dawsonville Planning Commission at 5:30 p.m. and/or the City Council beginning at 5:00 p.m. respectively on the dates indicated below. Public hearings are heard in the Council Chambers on the second floor at City Hall located at 415 Hwy 53 East, Dawsonville, Georgia 30534. The public is invited to participate.

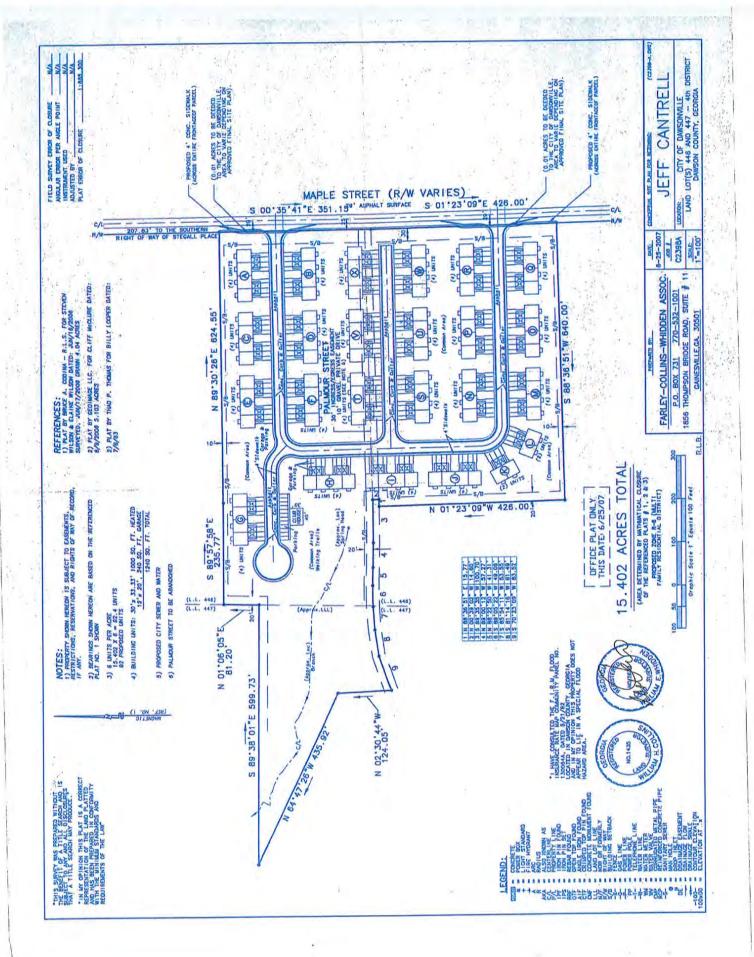
<u>ZA-C2200053</u>: Robert Howard has petitioned a zoning amendment for TMP 093 058 Land Lot 429 13th District, Located at 1732 Perimeter Road from OD (Office District) to R-1 (Restricted Single Family Residential). Public Hearing Dates: Planning Commission on November 8, 2021 and City Council on December 6, 2021. City Council for a decision on December 20, 2021.

<u>ZSP-C2200055</u>: Cook Communities has petitioned site plan approval as required for single-family attached dwelling (townhouses) in the R-6, Multiple-Family Residential District for TMP D02 002 Land Lot 507 and 446 4th District, Located at 362 Maple Street. Public Hearing Dates: Planning Commission on November 8, 2021 and City Council on December 6, 2021. City Council for a decision on December 20, 2021.

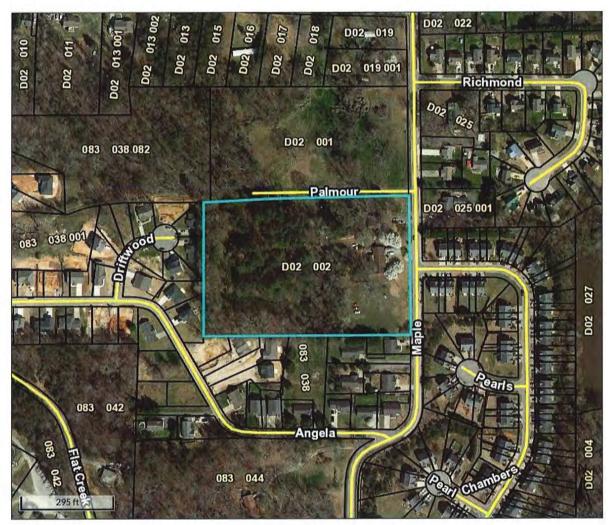
<u>VAR-C2200057:</u> William Elliott has petitioned side and rear property setback and zoning buffers be reduced to 0' for TMP 068 063 001 and 068 063 002, Land Lot 86 4th District, Located at 2367 Elliott Family Parkway. Public Hearing: Planning Commission on November 8, 2021.

If you wish to speak on the requests, please contact City Hall for a CAMPAIGN DISCLOSURE form. This form is only needed if you have made campaign contributions in the amount of \$250.00 or more within 2 years prior to this date.

Those persons with disabilities who require reasonable accommodations in order to allow them to observe and/or participate in this meeting or who have questions regarding the accessibility of the meeting, should contact the Clerk at Dawsonville City Hall at 706-265-3256 at least two (2) business days prior to the meeting.



@ qPublic.net™ Dawson County, GA



Overview

☐ Parcels

Parcel ID: D02 002

Alt ID: 58

Owner: LOOPER BILLY

Acres: 6

Assessed Value: \$294450

Date created: 10/8/2021 Last Data Uploaded: 10/8/2021 12:58:52 AM

Developed by Schneider

roperty will be sold :to:(a) any outstanding orem taxes (including which are a lien, but due and payable), (b) water or sewage bills nstitute a lien against operty whether due ivable or not yet due yable and which may of record, (c) the right emption of any taxing ity, (d) any matters might be disclosed accurate survey and tion of the property, e) any assessments, encumbrances, zoning nces, restrictions, matters and ints, ord superior to the y Deed first set out

ile will be conductedt to (1) confirmation sale not is the ited under the U.S. iptcy Code; and (2) onfirmation and audit status of the loan with older of the Security Pursuant to O.C.G.Á. n 9-13-172.1, which for certain procedures ing the rescission of I and non-judicial sales State of Georgia, the Jnder Power and other sure documents may e provided until final nation and audit of the of the loan as provided diately above.

NGTON SAVINGS FUND TY, FSB, AS TRUSTEE TANWICH MORTGAGE TRUST C as agent and ley in Fact for Melissa

ge Pite, LLP, 15 iont Center, 3575 iont Road, N.E., Suite tlanta, Georgia 30305, 994-7637. 2280A

LÁW FIRM MAY
ICTING AS A DEBT
ECTOR ATTEMPTING
OLLECT A DEBT. ANY
IMATION OBTAINED
BE USED FOR THAT
DSE. 2191-2280A
343 10/6,13,20,27

tsone)
e of Sale Under Power
on County, Georgia
r and by virtue of the

r and by virtue of the of Sale contained certain Georgia ity Deed and Security ment given by Janice /hetsone and William 'hetstone (collectively, (tor") to LSC18, LLC, as nee of Truist Bank, f/k/a :h Banking and Trust pany ("Lender"), dated 25, 2008 and recorded 7, 2008 in Deed Book age 76, Dawson County, official records, fected by that certain. fication Agreement to gia Security Deed and

easements, hereditaments, rights, members, and appurtenances located thereon and described in the Security Deed (collectively, the "Property"):

All that tract or parcel of land lying and being in Land Lot 506 of the South Half of the 13th District, First Section of Dawson County, Georgia and being known as part of Lot 7 of the Mrs. Shelton Pugh Estate as shown on a plat prepared by Owen Patton dated November 12, 1981 and entitled "Survey for Joseph C. Conawal" and particularly more described according to said plat as follows:

TO FIND THE TRUE POINT OF BEGINNING begin at the intersection of the easterly edge of the pavement of State Route No. 53 and the centerline of Highway 318; thence along No. the easterly edge of the pavement of Route No. 53 in a southerly direction 655.00 feet to a point; thence North 87 degrees 49 minutes 16 seconds East 51.60 feet to an iron pin on the easterly rightof-way of State Route No. 53 which iron pin is the TRUE POINT OF BEGINNING; thence from said beginning iron pin corner North 87 degrees 49 minutes 16 seconds East 264.76 feet to an iron pin on the land lot line dividing Land Lots 506 and 507 of the South Half, First Section, 13th Land District, Dawson County, Georgia; thence along said land lot line South 00 degrees 36 minutes 20 seconds East 100.00 feet to an iron pin; thence South 88 degrees 15 minutes 20 seconds West 242.73 feet to an iron pin on the easterly right-of-way of State Route No. 53; thence along said right-of-way North 13 degrees 18 minutes West 100.00 feet to the beginning iron pin corner.

This is the same property described in a deed from Eugene Hyatt and Setsuko Hyatt dated August 25 1986 to Dan H. Charles and Connie M. Charles recorded in Deed Book 91, Page 625, Dawson County, Georgia Deed Records which deed erroneously describes the subject being property known as Lot 7 of the Mrs. Shelton Pugh Estate. In fact said property is a portion of Lot 7 of the Mrs. Shelton Pugh Estate.

Pugh Estate.
This property is also described in that certain plat of survey denominated as "Survey for William Whetstone and Jan Whetstone" dated 8/21/97 prepared by Frederick C. Youngman, Georgia Registered Surveyor No. 2160 and recorded at Plat Book 43, Page 33, Dawson County Plat

following described property, to wit:

O Regan Circle, Dawsonville, GA 30534 according to the present system of numbering properties in Dawson County Georgia, having Tax Parcel ID 054076001 and being further described as follows:

All that tract or parcel of land lying and being in

Parcel One: All that tract or parcel of land lying and being in land Lots 59 & 60, of the 4th District, 1st Section of Dawson County, Georgia and being described as Tract "K3", containing 0.225 acres, according to plat for Robert Harding, Janice Fleming & Douglas Hardin by Michael Stewart Kelly dated May 3, 1991 and recorded in Plat Book 25, Page 275, Dawson County, Georgia Plat Records. Said Plat is incorporated herein and made are hereof by reference.

Parcel Two: All that tract of land or parcel of land lying and being in land Lot 60, of the 4th District, 1st Section of Dawson County, Georgia and being described as Tract "K4", containing 1.59 acres, according to plat for Robert Harding, Janice Fleming & Douglas Hardin by Michael Stewart Kelly dated May 3, 1991 and recorded in Plat Book 25, Page 275, Dawson County, Georgia Plat Records. Said Plat is incorporated herein and made are hereof by reference.

will expire and be forever foreclosed and barred on and after the 4th

day of November 2021, or Thirty days after legal service of this notice, whichever is later.

The tax deed to which this notice relates is dated the day of 14, August 2009, and is recorded in the office

of the Clerk of the Superior Court of Dawson County, Georgia, in Deed

County, Georgia, in Deed Book 923 at page 364-365. The property may be redeemed at any time before the day of the November 4th 2021, or thirty days after legal service of this notice, whichever is later, by payment of the redemption price as fixed and provided by law to the undersigned at the following address: Cecil L. Pearce, Jr., 30 Miller Dr., Dawsonville, Georgia 30534. Please be governed accordingly.

Sincerely, Ćecil L Pearce Jr. 56423 10/6,13,20,27

Local Government

Development Authority of Dawson County will hold its regular meeting on: October 26, 2021 Time: 8:00 am Place: 44 Commerce Drive.

Who: Dawson County Board of Education What: Fall Board Retreat and

Training Where: Dawson County Schools Technology Center at 175 Tiger Circle, Dawsonville, GA 30534

When: 11/8/2021 from 11AM-1PM, followed by a tour of facilities

Why: Charter Board Training & tour of Technology Center and Transportation Facility

56540 10/20

Public Hearings

Notice of Public Hearing public following hearings will be heard by the City of Dawsonville Planning Commission at 5:30 p.m. and/ or the City Council beginning at 5:00 p.m. respectively on the dates indicated below. Public hearings are heard in the Council Chambers on the second floor at City Hall located at 415 Hwy 53 East, Dawsonville, Georgia 30534. The public is invited to participate.

Robert ZA-C2200053: Howard has petitioned a amendment zoning TMP 093 058 Land Lot 429 13th District, Located at 1732 Perimeter Road from OD (Office District) to R-1 Single Family (Restricted Residential). Public Hearing **Dates: Planning Commission** on November 8, 2021 and City Council on December 6, 2021. City Council for a decision on December 20,

Cook ZSP-C2200055: Communities has petitioned site plan approval as required for single-family attached dwelling (townhouses) in R-6, Multiple-Family the Residential District for TMP D02 002 Land Lot 507 and 446 4th District, Located at 362 Maple Street. Public Planning Hearing Dates: Commission on November 8, 2021 and City Council on December 6, 2021. City Council for a decision on December 20, 2021.

VAR-C2200057: William Elliott has petitioned side and rear property setback and zoning buffers be reduced to 0' for TMP 068 063 001 and 068 063 002, Land Lot 86 4th District, Located at 2367 Elliott Family Parkway. Public Hearing: Planning Commission on November 8, 2021.

56570 10/20

Probate Notices

IN THE PROBATE COURT OF DAWSON COUNTY STATE OF GEORGIA

a notary public or before a probate court clerk, and filing fees must be tendered with your objections, unless you qualify to file as an indigent party. Contact probate court personnel for the required amount of filing fees. any objections are filed, a hearing will be (scheduled at a later date). Ifno objections are filed the petition may be granted without a hearing. Judge Jennifer Burt Judge of the Probate Court By Allie Phillips Clerk of the Probate Court 25 JUSTICE WAY, SUITE 4332 DAWSONVILLE, GA 30534 (706)344-3580

IN THE PROBATE COURT OF DAWSON COUNTY STATE OF GEORGIA

56530 10/20,27,11/3,10

INRE:
BARBARA ANN BEARDEN
DECEAS ED
ESTATE NO. 2021-ES-148
PETITION FOR LETTERS OF
ADMINISTRATION
NOTICE
To whom it may concern:

To whom it may concern: Johnson petitioned to be appointed administrator(s) of the estate of Barbara Ann Bearden, deceased, of said county. (The petitioner has also applied for waiver of bond, waiver of reports, waiver of statements, and/or grant of certain powers contained in O.C.G.A. ss 53-12-261.) All interested persons are hereby notified to show cause why said petition should not be granted. All objections to the petition must be in writing, setting forth the grounds of any such objections, and must be filed with the Court on or before November 15th, 2021.

BE NOTIFIED FURTHER: A objections to the Petition must be in writing, setting forth the grounds of any such objections. All objections should be sworn to before a notary public or before a Probate Court Clerk, and filing fees must be tendered with your objections, unless you qualify to file as an indigene party. Contact Probate Court personnel for the required amount of filing fees. If any objections are filed, a hearing will be scheduled at a later date. If no objections are filed, the Petition may be granted without a hearing. Judge Jennifer Burt Judge of the Probate COurt By:Allie Phillips

Clerk of the Probate Court 25 Justice Way, Suite 4332 Dawsonville, GA 30534 (706)344-3580

56595 10/20, 27,11/3,10

IN THE PROBATE COURT OF DAWSON COUNTY Justice Way, Dawsonville, GA 30534.

The public is invited to attend.

56828 11/3,10

Notice of Public Hearing
The following public hearings will be heard by the City of Dawsonville Planning Commission at 5:30 p.m. and/or the City Council beginning at 5:00 p.m. respectively on the dates indicated below. Public hearings are heard in the Council Chambers on the second floor at City Hall located at 415 Hwy 53 East, Dawsonville, Georgia 30534. The public is invited to participate.

ZA-C2200053: Robert Howard has petitioned a zoning amendment for TMP 093 058 Land Lot 429 13th District, Located at 1732 Perimeter Road from OD (Office District) to R-1 (Restricted Single Family Residential). Public Hearing Dates: Planning Commission on November 8, 2021 and City Council on December 6, 2021. City Council for a decision on December 20, 2021.

ZSP-C2200055: Cook Communities has petitioned site plan approval as required for petitioned single-family attached dwelling (townhouses) in the R-6, Multiple-Family Residential District for TMP D02 002 Land Lot 507 and 446 4th District, Located at 362 Maple Street. Public Hearing Dates: Planning Commission on November 8, 2021 and City Council on December 6, 2021. City Council for a decision on December 20, 2021.

56781 11/3

Public Notice

The Dawson County Planning Commission will hear the following requests on November 16, 2021 at 6:00 p.m. in the DAWSON COUNTY GOVERNMENT CENTER, ASSEMBLY ROOM 2303 located at 25 JUSTICE WAY, Dawsonville, Georgia: Application for Rezoning: ZA 21-22 Redo Properties, is requesting to TMP rezone 094-044 from RSR to RMF for the purpose of bringing a nonconforming use into zoning compliance. Reeves Road The Dawson County Board of Commissioners will hear

706-344-3500, ext. 42336. All interested parties are invited to attend and be heard.

If you should wish to speak in favor or opposition to the above listed application, please contact this office for a Campaign Disclosure Form. This must be completed and filed with this office prior to the meeting date. This is only necessary if you have made campaign contributions in the amount of \$250.00 or more within 2 years prior to this date.

56835 11/3,10

Public Notice The Dawson County Planning Commission will hear the following requests on November 16, 2021 at 6:00 p.m. in the DAWSON GOVERNMENT COUNTY CENTER, ASSEMBLY ROOM 2303 located at 25 JUSTICE WAY, Dawsonville, Georgia: Application for Special Use and Variance:

SU 21-07 Greg Spence obo Verizon Wireless is requesting a Special Use of TMP 049 001 for the purpose of placing a telecommunications tower. Hwy 52 E

VR 21-19 Greg Spence obo Verizon Wireless is requesting a variance to the Dawson County Land Use Resolution Article IV Section 410 F.4

The Dawson County Board of Commissioners will hear SU 21-07 & VR 21-19 at their regularly scheduled meeting on December 16, 2021 Dawson County Board of Commissioners? regular voting session 6 p.m.at the DAWSON COUNTY **GOVERNMENT** CENTER, ASSEMBLY ROOM 2303 located at 25 JUSTICE WAY, Dawsonville, Georgia. If you have any questions or concerns regarding this application or need special accommodations please contact Harmony Gee, Zoning Administrator at 706-344-3500, ext. 42336. All interested parties are invited to attend and be heard.

If you should wish to speak in favor or opposition to the above listed application, please contact this office for a Campaign Disclosure Form. This must be completed and filed with this office prior to the meeting date. This is only necessary if you have made

Carlisle Rd Dawsonville, GA 30534 Jason McWilliams:

Halloween and Christmas decorations, frames, electronics, and kitchen utensils.

Kelly Roberts: Royal

Kelly Roberts: Boxes, mattress, clothes, bean bag, chair, toys, totes, and VCR/DVD player.

56838 11/3,10

Probate Notices

IN THE PROBATE COURT OF DAWSON COUNTY STATE OF GEORGIA INRE:

Harmon Arthur Williams II DECEASED ESTATE NO. 2021-ES-141 NOTICE OF PETITION TO FILE FOR YEAR'S SUPPORT The petition of Diana L. Williams for a year's support from the estate of Harmon Arthur Williams II deceased, for decedent's (surviving spouse)(and) (minor child(ren)), having duly filed, interested persons are hereby notified to show cause, if any they have, on or before November 8th, 2021, why said petition

should not be granted.

objections to the petition must be in writing, setting forth the grounds of any such objections, and must be filed on or before the time stated in the preceding sentence. All objections should be sworn to before a notary public or before a probate court clerk, and filing fees must be tendered with your objections, unless you qualify to file as an indigent party. Contact probate court personnel for the required amount of filing If any objections are filed, a hearing will be (scheduled at a later date). If no objections are filed the petition may be granted without a hearing. Judge Jennifer Burt Judge of the Probate Court By Allie Phillips

Clerk of the Probate Court 25 Justice Way, Suite 4332 Dawsonville, GA 30534 (706)344-3580

56433 10/13,20,27,11/3

IN THE PROBATE COURT OF DAWSON COUNTY STATE OF GEORGIA IN RE: JOE EDWIN TOUNZEN SR. All interested persons are hereby notified to show cause why said petition should not be granted. All objections to the petition must be in writing, setting forth the grounds of any such objections, and must be filed with the Court on or before November 15th, 2021.

NOTIFIED FURTHER: All objections to the Petition must be in writing, setting forth the grounds of any such objections. All objections should be sworn to before a notary public or before a Probate Court Clerk, and filing fees must be tendered with your objections, unless you qualify to file as an indigent party. Contact Probate Court personnel for the required amount of filing fees. If any objections are filed, a hearing will be scheduled at a later date. If no objections are filed, the Petition may be granted without a hearing. Judge Jennifer Burt Judge of the Probate COurt By:Allie Phillips

By:Allie Phillips Clerk of the Probate Court 25 Justice Way, Suite 4332

25 Justice Way, Suite 4332 Dawsonville, GA 30534 (706)344-3580

56595 10/20, 27,11/3,10

IN THE PROBATE COURT OF DAWSON COUNTY STATE OF GEORGIA

INRE:
BRIAN THOMAS RAS T
DECEAS ED
ESTATE NO. 2021-ES-150
PETITION FOR LETTERS OF

ADMINISTRATION NOTICE

To whom it may concern: Lisa Wise has petitioned

in O.C.G.A. \$ 53-1 All interested person hereby notified to cause why said should not be granted. All obj to the petition m in writing, setting the grounds of an objections, and m filed with the Court before November 29 NOTIFIED FU objections to Petition must be in v setting forth the gi of any such obje All objections shou sworn to before a public or before a P Court Clerk, and filin must be tendered your objections, you qualify to file indigent party. C Probate Court pers for the required amo filing fees. If any obje are filed, a hearing v

without a hearing.
Judge Jennifer Burt
Judge of the Probate
By Allie Phillips
Clerk of the Probate C
25 Justice Way, Suite 4
Dawsonville, GA 3053
(706)344-3580

scheduled at a later c

no objections are file

Petition may be gr

56816 11/3,10,17,

IN THE PROBATE CO OF DAWSON COUNT STATE OF GEORGIA INRE:

KINSER WILLIAM A
GALLOWAY DECEAS EI
ESTATE NO. 2021-ESPETITION FOR LETTE F
ADMINISTRATION
NOTICE

To whom it may conce

Place y ad toda Call 706-265-

MINUTES CITY COUNCIL REGULAR MEETING OCTOBER 1, 2007 7:00 P.M.

CALL THE MEETING TO ORDER: Mayor Cox called the meeting to order at 7:00 p.m.

ROLL CALL: Those present included Mayor Joe Lane Cox, Council Members Linda Grant, Mike Sosebee, and Jonathan Cox; Mike Wilson was absent; staff present were Kim Cornelison, Steve Holder, Gary Barr, and Dana Miles, City Attorney.

INVOCATION AND PLEDGE: Invocation was led by Steve Holder; Mayor Cox led the pledge of allegiance.

APPROVAL OF MINUTES:

Council unanimously approved the minutes from the regular meeting held September 10, 2007; motion by Sosebee, second by Grant.

NEW BUSINESS:

<u>Proclamation Recognizing October as National Downs Syndrome Awareness Month</u>: The Shelf family came forward to receive the proclamation recognizing the month of October as National Down Syndrome Awareness Month. It was presented by Mayor Cox after it was read by Kim Cornelison.

<u>Parade/Public Assembly Application</u>: Kare for Kids Annual Mountain Moonshine Festival, October 26, 27, and 28, 2007. Kim Cornelison presented the application stating authorization had been received from the Sheriff's office, the Fire Marshal, and the Dept. of Transportation. Council unanimously approved the application; motion by Linda Grant, second by Jonathan Cox.

OLD BUSINESS:

Zoning Amendment: ZA-6-07-1556: Avery Homes Inc. has made application to amend the zoning on property consisting of 15.402 acres off of Maple Street. The applicant seeks to change the zoning on the following tracts of land: TMP D02-01 from R-3R to R-6; TMP D002-02 from R2 to R-6; TMP 083-38-082 from R-3 to R-6. Public hearing held: September 10, 2007. Tabled to review traffic study.

Dana Miles read the zoning amendment reminding council that the public hearing was held at the September 10, 2007 meeting and the item was tabled in order for the council to have time to review the traffic study. The zoning amendment is now available for discussion. Mr. Miles also stated that the Planning Director has proposed conditions on the subject property. Steve Holder read the recommended condition which are attached and incorporated in to these minutes. Council unanimously approved the zoning amendment with the attached conditions. Motion by Grant, second by Jonathan Cox.

PUBLIC HEARINGS:

<u>To hear Annexation Petition: ANX-07-004:</u> Gilbert B. Meredith has made application to annextion0.587 acres of TMP 090-067, Lot 15, Block E, Unit 2, Gold Creek Subdivision, in to the City of Dawsonville. The subject property is currently zoned PCD in the County and would be PUD in the City. Annexations are subject to two public hearings. (Second hearing).

Steve Holder read the annexation and rezoning petition. Dana Miles opened the public hearing. There were approximately 28 people in attendance. Nobody spoke in favor or in opposition of the annexation and rezoning. Mr. Miles closed the public hearing and Mayor Cox called for a vote. Council unanimously approved Annexation Petition ANX-07-004. Sosebee made the motion; Grant seconded.

Enacting Code Ordinance: An ordinance adopting and enacting a code for the City of Dawsonville, Georgia; providing for the repeal of certain ordinances not included therein; providing a penalty for the

Recommended Stipulations

- Dedicate five feet of property along Maple Street for additional R/W
- Provide restrictive covenants identifying project as "active adult" community
- Extend pavement along Maple Street from southern property line to Stegall street intersection a width of two feet.
- Design/build a minimum of twenty percent of livable dwellings to meet standards as described in the Universal Design Standards Manual.
 - i. Dwelling units shall be provided with a step-free or accessible entrance on an accessible route hat complies with ANSI A117.1-1998 section 4.8 and that has a maximum slope not to exceed 1/12. The step-free entrance may be located on the front, side, or rear of the dwelling unit, or may be located through the garage. Apartments must have an accessible route to the entry.
 - ii. The building entrance doors shall have a minimum net clear opening of 32 inches when the door is open 90 degrees as measured between the face of the door and the opposite stop.
 - iii. All interior doors on the accessible floor level of such dwelling units except those serving closets, or serving pantries less than 15 sq.ft. in are, within the unit intended for use passage must provide a minimum net clear opining of 32 inches when the door is open 90 degrees, as measured between the face of the door and the opposite stop. All interior sliding or pocket doors on the accessible floor level of such dwelling units must provide a minimum net clear opening of 32 inches as measured when in the fully open position.
 - iv. All interior doors on the accessible floor level of such dwelling units must be equipped with levered hardware.
 - v. Interior hallways on the accessible floor level of such dwelling units shall have a minimum width of 36 inches, be level and provide ramped or beveled changes at door thresholds.
 - vi. A minimum of one bathroom must be provided on the accessible floor level of such dwelling units, which bathroom shall, at a minimum, contain a toilet and sink, and be designed and constructed so those with assistive devices can enter and close the door behind them.
 - vii. Walls of the accessible bathroom on the accessible floor level of such dwelling units shall be provided with wood blocking installed flush within

wall framing to support grab bars as set forth herein. The wood blocking shall be located between 33 inches and 36 inches above the finish floor. Height shall be determined by measuring from the finish floor to the center of the wood blocking. The wood blocking shall be located in all walls adjacent to a toilet, shower stall or bathtub.



DAWSONVILLE CITY COUNCIL EXECUTIVE SUMMARY FOR AGENDA ITEM #_____10____

SUBJECT: FY 2020-2021 AUDIT PRESENTATION AND APPROVAL
CITY COUNCIL MEETING DATE: 12/06/2021
BUDGET INFORMATION: GL ACCOUNT #NA
☐ Funds Available from: Annual Budget Capital Budget Other
☐ Budget Amendment Request from Reserve:Enterprise FundGeneral Fund
PURPOSE FOR REQUEST:
TO PRESENT THE FINANCIAL AUDIT FOR FY 2020-2021 BY BRYAN ST. PIERRE FROM ALEXANDER, ALMAND & BANGS
TO APPROVE THE FY 2020-2021 AUDIT AS PRESENTED
HISTORY/ FACTS / ISSUES:
OPTIONS:
RECOMMENDED SAMPLE MOTION:

REQUESTED BY: Robin Gazaway, Finance Administrator



DAWSONVILLE CITY COUNCIL EXECUTIVE SUMMARY FOR AGENDA ITEM # 11

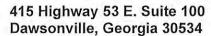
	SUBJECT: DAWSONVILLE HISTORY MUSEUM DIRECTOR'S REPORT
	CITY COUNCIL MEETING DATE: 12/06/2021
	BUDGET INFORMATION: GL ACCOUNT #NA
	☐ Funds Available from: Annual Budget Capital Budget Other
	☐ Budget Amendment Request from Reserve:Enterprise FundGeneral Fund
	PURPOSE FOR REQUEST:
	CINDY ELLIOTT TO PROVIDE AN ANNUAL REPORT ON THE DAWSONVILLE HISTORY MUSEUM
	HISTORY/ FACTS / ISSUES:
	OPTIONS:
	RECOMMENDED SAMPLE MOTION:
_	

REQUESTED BY: <u>Bob Bolz, City Manager</u>



DAWSONVILLE CITY COUNCIL EXECUTIVE SUMMARY FOR AGENDA ITEM # 12

SUBJECT:	ANX-C2100043 AND ZA-C2100043
CITY COU	NCIL MEETING DATE: 12/06/2021
BUDGET I	INFORMATION: GL ACCOUNT # Funds Available from: Annual Budget: Capital Budget: Other Budget Amendment Request from Reserve: Enterprise Fund:General Fund
PURPOSE	FOR REQUEST: VOTE; TABLED FROM OCTOBER 18, 2021
ANX-C2100043 and ZA-C2100043: Allen Street Properties, LLC and B & K Turner Family, LLP have petitioned to annex into the city limits of Dawsonville tract 2 with 32.937 acres (amended application) tract known as a portion of TMP 093 004 001, located at Perimeter Road, with a request to rezone from County Zoning of RSR (Residential Sub Rural) and RA (Restricted Agriculture) to City Zoning of R3 (Single Family Residential). Public Hearing Dates: Planning Commission on September 13, 2021 and City Council on October 4, 2021. City Council for a decision on October 18, 2021. HISTORY/ FACTS / ISSUES: Planning Commission denied the request on 9/13/21. Concept plan did not meet city ordinances. Amended application to annex and zone tract 2 with 32.937 acre only. Amended concept plan reflects proposed 65 units. Amended letter of intent request to approve 75 units yielding a density of 2.28 units per acre. Applicant is requesting a variance to the Land Development Regulations Chapter 109 Sec 109-53-Sidewalks to eliminate the required sidewalk along Perimeter Road lots 58 thru 65. Planning department has provided a revised timeline. Planning department has provided a department summary with recommended conditions if approved.	
OPTIONS: Approve, Amend, Deny	
RECOMME	ENDED SAMPLE MOTION:
If annexation and zoning is approved motion recommended to be as follows: Motion to approve annexation and zoning application C2100043 tract # 2 known as a portion of TMP 093 004 001 with 32.937 acres. Density shall not exceed 75 units or 2.28 units per acre. Approval shall be conditioned per Planning and Zoning Department summary letter dated 9/23/21.	
the Land D	nce is approved motion recommended to be as follows: Motion to approve the variance request to evelopment Regulations Chapter 109 Sec 109-53- Sidewalks to eliminate the required sidewalk neter Rd lots 58-65.
DEPARTM	ENT: Planning and Zoning
REQUESTED BY: David Picklesimer	





(706) 265-3256 Fax (706) 265-4214 www.dawsonville-ga.gov

Date: 9/23/2021

To: Mayor Mike Eason and City Council

Reference: ANX/ZA C2100043 Planning and Zoning Department Summary

The planning department has provided the following pertinent information to help you decide on this request:

- If the zoning amendment is approved the Planning Department is requesting a condition of zoning to
 include an approved water and sewer service area agreement between Etowah Water and Sewer Authority
 and the City of Dawsonville. The service area agreement dedication must include both water and sewer
 services. The agreement shall be dedicated to the City of Dawsonville prior to the issuance of a grading
 permit (LDP). If the service area agreement is not agreed upon by both parties the application for
 annexation and rezoning shall become null and void.
- If the zoning amendment is approved the Planning Department is requesting a condition of zoning to
 include the installation of an engineered AC-powered, high intensity LED signs, in pavement crosswalk
 LED lights and activated device across Perimeter Road to provide pedestrian access to Robinson
 Elementary school.
- 3. If the zoning amendment is approved the Planning Department is requesting a condition of zoning to include the installation of a sidewalk from the 32.937-acre tract to the existing sidewalk system in front of Dawson County High school.
- 4. If the zoning amendment is approved the Planning Department is requesting a condition of zoning to include a ten foot no access buffer along Perimeter Road.
- 5. If the zoning amendment is approved the Planning Department is requesting a condition of zoning to include the installation of a right in and right out vehicle movement at the north entrance due to the intersection alignment not meeting GDOT intersection offset requirements.

David Picklesimer Planning Director

415 Highway 53 E. Suite 100 Dawsonville, Georgia 30534



(706) 265-3256 Fax (706) 265-4214 www.dawsonville-ga.gov

Date: 9/14/21

From: David Picklesimer, Planning Director

Reference: ANX/ZA C2100043 Timeline

- Original application submitted to the City: 8/14/20.
- Original application submitted to Dawson County BOC: 8/21/20.
- Planning Department advertised original application: 8/26/20.
- Original application response received from Dawson County BOC: 9/11/20.
- Planning Commission public hearing on original application: 9/14/20. Applicant requested postponement.
- Planning Commission public hearing on original application: 11/9/20. PC voted to deny.
- Council held public hearing on original application: 11/16/20. Council postponed until 1/19/21.
- Applicant amended application: 12/9/20.
- Amended application submitted to Dawson County BOC: 12/9/20
- Dawson County BOC response to amended application received: 1/7/21.
- Council held public hearing 1/19/21. Council tabled until arbitration complete.
- Dawson County BOC withdrew objection 5/11/21.
- Planning Department advertised Council public hearing meeting on 5/26/21 for amended application.
- Council public hearing date 6/21/21 for amended application.
- Council final decision date 7/19/21 for amended application.
- Applicant requested to postpone 7/19/21 until 10/18/21 to allow adjoining property owner time to request annexation.
- Planning Department advertised amended application 8/18/21 due to wrong TMP advertised.
- Planning Commission public hearing date 9/13/21 due to wrong TMP advertised.
- Planning Commission denied request 9/13/21.
- City Council public hearing date 10/4/21 due to wrong TMP advertised.
- City council decision date 10/18/21.

LAW OFFICES LIPSCOMB, JOHNSON, SLEISTER, DAILEY & SMITH, LLP

112 NORTH MAIN STREET CUMMING, GEORGIA 30040 TELEPHONE: 770-887-7761 FAX: 770-889-8123

EMORY LIPSCOMB
COY R. JOHNSON, P.C.
PUTNAM CLARK SMITH, P.C.
CHRISTOPHER D. LIGHT
SEAN COURTNEY
ASHLEY B. MASHBURN
ANDERSON LIPSCOMB

MICHAEL R. SLEISTER (Of Counsel)

L. LEE DAILEY (1939-2013)

September 24, 2021



VIA HAND DELIVERY

City of Dawsonville Mayor and Council Members Planning and Zoning Department 415 Hwy 53 #100 Dawsonville, GA 30534

Re: Applicant, B & K Turner Family, LLP's, Revised the Letter of Intent

ANX C2100043 and ZA C2100043

The Applicant is hereby submitting this Revised Letter of Intent to the City of Dawsonville to provide an updated written summary of the proposal which includes reduced acreage and reduced number of lots requested from the original applications, ANX C2100043 and ZA C2100043. The Applicant is now proposing to Annex and Rezone only Tract 2 of the original proposal, which is 32.937 acres, as shown on the attached survey and site plan attached hereto and incorporated herein, (the "Site Plan").

Due to this reduction in acreage, the total number of lots the Applicant has conceptually planned for is sixty-five (65) residential units, yielding a residential density of 1.97 units per acre. The Applicant agrees to limit the number of units to a maximum of seventy-five (75), potentially yielding 2.28 units per acre, which is still far less than the allowable three (3) units per acre in the R-3 zoning category. The property is currently zoned RSR and RA and the request is to annex and rezone to the City's R-3 zoning category with a minimum lot size of 75' x 100' with installation of sidewalks as shown on the site plan dated 09/20/2021.

The proposal has frontage on Perimeter Road and is proposing two (2) entrances on Perimeter Road that will meet all City regulations as detailed on the Site Plan.

Located to the north and to the east of the Subject Property is unincorporated residential property zoned R-A and owned by the Applicant. Dawson County High School is located to the south and Perimeter Road is along the entire western boundary of the Subject Property.

Both potable water and sanitary sewer will serve this Property. Storm water detention will be provided by onsite pond facilities compliant with the City of Dawsonville regulations.

We believe the proposed development will meet the needs of the community without negative impacts. The potential for walkability to the surrounding schools and City amenities will be a positive factor in traffic

concerns and vibrancy for the area. Approval of the Applicant's Application would not cause a safety hazard or noxious condition, would not reduce property values in the surrounding area, and therefore would promote the health, safety, morals and general welfare of the public.

The Applicant hereby reserves all other rights and privileges under the Constitutions of the United States and the State of Georgia, and available at law and in equity, in all aspects of this rezoning and annexation request. The Applicant respectfully asks that the Application be approved as requested and reserves the right to amend this Letter of Intent and the Application by supplementing additional responses and documents.

Thank you very sincerely and respectfully for your consideration of this request.

Christopher Light, Attorney for B & K Turner Family, LLP

Perimeter Road Tract 2 32.937 Acres



All that tract or parcel of land lying and being in Land Lots 372, 373, 427 and 428 of the North Half of the 13th Land District, Dawson County, Georgia and being more particularly described as follows;

To find the True Point of Beginning, commence at the intersection of Land Lots 371 and 372 and the Easterly right of way of Perimeter Road (80' right of way), said point marked by a ½ inch Rod found; Thence traveling on said Perimeter Road right of way the following three (3) courses and distances:

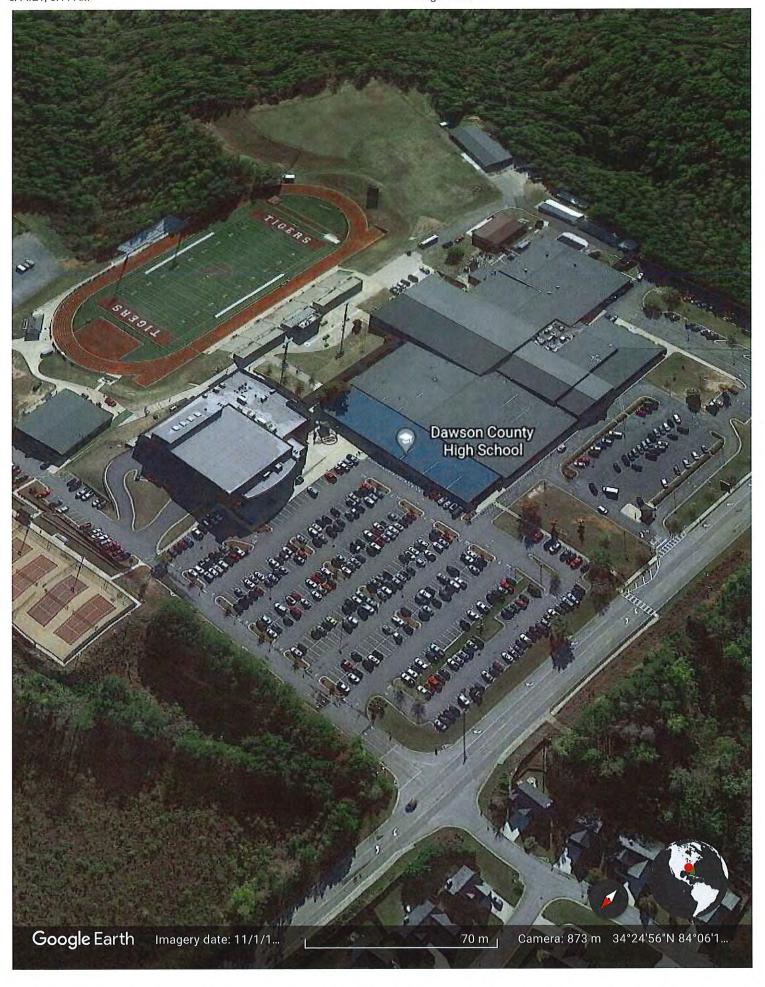
along a curve to the right having a radius of 1766.51 feet and an arc length of 162.28 feet being subtended by a chord bearing of South 12 Degrees 33 Minutes 28 Seconds East and a chord distance of 162.22feet to a point; THENCE along a curve to the right having a radius of 1049.03 feet and an arc length of 473.65 feet being subtended by a chord bearing of South 03 Degrees 00 Minutes 32 Seconds West and a chord distance of 469.63 feet to a point; THENCE continuing on said right of way South 15 Degrees 56 Minutes 37 Seconds West for a distance of 650.74 feet to a point, said point marked by a ½ inch rebar pin set, said point being THE TRUE POINT OF BEGINNING.

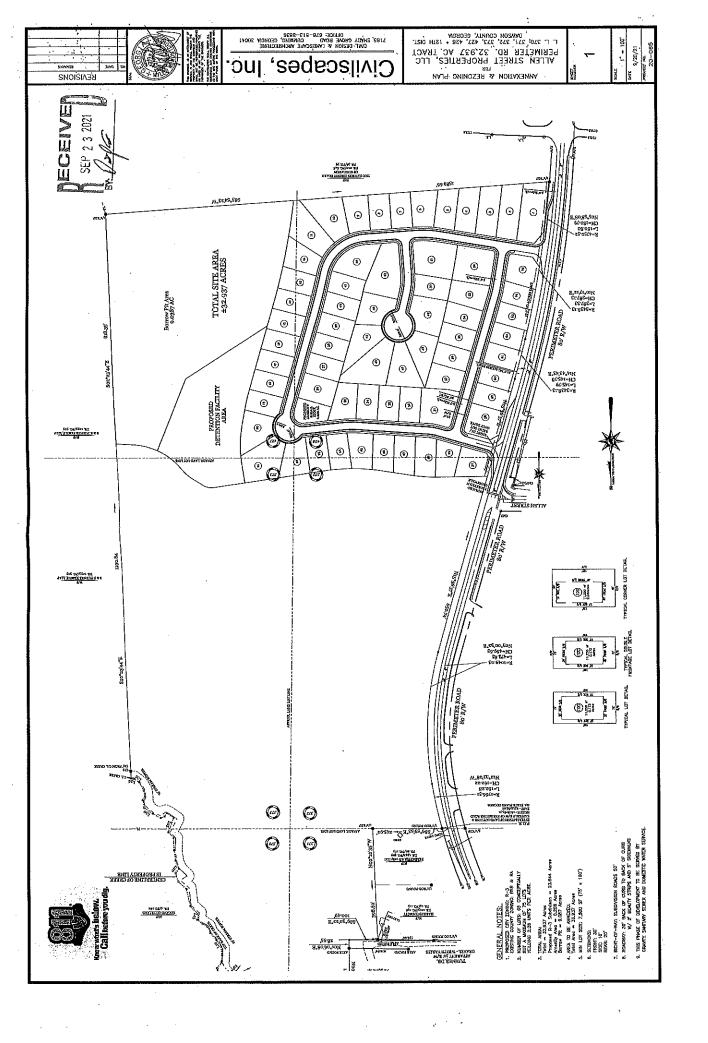
THENCE from said point as thus established, North 89 Degrees 17 Minutes 56 Seconds East for a distance of 171.99 feet to a point; THENCE along a curve to the right having a radius of 636.62 feet and an arc length of 103.13 feet being subtended by a chord bearing of South 86 Degrees 03 Minutes 37 Seconds East and a chord distance of 103.02 feet to a point; THENCE South 81 Degrees 25 Minutes 09 Seconds East for a distance of 106.01 feet to a point; THENCE along a curve to the left having a radius of 662.74 feet and an arc length of 195.11 feet being subtended by a chord bearing of South 89 Degrees 51 Minutes 12 Seconds East and a chord distance of 194.41 feet to a point; THENCE North 81 Degrees 42 Minutes 46 Seconds East for a distance of 407.62 feet to a point; THENCE along a curve to the right having a radius of 60.00 feet and an arc length of 41.04 feet being subtended by a chord bearing of South 78 Degrees 41 Minutes 37 Seconds East and a chord distance of 40.24 feet to a point; THENCE South 59 Degrees 06 Minutes 00 Seconds East for a distance of 40.85 feet to a point; THENCE along a curve to the right having a radius of 160.00 feet and an arc length of 47.37 feet being subtended by a chord bearing of South 50 Degrees 37 Minutes 08 Seconds East and a chord distance of 47.20 feet to a point; THENCE South 42 Degrees 08 Minutes 15 Seconds East for a distance of 19.39 feet to a point; THENCE along a curve to the left having a radius of 240.00 feet and an arc length of 188.50 feet being subtended by a chord bearing of South 64 Degrees 38 Minutes 15 Seconds East and a chord distance of 183.69 feet to a point; THENCE South 87 Degrees 08 Minutes 15 Seconds East for a distance of 60.06 feet to a point, said point marked by a ½ inch rebar pin set; THENCE traveling South 02 Degrees 23 Minutes 44 Seconds East for a distance of 818.35 feet to a point, said point marked by a ½ inch rebar pin found; THENCE South 85 Degrees 54 Minutes 23 Seconds West for a distance of 1589.65 feet to a point on the easterly right of way of Perimeter Road (80' right of way), said point marked by a 1/2 inch rebar pin found;

THENCE traveling on said Perimeter Road right of way the following four (4) courses and distances:

along a curve to the right having a radius of 4750.52 feet and an arc length of 180.80 feet being subtended by a chord bearing of North 05 Degrees 58 Minutes 08 Seconds East and a chord distance of 180.79 feet to a point; THENCE along a curve to the right having a radius of 3438.13 feet and an arc length of 387.33 feet being subtended by a chord bearing of North 10 Degrees 17 Minutes 12 Seconds East and a chord distance of 387.13 feet to a point; THENCE along a curve to the right having a radius of 3438.13 feet and an arc length of 145.79 feet being subtended by a chord bearing of North 14 Degrees 43 Minutes 43 Seconds East and a chord distance of 145.78 feet to a point; THENCE North 15 Degrees 56 Minutes 37 Seconds East for a distance of 360.69 feet to a point, said point being THE TRUE POINT OF BEGINNING.

Said property contains 32.937 Acres





mended 12/9/20-9/24/21



City of Dawsonville

415 Highway 53 East, Suite 100 Dawsonville, GA 30534 Phone: (706) 265-3256 Annexation Petition into the City of Dawsonville, GA

Annexation # C2 | 000 43

FEE \$250.0	00 (NONREFUNDABLE) Date Paid	Cash □/Ck#
	Allen Street Properties LLC	4
Mailing Address 1090	Oakhaven Drive City Roswell	State 6A Zip 3007S
E-MailApplicant Telephone	Number(s): 678-576-0	469
P 84-0	me(s): B&K Turner Family, 90 Oakhaven Dr City Roswell	
E-MailProperty Owner's Te	lephone Number(s): Michael Turr	ner 678-570-0469
Address of Property 1 Tax Map & Parcel # 09 3 370 371 Land Lot # 373 427 Current Use of Prope	to be Annexed: Perimeter Road ootcol Property Size in Acres: 74.85 Survey Re 377 428 District # 12th Section # Legal Recor	vacant Lot vacant Lot vacant Lot page # rded in Deed Book #Page #3o_3
County Zoning Classific		fication: R3
		700 Americal

Land Use & Zoning Ordinance, Article VII. General Provisions Sec. 708. Annexation:

Any land area subsequently added to the incorporated area of Dawsonville shall automatically be classified R-1 (single-family residential district) until or unless otherwise classified by amendment to the official zoning map.

Petition MUST include a completed application with signatures and ALL attachments.

An 8 $\frac{1}{2}$ x 11 copy of the current **RECORDED BOUNDARY SURVEY** of said property showing the contiguity of said property to the existing corporate limits of the City of Dawsonville, GA.

A copy of the current metes and bounds **LEGAL DESCRIPTION** that matches the boundary survey of the property being annexed.

Survey must be signed and sealed by a Registered Land Surveyor.

Survey must be signed, stamped recorded by Dawson County Clerk's Office, Superior Court

Amended





City of Dawsonville 415 Highway 53 East, Suite 100 Dawsonville, GA 30534 Phone: (706) 265-3256

Annexation Petition into the City of Dawsonville, GA

Please answer the following questions to meet and comply with the United States Department of Justice, Civil Rights Division, Voting Section, Section 5 of the Voting Rights Act.

Existing Structure(s)	Inte	ended Use of Land:	X Residential	Commercial
Number of persons currently residing on the property:; VACANT Number of persons18 years or older:; Number of persons registered to vote: The number of all residents occupying the property:American Indian	,,,,		Existing Structure(s)	Vacant
Number of persons currently residing on the property:				
Number of persons18 years or older:				
The number of all residents occupying the property: American Indian	Nu	mper of persons currently	y residing on the property	Number of persons registered to vote:
American Indian Asian Pacific Islander Black, not of Hispanic Origin White, not of Hispanic Origin Wacant Please answer the following questions to meet and comply with the U. S. Department of Commerce, which requires this information to provide Population Estimates. ARC Population Estimate Information A. Number of existing housing units: B. List of Addresses for each housing unit in the annexed area at the time of the annexation: C. Disposition of existing structures (e.g. to stay the same, be demolished, moved or converted to the complex of affected Subdivision: E. Names of affected Multi-Family Complex: F. Names of Group Quarters (dormitories, nursing homes, jails, etc.): G. Names of affected Duplexes:	Nu	imber of persons 18 years	or older:, i	number of persons registered to vote:
Asian Black, not of Hispanic Origin White, not of Hispanic Origin VACANT Please answer the following questions to meet and comply with the U. S. Department of Commerce, which requires this information to provide Population Estimates. ARC Population Estimate Information A. Number of existing housing units: B. List of Addresses for each housing unit in the annexed area at the time of the annexation: C. Disposition of existing structures (e.g. to stay the same, be demolished, moved or converted D. Names of affected Subdivision: E. Name of affected Multi-Family Complex: F. Names of Group Quarters (dormitories, nursing homes, jails, etc.): G. Names of affected Duplexes:	Th	e number of all residents	occupying the property:	an income and
Black, not of Hispanic Origin White, not of Hispanic Origin VACANT Please answer the following questions to meet and comply with the U. S. Department of Commerce, which requires this information to provide Population Estimates. ARC Population Estimate Information A. Number of existing housing units: B. List of Addresses for each housing unit in the annexed area at the time of the annexation: C. Disposition of existing structures (e.g. to stay the same, be demolished, moved or converted D. Names of affected Subdivision: E. Name of affected Multi-Family Complex: F. Names of Group Quarters (dormitories, nursing homes, jails, etc.): G. Names of affected Duplexes:		American Inc	710.710.7	
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12/9/20-9/24/21



City of Dawsonville 415 Highway 53 East, Suite 100 Dawsonville, GA 30534 Phone: (706) 265-3256

Annexation Petition into the City of Dawsonville, GA

Property Owner(s) Authorization

Perim request the	veter Road /093004001	property of the territory described herein as (Address/Tax Map Parcel) , respectfully y of Dawsonville, Georgia annex this property into the same.
Upon sigr	nature of this document, I / We the under rate to the best of our knowledge.	signed certify that all the information provided is true MREK Turner Family LLLP Property Owner Printed Name
(2)	Property Owner Signature Property Owner Signature	Property Owner Printed Name Property Owner Printed Name
(1)	Applicant Signature	Applicant Printed Name
(2) 70	Applicant Signature	Michael K. Turner Applicant Printed Name
this LC Buy Notary Pul	and subscribed before me and subscribed before me blue 2020. blic, State of Georgia ission Expires: 11-19-2022	DANOTAAL NOTAAL AUBLIC ON Notary Seal O
Annexatio	on Application Received Date Stamp: Rec'o Rec'o Rec'o Rec'o	Current Boundary Survey Legal Description
Dates A	Commission Meeting Date (if rezone): 91 dvertised: 8 26 2020 Council Reading Date: 11 16 2020	14 d 11/9/2020 Sent on 8/21/2020
Date Certi	Council Reading Date: 1/9/21 ified Mail to: 8/21/20 County Board of Commissioner of the Mail to 12/9/20 etter Received from Dawson County D	ate: 9/11/20

Amended 12/9/20-9/24/21

REQUEST FOR ANNEXATION AND REZONING ACTION FROM CITY OF DAWSONVILLE ZONING BOARD

FOR

B & K TURNER FAMILY, LLP 70.808-ACRE SUBDIVISION ON PERIMETER ROAD



NATURE OF REQUEST

To annex and rezone a vacant 70.808-Acre Tract into the City of Dawsonville

PURPOSE OF REQUEST

To allow for development of a 124 Lot Residential Subdivision

NARRATIVE

The scope of this project is to annex and rezone a 37.852-Acre tract (Tract 1) and a 32.956-Acre tract (Tract 2), subdivided out from an existing 492 Acre Tract, into the City of Dawsonville for a proposed 124 Lot Residential Subdivision(s). There will also be a shared community amenity area. Due to challenges in topo we have shown potential borrow pit areas as part of this annexation. If at all possible, we would like to potentially covert these areas into future phased developments.

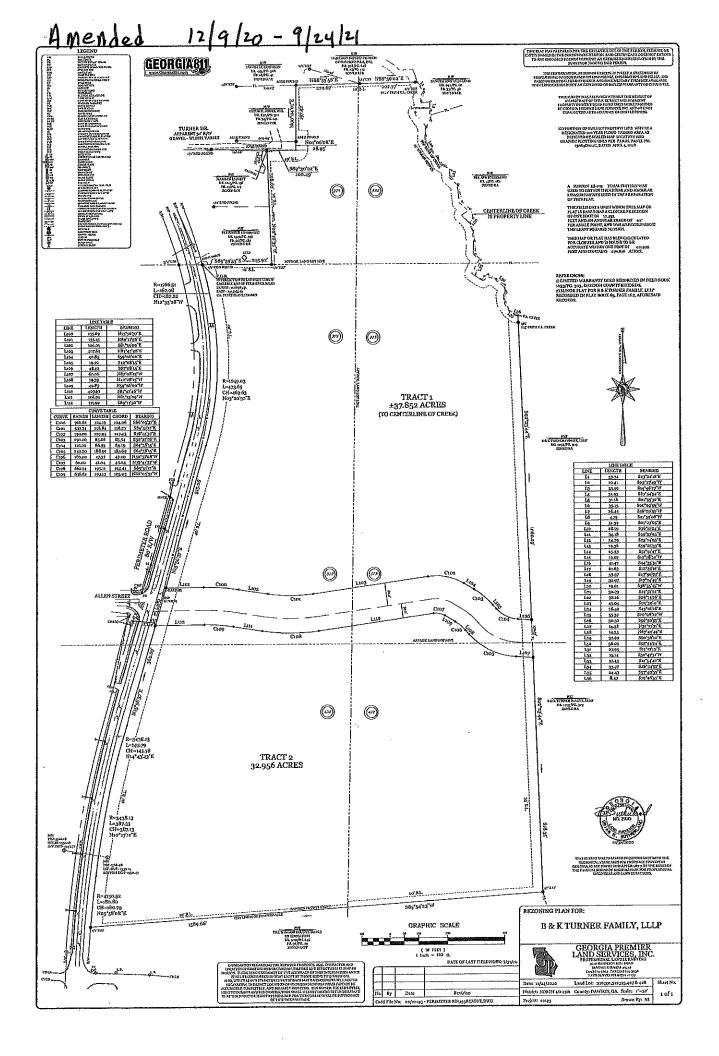
This property is a 70.808 acre tract of land, Land Lots 370, 371, 372, 373, 427 and 428, 12th District. The property is currently zoned RSR and RA. We are requesting a rezoning of R-3. Minimum lot size shall be 75'x100'. It has frontage on Perimeter Road, but we are also proposing extending Turner Drive that will serve as an 2nd access point to the subject Tract 1. Tract 2 will have two proposed access point located along the proposed Magic Dam Parkway road. It is our intent to utilize the 70.808 acres to develop the proposed 124 lot subdivision(s) and shared community amenity area. Amenity area features to be determined at a later date. At this time the proposed site plan will yield a density of 1.751 units per acre; well below the 3.00 units per acre we are requesting. Our overall goal is to develop the proposed 124 lot site plan and under a future phase(s) develop additional potential lots on the remaining vacant ground, but not exceed the maximum 212 units per acre allowed under the R-3 zoning request. The number of potential future phased lots cannot be determined at this time. Shown on the proposed site plan is a 2.577-Acre strip of land that splits Tracts 1 and Tract 2. This Strip of land is to be used for the development of the Magic Dam Parkway road (80' R/W that will remain in Dawson County) and a 50' wide strip of land privately owned by B & K Turner Family, LLLP, the current owner of the original 492-Acre Tract, that will also stay in Dawson County.

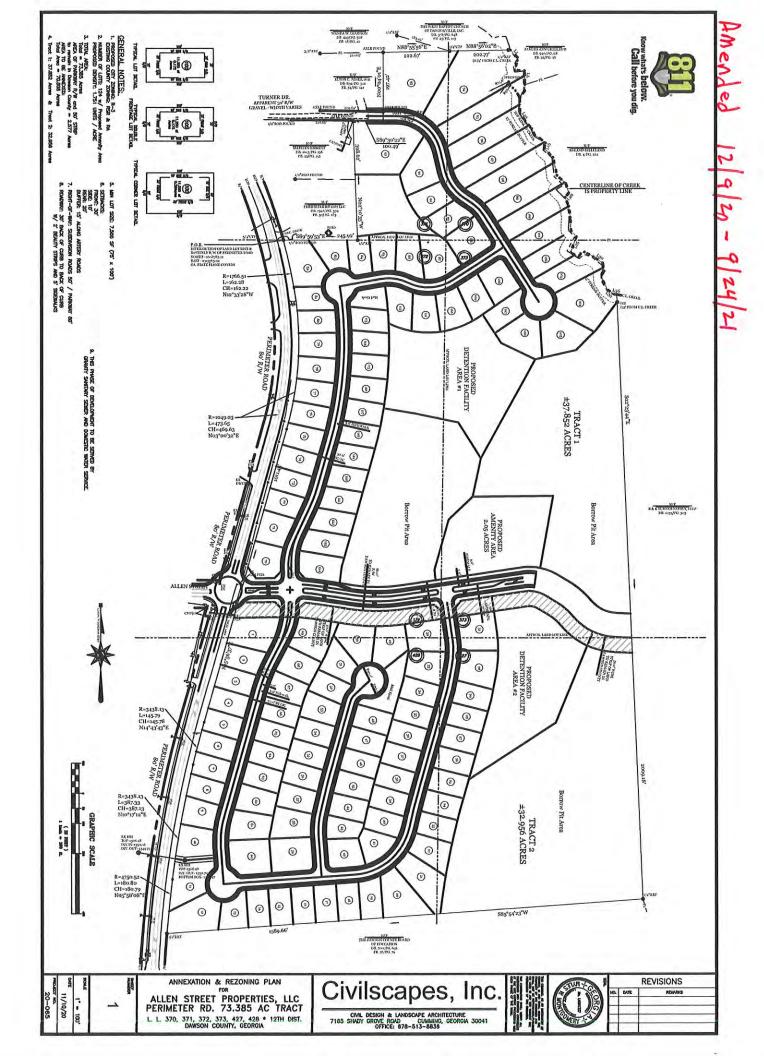
Located to the north of subject property along Perimeter Road is residential property zoned R-A. Located to the north of subject property located along the Turner Drive access is The First Baptist Church of Dawsonville. Located to the east of the subject property is residential tracts and a large tract zoned RA owned by the applicant. Dawson County High School is located to

the south. Located to the west is Perimeter Road. Proposed access into the residential subdivision will be from a proposed revised intersection located along Perimeter Road / Allen Street, a proposed entrance from Turner Drive and two proposed entrances located along the proposed Parkway Road.

Both potable water and sanitary sewer will serve this tract. Storm water detention will be provided by an onsite pond facilities.

We feel that the requested annexation and rezoning to allow for a 124 Lot residential subdivision would be an appropriate type of use for this area. It is unlikely to pose any problems for any of the neighbors. We do not believe that allowing the proposed use of this property would in any way devalue or pose hardships on any of the surrounding properties.





Perimeter Road Tract 1 +/-37.852Acres

All that tract or parcel of land lying and being in Land Lots 370, 371, 372 and 373 of the North Half of the 13th Land District, Dawson County, Georgia and being more particularly described as follows;

Beginning at the intersection of Land Lots 371 and 372 and the Easterly right of way of Perimeter Road (80' right of way), said point marked by a ½ inch Rod found; THENCE leaving said right of way and traveling on the Land Lot Line common to Land Lots 371 and 372, South 89 Degrees 59 Minutes 53 Seconds East for a distance of 245.92 feet to a point, said point marked by a ½ inch rebar pin found; THENCE leaving said Land Lot Line North 02 Degrees 10 Minutes 35 Seconds West for a distance of 398.62 feet to a point, said point marked by an Axle found; THENCE South 89 Degrees 30 Minutes 22 Seconds East for a distance of 100.49 feet to a point; THENCE North 01 Degrees 06 Minutes 08 Seconds East for a distance of 28.95 feet to a point, said point marked by an Axle found; THENCE North 00 Degrees 04 Minutes 01 Seconds East for a distance of 197.42 feet to a point, said point marked by an Axle found; THENCE North 88 Degrees 55 Minutes 56 Seconds East for a distance of 222.67 feet to a point, said point marked by a ¾ inch crimp top pipe found; THENCE North 88 Degrees 56 Minutes 02 Seconds East for a distance of 202.77 feet to a point in the centerline of a creek; THENCE traveling on said creek the following thirty-six (36) courses and distances:

South 43 Degrees 24 Minutes 16 Seconds East for a distance of 33.74 feet to a point; THENCE South 03 Degrees 27 Minutes 49 Seconds West for a distance of 10.41 feet to a point; THENCE South 14 Degrees 46 Minutes 27 Seconds West for a distance of 33.59 feet to a point; THENCE South 87 Degrees 54 Minutes 34 Seconds East for a distance of 31.95 feet to a point; THENCE South 01 Degrees 55 Minutes 32 Seconds East for a distance of 31.16 feet to a point; THENCE South 00 Degrees 02 Minutes 56 Seconds West for a distance of 35.15 feet to a point; THENCE South 36 Degrees 20 Minutes 50 Seconds West for a distance of 26.45 feet to a point; THENCE South 21 Degrees 59 Minutes 08 Seconds West for a distance of 4.19 feet to a point; THENCE South 01 Degrees 23 Minutes 05 Seconds East for a distance of 51.39 feet to a point; THENCE South 36 Degrees 11 Minutes 04 Seconds East for a distance of 28.79 feet to a point; THENCE South 39 Degrees 57 Minutes 03 Seconds East for a distance of 34.18 feet to a point; THENCE South 25 Degrees 14 Minutes 03 Seconds East for a distance of 24.29 feet to a point; THENCE South 59 Degrees 25 Minutes 33 Seconds East for a distance of 19.36 feet to a point; THENCE South 51 Degrees 41 Minutes 47 Seconds East for a distance of 25.33 feet to a point; THENCE South 12 Degrees 28 Minntes 30 Seconds West for a distance of 19.07 feet to a point; THENCE South 44 Degrees 35 Minutes 34 Seconds East for a distance of 41.47 feet to a point; THENCE South 12 Degrees 33 Minutes 16 Seconds East for a distance of 61.63 feet to a point; THENCE South 47 Degrees 50 Minutes 05 Seconds East for a distance of 39.37 feet to a point; THENCE South 17 Degrees 24 Minutes 49 Seconds East for a distance of 32.97 feet to a point; THENCE South 38 Degrees 35 Minutes 45 Seconds West for a distance of 19.01 feet to a point; THENCE South 21 Degrees 51 Minutes 22 Seconds East for a distance of 30.73 feet to a point; THENCE South 08 Degrees 14 Minutes 26 Seconds East for a distance of 38.16 feet to a point; THENCE South 02 Degrees 50 Minutes 11

Seconds East for a distance of 45.04 feet to a point; THENCE South 43 Degrees 16 Minutes 26 Seconds East for a distance of 26.42 feet to a point; THENCE South 20 Degrees 08 Minutes 22 Seconds West for a distance of 55.37 feet to a point; THENCE South 56 Degrees 50 Minutes 55 Seconds East for a distance of 30.32 feet to a point; THENCE North 31 Degrees 21 Minutes 31 Seconds East for a distance of 14.38 feet to a point; THENCE North 67 Degrees 40 Minutes 49 Seconds East for a distance of 14.23 feet to a point; THENCE South 60 Degrees 56 Minutes 10 Seconds East for a distance of 32.92 feet to a point; THENCE South 55 Degrees 54 Minutes 24 Seconds East for a distance of 36.09 feet to a point; THENCE South 11 Degrees 17 Minutes 10 Seconds East for a distance of 15.14 feet to a point; THENCE South 11 Degrees 47 Minutes 51 Seconds East for a distance of 21.43 feet to a point; THENCE South 11 Degrees 54 Minutes 42 Seconds East for a distance of 21.43 feet to a point; THENCE South 28 Degrees 24 Minutes 57 Seconds East for a distance of 33.77 feet to a point; THENCE South 57 Degrees 40 Minutes 33 Seconds East for a distance of 24.43 feet to a point; THENCE South 79 Degrees 46 Minutes 55 Seconds East for a distance of 8.47 feet to a point;

THENCE leaving said centerline creek South 02 Degrees 23 Minutes 44 Seconds East for a distance of 1060.29 feet to a point; THENCE traveling North 87 Degrees 08 Minutes 15 Seconds West for a distance of 48.10 feet to a point; THENCE along a curve to the right having a radius of 110.00 feet and an arc length of 86.39 feet being subtended by a chord bearing of North 64 Degrees 38 Minutes 15 Seconds West and a chord distance of 84.19 feet to a point; THENCE North 42 Degrees 08 Minutes 15 Seconds West for a distance of 19.39 feet to a point; THENCE along a curve to the left having a radius of 290.00 feet and an arc length of 85.86 feet being subtended by a chord bearing of North 50 Degrees 37 Minutes 08 Seconds West and a chord distance of 85.54 fect to a point; THENCE North 59 Degrees 06 Minutes 00 Seconds West for a distance of 40.85 fcet to a point; THENCE along a curve to the left having a radius of 190.00 feet and an arc length of 129.95 feet being subtended by a chord bearing of North 78 Degrees 41 Minutes 37 Seconds West and a chord distance of 127.43 feet to a point; THENCE South 81 Degrees 42 Minutes 46 Seconds West for a distance of 407.62 feet to a point; THENCE along a curve to the right having a radius of 532.74 feet and an arc length of 156.84 feet being subtended by a chord bearing of North 89 Degrees 51 Minutes 12 Seconds West and a chord distance of 156.27 feet to a point; THENCE North 81 Degrees 25 Minutes 09 Seconds West for a distance of 106.01 feet to a point; THENCE along a curve to the left having a radius of 766.62 feet and an arc length of 124.19 feet being subtended by a chord bearing of North 86 Degrees 03 Minutes 37 Seconds West and a chord distance of 124.06 feet to a point; THENCE South 89 Degrees 17 Minutes 56 Seconds West for a distance of 133.13 feet to a point on the easterly right of way of Perimeter Road (80' right of way), said point marked by a 1/2 inch rebar pin set; THENCE traveling on said Perimeter Road right of way North 15 Degrees 56 Minutes 37 Seconds East for a distance of 515.06 feet to a point; THENCE along a curve to the left having a radius of 1049.03 feet and an arc length of 473.65 feet being subtended by a chord bearing of North 03 Degrees 00 Minutes 32 Seconds East and a chord distance of 469.63 feet to a point; THENCE along a curve to the left having a radius of 1766.51 feet and an arc length of 162.28 feet being subtended by a chord bearing of North 12 Degrees 33 Minutes 28 Seconds West and a chord distance of 162.22 feet to a point, said point being THE TRUE POINT OF BEGINNING.

Said property contains +/-37.852 Acres.

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Perimeter Road Tract 2 32.956 Acres

All that tract or parcel of land lying and being in Land Lots 372, 373, 427 and 428 of the North Half of the 13th Land District, Dawson County, Georgia and being more particularly described as follows;

To find the True Point of Beginning, commence at the intersection of Land Lots 371 and 372 and the Easterly right of way of Perimeter Road (80° right of way), said point marked by a ½ inch Rod found; Thence traveling on said Perimeter Road right of way the following three (3) courses and distances:

along a curve to the right having a radius of 1766.51 feet and an arc length of 162.28 feet being subtended by a chord bearing of South 12 Degrees 33 Minutes 28 Seconds East and a chord distance of 162.22feet to a point; THENCE along a curve to the right having a radius of 1049.03 feet and an arc length of 473.65 feet being subtended by a chord bearing of South 03 Degrees 00 Minutes 32 Seconds West and a chord distance of 469.63 feet to a point; THENCE continuing on said right of way South 15 Degrees 56 Minutes 37 Seconds West for a distance of 650.74 feet to a point, said point marked by a ½ inch rebar pin set, said point being THE TRUE POINT OF BEGINNING.

THENCE from said point as thus established, North 89 Degrees 17 Minutes 56 Seconds East for a distance of 171.99 feet to a point; THENCE along a curve to the right having a radius of 636.62 feet and an arc length of 103.13 feet being subtended by a chord bearing of South 86 Degrees 03 Minutes 37 Seconds East and a chord distance of 103.02 feet to a point; THENCE South 81 Degrees 25 Minutes 09 Seconds East for a distance of 106.01 feet to a point; THENCE along a curve to the left having a radius of 662.74 feet and an arc length of 195.11 feet being subtended by a chord bearing of South 89 Degrees 51 Minutes 12 Seconds East and a chord distance of 194.41 feet to a point; THENCE North 81 Degrees 42 Minutes 46 Seconds East for a distance of 407.62 feet to a point; THENCE along a curve to the right having a radius of 60.00 feet and an arc length of 41.04 feet being subtended by a chord bearing of South 78 Degrees 41 Minutes 37 Seconds East and a chord distance of 40.24 feet to a point; THENCE South 59 Degrees 06 Minutes 00 Seconds East for a distance of 40.85 feet to a point; THENCE along a curve to the right having a radius of 160.00 feet and an arc length of 47.37 feet being subtended by a chord bearing of South 50 Degrees 37 Minutes 08 Seconds East and a chord distance of 47.20 feet to a point; THENCE South 42 Degrees 08 Minutes 15 Seconds East for a distance of 19.39 feet to a point; THENCE along a curve to the left having a radius of 240.00 feet and an arc length of 188.50 feet being subtended by a chord bearing of South 64 Degrees 38 Minutes 15 Seconds East and a chord distance of 183.69 feet to a point; THENCE South 87 Degrees 08 Minutes 15 Seconds East for a distance of 60.06 feet to a point, said point marked by a ½ inch rebar pin set; THENCE traveling South 02 Degrees 23 Minutes 44 Seconds East for a distance of 818.35 feet to a point, said point marked by a 1/2 inch rebar pin found; THENCE South 85 Degrees 54 Minutes 23 Seconds West for a distance of 1589.65 feet to a point on the easterly right of way of Perimeter Road (80' right of way), said point marked by a 1/2 inch rebar pin found;

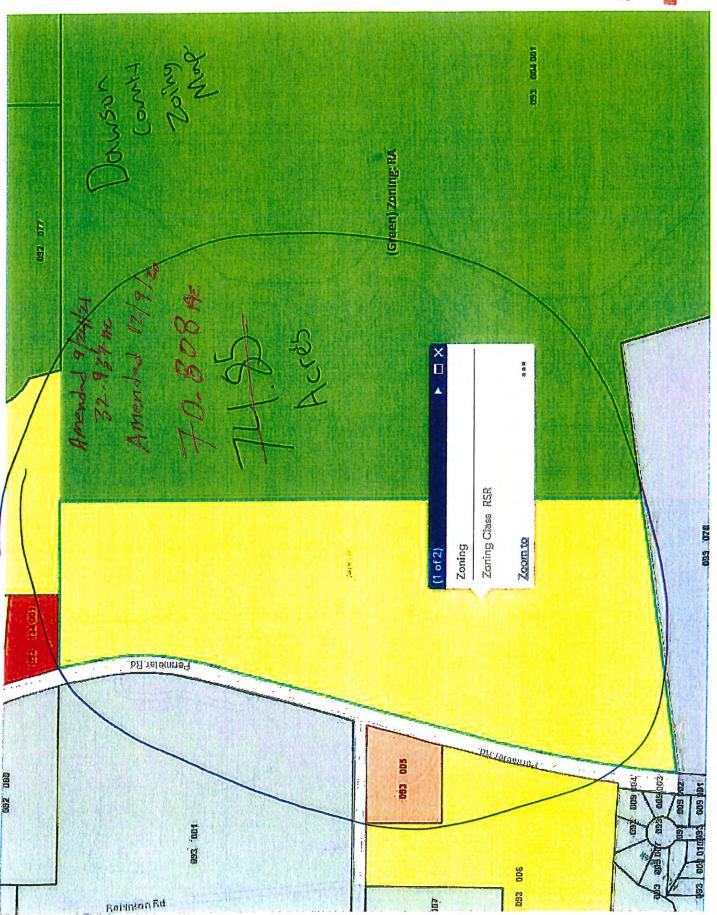
THENCE traveling on said Perimeter Road right of way the following four (4) courses and distances:

along a curve to the right having a radius of 4750.52 feet and an arc length of 180.80 feet being subtended by a chord bearing of North 05 Degrees 58 Minutes 08 Seconds East and a chord distance of 180.79 feet to a point; THENCE along a curve to the right having a radius of 3438.13 feet and an arc length of 387.33 feet being subtended by a chord bearing of North 10 Degrees 17 Minutes 12 Seconds East and a chord distance of 387.13 feet to a point; THENCE along a curve to the right having a radius of 3438.13 feet and an arc length of 145.79 feet being subtended by a chord bearing of North 14 Degrees 43 Minutes 43 Seconds East and a chord distance of 145.78 feet to a point; THENCE North 15 Degrees 56 Minutes 37 Seconds East for a distance of 360.69 feet to a point, said point being THE TRUE POINT OF BEGINNING.

Said property contains 32.956 Acres

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Amended 12/9/20-9/24/21



City of Dawsonville 415 Highway 53 East, Suite 100 Dawsonville, GA 30534 Phone: (706) 265-3256

Zoning Amendment Application

Applicant Name(e): Michael K Turner Address: 100 Oakhaven Drive City: Roswell Zip: CAT Phone: 678-570-0469 Cell Phone: Signature(s) Directions to Property from City Halt: Turne a to n Allen st go 3/4 m/e to Perination Re Tax Map # 09300000 Parcel # Land Lot(s): 370-373-373-497 to 5 bistrict: Subdivision Name: Lot # Lot # Lot # Land Lot(s): Arc 371 Arg 373-373-497 to 5 bistrict: Subdivision Name: Lot # Has a past Request of Rezone of this property been made before? 15 bistrict: Rezoning to zoning category: R 2 Proposed use of property if rezoned is: Rezoning to zoning category: R 3 Special Use permit for: Proposed use of property if rezoned is: If Residential: # of lots proposed 12-4 Minimum lot size proposed 75 x 100 (Include Conceptual Plan) Is an Amenity area proposed 12-4 Minimum lot size proposed (Include Conceptual Plan) Is an Amenity area proposed 12-4 Minimum lot size proposed (Include Conceptual Plan) Existing Utilities: (utilities developer intends to provide) Water Sewer Electric Natural Gas Proposed Utilities: (utilities developer intends to provide) Water Sewer Electric Natural Gas Road Access/Poposed Access: (Access to the developmentarea will be provided from) Road name: Recrimeter Advisor and proposed 11-1 or Type of Surface: Resemble of this application. 4 Failure to complete all sections will result in rejection of application and unnecessary delays. 4 Iunderstand that failure to appear at a public hearing may result in the postponement or denial of this application. 3 14 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
Applicant Name(s): MI chael KTURNER Address: 190 Oakhoven Drive City: Roswell Zip: GAT Phone: 678-570-0469 Cell Phone: Signature(s) Directions to Property from City Hall: TUTN east on Allen St qo 3/4 m/e to Parantia Name # 0930 otol Parcel # Current Zoning**: agriculto cal Land Lot(s): 370-373-373-373-477 to District: 13-1 h Section: Subdivision Name: 1808 AAcres: 74865 Current Use of Property: Vacant Has a past Request of Rezone of this property been made before? 15 li yes, provide ZA # C9-00209 With Name 1, spot (sect), and for 32 Acres The applicant request: Rezoning to zoning category: R2 Special Use permit for: Proposed use of property if rezoned is: 1800 and 180		Request # ZA- C2100643 Condition/Stipulation Change
Applicant Name(s): MI chael KTURNER Address: 190 Oakhoven Drive City: Roswell Zip: GAT Phone: 678-570-0469 Cell Phone: Signature(s) Directions to Property from City Hall: TUTN east on Allen St qo 3/4 m/e to Parantia Name # 0930 otol Parcel # Current Zoning**: agriculto cal Land Lot(s): 370-373-373-373-477 to District: 13-1 h Section: Subdivision Name: 1808 AAcres: 74865 Current Use of Property: Vacant Has a past Request of Rezone of this property been made before? 15 li yes, provide ZA # C9-00209 With Name 1, spot (sect), and for 32 Acres The applicant request: Rezoning to zoning category: R2 Special Use permit for: Proposed use of property if rezoned is: 1800 and 180		Original ZA #
Address: 1900 Oakh aven Drive City: Resuel Zip: At Phone: 678-570-0469 Cell Phone: Signature(s) Property Address: 1 Property From City Hall: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		M D I I T
Phone: 678-570-0469 Cell Phone: Signature(s) Property Address: Perimeter Road Directions to Property from City Hall: turn east an Allen St as 3/4 mile to Property Address: Directions to Property from City Hall: turn east an Allen St as 3/4 mile to Property Address: Directions to Property from City Hall: turn east an Allen St as 3/4 mile to Property Address: Tax Map # 093004001 Parcel # Current Zoning**: acquired to Current Zoning**: acquired Zoning**: acquir		
Property Address: Peri Meter Road Directions to Property from City Hall: 14 Peast on Allen St 9 3/4 m/e to Perimeter Road Directions to Property from City Hall: 14 Peast on Allen St 9 3/4 m/e to Perimeter Road Tax Map # 0 93 0 0 0 0 Parcel # Current Zoning**: acquired Following Parcel # Section: Subdivision Name: Lot #		
Directions to Property from City Hall: turn east an Allenst as 3/4 mile to Perimuter Reamand Park 1930 of the Parel # Current Zoning**: acquicultured Land Lot(s): 376 371 373 373 437 45 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Signature(s) Date 8/14/2020
Directions to Property from City Halt: turn east an Allen St as 3/4 m/e to Perimeter No. Tax Map # 09304001 Parcel # Current Zoning**: acquiculty call Land Lot(s).376 371 373 373 437 45 District: 13-1 h Section: Subdivision Name: Lot #		Property Address: Perimeter Road
Tax Map # 09300400 Parcel # Current Zoning*: acquait of all Lot(s): 370 371 373 437 437 45 District: 13-14 Section: Subdivision Name: Lot # L		Directions to Property from City Hall: turn east on Allen St go 3/4 mile to Perimeter Re
Acres: 74.7655 Current Use of Property: Va cand Has a past Request of Rezone of this property been made before? 15 If yes, provide ZA # C3-00209 Withdraw 14 spatished and 15 If yes provide ZA # C3-00209 Withdraw 15 Spatished and 15 If yes provide ZA # C3-00209 Withdraw 16 spatished and 15 If yes provide ZA # C3-00209 Withdraw 16 spatished and 15 If yes provide ZA # C3-00209 Withdraw 16 spatished and 15 If yes provide ZA # C3-00209 Withdraw 16 spatished and 15 If yes provide ZA # C3-00209 Withdraw 16 spatished and 15 If yes provide ZA # C3-00209 Withdraw 16 spatished ZA # C3-00209 Withdraw 16 spatished ZA # C3-00209 If proposed Use of property if rezoned is: Residential: # of lots proposed I		Tax Map # 093004001 Parcel # Current Zoning**: aguculto cal
Has a past Request of Rezone of this property been made before? VS If yes, provide ZA # C9-00204 The applicant request: Rezoning to zoning category: Proposed use of property if rezoned is: If Residential: # of lots proposed 12-4 Minimum lot size proposed If Commercial: Total Building area proposed If Commercial: Total Building area proposed If Commercial: Total Building area proposed Water Sewer Electric Natural Gas Proposed Utilities: (utilities developer intends to provide) Road Access/Proposed Access: (Access to the development/area will be provided from) Road name: Proposed Access: (Access to the development/area will be provided from) Road name: Proposed Access: (Access to the development/area will be provided from) Failure to complete all sections will result in rejection of application and unnecessary delays. I understand that failure to appear at a public hearing may result in the postponement or denial of this application. Signature of Applicant Office Use Only: Date Of Planning Commission Meeting: 111/2020 Date of Planning Commission Meeting: 111/2020 Postponed: VES NO Date: 111/6/1/2020 Postponed: VES NO Date: 111/6/1/2020 Rescheduled for next Meeting: 1/9/21	-14w-	Land Lot(s): 376 371 372 373 427 42 8 District: 12-19 Section:
Has a past Request of Recone of this property been made before? 15 If yes, provide ZA # C8-0020q Withdraw 15 spot (seet , only for 32 Area The applicant request: Rezoning to zoning category: Resoning to zoning category: Rezoning to zoning to	יין דכף,	Subdivision Name:Lot #
Has a past Request of Rezone of this property been made before? 15 If yes, provide ZA # C9-00204 The applicant request: Rezoning to zoning category: R3 Special Use permit for: Proposed use of property if rezoned is: If Residential: # of lots proposed 12-4 Minimum lot size proposed 75 x i o (Include Conceptual Plan) Is an Amenity area proposed 12-4 Minimum lot size proposed 75 x i o (Include Conceptual Plan) Is an Amenity area proposed 12-4 Minimum lot size proposed 16 (Include Conceptual Plan) Existing Utilities: (utilities readily available at the road frontage) Water Sewer Electric Natural Gas Proposed Utilities: (utilities developer intends to provide) Water Sewer Electric Natural Gas Road Access/Proposed Access: (Access to the development/area will be provided from) Road name: Permeter Reference of Torrea or Type of Surface: Permeter Parelle of Application and unnecessary delays. I understand that failure to appear at a public hearing may result in the postponement or denial of this application. Signature of Applicant Date Office Use Only: Date Of Planning Commission Meeting: 11 1 2000 Date of Planning Commission Meeting: 11 1 2000 Postponed: ES NO Date: 11 6 2000 Rescheduled for next Meeting: 19 21	2.808 A	Acros 1115 65 Christian List of Fronting
The applicant request: Rezoning to zoning category: Resoning to zoning category: Proposed use of property if rezoned is: Residential: # of lots proposed 12-4 Minimum lot size proposed 75 × 100 (Include Conceptual Plan) Is an Amenity area proposed 12-4 Minimum lot size proposed 75 × 100 (Include Conceptual Plan) Is an Amenity area proposed 12-4 Minimum lot size proposed 15-4 Minimum lot size proposed 16 Conceptual Plan) If Commercial: Total Building area proposed 17-4 Minimum lot size proposed 19-4 Minimum lot size proposed 19-4 Minimum lot size proposed 19-4 Natural Gas Proposed Utilities: (utilities readily available at the road frontage) 19-4 Mater 19-4 Sewer 19-4 Sewer 19-4 Sewer 19-4 Natural Gas Proposed Utilities: (utilities developer intends to provide) 19-4 Water 19-4 Sewer 19-4		Has a past Request of Rezone of this property been made before? \\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \
Proposed use of property if rezoned is: If Residential: # of lots proposed 12-4 Minimum lot size proposed 7.5 x 1 0 0 (Include Conceptual Plan) Is an Amenity area proposed 12-3 if yes, what pod a dana plan ground If Commercial: Total Building area proposed (Include Conceptual Plan) Existing Utilities: (utilities readily available at the road frontage) Water Sewer Electric Natural Gas Proposed Utilities: (utilities developer intends to provide) Water Sewer Electric Natural Gas Road Access/Proposed Access: (Access to the development/area will be provided from) Road name: Permeter Rolling Or Type of Surface: Permeter Parell Failure to complete all sections will result in rejection of application and unnecessary delays. I understand that failure to appear at a public hearing may result in the postponement or denial of this application. Signature of Applicant Office Use Only: Date Completed Application Rec'd 8/21/2020 Amount Paid \$ 1/69 - 1/20 Check # 1131 4 1/2036 Date of Planning Commission Meeting: 9/11/2020 Dates Advertised: 8/26/20 Postponed: YES NO Date: 11/6/1/2020 Rescheduled for next Meeting: 1/9/21		
If Residential: # of lots proposed 124 Minimum lot size proposed 75 x 100 (Include Conceptual Plan) Is an Amenity area proposed 125, if yes, what pool cabana play ground If Commercial: Total Building area proposed (Include Conceptual Plan) Existing Utilities: (utilities readily available at the road frontage) Water Sewer Electric Natural Gas Proposed Utilities: (utilities developer intends to provide) Water Sewer Electric Natural Gas Road Access/Proposed Access: (Access to the development/area will be provided from) Road name: Permeter Rolling Dr. Type of Surface: Permeter Powed Failure to complete all sections will result in rejection of application and unnecessary delays. I understand that failure to appear at a public hearing may result in the postponement or denial of this application. Signature of Applicant Office Use Only: Date Completed Application Rec'd Play 2020 Dates Advertised: 8/26/20 Postponed: YES NO Date: 11/6/2020 Rescheduled for next Meeting: 19/21		
Is an Amenity area proposed, if yes, what		Proposed use of property if rezoned is: Residential
If Commercial: Total Building area proposed		
Existing Utilities: (utilities readily available at the road frontage)		Is an Amenity area proposed yes, if yes, what pool cabana play ground
Proposed Utilities: (utilities developer intends to provide) WaterSewerElectricNatural Gas		
Road Access/Proposed Access: (Access to the development/area will be provided from) Road name: Permeter Rational Dr Type of Surface: Permeter Pared Failure to complete all sections will result in rejection of application and unnecessary delays. Failure to complete all sections will result in rejection of application and unnecessary delays. I understand that failure to appear at a public hearing may result in the postponement or denial of this application. Signature of Applicant Office Use Only: Date Completed Application Rec'd \$\frac{12020}{2142020}\$ Date of Planning Commission Meeting: \frac{1134}{2020}\$ Dates Advertised: \frac{8/26/20}{26/20}\$ Postponed: \frac{11314}{2020}\$ Rescheduled for next Meeting: \frac{19}{21}\$ Rescheduled for next Meeting: \frac{19}{21}\$		Existing Utilities: (utilities readily available at the road frontage) Water Sewer Electric Natural Gas
Road name: Perimeter Rd/Turner Dr Type of Surface: Perimeter Pawed Failure to complete all sections will result in rejection of application and unnecessary delays. I understand that failure to appear at a public hearing may result in the postponement or denial of this application. Signature of Applicant Office Use Only: Date Completed Application Rec'd 8/21/2020 Amount Paid \$ 4/691. 65 Check # 11314 / Cash Date of Planning Commission Meeting: 9/14/2020 Dates Advertised: 8/26/20 Postponed: YES NO Date: 11/6/2020 Rescheduled for next Meeting: 1/9/21		Proposed Utilities: (utilities developer intends to provide) Water Sewer Electric Natural Gas
Failure to complete all sections will result in rejection of application and unnecessary delays. I understand that failure to appear at a public hearing may result in the postponement or denial of this application. Signature of Applicant Office Use Only: Date Completed Application Rec'd 8/21/2020 Amount Paid \$ 4/691. 65 Check # 11314 /Cash Date of Planning Commission Meeting: 9/14/2020 Dates Advertised: 8/26/20 Postponed: YES NO Date: 11/6/2020 Rescheduled for next Meeting: 1/9/21		
I understand that failure to appear at a public hearing may result in the postponement or denial of this application. Signature of Applicant Office Use Only: Date Completed Application Rec'd 8/21/2020 Amount Paid \$ 4/691. 65 Check # 11314 / Cash Date of Planning Commission Meeting: 9/11/2020 Dates Advertised: 8/26/20 Postponed: YES NO Date: 11/6/2020 Rescheduled for next Meeting: 1/9/21		Road name: <u>Verimeter Rd/Iurna Dr</u> Type of Surface: <u>Terimeter - paved</u>
Signature of Applicant Office Use Only: Date Completed Application Rec'd 8/21/2020 Date Completed Application Rec'd 9/11/2020 Date of Planning Commission Meeting: 9/11/2020 Date of City Council Meeting: 1/16/2020 Postponed: YES NO Date: 1/16/2020 Rescheduled for next Meeting: 1/9/21		
Signature of Applicant Office Use Only: Date Completed Application Rec'd 8/21/2020 Amount Paid \$ 4/691. 65 Check # 11314 /Cash Date of Planning Commission Meeting: 9/14/2020 Dates Advertised: 8/26/20 Postponed: YES NO Date: 11/6/2020 Rescheduled for next Meeting: 1/9/21		
Office Use Only: Date Completed Application Rec'd 8/21/2020 Amount Paid \$ 4/691.65 Check # 11314 /Cash Date of Planning Commission Meeting: 9/14/2020 Dates Advertised: 8/26/20 Postponed: YES NO Date: 11/6/2020 Rescheduled for next Meeting: 1/9/21		91110001
Date of Planning Commission Meeting: 9/14/2020 Dates Advertised: 8/26/20 Date of City Council Meeting: 11/6/2020 Dates Advertised: 9/26/20 Postponed: YES NO Date: 11/6/2020 Rescheduled for next Meeting: 1/9/21		1139
Postponed: YES NO Date: 11/6/2020 Dates Advertised: 9/26/20 Rescheduled for next Meeting: 1/9/21	10/20	Date Completed Application Rec'd 7(21/2020 Amount Paid \$ 7(41.6) Check # 1714 /Cash
Postponed: YES NO Date: 11/6/2020 Rescheduled for next Meeting: 1/9/21	11100	Date of Planning Commission Meeting: 7119 12030 Dates Advertised: 8126 50
	19/21	

Amended 12/9/2020 - 9/24/21



City of Dawsonville

415 Highway 53 East, Suite 100 Dawsonville, GA 30534 (706) 265-3256 Zoning Amendment Authorization

Property Owner Authorization

I/We BEK Tu/ner Family LLP hereby swear that I/we own the property located at (fill in address and/or tax map & parcel #) Perimeter Rd

in the tax maps and/or deed records of Dawson County, Georgia, and which parcel will be affected by the request.

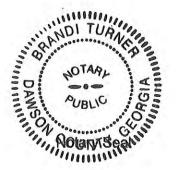
I hereby authorize the person(s) or entity(ies) named below to act as the applicant or agent in pursuit of the rezoning requested on this property. I understand that any rezone granted, and/or conditions or stipulations placed on the property will be binding upon the property regardless of ownership. The under signer below is authorized to make this application. The undersigned is aware that no application or reapplication affecting the same land shall be acted upon within 6 months from the date of the last action by the City Council.

Printed Name of Applicant or Agent	SMILLER	Date 70
Mailing Address 1090 Oak Navi		Date_/~
	11	
City Roswell	State_C7/T	Zip 30075

Sworn to and subscribed before me this 10 day of December 2020.

But Notary Public, State of Georgia

My Commission Expires: 11-19-2022



(The complete names of all owners must be listed, if the owner is a partnership, then ames of all partners must be listed, if a joint venture, then ames of all members must be listed. If a separate sheet is needed to list all names, please have the additional sheet not arized also.)

Amended 12/9/20-9/24/



City of Dawsonville

415 Highway 53 East, Suite 100 Dawsonville, GA 30534 Phone: (706) 265-3256

Zoning Amendment Campaign Disclosure

<u>Disclosure of Campaign Contributions</u> (Applicant(s) and Representative(s) of Rezoning)



Pursuant to OCGA, Section 36-67 A-3.A, the following disclosure is mandatory when an applicant or any representation of application for rezoning has been made with two (2) years immediately preceding the filing of the applicant's request for rezoning, campaign contributions aggregating \$250.00 or more to a local government official who will consider the application for rezoning.

It shall be the duty of the applicant and the attorney representing the applicant to file a disclosure with the governing authority of the respective local government showing the following:

1. 1	Name of local official to wr	nom campaign contribution was	mage.
2.	opponent to the local gove	scription of each campaign cont ernment official during the two y application for the rezoning ac	ears immediately
	Amount \$	Date:	
made to th	e local government official for rezoning:	gift when the total value of all g during the 2 years immediately	preceding the filing
	12011		
M	WILL	and the second s	8/14/2020
Signatu	re of Applicant / Repres	entative of Applicant	Dáte

Failure to complete this form is a statement that no disclosure is required.

Amended 12/9/20-9/24/21



City of Dawsonville

415 Highway 53 East, Suite 100 Dawsonville, GA 30534 Phone: (706) 265-3256

Zoning Amendment Adjacent Property Owners

		112		of the last	
Ζ Δ#	C2	10	0	04	13

TMP# 093-004-001

It is the responsibility of the applicant to provide a list of adjacent property owners. This list must include the name and address of anyone who has property touching your property or who has property directly across the street from your property. (Use additional sheets if necessary)

Please note This information should be obtained at the Planning Office using the Tax Map Parcel Map listing any parcel(s) adjoining or adjacent to parcel where rezone is being requested.

TMP#	1.	Name(s):				_
		Address:				
TMP#	8	Name(s):	See	Attached	List	_
TMP#	3.	Name(s):Address:				
TMP#	4.	Name(s):				
TMP#	5.	Name(s):				
TMP#	6.	Name(s):				
TMP#	7.	Name(s):				_
TMP#	8.	Name(s):				_

Adjacent Property Owner notification of a zoning amendment request is required.

The applicant is responsible for mailing the Public Notice (prepared by the Planning Dept.) to each adjacent property owner via Certified Mail or pays the additional postage to the City to mail.

ANX/ZA C2100043 Allen Street Properties LLC 1090 Oakhaven Drive Roswell, GA 30075

ANX/ZA C2100043

Dawson County School District
P.O. Box X208

Dawsonville, GA 30534

ANX/ZA C2100043 GA School Board Assoc 5120 Sugarloaf PWKY Lawrenceville, GA 30043

ANX/ZA C2100043 Perimeter Rd LLC 431 Bears Den Rd Dahlonega, GA 30533

ANX/ZA C2100043 Marilyn Emmett 80 Turner Drive Dawsonville, GA 30534

ANX/ZA C2100043 Elton & Sarah Jones 3100 HWY 9 South Dawsonville, GA 30534

ANX/ZA C2100043 Wanda Goodson P.O. Box 204 Dawsonville, GA 30534

ANX/ZA C2100043

First Baptist Church of Dawsonville
P.O. Box 1358

Dawsonville, GA 30534

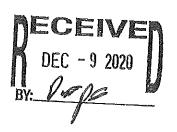
ANX/ZA C2100043 Sandra Gilleland 135 Joan Lane Dawsonville, GA 30534

ANX/ZA C2100043 Roland Gilleland 15 Joan Lane Dawsonville, GA 30534

REQUEST FOR ANNEXATION AND REZONING ACTION FROM CITY OF DAWSONVILLE ZONING BOARD

FOR

B & K TURNER FAMILY, LLP 70,808-ACRE SUBDIVISION ON PERIMETER ROAD



NATURE OF REQUEST

To annex and rezone a vacant 70.808-Acre Tract into the City of Dawsonville

PURPOSE OF REQUEST

To allow for development of a 124 Lot Residential Subdivision

NARRATIVE

The scope of this project is to annex and rezone a 37.852-Acre tract (Tract 1) and a 32.956-Acre tract (Tract 2), subdivided out from an existing 492 Acre Tract, into the City of Dawsonville for a proposed 124 Lot Residential Subdivision(s). There will also be a shared community amenity area. Due to challenges in topo we have shown potential borrow pit areas as part of this annexation. If at all possible, we would like to potentially covert these areas into future phased developments.

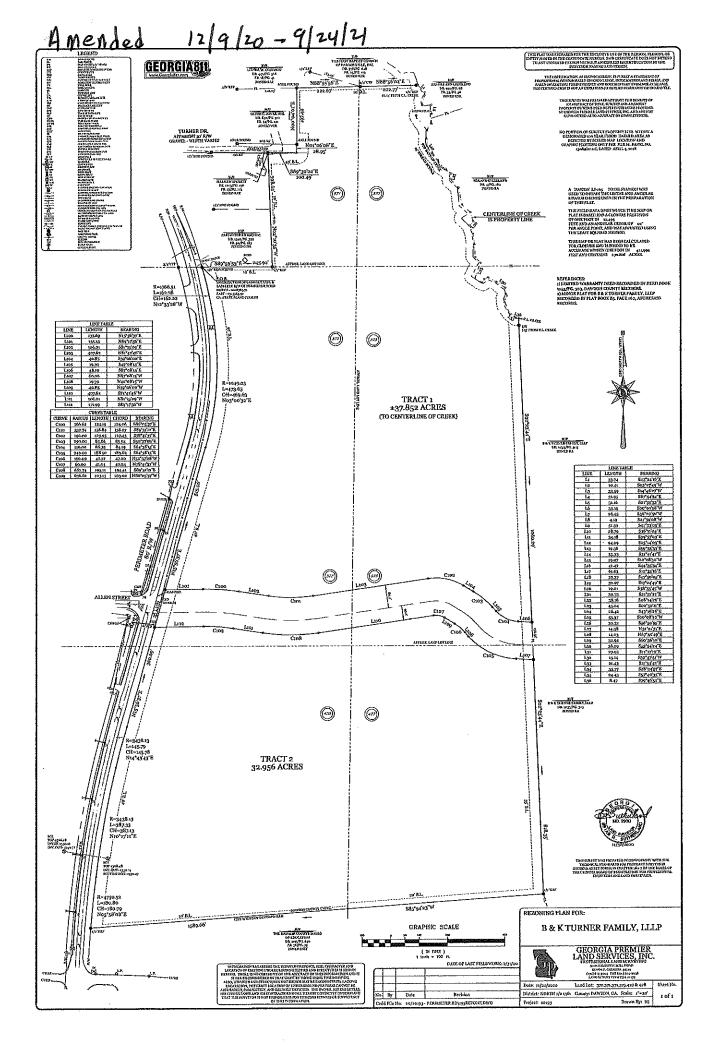
This property is a 70.808 acre tract of land, Land Lots 370, 371, 372, 373, 427 and 428, 12th District. The property is currently zoned RSR and RA. We are requesting a rezoning of R-3. Minimum lot size shall be 75'x100'. It has frontage on Perimeter Road, but we are also proposing extending Turner Drive that will serve as an 2nd access point to the subject Tract 1. Tract 2 will have two proposed access point located along the proposed Magic Dam Parkway road. It is our intent to utilize the 70.808 acres to develop the proposed 124 lot subdivision(s) and shared community amenity area. Amenity area features to be determined at a later date. At this time the proposed site plan will yield a density of 1.751 units per acre; well below the 3.00 units per acre we are requesting. Our overall goal is to develop the proposed 124 lot site plan and under a future phase(s) develop additional potential lots on the remaining vacant ground, but not exceed the maximum 212 units per acre allowed under the R-3 zoning request. The number of potential future phased lots cannot be determined at this time. Shown on the proposed site plan is a 2.577-Acre strip of land that splits Tracts 1 and Tract 2. This Strip of land is to be used for the development of the Magic Dam Parkway road (80' R/W that will remain in Dawson County) and a 50' wide strip of land privately owned by B & K Turner Family, LLLP, the current owner of the original 492-Acre Tract, that will also stay in Dawson County.

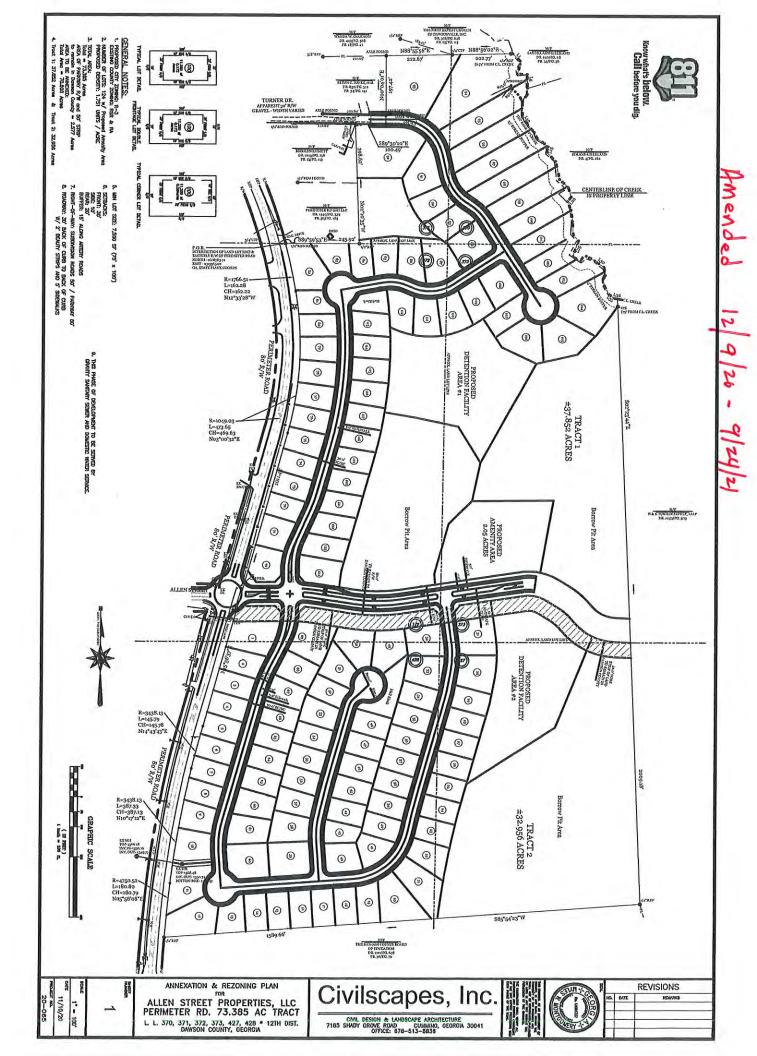
Located to the north of subject property along Perimeter Road is residential property zoned R-A. Located to the north of subject property located along the Turner Drive access is The First Baptist Church of Dawsonville. Located to the east of the subject property is residential tracts and a large tract zoned RA owned by the applicant. Dawson County High School is located to

the south. Located to the west is Perimeter Road. Proposed access into the residential subdivision will be from a proposed revised intersection located along Perimeter Road / Allen Street, a proposed entrance from Turner Drive and two proposed entrances located along the proposed Parkway Road.

Both potable water and sanitary sewer will serve this tract. Storm water detention will be provided by an onsite pond facilities.

We feel that the requested annexation and rezoning to allow for a 124 Lot residential subdivision would be an appropriate type of use for this area. It is unlikely to pose any problems for any of the neighbors. We do not believe that allowing the proposed use of this property would in any way devalue or pose hardships on any of the surrounding properties.





Amended 12/9/20 - 9/24/21

Perimeter Road Tract 1 +/-37.852Acres

All that tract or parcel of land lying and being in Land Lots 370, 371, 372 and 373 of the North Half of the 13th Land District, Dawson County, Georgia and being more particularly described as follows;

Beginning at the intersection of Land Lots 371 and 372 and the Easterly right of way of Perimeter Road (80' right of way), said point marked by a ½ inch Rod found; THENCE leaving said right of way and traveling on the Land Lot Line common to Land Lots 371 and 372, South 89 Degrees 59 Minutes 53 Seconds East for a distance of 245.92 feet to a point, said point marked by a ½ inch rebar pin found; THENCE leaving said Land Lot Line North 02 Degrees 10 Minutes 35 Seconds West for a distance of 398.62 feet to a point, said point marked by an Axle found; THENCE South 89 Degrees 30 Minutes 22 Seconds East for a distance of 100.49 feet to a point; THENCE North 01 Degrees 06 Minutes 08 Seconds East for a distance of 28.95 feet to a point, said point marked by an Axle found; THENCE North 00 Degrees 04 Minutes 01 Seconds East for a distance of 197.42 feet to a point, said point marked by an Axle found; THENCE North 88 Degrees 55 Minutes 56 Seconds East for a distance of 222.67 feet to a point, said point marked by a ¾ inch crimp top pipe found; THENCE North 88 Degrees 56 Minutes 02 Seconds East for a distance of 202.77 feet to a point in the centerline of a creek; THENCE traveling on said creek the following thirty-six (36) courses and distances:

South 43 Degrees 24 Minntes 16 Seconds East for a distance of 33.74 feet to a point; THENCE South 03 Degrees 27 Minutes 49 Seconds West for a distance of 10.41 feet to a point; THENCE South 14 Degrees 46 Minutes 27 Seconds West for a distance of 33.59 feet to a point; THENCE South 87 Degrees 54 Minutes 34 Seconds East for a distance of 31.95 feet to a point; THENCE South 01 Degrees 55 Minutes 32 Seconds East for a distance of 31.16 feet to a point; THENCE South 00 Degrees 02 Minutes 56 Seconds West for a distance of 35.15 feet to a point; THENCE South 36 Degrees 20 Minutes 50 Seconds West for a distance of 26.45 feet to a point; THENCE South 21 Degrees 59 Minutes 08 Seconds West for a distance of 4.19 feet to a point; THENCE South 01 Degrees 23 Minutes 05 Seconds East for a distance of 51.39 feet to a point; THENCE South 36 Degrees 11 Minutes 04 Seconds East for a distance of 28.79 feet to a point; THENCE South 39 Degrees 57 Minutes 03 Seconds East for a distance of 34.18 feet to a point; THENCE South 25 Degrees 14 Minutes 03 Seconds East for a distance of 24.29 feet to a point; THENCE South 59 Degrees 25 Minutes 33 Seconds East for a distance of 19.36 feet to a point; THENCE South 51 Degrees 41 Minutes 47 Seconds East for a distance of 25.33 feet to a point; THENCE South 12 Degrees 28 Minutes 30 Seconds West for a distance of 19.07 feet to a point; THENCE South 44 Degrees 35 Minutes 34 Seconds East for a distance of 41.47 feet to a point; THENCE South 12 Degrees 33 Minutes 16 Seconds East for a distance of 61.63 feet to a point; THENCE South 47 Degrees 50 Minutes 05 Seconds East for a distance of 39.37 feet to a point; THENCE South 17 Degrees 24 Minutes 49 Seconds East for a distance of 32.97 feet to a point; THENCE South 38 Degrees 35 Minutes 45 Seconds West for a distance of 19.01 feet to a point; THENCE South 21 Degrees 51 Minutes 22 Seconds East for a distance of 30.73 feet to a point; THENCE South 08 Degrees 14 Minutes 26 Seconds East for a distance of 38.16 feet to a point; THENCE South 02 Degrees 50 Minutes 11

Seconds East for a distance of 45.04 feet to a point; THENCE South 43 Degrees 16 Minutes 26 Seconds East for a distance of 26.42 feet to a point; THENCE South 20 Degrees 08 Minutes 22 Seconds West for a distance of 55.37 feet to a point; THENCE South 56 Degrees 50 Minutes 55 Seconds East for a distance of 30.32 feet to a point; THENCE North 31 Degrees 21 Minutes 31 Seconds East for a distance of 14.38 feet to a point; THENCE North 67 Degrees 40 Minutes 49 Seconds East for a distance of 14.23 feet to a point; THENCE South 60 Degrees 56 Minutes 10 Seconds East for a distance of 32.92 feet to a point; THENCE South 55 Degrees 54 Minutes 24 Seconds East for a distance of 36.09 feet to a point; THENCE South 11 Degrees 17 Minutes 10 Seconds East for a distance of 15.14 feet to a point; THENCE South 11 Degrees 47 Minutes 51 Seconds East for a distance of 21.43 feet to a point; THENCE South 11 Degrees 54 Minutes 42 Seconds East for a distance of 21.43 feet to a point; THENCE South 28 Degrees 24 Minutes 57 Seconds East for a distance of 33.77 feet to a point; THENCE South 57 Degrees 40 Minutes 33 Seconds East for a distance of 24.43 feet to a point; THENCE South 79 Degrees 46 Minutes 55 Seconds East for a distance of 8.47 feet to a point;

THENCE leaving said centerline creek South 02 Degrees 23 Minutes 44 Seconds East for a distance of 1060.29 feet to a point; THENCE traveling North 87 Degrees 08 Minutes 15 Seconds West for a distance of 48.10 feet to a point; THENCE along a curve to the right having a radius of 110.00 feet and an arc length of 86.39 feet being subtended by a chord bearing of North 64 Degrees 38 Minutes 15 Seconds West and a chord distance of 84.19 feet to a point; THENCE North 42 Degrees 08 Minutes 15 Seconds West for a distance of 19.39 feet to a point; THENCE along a curve to the left having a radius of 290.00 feet and an arc length of 85.86 feet being subtended by a chord bearing of North 50 Degrees 37 Minutes 08 Seconds West and a chord distance of 85.54 feet to a point; THENCE North 59 Degrees 06 Minutes 00 Seconds West for a distance of 40.85 feet to a point; THENCE along a curve to the left having a radius of 190.00 feet and an arc length of 129.95 feet being subtended by a chord bearing of North 78 Degrees 41 Minutes 37 Seconds West and a chord distance of 127.43 feet to a point; THENCE South 81 Degrees 42 Minutes 46 Seconds West for a distance of 407.62 feet to a point; THENCE along a curve to the right having a radius of 532.74 feet and an arc length of 156.84 feet being subtended by a chord bearing of North 89 Degrees 51 Minutes 12 Seconds West and a chord distance of 156.27 feet to a point; THENCE North 81 Degrees 25 Minutes 09 Seconds West for a distance of 106.01 feet to a point; THENCE along a curve to the left having a radius of 766.62 feet and an arc length of 124.19 feet being subtended by a chord bearing of North 86 Degrees 03 Minutes 37 Seconds West and a chord distance of 124.06 feet to a point; THENCE South 89 Degrees 17 Minutes 56 Seconds West for a distance of 133.13 feet to a point on the easterly right of way of Perimeter Road (80' right of way), said point marked by a 1/2 inch rebar pin set; THENCE traveling on said Perimeter Road right of way North 15 Degrees 56 Minutes 37 Seconds East for a distance of 515.06 feet to a point; THENCE along a curve to the left having a radius of 1049.03 feet and an arc length of 473.65 feet being subtended by a chord bearing of North 03 Degrees 00 Minutes 32 Seconds East and a chord distance of 469.63 feet to a point; THENCE along a curve to the left having a radius of 1766.51 feet and an arc length of 162.28 feet being subtended by a chord bearing of North 12 Degrees 33 Minutes 28 Seconds West and a chord distance of 162.22 feet to a point, said point being THE TRUE POINT OF BEGINNING.

Said property contains +/-37.852 Acres.

Amended 12/9/20-9/24/21

Perimeter Road Tract 2 32.956 Acres

All that tract or parcel of land lying and being in Land Lots 372, 373, 427 and 428 of the North Half of the 13th Land District, Dawson County, Georgia and being more particularly described as follows;

To find the True Point of Beginning, commence at the intersection of Land Lots 371 and 372 and the Easterly right of way of Perimeter Road (80' right of way), said point marked by a ½ inch Rod found; Thence traveling on said Perimeter Road right of way the following three (3) courses and distances:

along a curve to the right having a radius of 1766.51 feet and an arc length of 162.28 feet being subtended by a chord bearing of South 12 Degrees 33 Minutes 28 Seconds East and a chord distance of 162.22 feet to a point; THENCE along a curve to the right having a radius of 1049.03 feet and an arc length of 473.65 feet being subtended by a chord bearing of South 03 Degrees 00 Minutes 32 Seconds West and a chord distance of 469.63 feet to a point; THENCE continuing on said right of way South 15 Degrees 56 Minutes 37 Seconds West for a distance of 650.74 feet to a point, said point marked by a ½ inch rebar pin set, said point being THE TRUE POINT OF BEGINNING.

THENCE from said point as thus established, North 89 Degrees 17 Minutes 56 Seconds East for a distance of 171.99 feet to a point; THENCE along a curve to the right having a radius of 636.62 feet and an arc length of 103.13 feet being subtended by a chord bearing of South 86 Degrees 03 Minutes 37 Seconds East and a chord distance of 103.02 feet to a point; THENCE South 81 Degrees 25 Minutes 09 Seconds East for a distance of 106.01 feet to a point; THENCE along a curve to the left having a radius of 662.74 feet and an arc length of 195.11 feet being subtended by a chord bearing of South 89 Degrees 51 Minutes 12 Seconds East and a chord distance of 194.41 feet to a point; THENCE North 81 Degrees 42 Minutes 46 Seconds East for a distance of 407.62 feet to a point; THENCE along a curve to the right having a radius of 60.00 feet and an arc length of 41.04 feet being subtended by a chord bearing of South 78 Degrees 41 Minutes 37 Seconds East and a chord distance of 40.24 feet to a point; THENCE South 59 Degrees 06 Minutes 00 Seconds East for a distance of 40.85 feet to a point; THENCE along a curve to the right having a radius of 160.00 feet and an arc length of 47.37 feet being subtended by a chord bearing of South 50 Degrees 37 Minutes 08 Seconds East and a chord distance of 47.20 feet to a point; THENCE South 42 Degrees 08 Minutes 15 Seconds East for a distance of 19.39 feet to a point; THENCE along a curve to the left having a radius of 240.00 feet and an arc length of 188.50 feet being subtended by a chord bearing of South 64 Degrees 38 Minutes 15 Seconds East and a chord distance of 183.69 feet to a point; THENCE South 87 Degrees 08 Minutes 15 Seconds East for a distance of 60.06 feet to a point, said point marked by a ½ inch rebar pin set; THENCE traveling South 02 Degrees 23 Minutes 44 Seconds East for a distance of 818.35 feet to a point, said point marked by a ½ inch rebar pin found; THENCE South 85 Degrees 54 Minutes 23 Seconds West for a distance of 1589.65 feet to a point on the easterly right of way of Perimeter Road (80' right of way), said point marked by a 1/2 inch rebar pin found;

THENCE traveling on said Perimeter Road right of way the following four (4) courses and distances:

along a curve to the right having a radius of 4750.52 feet and an arc length of 180.80 feet being subtended by a chord bearing of North 05 Degrees 58 Minutes 08 Seconds East and a chord distance of 180.79 feet to a point; THENCE along a curve to the right having a radius of 3438.13 feet and an arc length of 387.33 feet being subtended by a chord bearing of North 10 Degrees 17 Minutes 12 Seconds East and a chord distance of 387.13 feet to a point; THENCE along a curve to the right having a radius of 3438.13 feet and an arc length of 145.79 feet being subtended by a chord bearing of North 14 Degrees 43 Minutes 43 Seconds East and a chord distance of 145.78 feet to a point; THENCE North 15 Degrees 56 Minutes 37 Seconds East for a distance of 360.69 feet to a point, said point being THE TRUE POINT OF BEGINNING.

Said property contains 32.956 Acres

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City Council: John Walden Caleb Phillips William Illg Mark French

Planning Commission:

Matt Fallstrom Randy Davis Anna Tobolski Sandy Sawyer



415 Highway 53 East, Suite 100

Dawsonville, GA 30534

Office (706)265-3256 Fax (706)265-4214

www.dawsonville.com

Michael Eason Mayor

Robert Bolz City Manager

Beverly Banister City Clerk

David Picklesimer Planning Director

Stacy Harris Zoning Admin Assistant

PUBLIC NOTICE

The following public hearings will be heard by the City of Dawsonville Planning Commission at 5:30 p.m. and/or the City Council beginning at 5:00 p.m. respectively on the dates indicated below. Public hearings are heard in the Council Chambers on the second floor at City Hall located at 415 Hwy 53 East, Dawsonville, Georgia 30534. The public is invited to participate.

ANX C2100043 and ZA C2100043: Allen Street Properties, LLC and B & K Turner Family, LLP have petitioned to annex into the city limits of Dawsonville the 70.808 acres (amended application) tract known as a portion of TMP 093 004 001, located at Perimeter Road, with a request to rezone from County Zoning of RSR (Residential Sub Rural) and RA (Restricted Agriculture) to City Zoning of R3 (Single Family Residential). Public Hearing Dates: Planning Commission on September 13, 2021 and City Council on October 4, 2021. City Council for a decision on October 18, 2021.

<u>VAR C2200007:</u> SDH Atlanta, LLC has requested the following variance for TMP 093 006 008 Located at 112 Kenneth Drive; requesting a special exception regarding a driveway grade. Public Hearing Date: Planning Commission on September 13, 2021.

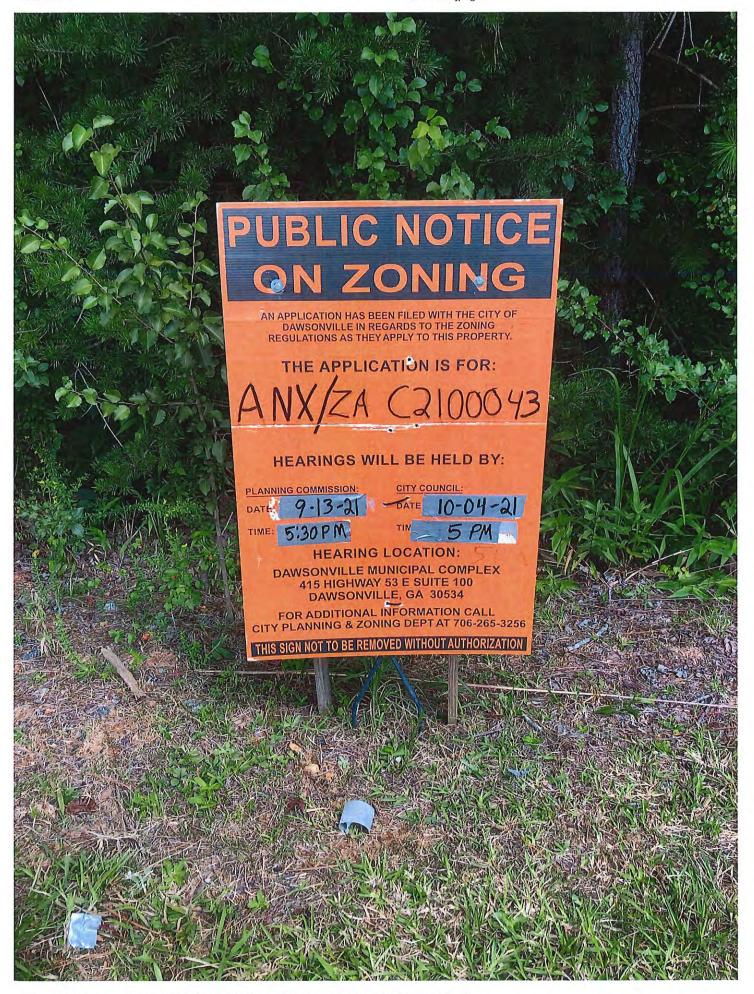
If you wish to speak on the requests, please contact City Hall for a CAMPAIGN DISCLOSURE form. This form is only needed if you have made campaign contributions in the amount of \$250.00 or more within 2 years prior to this date.

Those persons with disabilities who require reasonable accommodations in order to allow them to observe and/or participate in this meeting or who have questions regarding the accessibility of the meeting, should contact the Clerk at Dawsonville City Hall at 706-265-3256 at least two (2) business days prior to the meeting.



8/25/2021 IMG-3396.jpeg





on September 21, 2021 at RA (Restricted Agriculture) 6:00 p.m. in the DAWSON COUNTY GOVERNMENT CENTER, ASSEMBLY ROOM 2303 located at 25 JUSTICE WAY, Dawsonville, Georgia: Application for Variance: VR 21-15 Jim King is requesting to vary from the Dawson County Land Use Resolution Article III Section 308 C.6.B driveway width increase from 10' to 20'. TMP 114-033-005 Dawson Forest Rd.

If you have any questions or concerns regarding this application or need special accommodations, please contact Harmony Gee, Zoning Administrator at 706-344-3500, ext. 42336. All interested parties are invited to attend and be heard.

If you should wish to speak in favor or opposition above listed the application, please contact this office for a Campaign Disclosure Form. This must be completed and filed with this office prior to the meeting date. This is only necessary if you have made campaign contributions in the amount of \$250.00 or more within 2 years prior to this date.

557849/1

PUBLIC NOTICE

following public The hearings will be heard by the City of Dawsonville Planning Commission at 5:30 p.m. and/or the City Council beginning at 5:00 p.m. respectively on the dates indicated below. Public hearings are heard in the Council Chambers on the second floor at City Hall located at 415 Hwy 53 East, Dawsonville, Georgia 30534. The public is invited to participate.

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VAR C2200007: Atlanta, LLC has requested the following variance for TMP 093 006 008 Located at 112 Kenneth Drive;

special requesting a exception regarding driveway grade. Hearing Date: I Public Planning Commission on September

2021. If you wish to speak on the requests, please contact City Hall for a CAMPAIGN DISCLOSURE form. This form is only needed if you have made campaign contributions in the amount of \$250.00 or more within 2 years prior to this date.

persons with Those who disabilities require reasonable accommodations in order to allow them to observe and/or participate in this meeting or who have regarding questions the accessibility of the meeting, should contact the Clerk at Dawsonville City Hall at 706-265-3256 at least two (2) business days prior to the meeting.

555548/25,9/1

Notice: Public Dawson County The Board of Commissioners will hear public input in regards to a Hotel-Motel Tax Ordinance Update at its regular meeting at 6 p.m. September 16, 2021, at the Dawson County Center, Government Assembly Room 2303, located at 25 Justice Way, Dawsonville, Georgia.

If you have any questions or concerns regarding or need special this accommodations, please contact County Clerk Kristen Cloud at 706-42235. 344-3501, ext. All interested parties are invited to attend and be heard.

55790 9/1,8

Public Sales Auctions

PUBLIC SALE AUCTION begin Auction to September 14 to 21st Byrds Mini Storage Dawson 400 **B40.** Gordon Brossard D34. David Whitmire nikki Justin G31. Baumgarter 101. Tonya Pruitt 55702 9/1,8

Probate Notices

IN THE PROBATE COURT DAWSON OF COUNTY STATE OF GEORGIA

IN RE: ESTATE OF STANLEY NEAL LANGSTON **DECEASED**

ESTATE NO. 2021-E\$-121 PETITION FOR LETTERS OF **ADMINISTRATION NOTICE** and to whom it may concern:

Gregory Van Langston has petitioned forGregory Van Langston

appointed to be administrator(s) of the estate of STANLEY NEAL administrator(s) LANGSTON

deceased, of said county. (The petitioner has also applied for waiver of bond, waiver of reports, waiver of statements, and/or grant of certain powers contained in O.C.G.A. § 53-12-261.) All interested persons are hereby notified to show cause why said petition should not be granted. All objections to the petition must be in writing, setting forth the grounds of any such objections, and

must be filed with the Court on or before September 13th2021

BE NOTIFIED FURTHER: All objections to the petition must be in writing, setting forth the grounds of any such objections. should objections be sworn to before a notary public or before a probate court clerk, and filing fees must be tendered with your objections, unless you qualify to file as an indigent party. Contact probate court personnel for the required amount of filing fees. If any objections are filed, a hearing will be (scheduled at a later date). If no objections are

filed, the petition may be

granted without a hearing.

Jude Jennifer Burt Judge of the Probate Court By: Allie Phillips 25 Justice Way, Suite 4332 Dawsonville, GA 30534 (706)344-3580

55444 8/18,25,9/1,8

IN THE PROBATE COURT OF DAWSON COUNTY STATE OF GEORGIA

IN RE: ESTATE OF DALE LEARY CHENEY DECEASED ESTATE NO. 2021-ES-119 PETITION FOR LETTERS OF **ADMINISTRATION**

NOTICE and to whom it may concern:

Melanie Joy Buhl

has petitioned for Melanie Joy Buhl

appointed administrator(s) of the estate of DALE LEARY CHENEY deceased, of said county. (The petitioner has also applied for waiver of bond, waiver reports, waiver statements, and/or grant of certain powers contained in O.C.G.A. \$ 53-12-261.) All interested persons are hereby notified to show cause why said petition should not be granted. All objections to the petition must be in writing, setting forth the grounds of any such objections, and must be filed with the Court on or before September 13th,2021

BE NOTIFIED FURTHER: All

objections to the petition

must be in writing, setting forth the grounds of any such objections. objections should be sworn to before a notary public or before a probate court clerk, and filing fees must be tendered with your objections, unless you qualify to file as an indigent party. Contact probate court personnel for the required amount of filing If any objections fees. are filed, a hearing will be(scheduled at a later date). If no objections are filed, the petition may be granted without a hearing. Judge Jennifer Burt Judgeof the Probate Court

By Allie Phillips Clerk of the Probate Court 25 Justice Way, Suite 4332

Dawsonville, GA 30534 (706)344-3580 55442 8/18,25,9/1,8 IN THE PROBATE COURT DAWSON OF COUNTY STATE OF GEORGIA IN RE: ESTATE OF DAVIS **GABRIEL** IN THE **BLACKSTONE** OF

MINOR ESTATE NO. 2021-GM-124 Date of mailing, if any TO: Katlyn Jean Arnold NOTICE

Date of second publication, if any September 8, 2021 To Katlyn Jean Arnold YOU are hereby notified

that Daniel Joseph Blackstone and Amanda Miheelle Blackstone has filed a Petition seeking to be appointed temporary guardian(s) of the above-named Minor. objections to the Petition to the appointment of a temporary guardian or the appointment of the Petitioner(s) as temporary guardian(s), must be in writing, setting forth the grounds of any such objections, and be filed with this Court no later than fourteen (14) days after this notice is mailed, or ten

(10) days after this notice

is personally served upon

you, or ten (10) days after

the second publication

ofthis notice ifyou are served by publication. All objections should be sworn to before a notary public or Georgia probate court clerk and filing fees must be tendered with your objections, unless you qualify to file as an

indigent party. Contact Probate Court personnel Contact for the required amount of

filing fees. NOTE: If a natural guardian files a timely objection to the creation of the temporary guardianship, the Petition will be dismissed. If a natural guardian files an objection to the appointment of the Petitioner(s) as guardian(s), or if a parent who is not a natural quardian files an objection to the Petition, a hearing on the matter shall be(scheduled at a later date). If no objection is filed, the Petition may be

granted without a hearing.

Judge of the Probate Court

Judge Jennifer Burt

By Allie Phillips

Clerk of 25 Justic Dawson' (706)344

COUNT

STATE O IN RE: ES BARBAR HOLLAN **DECEAS** NOTICE ESTATE I IN RE: **Probate** Codicil(s in the ak referenc been du [For us required publicat TO: Jo [List her unknow served t This is t objectio to the p will in this Co Septem BE NOT objectio must be forth th such o objectio sworn t public c court cl must b vour ob qualify t party. court r required fees. are file be(sche date). I

filed, th

granted

Judge J

Judge o

By Allie

Clerk of

25 Justin

Dawson

(706)34

557



DAWSONVILLE CITY COUNCIL EXECUTIVE SUMMARY FOR AGENDA ITEM #____13____

SUBJECT: ORDINANCE AMENDMENT – FEE SCHEDULE
CITY COUNCIL MEETING DATE: 12/06/2021
BUDGET INFORMATION: GL ACCOUNT #NA
☐ Funds Available from: Annual Budget Capital Budget Other
☐ Budget Amendment Request from Reserve:Enterprise FundGeneral Fund
PURPOSE FOR REQUEST: SECOND READING AND CONSIDERATION TO ADOPT
AN ORDINANCE TO REPEAL AND REPLACE PORTIONS OF THE EXISTING FEE SCHEDULE AND PROVIDE A NEW FEE SCHEDULE FOR UTILITIES, GARBAGE, BUILDINGS AND BUILDING REGULATIONS, AND PLANNING AND ZONING; AND FOR OTHER PURPOSES. (FIRST READING: NOVEMBER 15, 2021; SECOND READING AND CONSIDERATION TO ADOPT: DECEMBER 6, 2021)
HISTORY/ FACTS / ISSUES:
 RECOMMENDATION TO UPDATE THE EXISTING FEE SCHEDULE ORDINANCE WERE HEARD AT THE 09/20/2021 AND 10/04/2021 MEETING; COUNCIL VOTED TO PROCEED
LEGAL DEVELOPED ORDINANCE TO INCORPORATE THE CHANGES
EFFECTIVE DATE: 01/01/2022
OPTIONS:
RECOMMENDED SAMPLE MOTION:
APPROVE AS SUBMITTED

REQUESTED BY: <u>David Picklesimer</u>, <u>Planning Director and Robin Gazaway</u>, <u>Finance Administrator</u>

Subject Matter: Fee Schedule, Sec. 2-110 Date of First Reading: November 15, 2021 Date of Second Reading: December 6, 2021

Date of Adoption:

Effective Date: January 1, 2022

AN ORDINANCE TO REPEAL AND REPLACE PORTIONS OF THE EXISTING FEE SCHEDULE AND PROVIDE A NEW FEE SCHEDULE FOR UTILITIES, GARBAGE, BUILDINGS AND BUILDING REGULATIONS, AND PLANNING AND ZONING; AND FOR OTHER PURPOSES.

ORDINANCE NUMBER 06-2021

WHEREAS, the Mayor and Council of the City of Dawsonville find that the adoption of a partially revised fee schedule that is consistent with current ordinances and needs of the City to be in the best interest of the citizens of the City of Dawsonville;

WHEREAS, the revision of the fee schedule will make more effective the operation of the government of the City of Dawsonville; and

WHEREAS, the Mayor and Council desire to adopt such fee schedule amendment; and

WHEREAS, this Ordinance is necessary for the purposes of promoting the health, safety, morals, convenience, order, prosperity and the general welfare of the City of Dawsonville.

NOW, THEREFORE, THE COUNCIL OF THE CITY OF DAWSONVILLE HEREBY ORDAINS AS FOLLOWS:

SECTION 1.

Chapter 2, Article II of the Code of the City of Dawsonville, Georgia, is hereby amended by repealing only the following subsections of section 2-110, and replacing them with new subsections of section 2-110 as indicated hereinbelow:

Sec. 2-110. - Fee Schedule.

The fees or charges provided for or required by the below listed sections shall be as shown below:

A. (7) UTILITIES (CHAPTER 14):

A. Water/sewer fees. "+" indicates that the cost is the amount listed plus the actual cost of material and labor expended by the city, if installed by the city.

See, "Exhibit A"

B. Garbage Fees

See, "Exhibit B"

B. (8) BUILDINGS AND BUILDING REGULATIONS (CHAPTER 102; APPENDIX A-36):

See, "Exhibit C"

C. (9) SIGNS (CHAPTER 105):

See, "Exhibit C"

D. <u>(10) SOIL EROSION AND SEDIMENTATION CONTROL (CHAPTER</u> 106):

See, "Exhibit C"

E. (11) STORMWATER MANAGEMENT (CHAPTER 107):

Intentionally deleted.

F. (12) ZONING, VARIANCE, APPEAL, CHANGE OF ZONING CONDITION AND ANNEXATION REQUESTS (APPENDIX A):

See, "Exhibit C"

SECTION 2.

If any section, provision or clause of any part of this Ordinance shall be declared invalid or unconstitutional, or if the provisions of any part of this Ordinance as applied to any particular situation or set of circumstances shall be declared invalid or unconstitutional, such invalidity shall not be construed to affect the portions of this Ordinance not so held to be invalid, or the application of this Ordinance to other circumstances not so held to be invalid. It is hereby declared as the intent that this Ordinance would have been adopted had such invalid portion not been included herein.

SECTION 3.

All Ordinances or parts of ordinances in conflict with this ordinance are hereby repealed.

SECTION 4.

This ordinance shall become effective on January 1, 2022, the public good demanding the same.

day of, 20	021.
	MAYOR AND DAWSONVILLE CITY COUNCIL
	By:
	Mike Eason, Mayor
	Caleb Phillips, Council Member Post 1
	William Illg, Council Member Post 2
	John Walden, Council Member Post 3
	Mark French, Council Member Post 4
ATTESTED TO BY:	
Beverly A. Banister, City Clerk	

Sec. 2-110. Fee schedule.

(7) Utilities (chapter 14):

a. Water/sewer fees. "+" indicates that the cost is the amount listed plus the actual cost of material and labor expended by the city, if installed by the city.

14-22(a). Residential water service rates — within corporate limits:	1 10 10 10
0—1,500 gallons, minimum (base charge)	\$ 21.00 23.10
1,501—5,000, per 1,000 gallons	5.00 5.50
5,001—10,000, per 1,000 gallons	5.25 <u>5.80</u>
>10,000, per 1,000 gallons	5.50 <u>6.05</u>
14-22(a). Commercial/industrial water service rates — within corporate limits:	
0—1,500 gallon users (flat fee)	27.0 0 <u>29.70</u>
>1,500 gallon users, minimum (base charge)	31.00 34.10
1,501—5,000, per 1,000 gallons	7.00 7.70
5,001—10,000, per 1,000 gallons	7.50 8.25
>10,000, per 1,000 gallons	8.00 <u>8.80</u>
14-22(a). Residential water service rates — outside corporate limits:	
0—1,500 gallons, minimum (base charge)	31.00 34.10
1,501—5,000, per 1,000 gallons	7.00 <u>7.70</u>
5,001—10,000, per 1,000 gallons	7.50 8.25
>10,000, per 1,000 gallons	8.00 <u>8.80</u>
14-22(a). Commercial/industrial water service rates — outside corporate limits:	
0—1,500 gallon users (flat fee)	32.0 0 <u>35.20</u>
>1,500 gallon users, minimum (base charge)	4 2.00 46.20
1,501—5,000, per 1,000 gallons	7.00 7.70
5,001—10,000, per 1,000 gallons	7.50 <u>8.25</u>
>10,000, per 1,000 gallons	8.80 8.80
14-22(b).Residential sewer service rates — within corporate limits:	
0—1,500 gallons, minimum (base charge)	25.00 27.50
1,501—5,000, per 1,000 gallons	7.00 7.70
5,001—10,000, per 1,000 gallons	8.008.80
>10,000, per 1,000 gallons	9.00 9.90
14-22(b).Commercial/industrial sewer service rates — within corporate limits:	
0—1,500 gallon users (flat fee)	42.00 46.20
>1,500 gallon users, minimum (base charge)	60.00 66.00
1,501—5,000, per 1,000 gallons	8 .50 9.35
5,001—10,000, per 1,000 gallons	9.5 0 10.45
>10,000, per 1,000 gallons	10.50 <u>11.55</u>
14-22(b).Residential sewer service rates — outside corporate limits:	7 7 7 7 7 7 7 7
0—1,500 gallons, minimum (base charge)	37.5 0 <u>41.25</u>
1,501—5,000, per 1,000 gallons	8.50 9.35
5,001—10,000, per 1,000 gallons	9.50 <u>10.45</u>
>10,000, per 1,000 gallons	10.50 <u>11.55</u>
14-22(b).Commercial/industrial sewer service rates — outside corporate limits:	

0—1,500 gallon users (flat fee)	65.00 <u>71.50</u>
>1,500 gallon users, minimum (base charge)	75.00 <u>82.50</u>
1,501—5,000, per 1,000 gallons	10.00 11.00
5,001—10,000, per 1,000 gallons	11.00 12.10
>10,000, per 1,000 gallons	12.00 13.20
14-22(c). Bulk water purchase from city water plant by truck or portable device	
Per every 1,000 gallons, or any portion thereof	10.00 11.00
14-23(a). Water service connection fees (times the number of connections desired):	
¾ inch (irrigation only)	2,000.00 2,500.00
¾ inch, (only be available for residential purposes appropriate to the anticipated usage)	3,500.00 4,000.00
1 inch (irrigation only)	4,000.00 4,500.00
1 inch	5,000.00 5,500.00
1½ inches	8,000.00 + 8,500.00
2 inches	12,500.00 + 13,000.00
3 inches	25,000.00 + 25,500.00
4 inches	40,000.00 + 40,500.00
6 inches	60,000.00 + 60,500.00
8 inches	90,000.00
2" through 8" (fire line only to be used in the event of a firefighting/fire suppression; inauthorized use requires payment of standard connection fee)	3,500.00 4,00
.4-23(b). Sewer service connection fees (times the number of connections desired):	
¾ inch, (only be available for residential purposes appropriate to the anticipated usage)	4 ,750.0 0 5,250.00
1 inch	6,750.00 7,250.00
1½ inches	9,500.00 10,000.00
2 inches	17,500.00 18,000.00
3 inches	30,000.00 30,500.00
4 inches	50,000.00 50,500.00
6 inches	75,000.00 75,500.00
8 inches	105,000.00 105,500.00

14-23(c). First time reconnect within a 24-month period, in addition to any outstanding bills, late fees, and/or interest charges	50.00
14-23(c). Second time reconnect within a 24-month period, in addition to any outstanding bills, late fees, and/or interest charges	100.00
14-23(c). Third time reconnect within a 24-month period, in addition to any outstanding bills, late fees, and/or interest charges	200.00
14-23(c). Fourth and subsequent violation within a 24-month period, in addition to any outstanding bills, late fees, and/or interest charges, per violation, + \$100.00 per each additional violation above third violation	200.00
14-23.1(a). Residential security deposit for applicant owning/renting the property to be serviced	150.00
14-23.1(b). Commercial security deposit for applicant with a meter size ¾" and 1" meter (amount doubles if business has 10 or more employees)	150.00
14-23.1(b). Commercial security deposit for applicant with a meter size 1½", 2" and 3" meter (amount doubles if business has 10 or more employees)	300.00
14-23.1(b). Commercial security deposit for applicant with a meter size 4" and above (amount doubles if business has 10 or more employees)	500.00
14-23.1(c). Administrative start-up fee	15.00
14-25(a)(l). Late fee for non-payment of water, sewer, and/or garbage bill within 20 days of bill date	10.00



Sec. 2-110. Fee schedule.

The fees or charges provided for or required by the below listed sections shall be as shown below:

b. Garbage fees:

Garbage service regulatory fees within city limits:	
14-134(a)(1). For licenses obtained prior to July 1 in any given calendar year, per customer	\$ 6.00
14-134(a)(2). For licenses obtained after July 1 in any given calendar year, per customer	3.00
License renewals and garbage deposits:	
14-134(b). Renewal fee	6.00
14-142. Garbage security deposit	25.00 60.00

Buildings and building regulations (chapter 102; appendix A-36): (8)

a. Residential/mobile home building permits.	Current	Proposed
Residential building permit Plat review fee	\$50.00	
Residential building permit inspection fee		500.00
Covered space building permit, per square foot	0.20	0.35
Uncovered space building permit, per square foot	0.10	0.20
Residential re-inspection fee	60.00	
Residential minimum permit fee	60.00	100.00
Residential electrical/plumbing/HVAC mechanicals, per trade area when purchase permit:	ed with a building	
0—1,000 square feet, each	30.00	
1,001—2,000 square feet, each	40.00	
2,001—3,000 square feet, each	50.00	
		1
3,001—4,000 square feet, each	60.00	
3,001—4,000 square feet, each 4,001 square feet and up + \$10.00 for every additional 1,000 sq. ft., each	60.00	
4,001 square feet and up + \$10.00 for every additional 1,000 sq. ft., each	72.22	50.00
- 179 (4) - 1990 (4) - 1200 (4) - 1200 (4)	60.00	50.00

Sec. 2-110. - Fee schedule.

Commercial plan review—Building permits:

Commercial development permit fee	200.00	400.00
1 st site plan review, + \$5.00 per lot	200.00	
2 ^{nd-} site plan review, + \$5.00 per lot	100.00	

Current Proposed

Commercial building plan review fee	200.00	1,000.00
Covered space building permit, per square foot	0.20	0.35
Uncovered space building permit, per square foot	0.10	0.20
Commercial re-inspection fee	100.00	
Commercial minimum permit fee	100.00	
Commercial electrical/plumbing/HVAC mechanicals, per trade area when purchas permit:	ed with a building	
0—1,000 square feet, each	40.00	
1,001—2,000 square feet, each	50.00	
2,001—3,000 square feet, each	60.00	
3,001—4,000 square feet, each	70.00	
4,001 square feet and up, + \$10.00 for every additional 1,000 sq. ft., each	70.00	
Commercial certificate of occupancy fee	100.00	

For required land disturbance permits and statutory fees associated with land disturbing activity, refer to subsection 2-110(10) below.

Current	Proposed
50.00	
	325.00
0.20	0.35
0.10	0.20
200.00	
	0.20 0.10

Communication tower (new) permit fee:	500.00	
Communication tower (new) review fee:	200.00	
Minor plat review fee		50.00
Communication tower (co-locate and repair), plus mechanical fees	250.00	
Stop work order administrative fee	100.00	
Stop work per day fine (residential and commercial)		50.00
Work commencing before permit issuance, plus required permit fee	100% of usual permit fee	
Retaining wall > 6 ft building permit		250.00
Retaining wall >6 ft plan review fee	10	750.00
Retaining wall > 6 ft inspection fee		200.00
Residential building, commercial building, commercial development, residential development, swimming pool permit renewal fee		1 st 200.00 2 nd 400.00

(9) Signs (chapter 105):

105-5(h). Sign permit fee	100.00
105-8(c). Sign variance application fee	300.00
105-40(b). Temporary sign permit fee, per month	30.00
105-41(m). Banner over public property fee, per month, in addition to sign permit fee	50.00
105-43(c). Banner in commercial district, per display period, in addition to sign permit fee	30.00
Sign permit inspection fee	100.00

106-5(b)(3). Residential land disturbance permit fee, + statutory fee per acre	\$200.00
106-5(b)(3). Commercial land disturbance permit fee + statutory fee per acre	400.00
Residential land disturbing activity statutory fee, disturbing less than one acre	No charge
106-5(b)(4). Land disturbing activity statutory fee (residential or commercial), per acre of land-disrupting activity or any part thereof (\$40.00 to city and \$40.00 to state)	40.00 RES 40.00 CON
Residential development preliminary and final plat plan review fee of \$40.00 per lot for developments less than 50 lots and minimum fee \$1,000.00	
Residential development preliminary and final plat plan review fee of \$25.00 per lot for developments greater than 50 lots	
Commercial civil development plan review fee	\$1,000.00
Commercial as built civil development plan review	1,000.00
Commercial land development permit inspection fee	500.00
Residential development preliminary plat development fee \$20.00 per lot with \$200.00 minimum	
Residential development final plat development fee \$10.00 per lot with \$100.00 minimum	
Residential land disturbance statutory fee \$40.00 per disturbed acre	40.00
Residential land development permit inspection fee	500.00

(11) Stormwater management (chapter 107):

107-57. Stormwater management permit application and plan review fee, per disturbed acre	\$10.00
--	---------

(12) Zoning, variance, appeal, change of zoning condition, certificate of appropriateness, site plan, and annexation requests (appendix A),

a. The fee for all rezoning applications regardless of zoning category is the base amount set forth in the table below plus \$50.00 per acre for each acre or part of an acre beyond one acre in the subject tract with a maximum fee of \$5,000.00 regardless of the number of acres involved.

b. Any required public notices to adjoining landowners shall be charged to the applicant at the current U.S. Postal Service rate in addition to the fees stated below.

	Current	Propose
Zoning Action Requested:		
АР	\$250.00	
R-1	250.00	
R-2	250.00	
R-3	350.00	
R-3R	350.00	
R-6	350.00	
RHMT	250,00	
PUD	500.00	
ТВ	500.00	
PCS	350.00	
0	500.00	
CBD	500.00	
NB	500.00	
LI	500.00	
НВ	500.00	
CIR	500.00	
	4	1

INST	500.00	
RA	500.00	
Variance, per ordinance amendment	300.00	
Conditional use permit	300.00	
Appeals and change of zoning conditions	500.00	
Postponement, per occurrence	300.00	
Annexation, plus applicable rezoning fee	250.00	
Certificate of appropriateness	300.00	1
Site Plan	400.00	7
Administrative fee, plus cost of all mailings	100.00	



DAWSONVILLE CITY COUNCIL EXECUTIVE SUMMARY FOR AGENDA ITEM #__14___

SUBJECT: <u>INTERGOVERNMENTAL AGREEMENT WITH DAWSON COUNTY - RIGHT OF WAY MOWING</u>

WAY MOWING	
CITY COUNCIL MEETING DATE: 12/06/2021	
BUDGET INFORMATION: GL ACCOUNT #	
☐ Funds Available from: Annual Budget Capital Budget Other	
☐ Budget Amendment Request from Reserve:Enterprise FundGeneral Fund	
PURPOSE FOR REQUEST:	
TO CONSIDER APPROVAL OF INTERGOVERNMENTAL AGREEMENT WITH DAWSON COUNTY REGARDING THE MOWING OF RIGHT OF WAYS	
HISTORY/ FACTS / ISSUES:	
PRESENTED AT THE 11/15/2021 WORK SESSION; CHANGES MADE AS REQUESTED	
OPTIONS:	
RECOMMENDED SAMPLE MOTION:	
RECUIVIIVIENDED SAMPLE MOTION:	
APPROVE AS PRESENTED	
REQUESTED BY: Bob Bolz, City Manager	

STATE OF GEORGIA COUNTY OF DAWSON

INTERGOVERNMENTAL AGREEEMENT BETWEEN THE CITY OF DAWSONVILLE AND DAWSON COUNTY REGARDING CROSS-JURISDICTIONAL RIGHT-OF-WAY MOWING

THIS AGREEMENT, effective as of ________, 2021, is by and between the CITY OF DAWSONVILLE, a Georgia municipal corporation ("City"), and DAWSON COUNTY, a political subdivision of the State of Georgia ("County"). Individually, the City and the County may be referred to herein as a "Party," and, collectively, as the "Parties."

WHEREAS, pursuant to Article IX, Section III, Paragraph I of the Constitution of the State of Georgia, the City and the County are authorized to contract with each other for a period not exceeding 50 years for the provision of services, or for the joint or separate use of facilities or equipment, so long as such contracts deal with activities, services, or facilities which both the City and the County are authorized by law to undertake or provide; and

WHEREAS, pursuant to Article IX, Section II, Paragraph III of the Constitution of the State of Georgia, the City and the County are authorized, jointly and severally, to exercise powers and provide services related maintenance of streets and roads constructed by counties and municipalities or any combination thereof; and

WHEREAS, pursuant to Article IX, Section II, Paragraph III of the Constitution of the State of Georgia, the County is prohibited from exercising these powers or providing any such service inside the boundaries of the City except by contract with the City; and

WHEREAS, pursuant to O.C.G.A. § 32-4-112(b), the City is authorized to contract with the County for the maintenance of a public road within the limits of the City; and

WHEREAS, pursuant to O.C.G.A. § 32-4-62, the County is authorized to contract with the City for work on any public road system within their jurisdictions; and

WHEREAS, the City and the County desire to coordinate and consolidate efforts related to right-of-way maintenance (i.e., mowing) of certain streets or roads that are within both the City and the County jurisdiction; and

WHEREAS, the Parties agree that coordination of maintenance efforts for cross-jurisdictional street and roads provides cost savings and efficiencies that are in the best interest of the citizens of both the City and the County.

NOW THEREFORE, for and in consideration of the mutual promises, the public purposes, and the acknowledgment and agreements contained herein, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties mutually agree to the above recitals and as follows:

- 1. **Agreement**. The Parties agree as follows:
 - a. The County will mow the following roads in their entirety:
 - i. Gold Mine Road,
 - ii. Cleve Right Road, and
 - iii. Duck Thurmond Road.
 - b. The County will mow both sides of Howser Mill Road beginning at Calvary Baptist Church (up to the northwest corner of Tax Parcel No. 082 017 002) and terminating at SR 183.
 - c. The City will mow both sides of Howser Mill Road beginning at SR 53 West and terminating at Calvary Baptist Church (through to the northwest corner of Tax Parcel No. 082 017 002).
 - d. The City will mow the following roads in their entirety:
 - i. J.C. Burt Road, and
 - ii. Perimeter Road.
 - e. The City presently mows all of the State Routes located within the City's jurisdictional boundary, and while it anticipates continuing to do so, it is under no legal requirement to maintain those roads.
 - f. The term "mow" as used above shall mean periodic (minimum of 3 times per year) grass mowing maintenance of the right-of-way areas between the paved area and the outside right-of-way boundary lines.
 - g. The term "entirety" as used above shall mean both sides and the full length of a roadway right-of-way.
 - h. Each Party agrees to follow any safety protocols, signage requirements, and traffic control procedures that may apply to the performance of right-of-way mowing.
 - i. Each Party retains the discretion to have its obligations hereunder performed in full or in part by one or more qualified, independent contractors.
 - j. The Parties' agreement to maintain (i.e., mow) certain right-of-way as specified herein shall not impute any obligation for either Party to undertake any other type of roadway or right-of-way maintenance (e.g., trash collection, limb removal, paving, storm water repair, etc.).

- k. The Parties understand and acknowledge that right-of-way mowing may be inhibited or delayed based on the condition of the roadway (e.g., necessary repair, debris in the right-of-way) and the responsible Party agrees to properly address and remedy the cause of such delay before such right-of-way may thereafter be mowed.
- 2. <u>Governing Law.</u> This Agreement shall be governed by and construed in accordance with the laws of the State of Georgia. If any action at law or in equity is brought to enforce or interpret the provisions of this Agreement, the rules, regulations, statutes and laws of the State of Georgia will control.
- 3. <u>Cooperation</u>. Each Party shall, at the request of the other, make, execute and deliver or obtain and deliver all instruments and documents and shall do or cause to be done all such other things which either Party may reasonably require to effectuate the provisions and intention of this Agreement.
- 4. <u>Authority to Execute</u>. Each of the individuals executing this Agreement on behalf of his or her respective Party agrees and represents that he or she is authorized to do so and further agrees and represents that this Agreement has been duly passed upon by the required governmental agency or board in accordance with all applicable laws and spread upon the minutes thereof.
- 5. Force Majeure. In case by reason of force majeure, any Party hereto shall be rendered unable, wholly or in part, to carry out its obligations under this Agreement, then if such Party shall give notice and full particulars of such force majeure in writing to the other Party within a reasonable time after occurrence of the event or cause relied on, the obligation of the Party giving such notice, so far as it is affected by such force majeure, shall be suspended during the continuance of the inability then claimed, but for no longer period. Such Party shall endeavor to remove or overcome such inability with all reasonable dispatch. The term "force majeure," as employed herein, shall mean (a) any cause beyond the Party's reasonable control; (b) any act(s) of God; (c) any change in applicable governmental rules or regulations rendering the performance of any portion of this Agreement legally impossible; (d) strikes, lockout(s) or other labor disputes or industrial disturbance(s); (e) any war, hostility, embargo, sabotage, civil disturbance, riot, insurrection, pandemic/epidemic, invasion or act(s) of a public enemy; (f) order(s) of any kind of the Government of the United States or the State of Georgia or any civil or military authority; and (g) natural disaster, catastrophe, epidemics, landslides, lightning, earthquakes, fires, hurricanes, storms, floods, washouts, droughts, or explosions, or breakage or accidents outside the Party's control which prevent performance under this Agreement.
- 6. Entire Agreement; Modification; Termination. This Agreement constitutes the entire agreement between the Parties and supersedes and replaces any and all other agreements, either oral or in writing, between the Parties with respect to the subject matter of this

Agreement. No other agreement, statement or promise relating to the subject matter of this Agreement not contained in this Agreement shall be valid or binding. This Agreement may be modified or amended only by a written document signed by representatives of all Parties with appropriate authorization. This Agreement may be terminated by either Party upon notice to the other as required herein, provided the obligations of the terminating Party as stated above have been completed in full within ninety (90) days prior to the stated termination date.

- 7. Waiver. No failure by either Party to enforce any right or power granted under this Agreement, or to insist upon strict compliance, and no custom or practice of either Party at variance with the terms and conditions of this Agreement shall constitute a general waiver of any future breach or default or affect a Party's right to demand exact and strict compliance with the terms and conditions of this Agreement. Further, no express waiver shall affect any term or condition other than the one specified in such waiver, and that one only for the time and manner specifically stated.
- 8. <u>Severability</u>. Should any provision of this Agreement or application thereof to any person or circumstance be held invalid or unenforceable, the remainder of this Agreement or the application of such provision to any person or circumstance, other than those to which it is held invalid or unenforceable, shall not be affected thereby, and each provision of this Agreement shall be valid and enforceable to the full extent permitted by law.
- 9. <u>Agreement Jointly Drafted by the Parties</u>. Each Party represents that it has reviewed and become familiar with this Agreement and has notified the other Party of any discrepancies, conflicts or errors herein. The Parties agree that, if any ambiguity or question of intent or interpretation arises, this Agreement is to be construed as if the Parties had drafted it jointly, as opposed to being construed against a Party because it was responsible for drafting one or more provisions of the Agreement.
- 10. <u>Notices</u>. All notices, demands or requests required or permitted to be given pursuant to this Agreement shall be in writing and shall be deemed to have been properly given or served and shall be effective on being deposited or placed in the United States mail, postage prepaid and registered or certified with return receipt requested to the addresses appearing below, or when delivered by hand to the addresses indicated below:

If to the County: If to the City:

Dawson County Board of Commissioners

Attn: County Manager

Attn: City Manager

Attn: City Manager

Attn: City Manager

25 Justice Way, Suite 2313 415 Highway 53 East, Suite 100 Dawsonville, Georgia 30534 Dawsonville, Georgia 30534

(The remainder of this page intentionally left blank.)

(Signature page follows.)



IN WITNESS WHEREOF, the Parties hereto, acting by and through their duly authorized officials and officers pursuant to appropriate ordinances and resolutions hereinbefore duly and properly adopted by each, have caused this Agreement to be executed in duplicate counterparts and the official seals of each Party properly affixed, each delivering to the other one of said duplicate counterparts, the day and year first above written.

CITY OF DAWSONVILLE, GEORGIA

ATTEST:	By: Mike Eason, Mayor
By:Beverly A. Banister, City Clerk	[CITY SEAL]
	DAWSON COUNTY, GEORGIA
ATTEST:	By:Billy Thurmond, Chairman
By: Kristen Cloud, County Clerk	[COUNTY SEAL]



DAWSONVILLE CITY COUNCIL EXECUTIVE SUMMARY FOR AGENDA ITEM #__15___

SUBJECT: 2022 CITY OF DAWSONVILLE MUNICIPAL PROPERTY LEASES
CITY COUNCIL MEETING DATE: 12/06/2021
BUDGET INFORMATION: GL ACCOUNT #
☐ Funds Available from: Annual Budget Capital Budget Other
☐ Budget Amendment Request from Reserve:Enterprise FundGeneral Fund
PURPOSE FOR REQUEST:
TO REQUEST APPROVAL FOR THE 2022 DAWSONVILLE HISTORY MUSEUM LEASE AND THE 2022 DAWSONVILLE MOONSHINE DISTILLERY LEASE
HISTORY/ FACTS / ISSUES:
 DISTILLERY LEASE RECOMMENDATION: TERMS AND RENTED SPACE REMAINS THE SAME AS 2021
 MUSEUM RECOMMENDATION: TERMS REMAIN THE SAME AS 2021; ADDED ADDITIONAL RENTED OUTSIDE SPACE AROUND AND INCLUDING THE WINNER'S CIRCLE
OPTIONS:
RECOMMENDED SAMPLE MOTION:
APPROVE AS PRESENTED

REQUESTED BY: Bob Bolz, City Manager

SUB-LEASE AGREEMENT

This Sub-Lease agreement ("Sub-Lease") is entered into effective this **1st day of January, 2022** by and between **THE CITY OF DAWSONVILLE**, a Georgia municipal corporation, whose address is 415 Hwy. 53 East, Suite 100, Dawsonville, Georgia 30534 ("Lessor") and **FREE SPIRITS DISTILLERY, LLC**, d/b/a Dawsonville Moonshine Distillery, ("Lessee"), whose address is 415 Hwy. 53 East, Suite 120, Dawsonville, Georgia 30534.

WITNESSETH:

WHEREAS, the Lessor entered into a lease-purchase agreement ("City Lease") with the Downtown Development Authority of the City of Dawsonville, for the lease-purchase of certain property and facilities ("Premises") located at 415 Hwy. 53 East, Dawsonville, Georgia 30534, which is known as the City Hall/Dawsonville Municipal Complex; and

WHEREAS, the Premises includes several tenant spaces, including a museum and a retail/manufacturing space, of which the retail/manufacturing space is available for sub-lease and suitable for Lessee's use; and

WHEREAS, the Lessor desires to sub-lease the retail/manufacturing space, as fully depicted in Exhibit "A" attached hereto and fully incorporated herein ("Distillery Space"), to Lessee for the operation of Free Spirits Distillery, LLC, d/b/a Dawsonville Moonshine Distillery, which will be in general open to the public, pursuant to the terms and conditions of the City Lease and as allowed or provided by state and federal law.

NOW THEREFORE, for and in consideration of the mutual covenants and obligations set forth herein and in consideration of One Dollar (\$1.00) and other good

and valuable consideration mutually exchanged this date between parties hereto, the receipt and adequacy of which is hereby acknowledged, the parties hereby agree as follows:

- 1. Premises and Use. Lessee shall be permitted to occupy and utilize the areas of the Premises depicted in Exhibit A, otherwise known as the Distillery Space, for the purpose of operating Free Spirits Distillery, LLC, d/b/a Dawsonville Moonshine Distillery, which shall be open to the public and maintain business hours as deemed appropriate by Lessee and as regulated by both state and federal law, so long as, such operations do not materially interfere with the business and operations of the City of Dawsonville.
- **Subject to City Lease.** Lessee expressly acknowledges and understands the terms and conditions of the City Lease, and agrees that Lessee shall be subject to the terms and conditions set forth in the City Lease, which terms are expressly incorporated into this agreement, unless otherwise expressly stated herein.
- **Sub-Lease Term.** This Sub-Lease shall commence on January 1, 2022, for the period of twelve months ("Lease Term") terminating on December 31, 2022. The Sub-Lease Term is <u>NOT</u> subject to an automatic renewal. This Sub-Lease shall automatically terminate, upon ninety (90) days prior notice from the Lessor, in the event that the City Lease is terminated prior to the expiration of the current Sub-Lease Term.
- **Rent.** Lessee covenants and agrees to pay Lessor a rent amount as rent for the Distillery Space during the Sub-Lease Term which will be as follows: Lessee will pay to Lessor rent in the amount of Three Thousand and no/100 Dollars (\$3,000.00) per month for the Distillery Space Suite 120. Rent will be due and payable by the 5th day of every

month, and if not actually received by the City by the 10th of the month the rental payment shall be late. For any late payment received after the 10th of the month Lessee shall pay to the City a 5% penalty. Penalty payment shall be due immediately and must be included with payment of past due rent.

- spaces or parking. Lessee and its employees shall have the right to use the public parking spaces or parking areas near or adjacent to the City Hall/Dawsonville Municipal Complex. All such parking shall be on a nonexclusive, non-assigned basis. Lessee shall not use or permit its employees or invitees to use any spaces which have been specifically reserved by Lessor to other tenants or for such other uses as have been designated as being restricted to certain uses. Lessee shall at all times comply and cause its employees and invitees to comply with any parking rules and regulations as Lessor may from time to time reasonably adopt. At no time will Lessee or its employees use any parking spaces for storage or containers of any type or description. At no time will Lessee, its employees, or its customers use areas not specifically designated for parking as parking spots or areas, or for storage, including, but in no way limited to, the decorative area surrounding the replica gas pumps or store entrances. Lessor assumes no liability or risk for any damage that may occur to the vehicles or other property of Lessee, its employees, customers or others in any parking area or common area.
- 6. Storage, Store Fronts, and Unpermitted Uses/Activities. Lessee agrees to maintain the Distillery Space in a clean condition. Lessee agrees to not use the Distillery Space as a long-term storage facility for items, except in areas specifically designated for the purpose of storage, such as closets. Notwithstanding the foregoing, Lessee shall have the right to store agricultural products and/or empty agricultural product containers

outside of the Distillery Space for a period of time not to exceed five (5) days. However, such storage shall not impede, obstruct, or in any way interfere with the normal operations of the City and/or any other tenants or visitors to the Premises. At no time will Lessee store any item that is unnecessary for the proper operation of its business within the Distillery Space or the parking area. At no time will Lessee use the parking lot, decorative area in front of the replica gas pumps or store fronts, or the decorative, pressed sidewalk for its business activities or operations, including, but in no way limited to, the manufacturing of its product(s). All manufacturing activities shall take place in the Distillery Space and shall not impede, obstruct, or in any way interfere with the normal operations of the City and/or any other tenants or visitors to the Premises.

- 1. Insurance and other charges. Lessee agrees to and shall pay for general liability insurance and shall name the Lessor as certificate holder or additional insured under the policy of insurance. Lessee shall keep the general liability policy in full force and affect for the full Sub-Lease Term with coverage in the amount of at least \$1 million per person / \$2 million per occurrence. Lessee is responsible for all other forms of insurance (i.e. workers comp, etc.) as may be required by law.
- **8.** <u>Improvements.</u> To the extent Lessee desires to modify, change or improve the Distillery Space for Lessee's intended use, all such costs shall be borne by Lessee, and no such costs shall be the responsibility of Lessor. Any plans for modifications or improvements must be presented to and approved in writing by Lessor prior to initiation of any change, modification or construction.
- **9.** <u>Utilities.</u> Lessee is responsible for all utilities associated with its occupation and use of the Distillery Space including, but not limited to, water, sewer, natural gas, and

electricity. Lessee shall install and maintain any necessary utility meters or sub-meters at Lessee's expense.

- 10. <u>Garbage/Dumpster Removal Services</u>. Lessor shall provide access to Lessee to the Lessor's dumpster located on the property adjacent to the Premises for Lessee's normal weekly garbage usage. Lessee shall not deposit any hazardous substances in the dumpster or place any garbage or trash outside of the dumpster at any time. All garbage and trash from Lessee's use of the Premises shall be hauled to and deposited in the dumpster by Lessee on at least a weekly basis.
- 11. **Pest Control.** Lessee, at its cost, shall at all times keep the Premises free of pests. Lessee shall implement a program of pest control satisfactory to Lessor which may include, without limitation, (a) moving any furniture, fixtures, equipment, or inventory during inspections and spraying by Lessee's exterminator; and (b) maintaining the Premises in a clean, trash-free and sanitary condition. Lessee further acknowledges that Lessee's exterminator shall, in an environmentally safe way, perform inspections and/or spraying at least once every month; however, such inspections and/or spraying may be required to occur every two (2) weeks if Lessor deems such spraying necessary. If Lessee fails to promptly and fully comply with this Section, Lessor shall have the right, but not the obligation, to enter the Premises to perform such spraying or inspections at Lessee's expense. Performance of such work by Lessor shall not constitute a waiver of Lessee's default in failing to do the same and neither shall it entitle Lessee to any damages for any injury or inconvenience occasioned thereby nor to any abatement of rent. Lessee shall reimburse Lessor for any cost incurred by Lessor pursuant to this Section upon demand therefor.

- **Security Deposit.** Contemporaneous with the execution hereof, Lessee has on deposit with Lessor the sum of five thousand dollars (\$5,000.00) paid on March 16, 2011 as a Security Deposit for the proper performance of all obligations of Lessee hereunder. Lessor shall hold the Security Deposit in a non-interest bearing account and shall return the same to Lessee upon the expiration of this Sub-Lease with all obligations of the Lessee fully performed and completed and the premises returned to Lessor in broom clean undamaged condition, natural wear and tear excepted.
- **Binding Effect and Severability.** The provisions of this Sub-Lease shall be binding upon and inure to the benefit of both parties and their respective successors and assigns. If any provision of this Sub-Lease or any application thereof shall be invalid or unenforceable, the remainder of this Sub-Lease and any other application of such provision shall not be affected thereby.
- **14. Quiet Enjoyment.** Upon due performance by Lessee of its covenants and agreements under this Sub-Lease, Lessor covenants that Lessee shall and may at all times peaceably and quietly have, hold, and enjoy the Distillery Space during the Sub-Lease Term.
- **15. Headings.** The Section headings are for convenience and reference only and shall not be used to limit or otherwise affect the meaning of any provision of this Sub-Lease.
- **16. Counterparts.** This Sub-Lease may be simultaneously executed in two or more counterparts, each of which shall be deemed a fully enforceable original but all of which together shall constitute one and the same instrument.
- **17. Governing law, Venue and Jurisdiction.** This Sub-Lease shall be construed in accordance with and governed by the laws of the State of Georgia. Both parties hereby

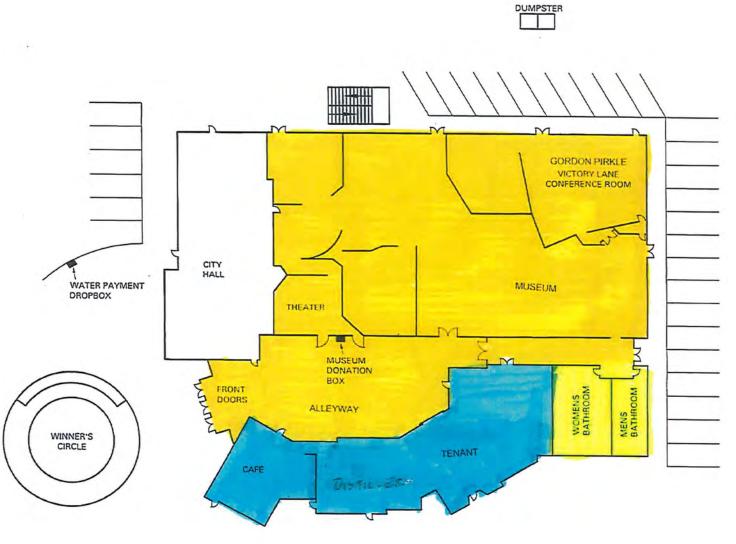
consent to jurisdiction and venue in Dawson County, Georgia in any action brought to enforce any provision of this Sub-Lease.

- **18. Relationship of parties.** Lessor and Lessee shall not be considered or deemed to be joint venturers or partners and neither shall have the power to bind or obligate the other except as set forth herein.
- **Default**. Lessee shall be in default if it fails to pay any rent or any other obligation when due to Lessor or fails to comply with any of the requirements of this Sub-Lease applicable to Lessee. In the event Lessee defaults, Lessor may terminate this Sub-Lease and pursue such remedies as are allowed by law. Included among these remedies shall be the right of Lessor to recover all rents owed under the Sub-Lease for the unexpired portion of the Sub-Lease Term. Upon a default and prior to exercising any remedy hereunder or allowed by law, Lessor shall provide Lessee written notice of the default and of Lessor's intent to exercise remedies unless the default is cured within ten (10) days following receipt of the notice of default. Should Lessee fail to cure the default within ten (10) days following receipt of the notice of default, Lessor will be immediately entitled to take possession of the Distillery Space. Lessee waives any further right to notice prior to Lessor pursuing remedies other than those contained herein.

Lessor shall be in default if it fails to comply with any of the requirements of this Sub-Lease applicable to Lessor. In the event Lessor defaults, Lessee's sole and exclusive remedy shall be to terminate this Sub-Lease without further recourse against Lessor. Prior to exercising that remedy Lessee shall provide Lessor with written notice of the default and of Lessee's intent to exercise its remedy unless the default is cured within ten (10) days following receipt of the notice of default.

- **20. Guaranty.** Notwithstanding the fact that Lessee is a corporation or other legal entity, by execution hereof, the undersigned owners, operators, members or shareholders of Lessee ("Guarantor") hereby personally guarantee full, proper and satisfactory performance of all terms of this Sub-Lease by the Lessee. Upon written notice of default of this Sub-Lease, Lessor shall have all right and remedies against Guarantor as are available against Lessee.
- **21. Construction.** All terms used in this Sub-Lease, regardless of the number or gender in which they are used, shall be deemed and construed to include any other number, singular or plural, and by other gender, masculine, feminine, or neuter, as the context or sense of this Sub-Lease or any section, subsection, or clause herein may require as if such terms had been fully and properly written in such number or gender.
- **22. Modification.** No changes, additions, or interlineations made to this Sub-Lease shall be binding unless initialed by both parties.
- **Non-waiver.** No delay or failure by either party to exercise any right under this Sub-Lease, and no partial or single exercise of that right, shall constitute a waiver of that or any other right, unless otherwise expressly provided herein.
- **24.** <u>Time of essence</u>. Time is expressly declared to be of the essence of this Sub-Lease.
- **Entire Agreement**. This Sub-Lease supersedes all agreements previously made between the parties relating to its subject matter. There are no other understandings or agreements between them.

In witness whereof the parties have executed	this Sub-Lease effective as of the date first
above written.	
LESSOR: CITY OF DAWSONVILLE	LESSEE: FREE SPIRITS DISTILLERY, LLC
By: Mike Eason, Mayor	Cheryl Wood, Member
PERSONAL G	UARANTY
The undersigned, being the sole mem	aber of Free Spirits Distillery, LLC, d/b/a
Dawsonville Moonshine Distillery, for v	aluable consideration received, hereby
unconditionally guaranties all performance	and payment obligations of Free Spirits
Distillery, LLC, d/b/a Dawsonville Moonshir	ne Distillery, under the terms of this Sub-
Lease.	
This day of 20	
Cheryl Wood	



Blue highlighted area indicates the rental space

SUB-LEASE AGREEMENT

This Sub-Lease agreement ("Sub-Lease") is entered into effective the **1st day of January, 2022** by and between **THE CITY OF DAWSONVILLE**, a Georgia municipal corporation, whose address is 415 Hwy. 53 East, Suite 100, Dawsonville, Georgia 30534 ("Lessor") and **DAWSONVILLE HISTORY MUSEUM, INC.**, a Georgia non-profit corporation d/b/a Georgia Racing Hall of Fame, ("Lessee"), whose address is 415 Hwy. 53 East, Suite 110, Dawsonville, Georgia 30534.

WITNESSETH:

WHEREAS, the Lessor entered into a lease-purchase agreement ("City Lease") with the Downtown Development Authority of the City of Dawsonville, for the lease-purchase of certain property and facilities ("Premises") located at 415 Hwy. 53 East, Dawsonville, Georgia 30534, which is known as the City Hall/Dawsonville Municipal Complex; and

WHEREAS, the Premises includes several tenant spaces, including a museum and a retail/manufacturing space, of which the museum space is available for sub-lease and suitable for Lessee's use; and

WHEREAS, the Lessor desires to sub-lease the museum space, as fully depicted in Exhibit "A" attached hereto and fully incorporated herein ("Museum Space"), to Lessee for the operation by Lessee of the Georgia Racing Hall of Fame, which will be in general open to the public, pursuant to the terms and conditions of the City Lease.

NOW THEREFORE, for and in consideration of the mutual covenants and obligations set forth herein and in consideration of One Dollar (\$1.00) and other good and valuable consideration mutually exchanged this date between parties hereto, the

receipt and adequacy of which is hereby acknowledged, the parties hereby agree as follows:

- 1. Premises and Use. Lessee shall be permitted to occupy and utilize the areas of the Premises depicted in Exhibit A, otherwise known as the Museum Space, for the purpose of operating the Georgia Racing Hall of Fame Museum, which shall be open to the public and maintain business hours as deemed appropriate by Lessee, so long as, such operations do not materially interfere with the business and operations of the City of Dawsonville. Notwithstanding anything to the contrary herein, the Lessor shall be permitted at no cost to Lessor to use the Alleyway, Men's and Women's Bathrooms and the Conference Room depicted upon Exhibit A for City sponsored events so long as said use does not materially interfere with the Lessee's reasonable use of these areas.
- **Subject to City Lease.** Lessee expressly acknowledges and understands the terms and conditions of the City Lease and agrees that Lessee shall be subject to the terms and conditions set forth in the City Lease, which terms are expressly incorporated into this Sub-Lease, unless otherwise expressly stated herein.
- **Sub-Lease Term.** This Sub-Lease shall commence on January 1, 2022, for the period of twelve months ("Lease Term") terminating on December 31, 2022. The Sub-Lease Term is <u>NOT</u> subject to an automatic renewal. This Sub-Lease shall automatically terminate, upon ninety (90) days prior notice from the Lessor, in the event that the City Lease is terminated prior to the expiration of the current Sub-Lease Term.
- **4. Rent.** Lessee covenants and agrees to pay Lessor a rent amount as rent for the Museum Space during the Sub-Lease Term which will be as follows:

A. Lessee will pay to Lessor Base Rent in the amount of \$250.00 (two hundred and fifty and no/100 dollars) per month for the Museum Space. Rent will be due and payable by the 5th day of every month, and if not actually received by the City by the 10th of the month the rental payment shall be late. For any late payment received after the 10th of the month Lessee shall pay to the City a 5% penalty. Penalty payment shall be due immediately and must be included with payment of past due rent.

B. Lessee will pay to Lessor Percentage Rent in such amount as is determined by subtracting base rent, utilities and cost of retail purchases from gross receipts from museum operations and multiplying that difference by 15% (fifteen percent). Percentage rent is capped each year at the amount that is paid by the City to an independent contractor for the purpose of providing management to the Dawsonville History Museum, plus the cost of any liability insurance coverage for such person. Percentage rent may be summarized by the following formula:

(Gross Receipts – (Base Rent + Utilities + Cost of Retail Purchases)) * 15% = Percentage Rent

Utilities include water, sewer, natural gas, electricity. Cost of retail purchases shall mean the funds expended by Lessee for products which Lessee resells in order to generate revenue including memorabilia, souvenirs, clothing, hats, and similar such items.

C. The payments referred to in Paragraph 4, Subparagraphs A and B shall be collectively referred to as "Rent." Rent will be due and payable by the 5th day of every month, and if not actually received by the City by the 10th of the month the rental payment shall be late. For any late payment received after the 10th of the month Lessee shall pay to the

City a 5% penalty. Penalty payment shall be due immediately and must be included with payment of past due rent.

- 5. Parking. Lessee and its employees shall have the right to use the public parking spaces or parking areas near or adjacent to the City Hall/Dawsonville Municipal Complex. All such parking shall be on a nonexclusive, non-assigned basis. Lessee shall not use or permit its employees or invitees to use any spaces which have been specifically reserved by Lessor to other tenants or for such other uses as have been designated as being restricted to certain uses. Lessee shall at all times comply and cause its employees and invitees to comply with any parking rules and regulations as Lessor may from time to time reasonably adopt. At no time will Lessee or its employees use any parking spaces for storage or containers of any type or description. At no time will Lessee, its employees, or its customers use areas not specifically designated for parking as parking spots or areas, or for storage. Lessor assumes no liability or risk for any damage that may occur to the vehicles or other property of Lessee, its employees, customers or others in any parking area or common area.
- 6. Storage, Store Fronts, and Unpermitted Uses/Activities. Lessee agrees to maintain the Museum Space in a clean condition. Lessee agrees to not use the Museum Space as a long-term storage facility for items, except in areas specifically designated for the purpose of storage, such as closets. Notwithstanding the foregoing, Lessee shall have the right to store items necessary for the proper operation of the Museum for a period of time not to exceed three (3) business days. However, such storage shall not impede, obstruct, or in any way interfere with the normal operations of the City and/or any other tenants or visitors to the Premises. At no time will Lessee store any item that is

unnecessary for the proper operation of its business within the Museum Space or the parking area.

- 1. Insurance and other charges. Lessee agrees to and shall pay for general liability insurance and shall name the Lessor as certificate holder or additional insured under the policy of insurance. Lessee shall keep the general liability policy in full force and affect for the full Sub-Lease Term with coverage in the amount of at least \$1 million per person / \$2 million per occurrence. Lessee is responsible for all other forms of insurance (i.e. workers comp, etc.) as may be required by law, except as may be expressly assumed by Lessor in writing.
- **8. Improvements.** To the extent Lessee desires to modify, change or improve the Museum Space for Lessee's intended use, all such costs shall be borne by Lessee, and no such costs shall be the responsibility of Lessor. Any plans for modifications or improvements must be presented to and approved in writing by Lessor prior to initiation of any change, modification or construction.
- **9.** <u>Utilities</u>. Lessee is responsible for all utilities associated with its occupation and use of the Museum Space including, but not limited to, water, sewer, natural gas, and electricity. Lessee shall install and maintain any necessary utility meters or sub-meters at Lessee's expense.
- 10. <u>Garbage/Dumpster Removal Services</u>. Lessor shall provide access to Lessee to the Lessor's dumpster located on the property adjacent to the Premises for Lessee's normal weekly garbage usage. Lessee shall not deposit any hazardous substances in the dumpster or place any garbage or trash outside of the dumpster at any time. All garbage and trash from Lessee's use of the Premises shall be hauled to and deposited in the

dumpster by Lessee on at least a weekly basis.

- 11. **Pest Control.** Lessee, at its cost, shall at all times keep the Premises free of pests. Lessor may elect to implement a program of pest control and, in such event, Lessee hereby grants Lessor the right to enter the Premises and perform such spraying and/or inspections that Lessor deems appropriate, and Lessee shall reimburse Lessor for Lessee's share of the cost of such program. If Lessor does not elect to implement a pest control program, Lessee shall implement a program of pest control satisfactory to Lessor which may include, without limitation, (a) moving any furniture, fixtures, equipment, displays or inventory during inspections and spraying by Lessee's exterminator; and (b) maintaining the Premises in a clean, trash-free and sanitary condition. Lessee further acknowledges that Lessee's exterminator shall, in an environmentally safe way, perform inspections and/or spraying at least every month. If Lessee fails to promptly and fully comply with this Section, Lessor shall have the right, but not the obligation, to enter the Premises to perform such spraying or inspections at Lessee's expense. Performance of such work by Lessor shall not constitute a waiver of Lessee's default in failing to do the same and neither shall it entitle Lessee to any damages for any injury or inconvenience occasioned thereby nor to any abatement of rent. Lessee shall reimburse Lessor for any cost incurred by Lessor pursuant to this Section upon demand therefor.
- **12. Security Deposit**. Because of the relationship between Lessor and Lessee and Lessee's status as a non-profit corporation operating a museum for the benefit of the general public, no Security Deposit shall be required from Lessee for this Sub-Lease.
- **13. Binding Effect and Severability.** The provisions of this Sub-Lease shall be binding upon and inure to the benefit of both parties and their respective successors and

assigns. If any provision of this Sub-Lease or any application thereof shall be invalid or unenforceable, the remainder of this Sub-Lease and any other application of such provision shall not be affected thereby.

- **14. Quiet Enjoyment.** Upon due performance by Lessee of its covenants and agreements under this Sub-Lease, Lessor covenants that Lessee shall and may at all times peaceably and quietly have, hold, and enjoy the Museum Space during the Sub-Lease Term.
- **15. Headings.** The Section headings are for convenience and reference only and shall not be used to limit or otherwise affect the meaning of any provision of this Sub-Lease.
- **16. Counterparts.** This Sub-Lease may be simultaneously executed in two or more counterparts, each of which shall be deemed a fully enforceable original but all of which together shall constitute one and the same instrument.
- 17. <u>Governing law, Venue and Jurisdiction</u>. This Sub-Lease shall be construed in accordance with and governed by the laws of the State of Georgia. Both parties hereby consent to jurisdiction and venue in Dawson County, Georgia in any action brought to enforce any provision of this Sub-Lease.
- 18. Relationship of parties. Lessor and Lessee shall not be considered or deemed to be joint venturers or partners and neither shall have the power to bind or obligate the other except as set forth herein. In the event that Lessor engages a person or entity for the purpose of providing management related to Lessee and Lessee's use of the Museum Space, such shall not change the relationship of the parties or anything in this Paragraph 18. The foregoing notwithstanding, the continued cooperation between Lessor, Lessee and any such individual or entity as determined in Lessor's discretion is a material term

of this lease, and the lack of such cooperation may be grounds for termination of this Lease Agreement.

19. Default. Lessee shall be in default if it fails to pay any rent or any other obligation when due to Lessor or fails to comply with any of the requirements of this Sub-Lease applicable to Lessee, including but not limited to the requirement to work in conjunction with any person or entity engaged by Lessor for management of the Museum Space, compliance with which is determined in Lessor's discretion. In the event Lessee defaults, Lessor may terminate this Sub-Lease and pursue such remedies as are allowed by law. Included among these remedies shall be the right of Lessor to recover all rents owed under the Sub-Lease for the unexpired portion of the Sub-Lease Term. Upon a default and prior to exercising any remedy hereunder or allowed by law, Lessor shall provide Lessee written notice of the default and of Lessor's intent to exercise remedies unless the default is cured within ten (10) days following receipt of the notice of default. Should Lessee fail to cure the default within ten (10) days following receipt of the notice of default, Lessor will be immediately entitled to take possession of the Museum Space. Lessee waives any further right to notice prior to Lessor pursuing remedies other than those contained herein.

Lessor shall be in default if it fails to comply with any of the requirements of this Sub-Lease applicable to Lessor. In the event Lessor defaults, Lessee's sole and exclusive remedy shall be to terminate this Sub-Lease without further recourse against Lessor. Prior to exercising that remedy Lessee shall provide Lessor with written notice of the default and of Lessee's intent to exercise its remedy unless the default is cured within ten (10) days following receipt of the notice of default.

20. <u>Construction</u>. All terms used in this Sub-Lease, regardless of the number or

gender in which they are used, shall be deemed and construed to include any other

number, singular or plural, and by other gender, masculine, feminine, or neuter, as the

context or sense of this Sub-Lease or any section, subsection, or clause herein may require

as if such terms had been fully and properly written in such number or gender.

21. Modification. No changes, additions, or interlineations made to this Sub-Lease

shall be binding unless initialed by both parties.

22. Non-waiver. No delay or failure by either party to exercise any right under this

Sub-Lease, and no partial or single exercise of that right, shall constitute a waiver of that

or any other right, unless otherwise expressly provided herein.

23. Time of essence. Time is expressly declared to be of the essence of this Sub-

Lease.

24. Entire Agreement. This Sub-Lease supersedes all agreements previously made

between the parties relating to its subject matter. There are no other understandings or

agreements between them.

[execution on following page]

In witness whereof the parties have executed this Sub-Lease effective as of the date first

above written.

LESSOR:	LESSEE:

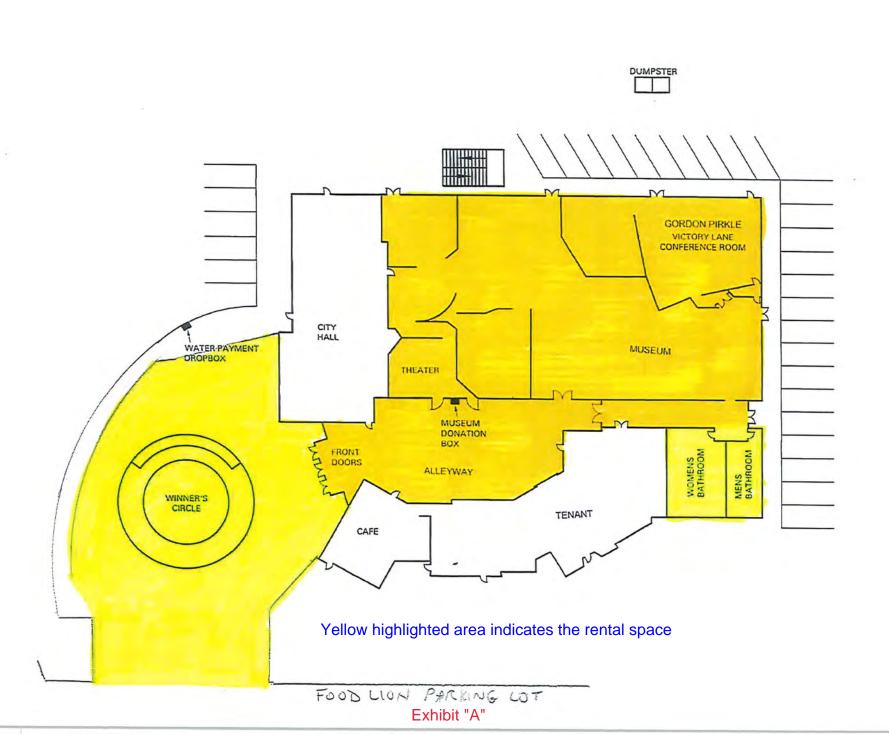
CITY OF DAWSONVILLE DAWSONVILLE HISTORY MUSEUM,

INC.

By:

By: Mike Eason, Mayor

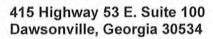
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DAWSONVILLE CITY COUNCIL EXECUTIVE SUMMARY FOR AGENDA ITEM #__16___

SUBJECT: STANDARD DETAIL UPDATE
CITY COUNCIL MEETING DATE: 12/06/2021
BUDGET INFORMATION: GL ACCOUNT #
 ☐ Funds Available from: Annual Budget Capital Budget Other ☐ Budget Amendment Request from Reserve: Enterprise Fund General Fund
PURPOSE FOR REQUEST: TO REQUEST APPROVAL OF THE UPDATED STANDARD DETAILS
 HISTORY/ FACTS / ISSUES: PRESENTED AT THE 11/15/2021 WORK SESSION FOR REVIEW DETAILS LAST UPDATED IN 2018 SIXTEEN DETAILS ADDED TWENTY-ONE DETAILS UPDATED
OPTIONS:
RECOMMENDED SAMPLE MOTION:
REQUESTED BY: David Picklesimer, Planning Director





(706) 265-3256 Fax (706) 265-4214 www.dawsonville-ga.gov

Date: 10/25/2021

To: Mayor and Council

Reference: Standard Details

The Planning and Zoning Department has provided the following pertinent information to help you decide on this request:

- 1. Planning, Public Works and Water & Sewer Department request approval of the updated and additional details.
- 2. Following details updated: 1.1, 3.1, 4.1, 6.1, 6.2, 7.1, 10.1, 11.1, 12.1, 12.2, 18.1, 19.1, 21.2, 22.1, 25.1, 25.2, 29.1, 30.1, 31.1, 33.1, 34.1
- 3. Following details added: 4.2, 5.1, 13.1, 14.1, 16.2, 19.2, 19.3, 21.1, 33.2, 34.2, 35.1, 36.1, 36.2, 38.1, 39.1, 40.1
- 4. Details last updated in 2018.

Kindest Regards,

David Picklesimer Planning Director

STANDARD DETAILS



CITY OF DAWSONVILLE, GEORGIA

STANDARD DETAILS

CITY OF DAWSONVILLE, GEORGIA 415 Highway 53 East

Dawsonville, Georgia 30534 Office: (706) 265- 3256/ Fax: (706) 265- 4214

Prepared by:

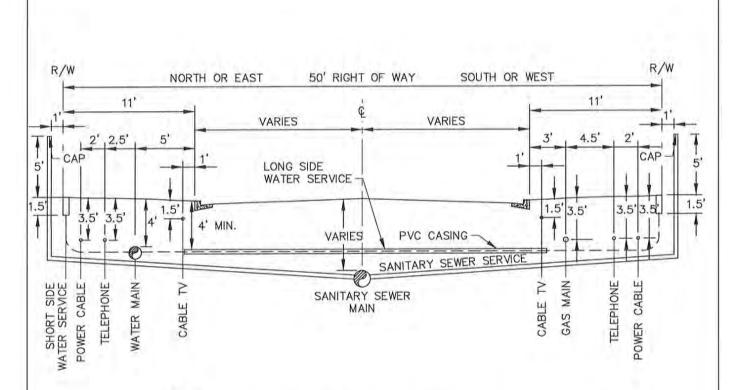


Adopted:	

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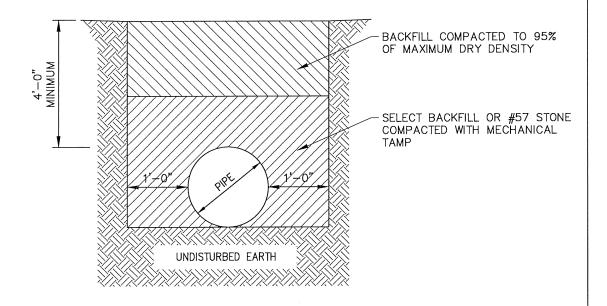
- 1.1 Underground Utilities Locations
- 2.1 Typical Ductile Iron Water Pipe Bedding
- 3.1 Pipe Depth at Edge of Pavement
- 4.1 Typical Fire Hydrant Detail
- 4.2 Fire Hydrant Detail (Curbed Street)
- 5.1 Fire Hydrant in Cul-de-Sac
- 6.1 Valve Box Detail
- 6.2 Valve Marker Post
- 6.3 Valve Anchor
- 7.1 Thrust Block Dimensions
- 7.2 Connect to Existing Water Line
- 8.1 Typical Concrete Anchor
- 9.1 Thrust Restraint at Fitting
- 10.1 Long Side Service
- 11.1 Short Side Service
- 12.1 1.5" to 2" Meter
- 12.2 2" RPZ Back Flow Preventer Detail
- 13.1 Water Meter Box 3" and Larger
- 14.1 Fire Meter and Vault
- 15.1 Fire Meter Vault
- 16.1 FDC Vault
- 16.2 Deadman for Plug
- 17.1 Raw Sewage Pump Station Emergency By-Pass Connection
- 18.1 Typical PVC Sewer Pipe Bedding
- 18.2 Typical Ductile Iron Sewer Pipe Bedding
- 19.1 Sewer Lateral Connection
- 19.2 Cleanout
- 19.3 Traffic Rated Cleanout Box
- 20.1 Pipe Collar
- 21.1 Precast Manhole
- 21.2 Typical Drop Manhole Connection Detail
- 21.3 Typical Dog House Manhole Detail
- 22.1 Combination Air/Vacuum Release Valve
- 23.1 Typical Standard C.I. D.I. Manhole Frame and Cover
- 23.2 Typical Vented C.I. D.I. Manhole Frame and Cover
- 23.3 Typical Watertight C.I. D.I. Manhole Frame and Cover
- 24.1 Pier Dimensions and Section
- 25.1 Force Main Connection to Manhole
- 25.2 Force Main Connection to Manhole (Drop Bowl)
- 26.1 Yard Hydrant
- 27.1 Chain Link Fence
- 28.1 Typical Asphalt Replacement
- 29.1 Typical Asphalt to Curb Replacement
- 30.1 Typical Cleanout Assembly
- 31.1 D.I. Pipe and PVC Pipe Connection Detail
- 32.1 Water Line Creek Crossing Detail

- 32.2 Sewer Line Creek Crossing Detail
- 33.1 Typical Encased Crossing Detail
- 33.2 Grease/Solids/Oil Interceptor
- 34.1 Typical Section Subdivision Road
- 34.2 Typical Road Section
- 35.1 Typical Section of a 5'-0" Sidewalk
- 36.1 Typical Construction Details Curbing
- 36.2 Street Sign Location & Specification
- 37.1 Ornamental Steel Handrail Detail
- 38.1 Weir Inlet Detail (Pedestal Inlet)
- 39.1 Deceleration Lane
- 40.1 Intersection Sight Distance Requirements



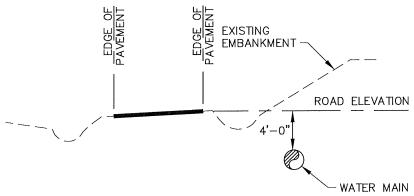
- ON ALL UNCURBED STREET, UTILITY LOCATIONS SHALL BE AT THE SAME DISTANCES FROM EDGE OF PAVEMENT AS SHOWN.
- NO TREES OR FENCES ALLOWED WITHIN THE ROAD R/W OR UTILITY EASEMENT EXCEPT WHERE REQUIRED BY CITY, COUNTY, OR OTHER GOVERNMENT ORDINANCE.
- 3. ALL TREES SHALL BE CLEARED AND SHOULDERS GRADED WITHIN 6" OF FINAL GRADE (INCLUDING UTILITY EASEMENT) PRIOR TO THE INSTALLATION OF ANY UTILITIES.
- 4. PROPERTY CORNER REFERENCE SHALL BE PLACED ON CURB AND GUTTER AND ON 10' OFFSET STAKE.
- 5. WATER METERS SHALL BE MARKED WITH A BLUE "W" ON CURB AS SOON AS POSSIBLE AFTER INSTALL. SEWER LATERALS SHALL BE MARKED WITH A GREEN "S" ON CURB.
- DEPTH REQUIREMENTS INDICATE MINIMUM DEPTH AT TIME OF INSTALLATION BELOW CURB LINE.
- PEDESTALS, TRANSFORMERS AND SECURITY LIGHTS MUST BE OUTSIDE SIDEWALK LOCATIONS.

SCALE: NOT TO SCALE	DATE: OCTOBER 15, 2021	
DETAIL	TITLE	DETAIL NO



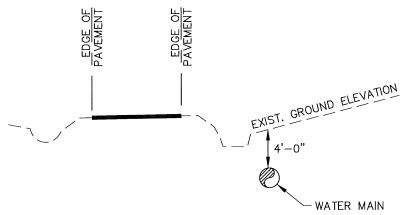
- 1. UNSUITABLE SOILS ENCOUNTED IN BOTTOM OF EXCAVATED TRENCH SHALL BE EXCAVATED & REPLACED WITH #57 STONE.
- 2. ONLY SUITABLE SOIL SHALL BE USED AS BACKFILL.

CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE	DATE: OCTOBER 1	5, 2021
DETAIL TIT	LE	DETAIL NO.
TYPICAL DUCTILE IRON WATER PIPE BEDDING		2.1



- 1. UNLESS OTHERWISE NOTED ON PLANS MINIMUM SOIL COVER ABOVE PIPE IS 4 FEET.
- 2. PIPE SHALL BE INSTALLED IN THE BACK 5' OF R/W.

WHERE GROUND ELEVATION IS ABOVE ROAD ELEVATION

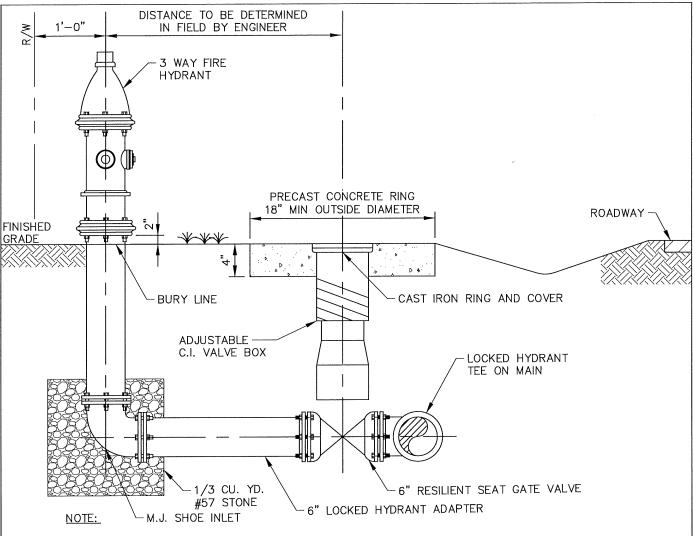


NOTE:

- UNLESS OTHERWISE NOTED ON PLANS MINIMUM SOIL COVER ABOVE PIPE IS 4 FEET.
- 2. PIPE SHALL BE INSTALLED IN THE BACK 5' OF R/W.

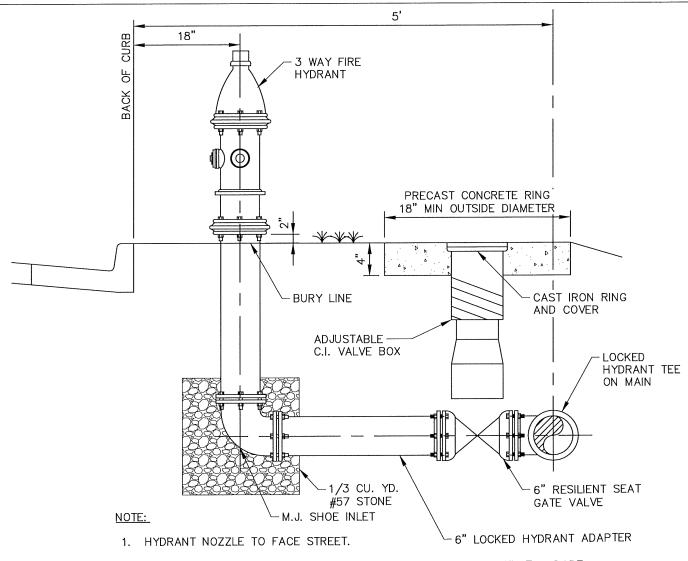
WHERE GROUND ELEVATION IS BELOW ROAD ELEVATION

CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE	DATE: OCTOBER 15	5, 2021
DETAIL TITLE		DETAIL NO.
PIPE DEPTH AT EDGE OF PAVEMENT		3.1



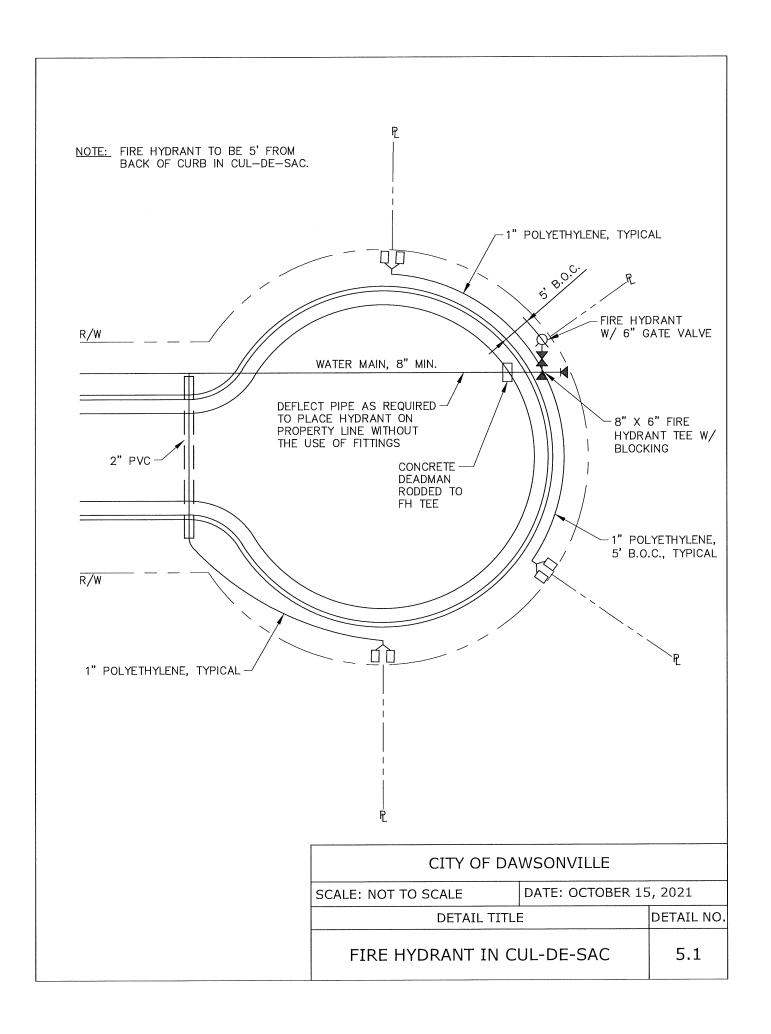
- 1. HYDRANT NOZZLE TO FACE STREET.
- 2. HYDRANT AND VALVE BOX SHALL BE SET PLUMB AND ADJUSTED TO GRADE.
- 3. ALL MATERIAL AND CONSTRUCTION SHALL BE I.A.W. THE SPECIFICATIONS.
- 4. FIRE HYDRANTS, VALVES & VALVE BOXES SHALL NOT BE LOCATED IN DITCH LINE.
- 5. ALL FIRE HYDRANT VALVES ARE TO HAVE 5 1/4" OPENINGS.
- 6. CONCRETE COLLAR REQ'D. WHERE VALVE BOX IS NOT LOCATED IN PAVED AREA.
- 7. GRAVEL TO BE PLACED AROUND HYDRANT DRAIN, MINIMUM DIMENSIONS 2' \times 2' \times 2.25'.
- 8. OFFSET ANCHOR ALLOWED TO ADJUST F.H. TO GRADE.
- 9. INSTALL 2" +/- ABOVE /BELOW GRADE.
- 10. WHERE LOCKED HYDRANT TEES OR LOCKED HYDRANT ADAPTORS CANNOT BE USED, D.I. PIPE SHALL BE RESTRAINED WITH MEGALUGS AND THREADED RODS.

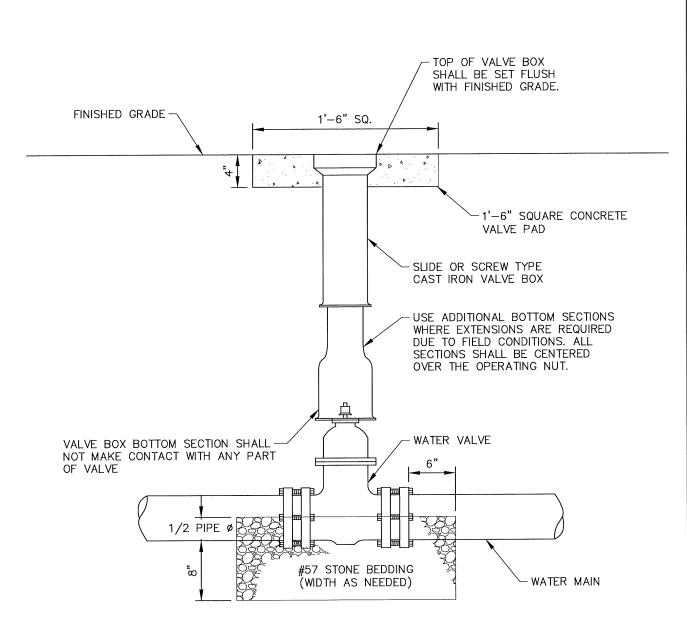
CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE	DATE: OCTOBER 15	5, 2021
DETAIL TITLE		DETAIL NO.
TYPICAL FIRE HYDRANT DETAIL		4.1



- 2. HYDRANT AND VALVE BOX SHALL BE SET PLUMB AND ADJUSTED TO GRADE.
- 3. ALL MATERIAL AND CONSTRUCTION SHALL BE I.A.W. THE SPECIFICATIONS.
- 4. FIRE HYDRANTS, VALVES & VALVE BOXES SHALL NOT BE LOCATED IN DITCH LINE.
- 5. ALL FIRE HYDRANT VALVES ARE TO HAVE 5 1/4" OPENINGS.
- 6. CONCRETE COLLAR REQ'D. WHERE VALVE BOX IS NOT LOCATED IN PAVED AREA.
- 7. GRAVEL TO BE PLACED AROUND HYDRANT DRAIN, MINIMUM DIMENSIONS 2' x 2' x 2.25'.
- 8. OFFSET ANCHOR ALLOWED TO ADJUST F.H. TO GRADE.
- 9. INSTALL 2" +/- ABOVE /BELOW GRADE.
- 10. WHERE LOCKED HYDRANT TEES OR LOCKED HYDRANT ADAPTORS CANNOT BE USED, D.I. PIPE SHALL BE RESTRAINED WITH MEGALUGS AND THREADED RODS.

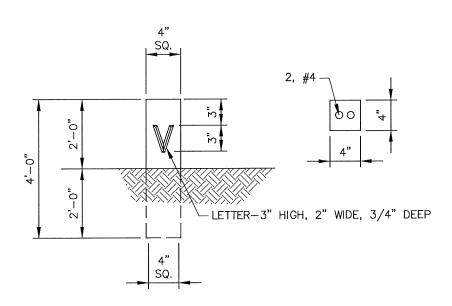
CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE	DATE: OCTOBER 15	5, 2021
DETAIL TITLE		DETAIL NO.
FIRE HYDRANT DETAIL (CURBED STREET)		4.2





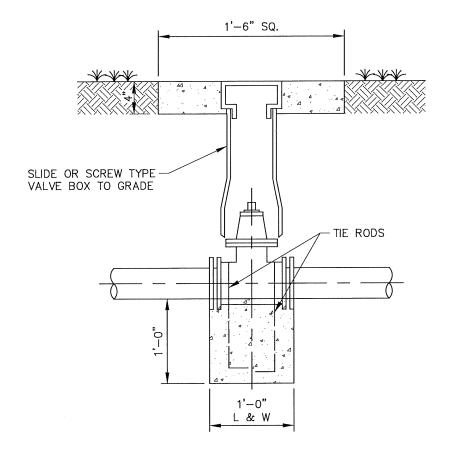
- 1. VALVE BOX SHALL NOT BE SET IN DEPRESSED AREA.
- 2. VALVE STEM EXTENSION REQUIRED IF VALVE IS OVER 5' DEEP.

CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		5, 2021
DETAIL TITLE		DETAIL NO.
VALVE BOX DETAIL		6.1

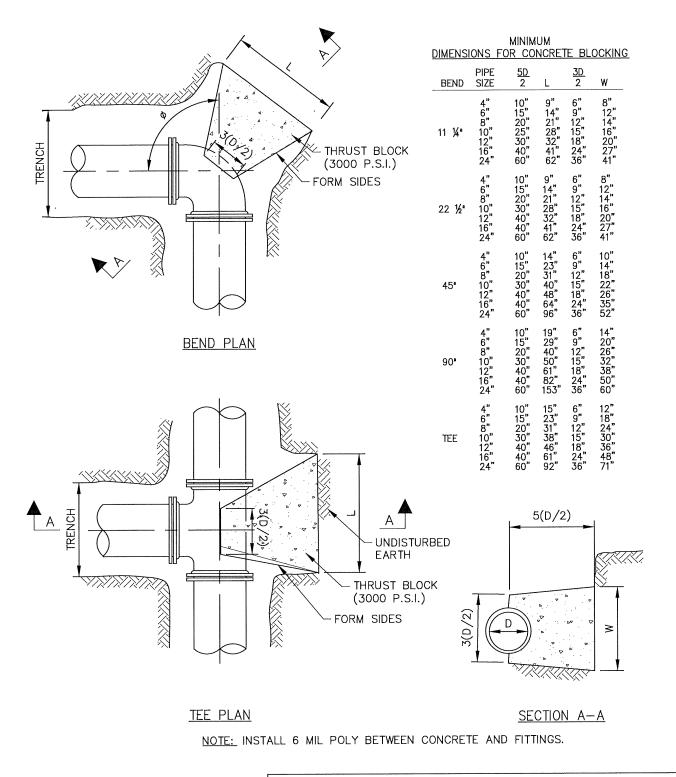


- 1. #5 x 2'-9" REBAR TO BE CAST IN CENTER.
- 2. CONCRETE SHALL BE MIN. 3,000 PSI W/ MAX. AGGREGATE SIZE OF 1/2".
- 3. VALVE MARKERS TO BE LOCATED BY THE ENGINEER.

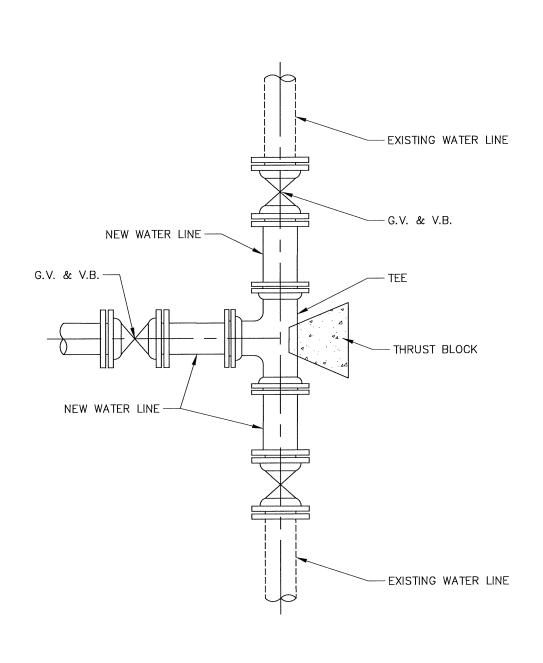
CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE	DATE: OCTOBER 15	5, 2021
DETAIL TITLE		DETAIL NO.
VALVE MARKER POST		6.2



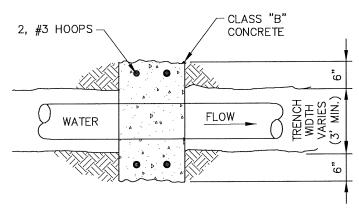
CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		5, 2021
DETAIL TITLE		DETAIL NO.
VALVE ANCHOR		6.3

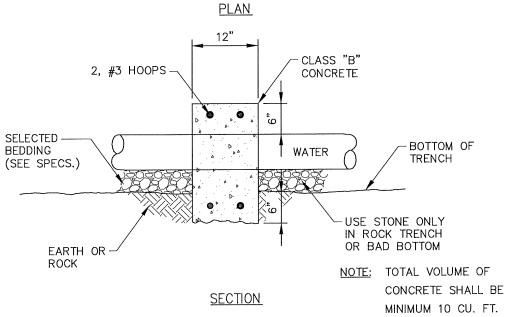


CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE	DATE: OCTOBER 15	5, 2021
DETAIL TITLE		DETAIL NO.
THRUST BLOCK DIMENSIONS		7.1

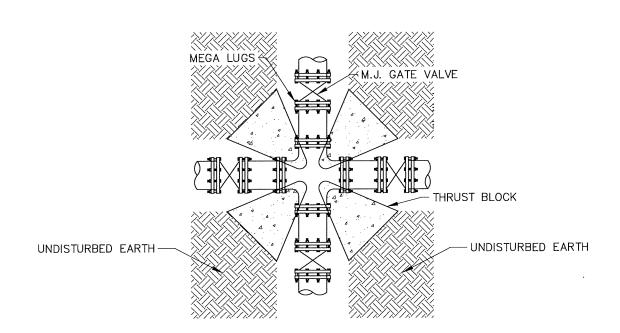


CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		
DETAIL TITLE		DETAIL NO.
CONNECT TO EXISTING WATER LINE		7.2

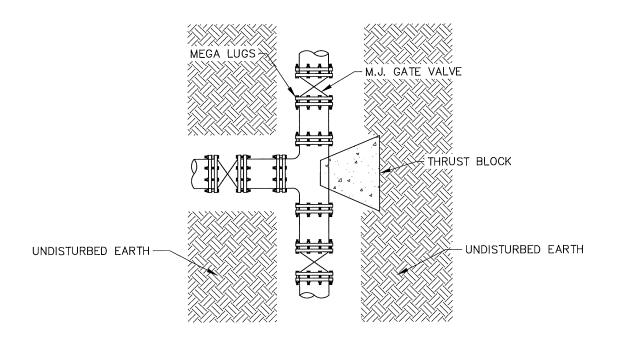




CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		
DETAIL TITLE		DETAIL NO.
TYPICAL CONCRETE ANCHOR		8.1



CROSS INSTALLATION

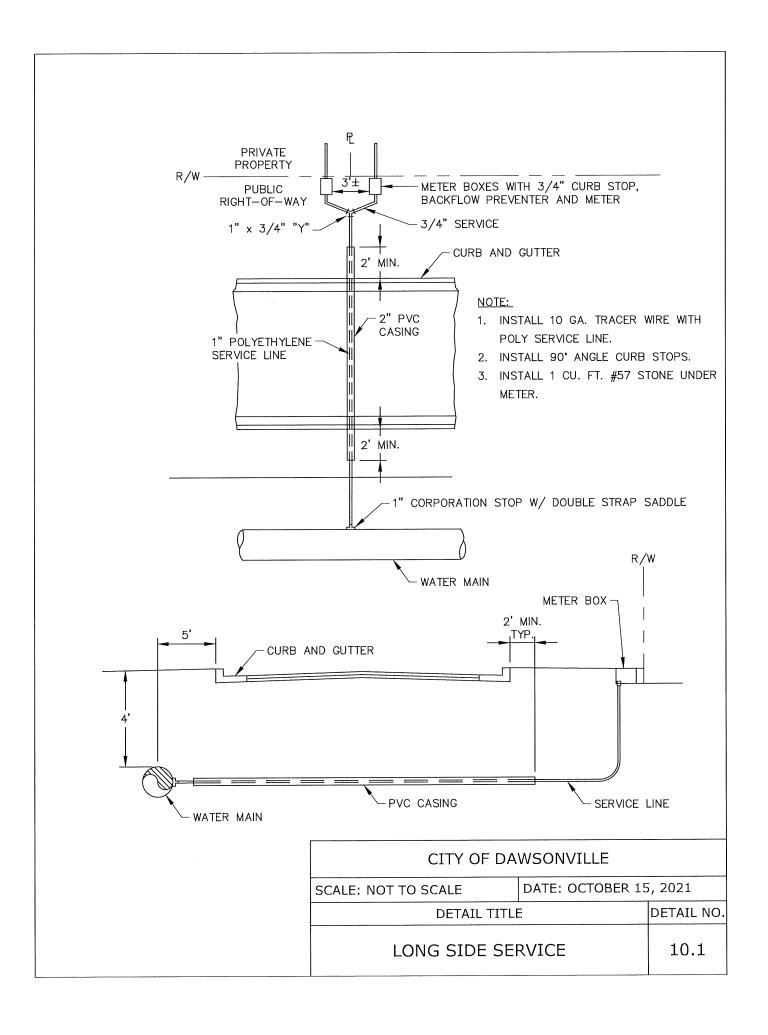


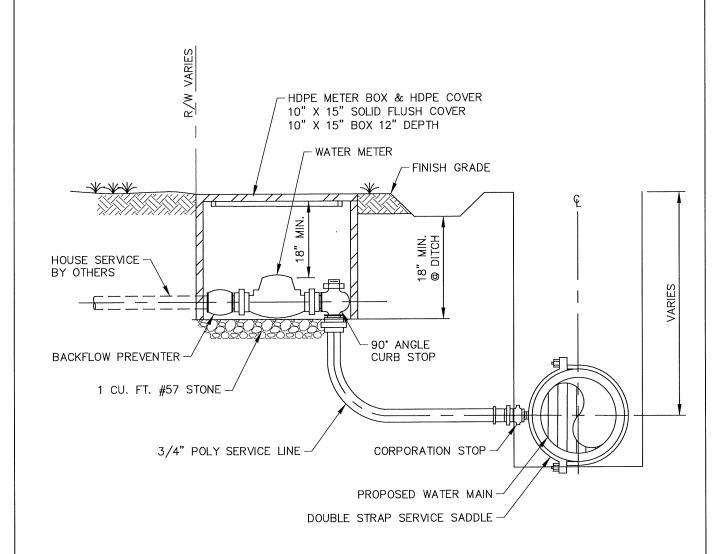
TEE INSTALLATION

- NOTE:
 1. ALL CONNECTIONS SHALL BE RESTRAINED JOINT USING MEGA LUGS.
- 2. BOLTS/NUTS SHALL BE PROTECTED FROM CONCRETE COVERAGE.

CITY OF DAWSONVILLE

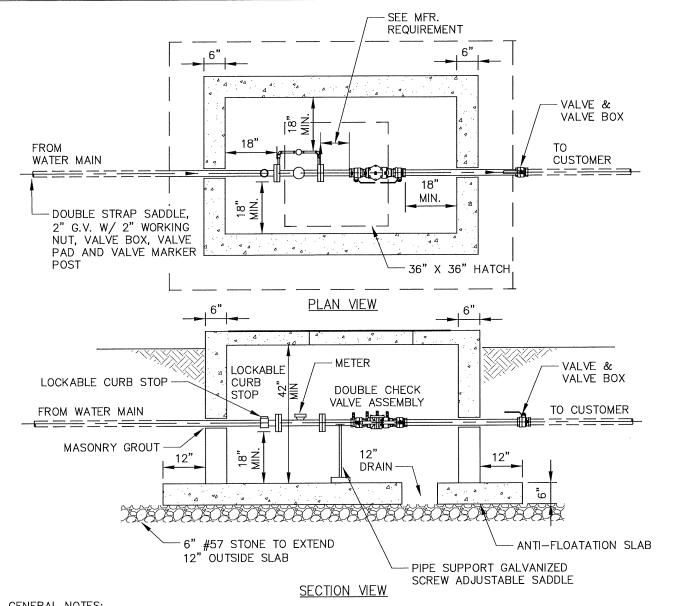
DATE: OCTOBER 15, 2021 SCALE: NOT TO SCALE DETAIL NO. **DETAIL TITLE** THRUST RESTRAINT AT FITTING 9.1





- 1. INSTALLATION SHALL ALLOW ADEQUATE ROOM TO REMOVE AND/OR REPAIR METER.
- 2. INSTALL 10 GA. TRACER WIRE WITH POLY SERVICE LINE.
- 3. INSTALL 90° ANGLE CURB STOP.

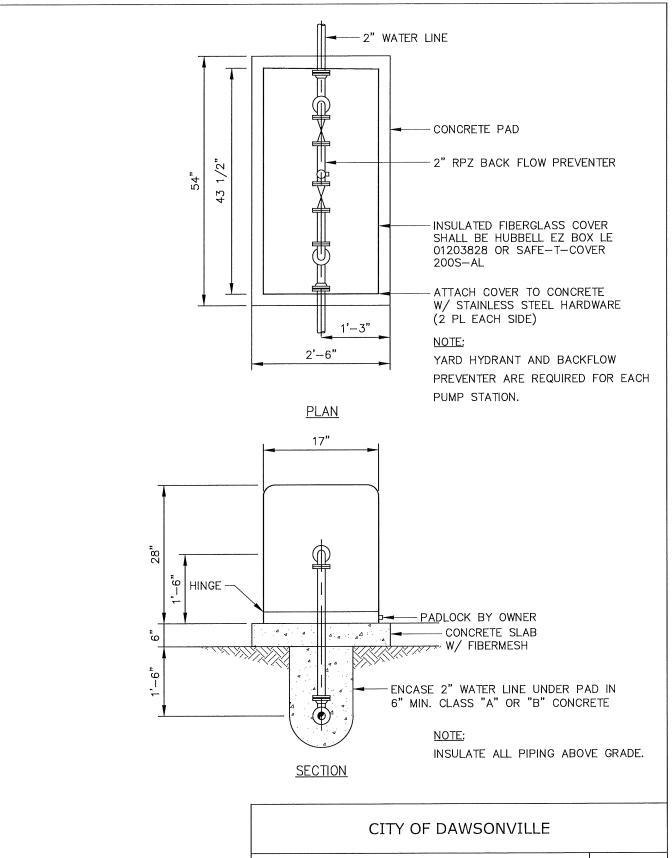
CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		
DETAIL TITLE		DETAIL NO.
SHORT SIDE SERVICE		11.1



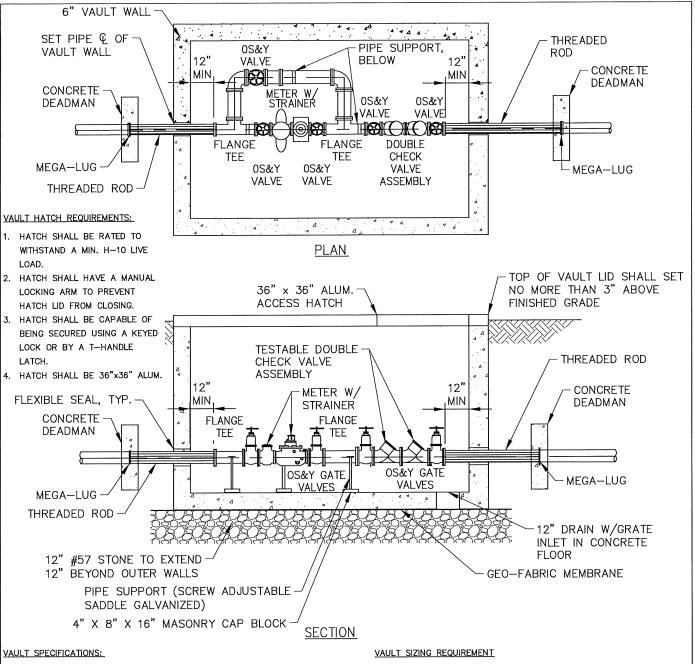
GENERAL NOTES:

- 1. LOCATION OF PIT SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 2. ALL PIPING SHALL HAVE 18" OF CLEARANCE ON ALL SIDES.
- 3. CONTRACTOR SHALL SUPPORT ALL PIPING INSIDE PIT AS REQUIRED (2 PLACES).
- 4. CONTRACTOR MAY USE PRECAST CONCRETE OR POLYMER REINFORCED CONCRETE VAULT IN LIEU OF CAST IN PLACE VAULT.
- 5. IF POLYMER REINFORCED CONCRETE VAULTS ARE USED, THEY SHALL BE ANSI TIER 22 RATED AND HAVE ADEQUATE PROTECTION AGAINST BUOYANCY.
- 6. CONTRACTOR MAY INSTALL METER AND BACKFLOW PREVENTER IN TWO SEPARATE VAULTS.
- 7. ALL EXCAVATION INCLUDING TRENCHING, BORE PITS, ETC., SHALL BE BACKFILLED AT THE END OF EACH WORK DAY.
- 8. STRAIGHT PIPE REQUIREMENTS UPSTREAM AND DOWNSTREAM OF METER SHALL BE AS SPECIFIED BY THE METER MANUFACTURER.
- 9. VAULT SHALL HAVE 12" Ø DRAIN.
- 10. PIPE MATERIAL SHALL BE POLY OR HDPE

CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		
DETAIL TITLE		DETAIL NO.
1.5" TO 2" METER		12.1



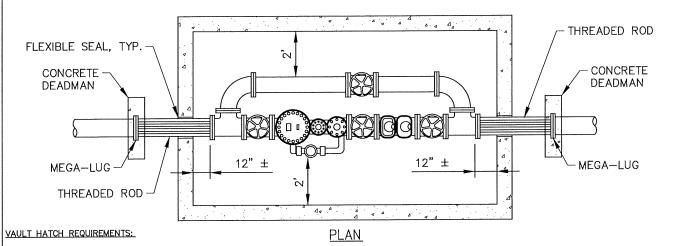
CITY OF DAWSONVILLE	
DETAIL TITLE	DETAIL NO.
2" RPZ BACK FLOW PREVENTER DETAIL	12.2



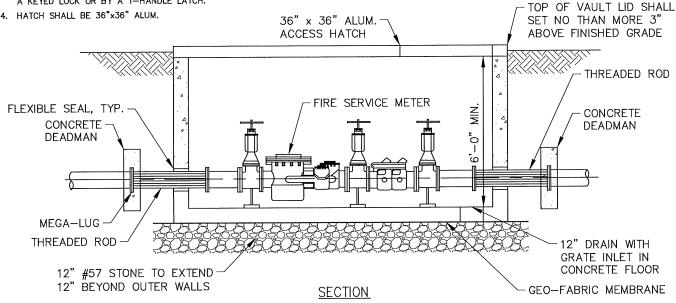
- 1. VAULT SHALL BE PRECAST REINFORCED CONCRETE.
- VAULT TOP SHALL BE REINFORCED CONCRETE WITH HATCH OPENING OFFSET TO ONE SIDE.
- ACCESS LADDER SHALL BE DOWELED TO WALL AND CENTERED AT HATCH OPENING.
- PIPE PENETRATIONS (ANNULUS BETWEEN CONCRETE AND OUTSIDE OF PIPE)
 SHALL BE SEALED WITH BRICK AND GROUTED.
- 5. BFP DEVICE SHALL BE SUPPORTED AT ONE (1) POINT WITH PIPE STANDS.
- 6. THRUST BLOCKING (AS REQUIRED).
- 7. VAULT SHALL BE INSTALLED ON OWNERS PRIVATE PROPERTY, PROVIDING A 20' X 30' EASEMENT.
- 8. ALL MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CUSTOMER/OWNER.
- 9. VAULTS SHALL BE 2 PIECE.
- 10. VAULT SHALL HAVE 36" X 36" ALUMINUM HATCH.
- 11. STRAIGHT PIPE REQUIREMENTS UPSTREAM & DOWNSTREAM OF METER SHALL BE SPECIFIED BY METER MANUFACTURER.

- 1. VAULTS SHALL BE ADEQUATELY SIZED TO CONTAIN ALL PIPING, VALVES, BYPASS, FITTINGS, METER AND STRAINER ASSOCIATED WITHIN THE METER INSTALLATION.
- A MINIMUM DISTANCE OF 18" SHALL BE MAINTAINED BETWEEN ANY PIPING AND 1) THE VAULT FLOOR AND 2) THE WALL RUNNING PARALLEL TO THE PIPING.
- 3. RECOMMENDED VAULT SIZES:
 - 3" 10'-6" X 6'-0" 4" - 12'-0" X 6'-0"
 - 6" AND GREATER AS APPROVED BY CITY

CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		5, 2021
DETAIL TITLE		DETAIL NO.
WATER METER BOX 3" AND LARGER		13.1



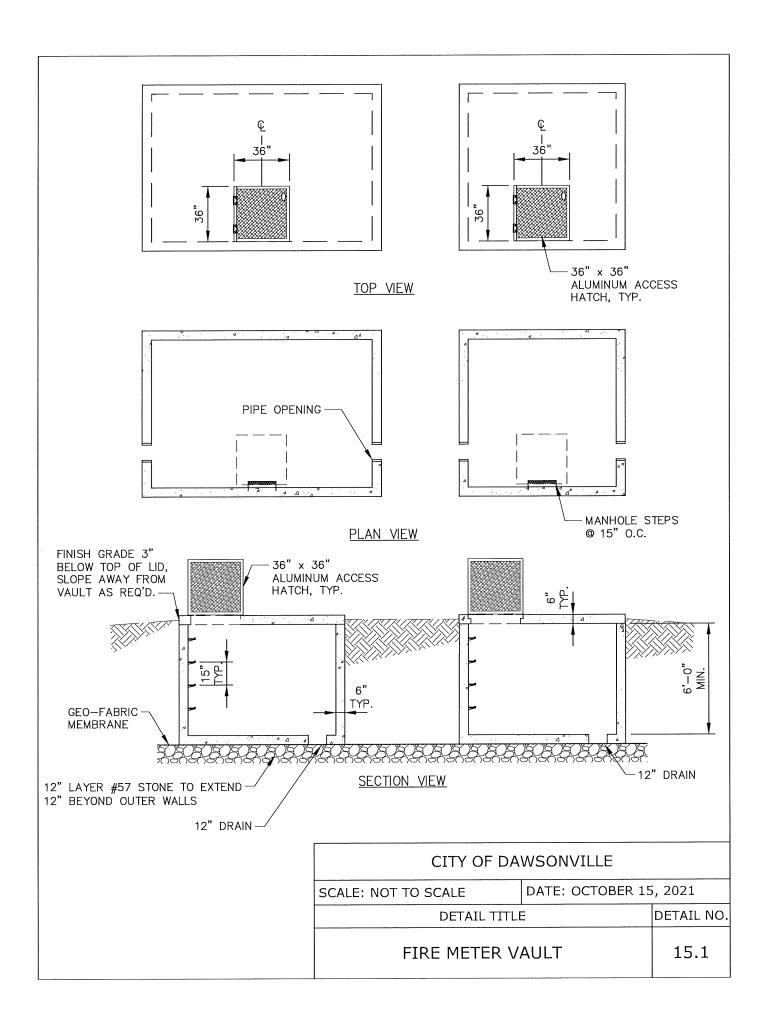
- HATCH SHALL BE RATED TO WITHSTAND A MIN. H-20 LIVE LOAD.
- 2. HATCH SHALL HAVE A MANUAL LOCKING ARM TO PREVENT HATCH LID FROM CLOSING.
- HATCH SHALL BE CAPABLE OF BEING SECURED USING A KEYED LOCK OR BY A T-HANDLE LATCH.

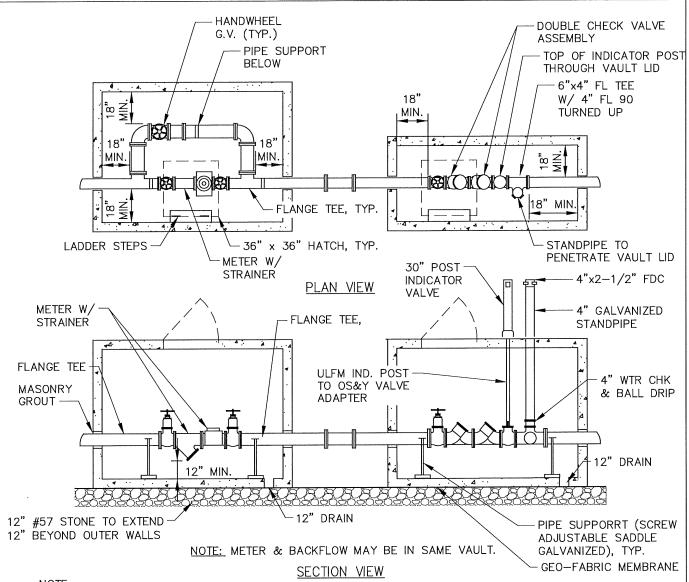


VAULT SPECIFICATIONS:

- 1. VAULT SHALL BE PRECAST REINFORCED CONCRETE.
- VAULT TOP SHALL BE REINFORCED CONCRETE WITH HATCH OPENING OFFSET TO ONE SIDE.
- ACCESS LADDER SHALL BE DOWELED TO WALL AND CENTERED AT HATCH OPENING.
- 4. PIPE PENETRATIONS (ANNULUS BETWEEN CONCRETE AND OUTSIDE OF PIPE) SHALL BE SEALED WITH BRICK AND GROUTED.
- 5. BFP DEVICE SHALL BE SUPPORTED AT ONE (1) POINT WITH PIPE STANDS.
- 6. THRUST BLOCKING (AS REQUIRED).
- 7. VAULT SHALL BE INSTALLED ON OWNERS PRIVATE PROPERTY, PROVIDING A 20' X 30' EASEMENT.
- 8. ALL MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CUSTOMER/OWNER.
- 9. VAULTS SHALL BE 2 PIECE.
- 10. VAULT SHALL HAVE 36" X 36" ALUMINUM HATCH.
- STRAIGHT PIPE REQUIREMENTS UPSTREAM & DOWNSTREAM OF METER SHALL BE SPECIFIED BY METER MANUFACTURER.

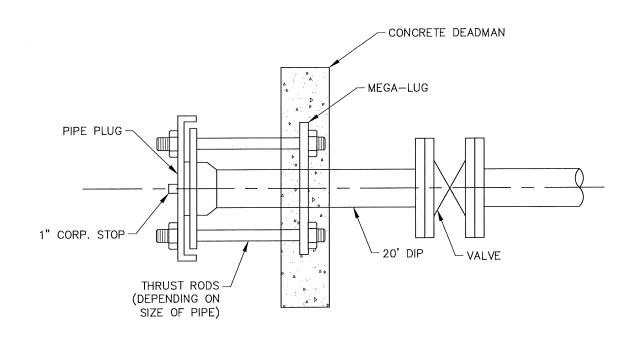
CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		
DETAIL TITLE		DETAIL NO.
FIRE METER AND VAULT		14.1





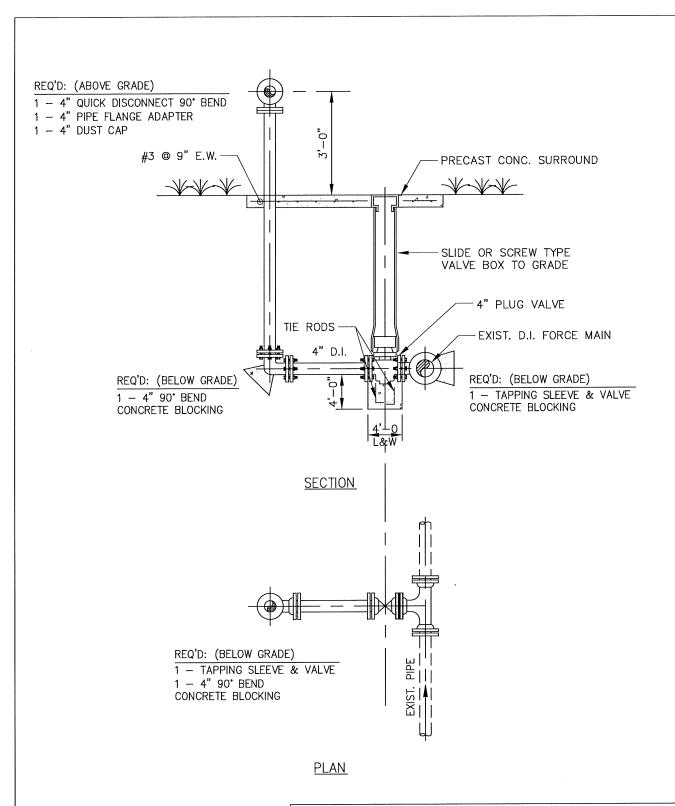
- 1. VAULT TO BE SIZED TO ALLOW 18" MIN. CLEARANCE AROUND ALL INSTALLED EQUIPMENT.
- 2. VAULT COATING TO BE
 - A. BITUMINOUS TAR ON UNDERGROUND PORTION OF VAULT.
 - B. ASSEMBLY TO BE COATED WITH SPECIAL NON-SKID EPOXY.
- 3. THE HATCHES SHALL BE CONSTRCUTED W/ 6" DEEP FRAME AND OF 1/4" DIAMOND PLATE ALUMINUM.
- 4. THE HATCHES SHALL BE REINFORCED FOR H-20 LOADING, AND SHALL HAVE A FALL-IN-PLACE HOLD-OPEN ARM AND STAINLESS STEEL SNAP LOCK.
- 5. HATCHES SHALL MEET ALL CURRENT ASTM STANDARDS.
- 6. SIX (6") INCH THICK PRECAST CONCRETE SHALL BE USED FOR CONSTRUCTION AS A MINIMUM.
- 7. 12" LAYER OF #57 STONE, 12" LARGER THAN FOOTPRINT OF VAULT.
- 8. VAULT SHALL HAVE 12" Ø DRAIN.
- POSITION HATCH OVER METER & ALIGN EDGE AGAINST VAULT INTERIOR WALL.

CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		
DETAIL TITLE		DETAIL NO.
FDC VAULT		16.1

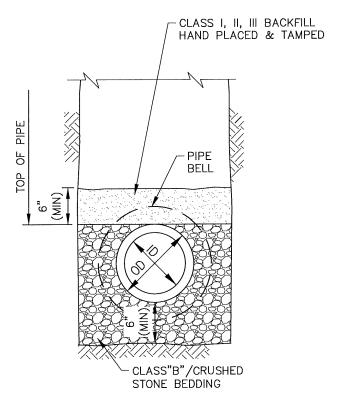


PIPE SIZE	ROD SIZE	NUMBER OF RODS
6"	3/4"	2
8"	3/4"	3
10"	3/4"	4
12"	3/4"	4
14"	3/4"	4
16"	3/4"	6
20"	3/4"	6
24"	3/4"	8
30"	1"	8
36"	1"	10

CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		5, 2021
DETAIL TITLE		DETAIL NO.
DEADMAN FOR PLUG		16.2

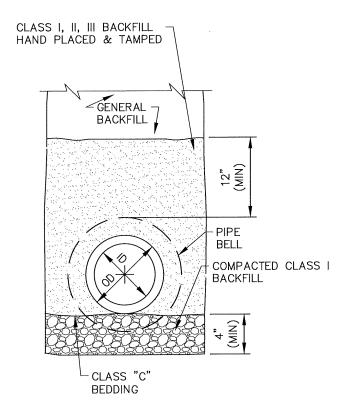


CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		
DETAIL TITLE		DETAIL NO.
RAW SEWAGE PUMP STATION EMERGENCY BY-PASS CONNECTION		17.1



- 1. UNSUITABLE SOILS ENCOUNTERED IN BOTTOM OF EXCAVATED TRENCH SHALL BE EXCAVATED & REPLACED WITH #57 STONE.
- 2. ONLY SUITABLE SOIL SHALL BE USED AS BACKFILL.

CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		
DETAIL TITLE		DETAIL NO.
TYPICAL PVC SEWER PIPE BEDDING		18.1



DUCTILE IRON

NOTE: APPLICABLE TO BOTH EARTH * ROCK TRENCHES

MAX. DEPTH OF COVER FOR DUCTILE IRON PIPE OF THE VARIOUS CLASSES & SIZES TO BE INSTALLED

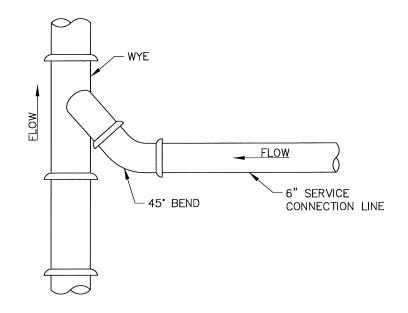
ARE AS FOLLOWS:

LAYING CONDITION - DUCTILE IRON

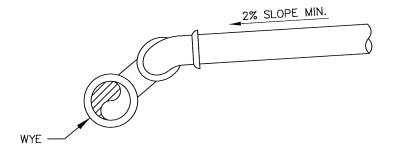
MAX. DEPTH & COVER (FT.)

			<u>(1)</u>	<u>(2)</u>
<u>PIPE</u>	THICK	NOMINAL	FLAT BOT	SELECTED
SIZE IN	CLASS	THICK IN	TRENCH	MATERIAL
8	50	0.27	46	64
	51	0.30	61	81
	52	0.33	77	99

CITY OF DAWSONVILLE			
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021			
DETAIL TITLE		DETAIL NO.	
TYPICAL DUCTILE IRON BEDDING		18.2	



<u>PLAN</u>

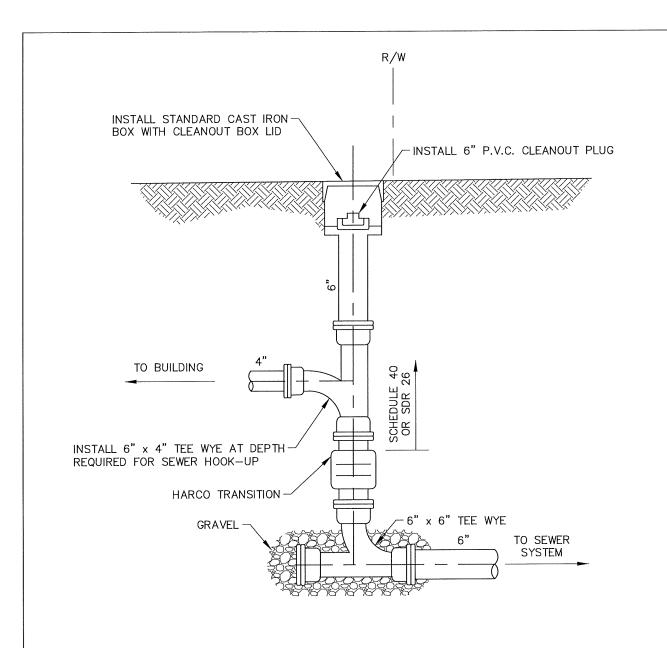


SECTION

NOTE:

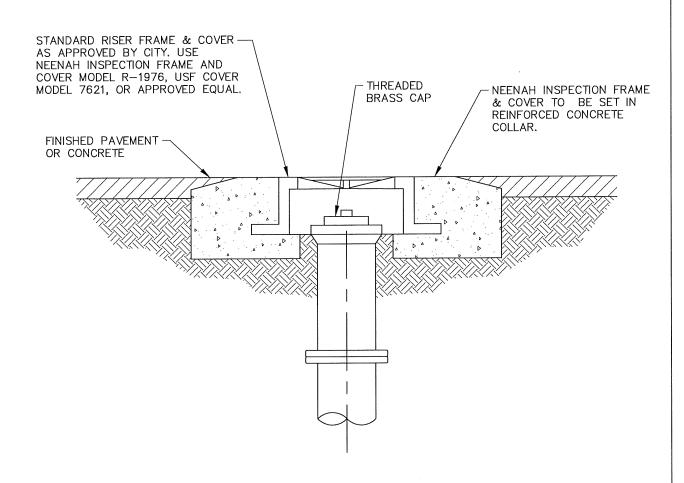
- 1. CONNECTION TO NEW SEWER SHALL BE WITH TEE WYE.
- 2. NO TEES WYES ON SEWERS LARGER THAN 18" ϕ .
- 3. LATERAL MATERIAL SHALL BE SAME TYPE AS MAIN LINE
- 4. LATERAL BEDDING SHALL BE SAME AS MAIN LINE.

CITY OF DAWSONVILLE			
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021			
DETAIL TITLE		DETAIL NO.	
SEWER LATERAL CONNECTION		19.1	



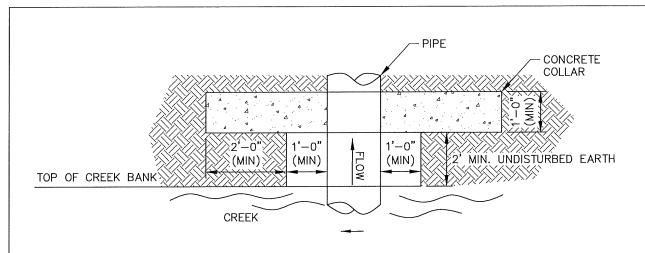
NOTE: THIS CLEANOUT DETAIL TO BE USED FOR 10' OR DEEPER CONDITIONS AND ONLY AFTER APPROVAL BY CITY OF DAWSONVILLE.

CITY OF DAWSONVILLE			
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021			
DETAIL TITL	DETAIL NO.		
CLEANOUT		19.2	

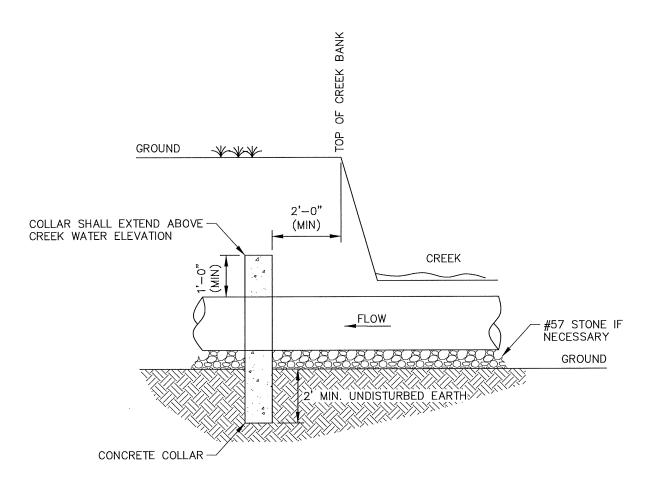


NOTE: THE INSPECTION FRAME AND COVER IS TO BE USED IN ALL PAVED AND CONCRETE APPLICATIONS.

CITY OF DAWSONVILLE			
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021			
DETAIL TITLE	DETAIL NO.		
TRAFFIC RATED CLEANOUT BOX		19.3	

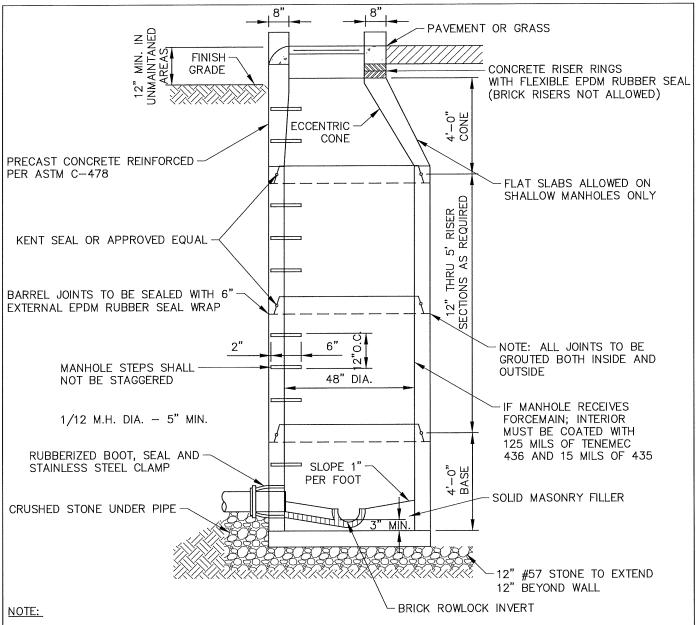


PLAN VIEW



SIDE VIEW

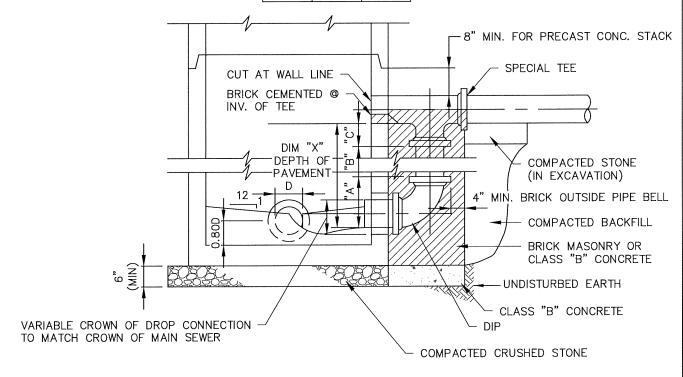
CITY OF DAWSONVILLE			
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021			
DETAIL TITLE	DETAIL NO.		
PIPE COLLAR		20.1	



- TABLES ARE TO BE GENTLY SLOPED AND TROWELED SMOOTH FROM M.H. WALL TO INVERT WALL AND CONSTRUCTED OF SOLID MASONARY.
- 2. BASES LARGER THAN 48" (INCH) MUST USE TRANSITION SLAB AND 48" (INCH) RISER SECTIONS
- 3. CONES WITH BOLT DOWN CAST IN PLACE FRAMES ARE REQUIRED ON OUTFALL SEWERS IN UNMAINTAINED AREAS
- 4. TRAFFIC FRAME AND COVER SHALL BE USED IN PAVED AREAS.
- 5. NO MANHOLE RISER SECTION SHALL BE MORE THAN 1/2" (ONE HALF INCH) OUT OF ROUND.

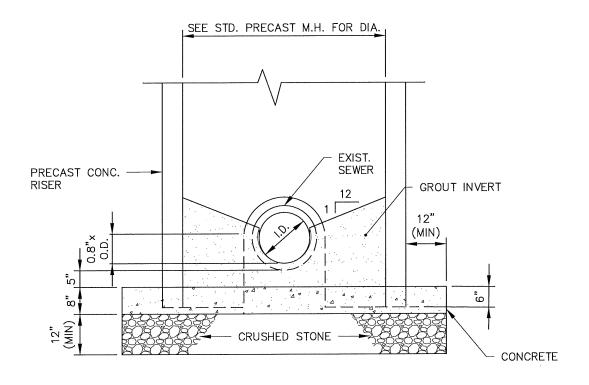
CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		
DETAIL TITLE		DETAIL NO
PRECAST MANHOLE		21.1

SCHEDULE FOR DROP CONNECTIONS DIMENSION "X"			
PIPE SIZE	DROP SIZE	MIN. DROP	
6"	6"	24"	
8"	8"	24"	
10"	8"	24"	
12"	10"	35"	
15"	12"	37"	
18"	15"	39"	
21"	18"	41"	
24"	18"	43"	
30"	18"	45"	

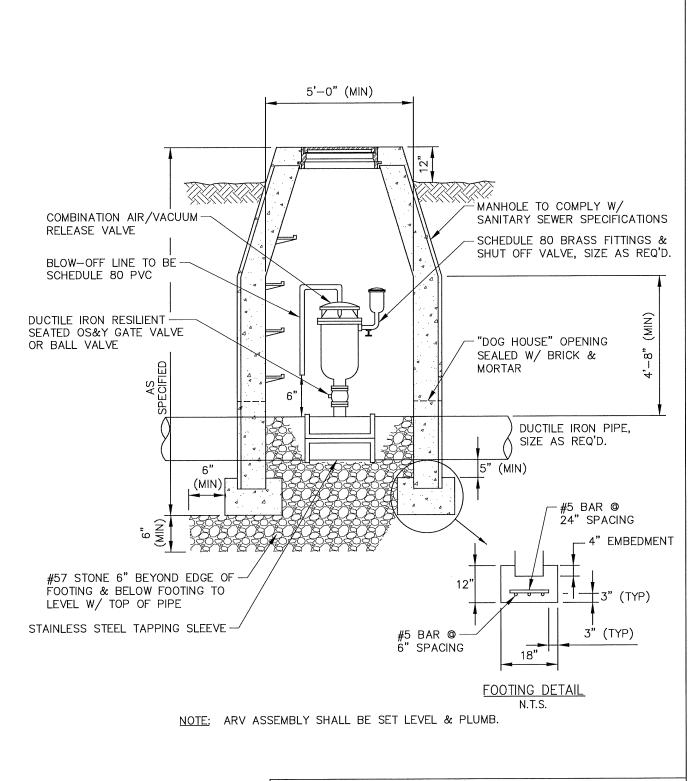


NOTE: ALL PIPING INSIDE MANHOLE SHALL BE DUCTILE IRON W/ STAINLESS STEEL HARDWARE.

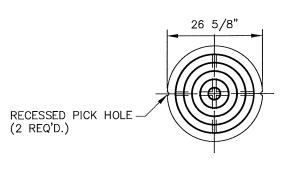
CITY OF DAWSONVILLE			
SCALE: NOT TO SCALE	, 2021		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		, 2021	
DETAIL TITLE	DETAIL NO.		
TYPICAL DROP MANHOLE CONNECTION DETAIL		21.2	



CITY OF DAWSONVILLE			
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021			
DETAIL TITLI	DETAIL NO.		
TYPICAL DOG HOUSE MA	21.3		



CITY OF DAWSONVILLE			
SCALE: NOT TO SCALE	5, 2021		
DETAIL TITLE		DETAIL NO.	
COMBINATION AIR/VACUUM RELEASE VALVE		22.1	

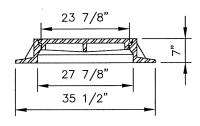


PLAN-COVER

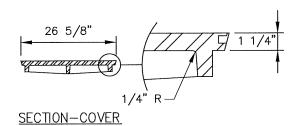
SEATING SURFACE OF FRAMES & COVERS TO BE MACHINED TO FIT.

APPROX TOTAL WT. OF FRAME & COVER IS 370# OR GREATER

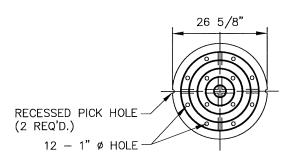
SHALL BE: U.S. FOUNDRY 223 BN, NEENAH R-1423-BN, EAST JORDAN V1349 OR EQUAL



SECTION-FRAME & COVER



CITY OF DAWSONVILLE			
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021			
DETAIL TITLE		DETAIL NO.	
TYPICAL STANDARD C.I. D.I. MANHOLE FRAME AND COVER		23.1	

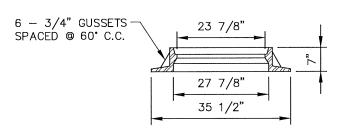


SEATING SURFACE OF FRAMES & COVERS TO BE MACHINED TO FIT.

APPROX TOTAL WT. OF FRAME & COVER IS 370# OR GREATER

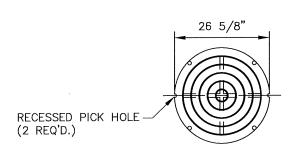
SHALL BE: U.S. FOUNDRY 223 BN, NEENAH R-1423-BN, EAST JORDAN V1349 OR EQUAL

PLAN-COVER



SECTION-FRAME

CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		
DETAIL TITLE		DETAIL NO.
TYPICAL VENTED C.I. D.I. MANHOLE FRAME AND COVER		23.2

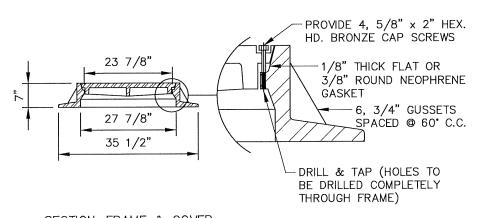


SEATING SURFACE OF FRAMES & COVERS TO BE MACHINED TO FIT.

APPROX TOTAL WT. OF FRAME & COVER IS 370# OR GREATER

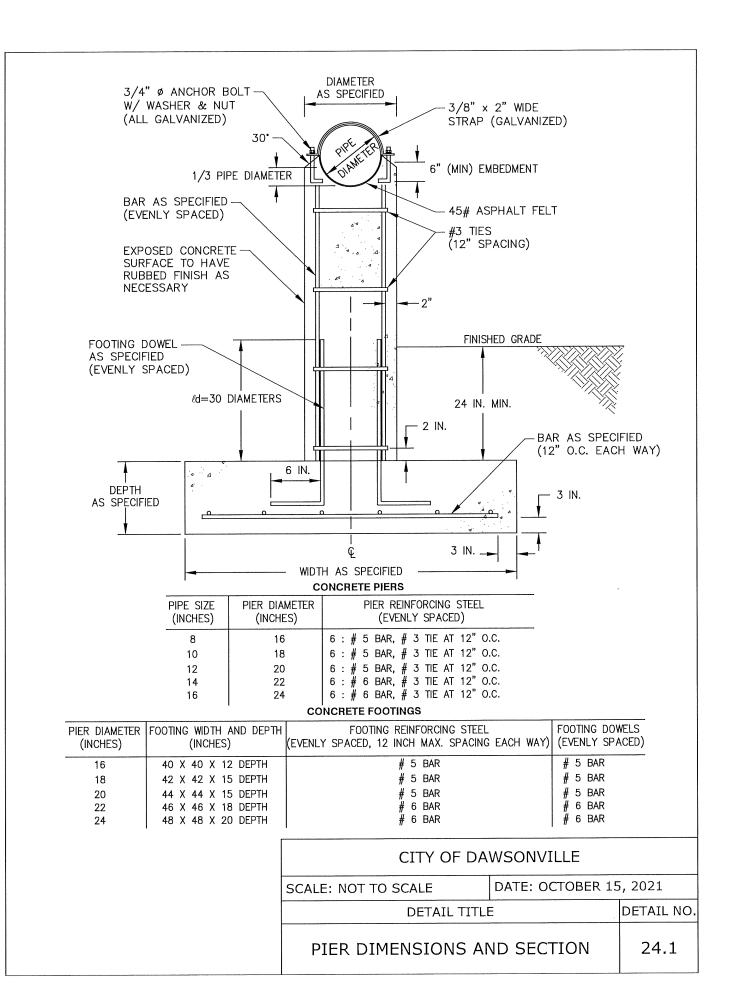
SHALL BE: U.S. FOUNDRY 223 BN, NEENAH R-1423-BN, EAST JORDAN V1349 OR EQUAL

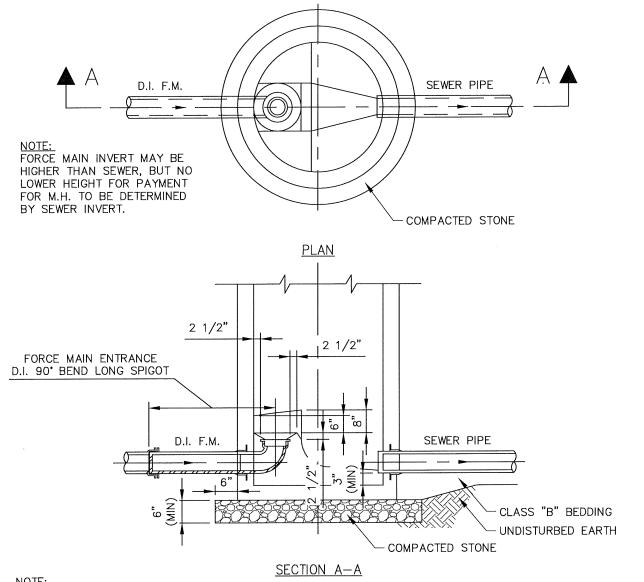
PLAN-COVER



SECTION-FRAME & COVER

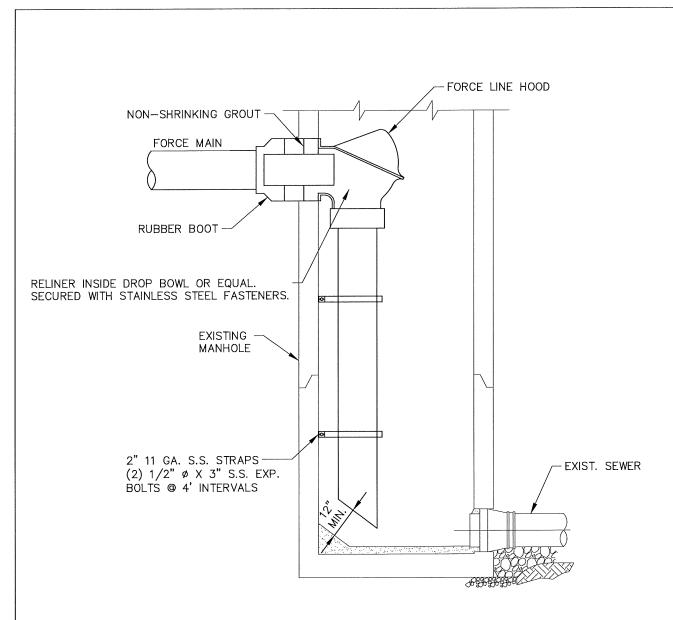
CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		
DETAIL TITLE		DETAIL NO.
TYPICAL WATERTIGHT C.I. D.I. MANHOLE FRAME AND COVER		23.3





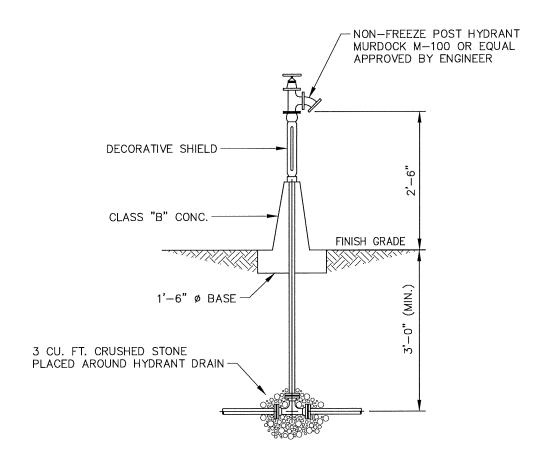
- 1. WASTEWATER PIPE CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE IN SUCH A MANNER THAT THE FINISHED WORK SHALL CONFORM AS NEARLY AS PRACTICABLE TO THE ESSENTIAL REQUIREMENTS SPECIFIED FOR NEW MANHOLES. THE CONTRACTOR SHALL CORE AN OPENING IN THE EXISTING MANHOLE AS NECESSARY TO INSERT THE NEW WASTEWATER PIPE. THE EXISTING CONCRETE FOUNDATION BENCH SHALL BE CHIPPED TO THE CROSS-SECTION OF THE NEW PIPE IN ORDER TO FORM A SMOOTH CONTINUOUS INVERT SIMILAR TO WHAT WOULD BE FORMED IN A NEW CONCRETE BASE. NON-SHRINK GROUT SHALL BE USED TO SEAL THE NEW LINE SO THE JUNCTION IS WATERTIGHT. THE BYPASSING OF RAW WASTEWATER ONTO THE GROUND OR INTO A RECEIVING STREAM IS STRICTLY PROHIBITED.
- 2. INTERIOR MUST BE COATED WITH 125 MILS OF TNEMEC 436 AND 15 MILS OF 435.

CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		
DETAIL TITLE		DETAIL NO.
FORCE MAIN CONNECTION TO MANHOLE		25.1



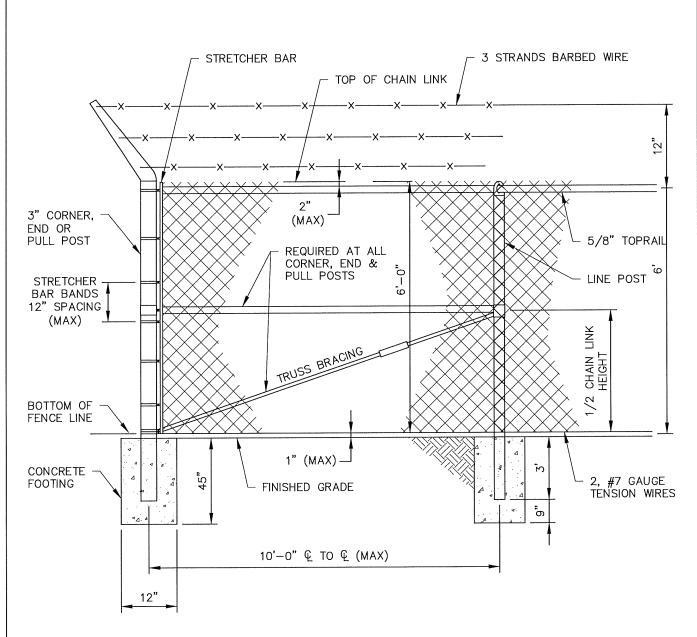
NOTE: INTERIOR MUST BE COATED WITH 125 MILS OF TNEMEC 436 AND 15 MILS OF 435.

CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		
DETAIL TITLE		DETAIL NO.
FORCE MAIN CONNECTION TO MANHOLE (DROP BOWL)		25.2



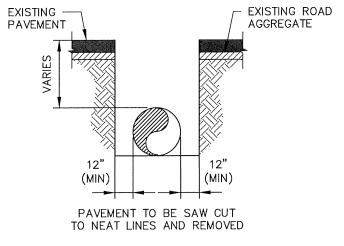
NOTE: THE DISTANCE FROM THE WATER MAIN TO THE YARD HYDRANT SHALL BE DETERMINED IN FIELD BY ENGINEER.

CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		
DETAIL TITLE		DETAIL NO.
YARD HYDRANT		26.1

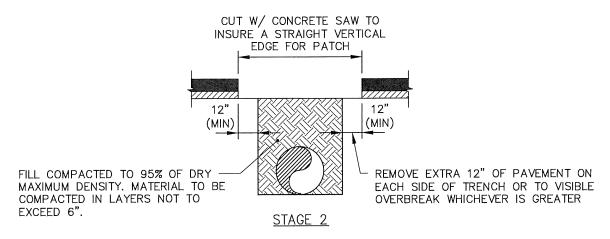


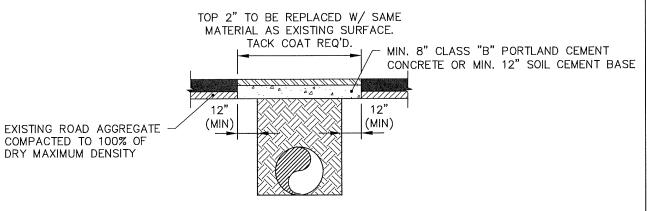
- 1. PROVIDE PVC COATED CHAIN LINK FOR FENCE.
- 2. INSTALL 14' WIDE DOUBLE SWING GATE.

CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 202		5, 2021
DETAIL TITLE		DETAIL NO.
CHAIN LINK FENCE		27.1



STAGE 1

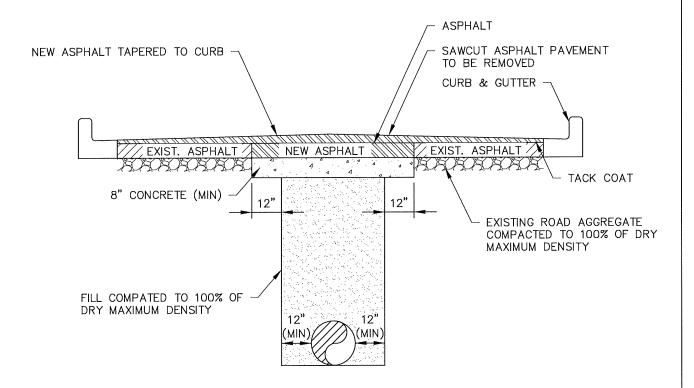




SURFACES TO BE CLEANED AND BITUMINOUS TACK COAT APPLIED BEFORE PLACEMENT OF TYPE "E" OR "F" ASPHALTIC.

STAGE 3

CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		
DETAIL TITLE		DETAIL NO.
TYPICAL ASPHALT REPLACEMENT		28.1

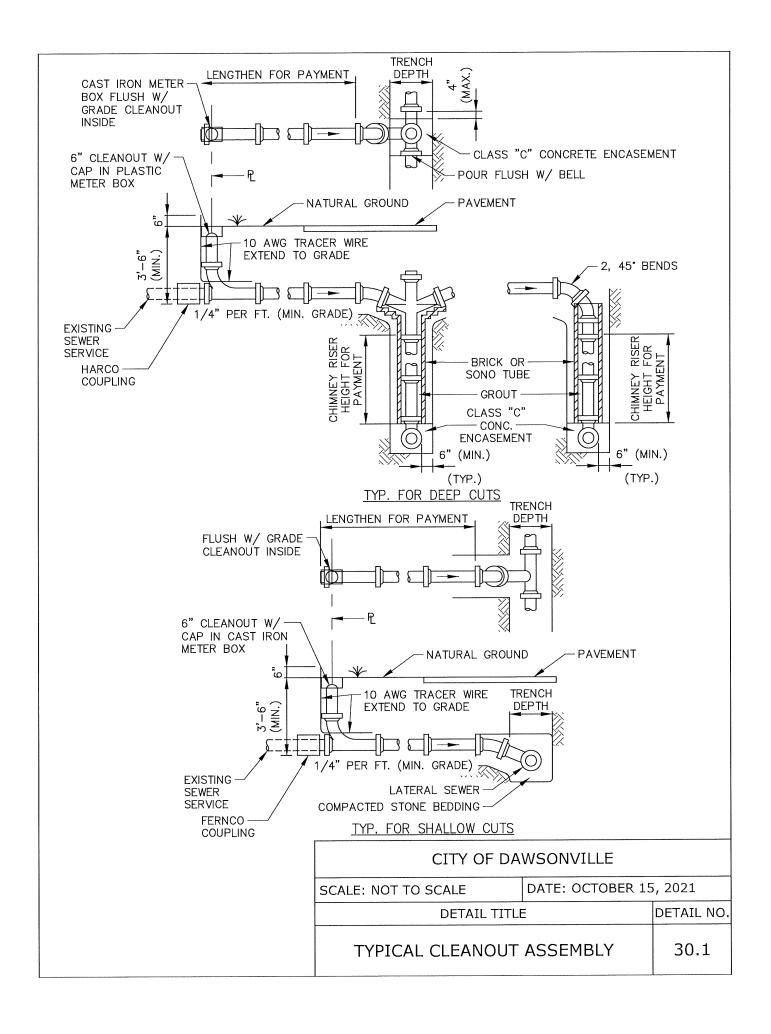


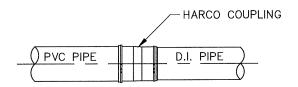
NOTE: 1. TAPER NEW ASPHALT PAVEMENT TO EXISTING PAVEMENT

2. USE 9.5MM ASPHALT 1 1/8" TO 1.5" TYPE 2

3. USE 12.5MM ASPHALT 1 3/8" TO 2.5"

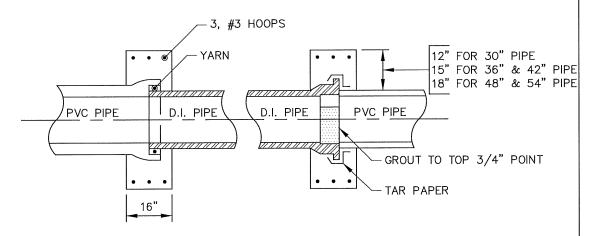
CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		
DETAIL TITLE		DETAIL NO.
TYPICAL ASPHALT TO CURB REPLACEMENT		29.1





- CONTRACTOR TO USE COUPLING AS RECOMMENDED BY MFG. IN JOINTING UNLIKE TYPES OF PIPE.
- 2. CONTRACTOR TO USE HARCO COUPLING IN LIEU OF CONCRETE COLLAR, PIPE SIZES 4" THRU 24".

FLEXIBLE COUPLING

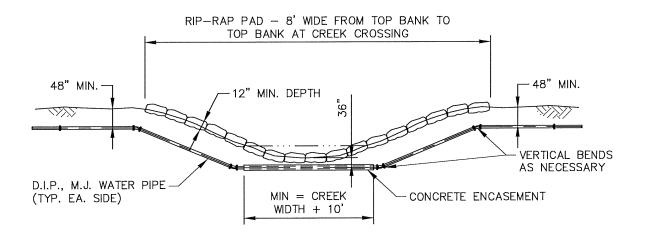


NOTE:

COLLAR TO BE CLASS "B" CONCRETE.

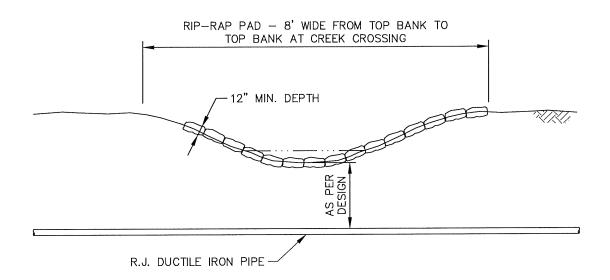
CONCRETE COLLAR

CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE	5, 2021	
DETAIL TITLE		DETAIL NO.
D.I. PIPE AND PVC PIPE CONNECTION DETAIL		31.1



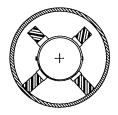
- 1. ALL JOINTS IN D.I.P., M.J. USED IN CREEK CROSSINGS SHALL BE RESTRAINED WITH M.J. RETAINER GLANDS—EBAA IRON OR EQUAL.
- 2. PROVIDE CONCRETE ENCASEMENT WHERE INDICATED ON THE DRAWIINGS OR AS DIRECTED BY THE ENGINEER.

CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		
DETAIL TITLE		DETAIL NO.
WATER LINE CREEK CROSSING DETAIL		32.1

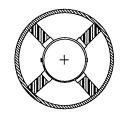


1. ALL JOINTS IN D.I.P., M.J. USED IN CREEK CROSSINGS SHALL BE RESTRAINED WITH M.J. RETAINER GLANDS—EBAA IRON OR EQUAL.

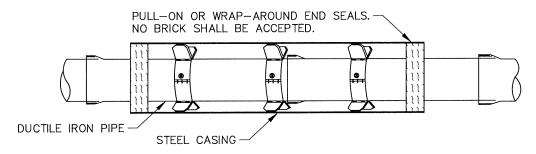
CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE	5, 2021	
DETAIL TITLE		DETAIL NO.
SEWER LINE CREEK CROSSING DETAIL		32.2



STANDARD POSITIONING FOR SANITARY SEWER



CENTERED/RESTRAINED
POSITIONING FOR WATER MAINS
MECHANICAL JOINT PIPE
REQUIRED FOR WATER MAINS



NOTES:

- 1. STEEL PIPE CASING SHALL BE MANUFACTURED FROM STEEL CONFORMING TO ASTM A252 GRADE 2
 AS AMENDED TO DATE, WITH A MINIMUM YIELD STRENGTH OF 35,000 PSI BEFORE COLD FORMING.
 PIPE MAY BE STRAIGHT SEAM OR SPIRAL WELD.
- 2. CASING PIPE SHALL EXTEND A MINIMUM OF 10' BEYOND TOE OF FILL SLOPES, DITCH LINES, EDGE OF PAVEMENT OR BACK OF CURB.
- 3. DUCTILE IRON PIPE SHALL BE RESTRAINED JOINT WITH FIELD LOK-GASKETS.

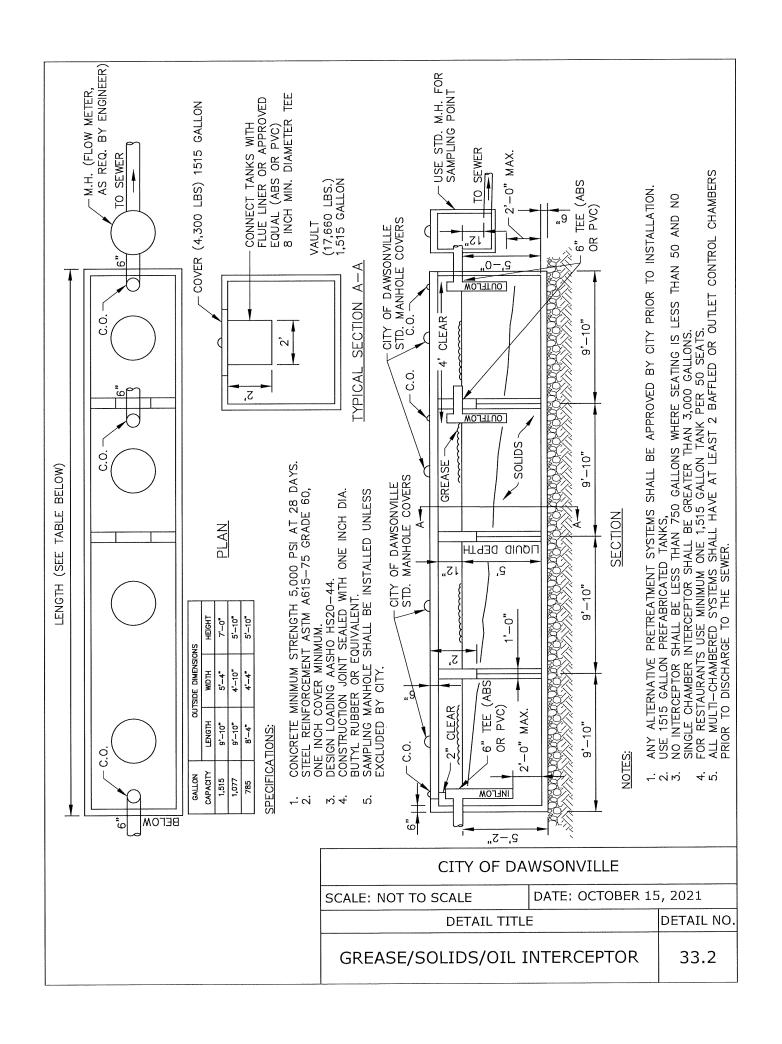
-			
	D.I. PUSH-ON	CASING PIPE	
	JOINT CARRIER	ROADWAY	
	PIPE SIZE	SIZE	THICKNESS*
	4"	10"	.250"
	6"	12"	.250"
	8"	16"	.250"
	10"	16"	.312"
	12"	18"	.312"
	14"	22"	.312"
	16"	24"	.375"
١	18"	30"	.375"
	20"	30"	.500"
	24"	36"	.500"

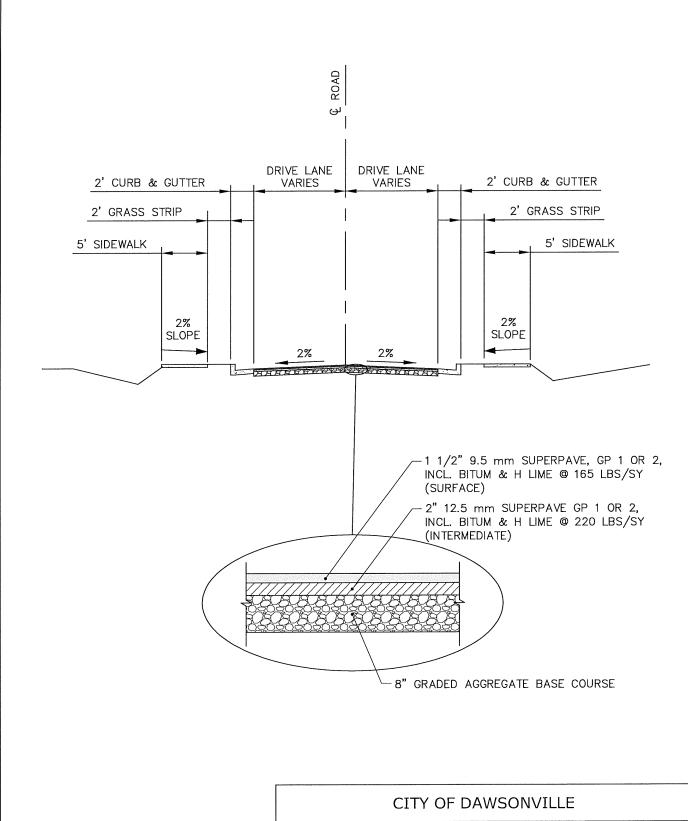
* .063" HAS BEEN ADDED TO MIN. FOR CORROSION ALLOWANCE

SPACER NOTES:

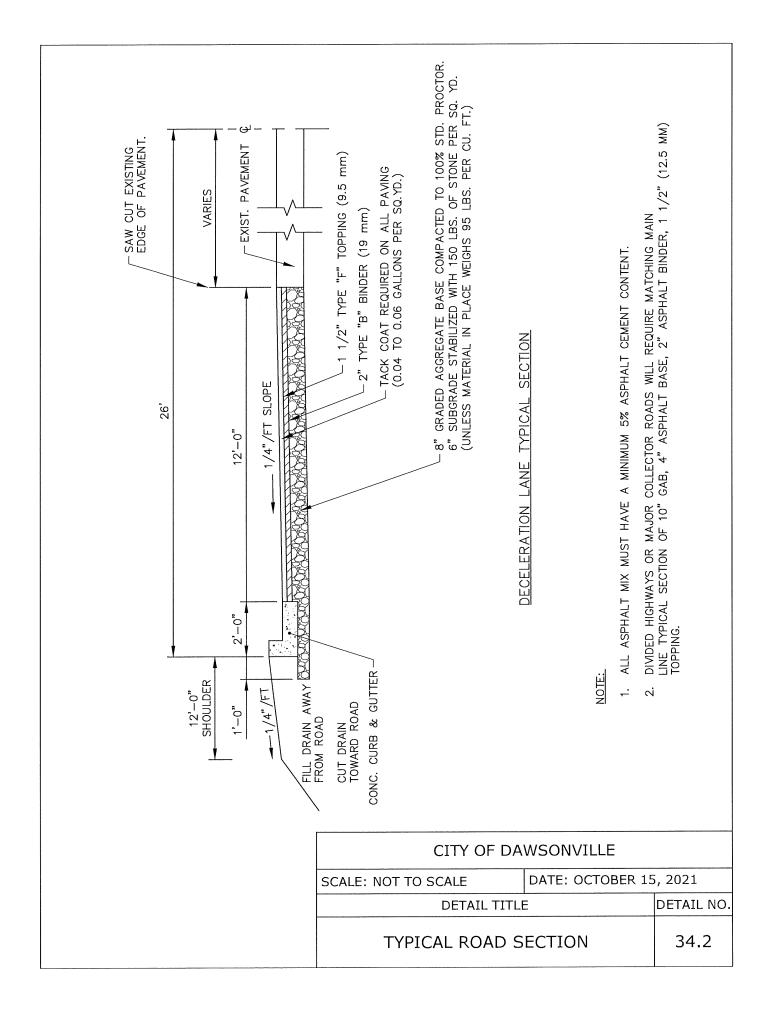
- 1. SPACER OPTIONS: 8" WIDE BAND OR 12".
- 2. APPROVED TYPES ARE CASCADE OR PSI.
- 3. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS STANDARDS.
- 4. WOODEN SKIDS SHALL NOT BE ACCEPTABLE.

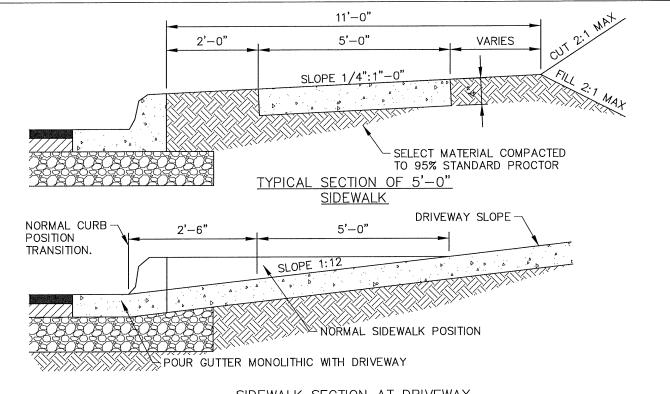
CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		5, 2021
DETAIL TITLE		DETAIL NO.
TYPICAL ENCASED CROSSING DETAIL		33.1



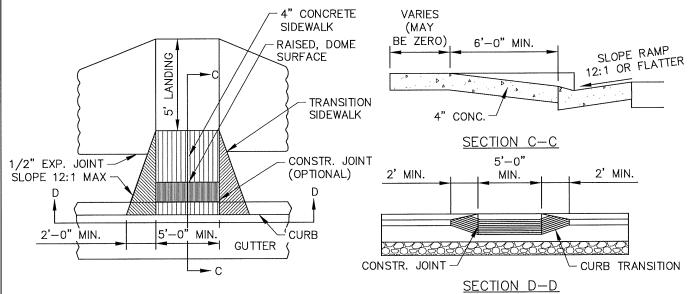


CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE	DATE: OCTOBER 15	5, 2021
DETAIL TITLE		DETAIL NO.
TYPICAL SECTION SUBDIVISION ROAD		34.1





SIDEWALK SECTION AT DRIVEWAY (STREET WITH CURB & CUTTER)



TYPICAL SIDEWALK TO CURB TRANSITION DETAILS (MODIFY AS NECESSARY FOR CURVE)

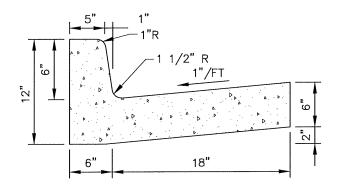
 1/2" PREMOULDED EXPANSION JOINT AT DRIVEWAYS, CATCH BASINS AND AT MIN. 60'-0" O.C. HORIZONTALLY.

2. MATERIAL OF 95#/CU. FT. OR BETTER OF SELECT MATERIAL.

NOTE:

- 3. ALL EXPOSED UNPAVED AREAS TO BE COVERED WITH A STAND OF GRASS.
- 4. SIDEWALK TO BE CONSTRUCTED OF CLASS "A" 3,000 P.S.I. CONCRETE.
- 5. ALL CURB CUTS AREA TO BE SAW CUT PERPENDICULAR TO CURB LINE. CONTRACTION JOINTS 3/8" WIDE X 1/2" DEEP EVERY 10'.

CITY OF DAWSONVILLE SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021 DETAIL TITLE DETAIL NO. TYPICAL SECTION OF A 5'-0" SIDEWALK 35.1

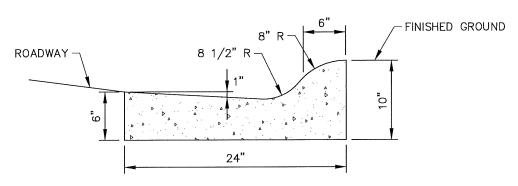


24" STANDARD CURB

6" X 24" X 12"
3,000 P.S.I. CONC. @ 28 DAYS
1/2" EXPANSION JOINTS OR PREMOLDED BITUMINOUS
EXPANSION JOINT MATERIAL SHALL BE PROVIDED AT ALL
STRUCTURES AND RADIUS POINTS & AT INTERVALS NOT TO
EXCEED 200' IN THE REMAINDER OF THE CURB & GUTTER.

*REQUIRED FOR COMMERCIAL USE AND NEGATIVE GRADE CUL-DE-SACS.

NOTE: CONTRACTION JOINTS SHALL BE INSTALLED 1/2" DEEP AT 10' INTERVALS HOT & COLD WEATHER PROTECTION MUST BE PROVIDED PER GDOT SPEC.

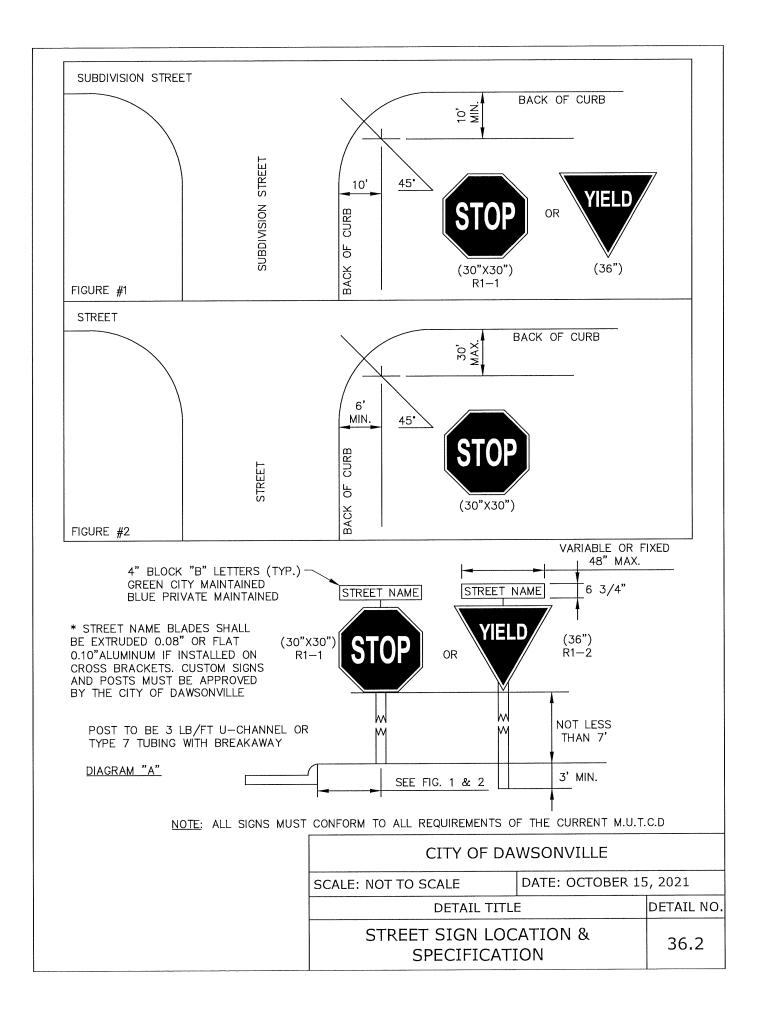


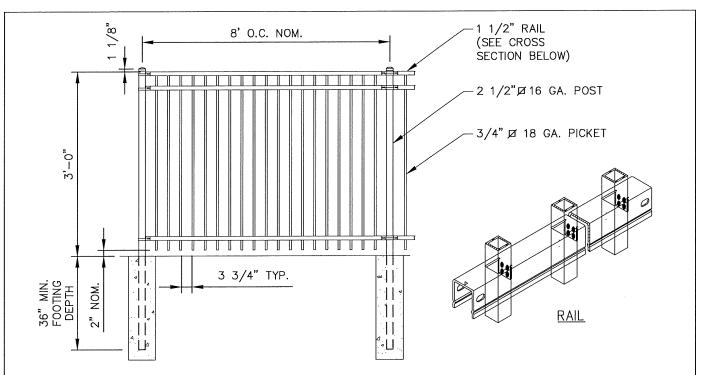
TYPICAL ROLL CURB

3,000 P.S.I. CONC. @ 28 DAYS
1/2" EXPANSION JOINTS OR PREMOLDED BITUMINOUS
EXPANSION JOINT MATERIAL SHALL BE PROVIDED AT ALL
STRUCTURES AND RADIUS POINTS & AT INTERVALS NOT TO
EXCEED 200' IN THE REMAINDER OF THE CURB & GUTTER.

NOTE: CONTRACTION JOINTS SHALL BE INSTALLED 1/2" DEEP AT 10' INTERVALS HOT & COLD WEATHER PROTECTION MUST BE PROVIDED PER GDOT SPEC.

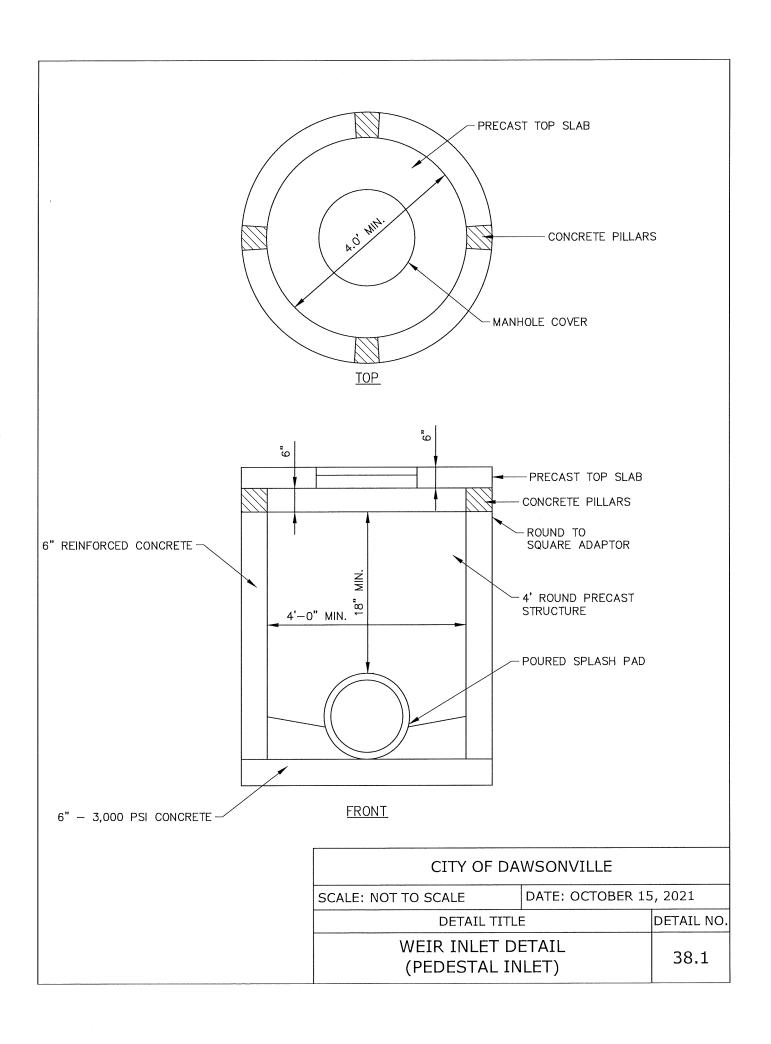
CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		, 2021
DETAIL TITLE		DETAIL NO.
STANDARD CONSTRUCTION DETAILS - CURBING		36.1

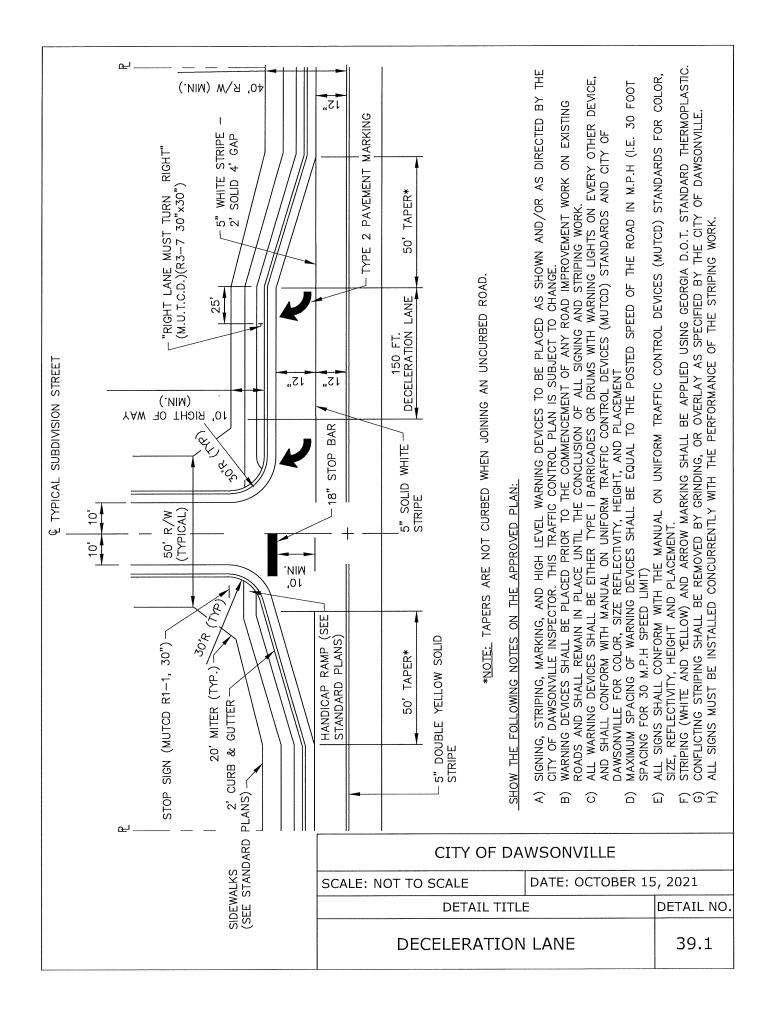


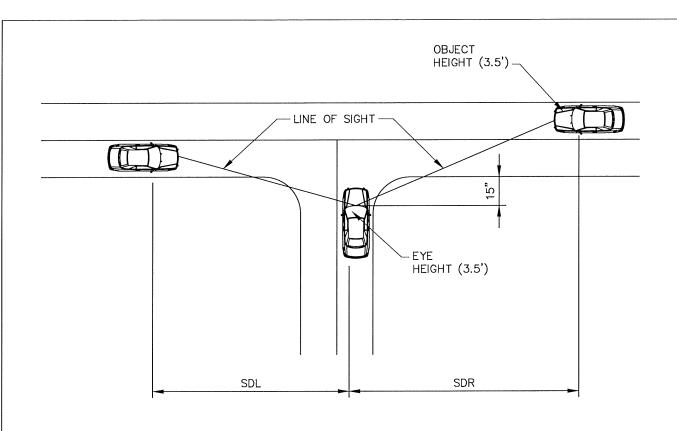


- 1. WELDED ORNAMENTAL STEEL FENCE SYSTEM SHALL BE MONTAGE PLUS, MAJESTIC STYLE 3-RAIL PANELS WITH 4" AIR GAP MANUFACTURED BY AMERISTAR.
- 2. SHOP DRAWINGS SHALL BE SUBMITTED AND APPROVED PRIOR TO CONSTRUCTION.
- 3. UPON RECEIPT AT THE JOB SITE, ALL MATERIALS SHALL BE CHECKED TO ENSURE THAT NO DAMAGE OCCURRED DURING SHIPPING OR HANDLING. MATERIALS SHALL BE STORED IN SUCH A MANNER TO ENSURE PROPER VENTILATION AND DRAINAGE, AND TO PROTECT AGAINST DAMAGE, WEATHER AND VANDALISM.
- 4. ALL STRUCTURAL FENCE COMPONENTS (I.E. RAILS, PICKETS, AND POSTS) SHALL BE WARRANTED WITHIN SPECIFIED LIMITATIONS, BY THE MANUFACTURER AS STATED IN THE PRODUCT WARRANTY. WARRANTY SHALL COVER ANY DEFECTS IN MATERIAL FINISH, INCLUDING CRACKING, PEELING, CHIPPING, BLISTERING OR CORRODING.
- 5. REIMBURSEMENT FOR LABOR NECESSARY TO RESTORE OR REPLACE COMPONENTS THAT HAVE BEEN FOUND TO BE DEFECTIVE UNDER THE TERMS OF MANUFACTURES WARRANTY SHALL BE GUARANTEED FOR FIVE (5) YEARS FROM DATE OF ORIGINAL PURCHASE.
- 6. STEEL MATERIAL FOR FENCE PANELS AND POSTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A653/A653M, WITH A MINIMUM YIELD STRENGTH OF 45,000 PSI (310 MPA) AND A MINIMUM ZINC (HOT-DIP GALVANIZED) COATING WEIGHT OF 0.60 OZ/FT2 (184 G/M2), COATING DESIGNATION G-60.
- 7. MATERIAL FOR PICKETS SHALL BE 5/8"SQUARE X 18 GA. TUBING. THE RAILS SHALL BE STEEL CHANNEL, 1.25"X 0.92" X 14 GA. PICKET HOLES IN THE RAIL SHALL BE SPACED (SPECIFY 4.334"O.C. FOR STANDARD PICKET SPACE). FENCE POSTS SHALL BE A MINIMUM OF 2"SQUARE X 16 GA.
- 8. WHEN CUTTING/DRILLING RAILS OR POSTS ADHERE TO THE FOLLOWING STEPS TO SEAL THE EXPOSED STEEL SURFACES;
 1) REMOVE ALL METAL SHAVINGS FROM CUT AREA. 2) APPLY ZINC—RICH PRIMER TO THOROUGHLY COVER CUT EDGE
 AND/OR DRILLED HOLE; LET DRY. 3) APPLY 2 COATS OF CUSTOM FINISH PAINT MATCHING FENCE COLOR. FAILURE TO
 SEAL EXPOSED SURFACES PER STEPS 1—3 ABOVE WILL NEGATE WARRANTY. AMERISTAR SPRAY CANS OR PAINT PENS
 SHALL BE USED TO PRIME AND FINISH EXPOSED SURFACES; IT IS RECOMMENDED THAT PAINT PENS BE USED TO
 PREVENT OVERSPRAY. USE OF NON—AMERISTAR PARTS OR COMPONENTS WILL NEGATE THE MANUFACTURES'WARRANTY.

9. THE COLOR SHALL BE BLACK.	CITY OF DAWSONVILLE		
	SCALE: NOT TO SCALE	DATE: OCTOBER 1	5, 2021
	DETAIL T	ITLE	DETAIL NO.
	ORNAMENTAL STE		37.1







ARTERIAL SPEED,	SIGHT DISTANCE, FT				
MPH	2 LANE	3 AND 4 LANES		5 AND 6 LANES	
	SDL=SDR	SDL	SDR	SDL	SDR
30	335	350	375	400	420
35	390	410	440	465	490
40	445	470	500	530	560
45	500	530	560	595	630
50	555	590	625	660	700
55	610	650	685	730	770
60	665	705	750	795	840
65	720	765	810	860	910

CITY OF DAWSONVILLE		
SCALE: NOT TO SCALE DATE: OCTOBER 15, 2021		5, 2021
DETAIL TITLE		DETAIL NO.
INTERSECTION SIGHT DISTANCE REQUIREMENTS		40.1



DAWSONVILLE CITY COUNCIL EXECUTIVE SUMMARY FOR AGENDA ITEM #__17___

SUBJECT: STANDARD SPECIFICATIONS FOR ROADWAY AND DRAINAGE SYSTEMS
CITY COUNCIL MEETING DATE: 12/06/2021
BUDGET INFORMATION: GL ACCOUNT #
☐ Funds Available from: Annual Budget Capital Budget Other
☐ Budget Amendment Request from Reserve:Enterprise FundGeneral Fund
PURPOSE FOR REQUEST:
TO REQUEST APPROVAL OF THE UPDATED STANDARD SPECIFICATIONS FOR ROADWAY AND DRAINAGE SYSTEMS
 HISTORY/ FACTS / ISSUES: PRESENTED AT THE 11/15/2021 WORK SESSION FOR REVIEW SPECIFICATIONS LAST UPDATED IN 2018 TYPO CORRECTIONS ADDED NEW STORMWATER INFRASTRUCTURE DEDICATION SECTION UPDATED ROADWAY TYPICAL SECTION UPDATED SIDEWALK SECTION
OPTIONS:
RECOMMENDED SAMPLE MOTION:
REQUESTED BY: David Picklesimer, Planning Director

415 Highway 53 E. Suite 100 Dawsonville, Georgia 30534



(706) 265-3256 Fax (706) 265-4214 www.dawsonville-ga.gov

Date: 10/26/2021

To: Mayor and Council

Reference: Standard Specifications for Roadway and Drainage Systems

The Planning and Zoning Department has provided the following pertinent information to help you decide on this request:

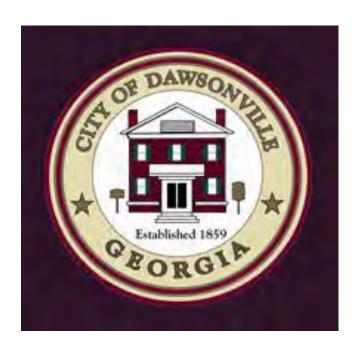
- 1. Planning and Public Works Department request approval of the updated and additional specifications.
- 2. Specifications last updated in 2018.
- Correct typos.
- 4. Added new stormwater infrastructure dedication section.
- 5. Updated roadway surfacing section.
- 6. Updated sidewalk section.

Kindest Regards,

David Picklesimer Planning Director

STANDARD SPECIFICATIONS for

ROADWAY AND DRAINAGE SYSTEMS



CITY OF DAWSONVILLE, GEORGIA

STANDARD SPECIFICATIONS for

ROADWAY AND DRAINAGE SYSTEMS

CITY OF DAWSONVILLE, GEORGIA 415 Highway 53 East

Dawsonville, Georgia 30534 Office: (706) 265- 3256/ Fax: (706) 265- 4214

Prepared by:



Adopted:

DIVISION I GENERAL CONDITIONS

- Section 1: General Conditions
 - 1.01 Scope and Intent
 - 1.02 Cleaning Up
- Section 2: Control of Materials
 - 2.01 Structural Steel
 - 2.02 Concrete Reinforcement Steel
 - 2.03 Concrete Work

DIVISION II: CONSTRUCTION REQUIREMENTS

- Section 1: Clearing
 - 1.01 Description of Work
 - 1.02 Protection of Existing Improvements
 - 1.03 Protection of Existing Trees and Vegetation
 - 1.04 Protection of Existing Utilities, Persons and Property
 - 1.05 Disposal of Waste Material

Section 2: Trenching and Backfilling

- 2.01 Description of Work
- 2.02 Use of Explosives
- 2.03 Stability of Excavation
- 2.04 Bracing and Shoring
- 2.05 Construction Along Highways, Streets and Roadways
- 2.06 Excavation for Trenches
- 2.07 Existing Underground Utilities and Obstructions
- 2.08 Backfilling
- 2.09 Surfacing of Trenches in Unpaved Streets and Driveways
- 2.10 Surfacing of Trenches in Paved Streets and Driveways
- 2.11 Excavation Along Roadway
- 2.12 Dewatering
- 2.13 Material Storage
- 2.14 Excavation Length
- 2.15 Removal of Unsatisfactory Soil Materials
- 2.16 Compaction
- 2.17 Grading

DIVISION III: CONSTRUCTION MATERIALS

Section 1: Storm Sewer Installation

- 1.01 Description of Work
- 1.02 Job Conditions
- 1.03 Quality Assurance
- 1.04 Approved Products
- 1.05 Pipe Foundation
- 1.06 Bedding

TABLE OF CONTENTS

- 1.07 Pipe Laying
- Pipe Connections 1.08
- Line Cleaning 1.09
- 1.10 Leakage and Infiltration
- Storm Water Infrastructure Dedication 1.11

Section 2: Grassing

- 2.01 General
- 2.02 Quality Assurance
- 2.03 Grass Seed
- 2.04 Soil Amendments
- 2.05 Execution

Section 3: Graded Aggregated Base and Subbase

- Sampling and Testing 3.01
- **Aggregate Properties** 3.02
- Execution 3.03

Section 4: Pavement Removal and Repair

- 4.01 Scope
- 4.02 Traffic Control
- 4.03 Weather Limitations
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SECTION 1: GENERAL CONDITIONS

1.01 Scope and Intent

The work covered by this Section of the Specifications consists of all materials and work necessary for clearing, excavating, trenching, backfilling, grading and installing stormwater piping, roadways and sidewalks within the City of Dawsonville.

1.02 Cleaning Up

Before the work shall be considered complete, all material not used and rubbish of every character must be removed from the streets and placed at point designated by the City; all streets, sidewalks, curbs, fences and other private or public facilities and structures disturbed must be essentially in as good condition as existed before the work was done. Any subsequent settlement of backfill or pavement over trenches shall be replaced by the Contractor and the surfaces brought to grade.

SECTION 2: CONTROL OF MATERIALS

2.01 Structural Steel

The following inspections are required for structural steel:

- A. Any Quantity: Field inspection for rust, shape, and dimensions
- B. 25 to 200 Tons: Independent shop inspection and certified copies of mill tests
- C. For Structures and Buildings: See ASTM A-36

2.02 Concrete Reinforcement Steel

The following inspections are required for structural steel:

- A. Up to 50,000 Pounds: Field inspection for rust, shape and dimensions
- B. 50,000 Pounds and Up: Independent laboratory inspection as follows:
 - 1. Billet Steel ASTM A-615
 - 2. Roll Steel ASTM A-616
 - 3. Cold-Drawn Steel Wire ASTM A-82
 - 4. Wire Fabric ASTM A-185

2.03 Concrete Work

- A. Concrete of the respective classes for bedding, blocking, walks, roads, headwalls, piers and other miscellaneous structures shall be as called for in the work to which they pertain.
- B. <u>Cement</u>: Cement shall satisfy the requirements of ASTM C150, Type I or Type II, as amended to date.
- C. <u>Aggregate</u>: Aggregate shall satisfy the requirements of ASTM C33, as amended to date.
- D. <u>Water</u>: Water shall be fresh, clean and free from injurious amounts of oil, acid, alkali, and organic materials.
- E. <u>Mixing</u>: Mixing shall be accomplished at a central mix plant unless prior approval is given by the Engineer for mixing on the job site.
- F. <u>Concrete from a Central Mix Plant</u>: Concrete supplied from a central mix plant shall have 28-day compressive strengths not less than those listed below:

• Class A: 3,000-psi

• Class B: 2,200 psi

• Class C: 1,500 psi

G. <u>Concrete Mixed on Jobsite</u>: Concrete mixed on the jobsite shall have 28-day compressive strengths as above and shall contain not less than the following quantities of cement per cubic yard.

• Class A: 564 pounds (6 bags)

• Class B: 470 pounds (5 bags)

• Class C: 376 pounds (4 bags)

- H. <u>Concrete Cylinders</u>: Concrete cylinders for testing purposes shall be made in accordance with the procedure described in ASTM C31 as amended to date. Compression tests shall be made at the age of 7 days and 28 days by the testing laboratory as per ASTM C39 as amended to date. Testing shall be done by a laboratory approved by the Engineer. All costs of testing will be paid by the Contractor. Each test shall consist of at least 4 specimens: 2 for field control and 2 for laboratory control. One initial test will be required and then 1 test for each 100 yards thereafter.
- I. <u>Placing of Concrete</u>: Concrete shall be placed in daylight. Concrete mixed at a central plant shall be transported to the jobsite as per ASTM C94 as amended to date. Concrete when placed shall be compacted with mechanical, internal-vibrating equipment and/or with hand spading with a slicing rod. No concrete shall be placed when the atmospheric temperature is below 35° F. If the temperature drops below 35° after concrete is placed, the Contractor shall enclose, heat and protect the concrete. Earth fill shall not be placed on concrete until concrete has been allowed to set for 24 hours.
- J. <u>Form Work</u>: Form work, where required, shall be built to conform to the shape, lines and dimensions of the concrete work as shown.

Forms shall be set to line and grade and shall be braced, tied and secured in a manner which will withstand placing of the concrete, and which will maintain shape and position. Forms shall be tight and be substantially assembled to prevent bulging and the leaking of concrete. Joints shall be arranged vertically or horizontally. Temporary openings shall be arranged, where required, at the bottoms of wall forms and elsewhere to facilitate cleaning and inspecting. Lumber used once in forms may be reused once nails are removed and surfaces are thoroughly cleaned. Wall sleeves, inserts and openings required in concrete work shall be properly set in form work. Chamfer strips shall be placed in forms for all exterior corners.

- K. <u>Removing Forms</u>: Under normal conditions, the time elapsing before the forms may be stripped shall not be less than the following:
 - Slabs: 14 days

Columns and Pedestal:

7 days

• Walls and Vertical Faces Not Supporting Other Work:

2 days

L. <u>Finishing</u>: All exposed concrete work shall be kept wetted with water and shall be rubbed with a carborundum stone of medium fineness or with other equally as good abrasive to bring the surface to a smooth texture and to remove all form and other marks. The paste formed by the rubbing may be rubbed down by floating with a canvas float, a carpet-faced float, cork float or dry burlap.

SECTION 1: CLEARING

1.01 Description of Work

The extent of route clearing is the minimum degree of clearing necessary to install utilities and appurtenances, and such additional clearing as may be shown on the drawings or required by other documents. Route Clearing operations include, burbut are not limited to, the following:

- A. Protecting existing improvements, vegetation and persons
- B. Protecting above-grade and underground improvements
- C. Removing trees and other vegetation
- D. Removing above-grade improvements
- E. Removing underground improvements
- F. Restoring damaged improvements

1.02 Protection of Existing Improvements

Existing improvements shall be protected. Provide barricades, coverings, or other types of protection necessary to prevent unnecessary damage to existing improvements. Protect improvements on adjoining properties as well as those along the project route. Restore improvements damaged by this work to their original condition as acceptable to the owners or other parties or authorities having jurisdiction. Any property line monuments (such as iron pins) removed or disturbed by clearing operations shall be replaced by a Georgia registered land surveyor.

1.03 Protection of Existing Trees and Vegetation

Existing trees and other vegetation shall be protected against unnecessary cutting, breaking or skinning of roots, skinning and bruising of bark, smothering of trees by stockpiling construction material within drip lines, excess foot or vehicular traffic, or parking of vehicles or equipment within drip line. Provide temporary fences, barricades or guards as required to protect trees and vegetation to be left standing.

1.04 Protection of Existing Utilities, Persons and Property

Prior to commencing other work, accurately locate above and below ground utilities and structures which may be affected by the Work, using whatever means be appropriate. Mark the location of existing utilities and structures, not otherwise readily visible, with flagging, stakes, barricades, or other suitable means. Barricade open excavations and post warning lights for safety of persons. Operate warning lights during hours from dusk to dawn each day. Protect structures, utilities, sidewalks, pavements, and other facilities immediately adjacent to excavations, from damage caused by settlement, lateral movement, undermining, washout and other hazards.

1.05 Disposal of Waste Material

All waste materials resulting from clearing operations shall be disposed of in accordance with applicable regulations of the Georgia Department of Natural Resources, Environmental Protection Division.

SECTION 2: TRENCHING AND BACKFILLING

2.01 Description of Work

Trenching consists of removal and disposal of material encountered to obtain required sub-grade elevations, usually, but not necessarily limited to that incidental to installation or modification of underground pipelines and appurtenances. Unauthorized trenching consists of removal of materials beyond indicated sub-grade elevations or dimensions without specific authorization of the City. Do not permit any hazardous condition to result from trenching and backfilling operations. Pavement removal and replacement is specified in Division III, Sections 4.08 and 4.09.

2.02 Use of Explosives

Explosives are not permitted on site or for use in work without prior written permission from the City. Use explosives only as legally permitted and when other work methods are impractical. Contractor assumes sole responsibility for handling, storage, and use of any explosive materials

2.03 Stability of Excavation

Slope sides of excavations to comply with Subpart P of Part 1926 of the Occupational Safety and Health Act as amended. Shore and brace or use a trench box where sloping is not possible either because of space restrictions or stability of material excavated. Maintain sides and slopes of excavations in a safe condition until completion of backfilling.

2.04 Bracing and Shoring

Take precautions and provide necessary bracing and shoring to guard against movement or settlement of existing improvements or new construction. Contractor is entirely responsible for strength and adequacy of bracing and shoring, and for safety and support of construction from damage or injury caused by the lack thereof or by movement or settlement. Use work methods and provide temporary facilities as necessary to prevent washing, erosion, siltation or dust damage, or hazard to persons and property, within and outside the work area. Place excavated material compactly alongside the trench, and keep such material trimmed up so as to present the least practicable inconvenience to the public.

Provide portable trench boxes and materials for shoring and bracing, such as sheet piling, uprights, stringers and cross-braces, in good serviceable condition. Provide trench boxes and/or shoring and bracing to comply with Subpart P of Part 1926 of the Occupational Safety and Health Act as amended.

2.05 Construction Along Highways, Streets and Roadways

The Contractor shall install pipe linespipelines and appurtenances along highways, streets and roadways in accordance with the applicable regulations of the Georgia Department of

Transportation and the City with reference to construction operations, safety traffic control, road maintenance and repair.

- A. Protection of Traffic: The Contractor shall provide suitable signs, barricades and lights for protection of traffic in locations where traffic may be endangered by construction operations. All highway signs removed due to construction shall be replaced as soon as the conditions permit. No highways, streets or roadways shall be closed without first obtaining permission from the proper authorities. Before any roadway is blocked, the Contractor shall notify the City/Engineer. The Contractor must obtain approval from the City before street signs are removed and reinstalled.
- В. Construction Operations: The Contractor shall construct all work along highways, streets and roadways using the following sequence of construction operations so as to least interfere with traffic:
 - 1. Stripping: Where the pipe linepipeline is laid along road shoulders, all sod, topsoil and other material suitable for shoulder restoration shall be stripped and stockpiled for replacement.
 - 2. Trenching, Laying and Backfilling: The Contractor shall open trenches, install pipe linepipeline and backfill. The trench shall not be opened any further ahead of pipe laying operations than necessary for proper laying operations, and trenches shall be progressively backfilled and consolidated. Excess material shall be removed immediately behind the laying operations.
 - The Contractor shall install pipe linespipelines across highways in accordance with the applicable regulations of the Georgia Department of Transportation and railway authorities.
 - 3. Shaping: The Contractor, immediately after completing backfilling operations, shall reshape any damaged cut and fill slopes, side ditches and ditch lines, and shall replace topsoil, sod and any other materials removed from shoulders in accordance with the requirements of and to the full and complete satisfaction of the Georgia Department of Transportation and the The Contractor, when installing pipe linespipelines and City. appurtenances, will be required to provide sufficient personnel and equipment to simultaneously carry out all of the above operations.
 - If required to accommodate Contractor's operation, construction easements shall be obtained. The Contractor shall pay all costs of any construction easements.
- C. Excavated Material: Excavated material shall not be placed along highways, streets and roadways in such a manner as to obstruct traffic. No scattered

- excavated material shall be allowed to remain on the pavement, and all such material shall be kept swept away.
- D. <u>Drainage Structures</u>: All side ditches, culverts, cross drains and other drainage structures shall be kept clear of excavated material and be free to drain at all times.
- E. <u>Maintaining Highways</u>, Streets, Roadways and Driveways: The Contractor shall furnish a road grader, which shall be available for use at all times, for maintaining highways, streets, and roadways upon which work is being performed. All such highways, streets, and roadways shall be maintained in suitable condition for movement of traffic until completion and final acceptance of the work.
- F. <u>Encroachment Permits</u>: All costs for obtaining required Georgia Department of Transportation permits shall be paid by the Contractor. The Contractor shall be responsible for fully understanding and knowing all Department of Transportation regulations and conditions relating to <u>pipe linepipeline</u> installation.

2.06 Excavation for Trenches

Excavation of pipe trenches shall include all excavation of every description and whatever substance encountered and shall include disposal of all rock excavation and shall include disposal of excess earth excavation not required for backfilling of trenches. The area directly surrounding the excavation shall be graded to direct storm water runoff away from the trench.

- A. <u>Depth of Trenches</u>: The minimum cover over the top of the pipe shall be 4' unless otherwise directed by the Engineer. Where obstructions are encountered, minimum depth may be changed to avoid interference.
- B. <u>Width of Trenches</u>: Trenches shall be excavated sufficiently wide to allow proper installation of pipe, fittings and other materials and to not less than 6" clear of the outside barrel of the pipe on any side at any point.
- C. <u>Bell Holes</u>: Bell holes of ample depth and width shall be excavated in pipe trenches at the location of each joint to permit the joint to be properly made.
- D. <u>Crushed Stone Stabilization</u>: Wherever the subgrade is by nature too soft or mucky in the opinion of the Engineer for the proper installation of the pipe, the Engineer may order the Contractor to undercut the trench and backfill with crushed stone or gravel, ³/₄" in size and less. The stone shall be placed and brought to the grade required for the particular location and compacted.

2.07 Existing Underground Utilities and Obstructions

Where unforeseen underground utilities or obstructions are encountered, minimum depth of cover or the location and alignment may be changed upon written approval of the Engineer to avoid interference. The Contractor is responsible for determining the exact

location of all utilities before beginning construction. Damage to existing utility lines, services, poles and structures shall be repaired or replaced by the Contractor at his own expense.

The Contractor shall furnish and have available at all times an electronic pipe and cable locator in working order for the purpose of locating existing pipe linespipelines or other obstructions in the way or are along the route of the new work.

2.08 **Backfilling**

Backfill excavations as promptly as work permits. Use acceptable trench excavated soil material, free of stumps, trees, roots, muck, trash and other objectionable matter. The Contractor shall furnish all equipment and labor, and when necessary the material, required for backfilling the pipe-line trenches as follows:

A. Selected Backfilling: All trenches shall be backfilled immediately after pipes are laid therein, and joints have been inspected by the Engineer unless other protection of the pipe linepipeline is directed. Selected backfill material shall consist of finely divided earthstone dust, sand, crushed stone or other approved material carefully placed about the pipe and up to a height of at least 12" above the top of the pipe barrel, and in uniform layers not exceeding 6" in thickness, each layer thoroughly compacted with proper hand tools in a manner which will not disturb and/or injure the pipe. Backfilling shall be carried on simultaneously on both sides of the pipe and in a manner which will prevent injurious side If suitable select materials are not available from the trench pressures. excavation, the Contractor will be required to obtain the select materials elsewhere.

When testing for leaks in open trenches, backfilling shall not be done until after all testing has been completed and all leaks eliminated.

В. General Backfilling: After selected backfill material has been placed and tamped, the remainder of the trench may be backfilled with general excavated material provided such material does not contain more than 1/3 broken rock of which no single stone or boulder shall be larger than can easily be removed with a hand shovel. Backfill material shall be placed in uniform layers not exceeding 12" in thickness; each layer shall be thoroughly compacted with heavy-duty power tamping tools of the full satisfaction of the Engineer. The use of pneumatic power "Jumping Jack" tampers will not be permitted. Wherever the trenches have not been properly filled or if settlement occurs, they shall be refilled, smoothed off, and made to conform to the surface of the ground. Backfilling shall be carefully performed, and the original surface restored to the full satisfaction of the Engineer. Surplus material shall be disposed of by the Contractor.

- C. Outside Streets, Roads, etc.: At locations outside streets, roads, walks or other traveled ways open to vehicular or pedestrian travel, the backfill material shall be windrowed and maintained in a suitable manner to concentrate and pond rainfall runoff over the trench. After sufficient settlement has been obtained, the Contractor shall complete surface dressing, remove surplus material, and clean up in accordance with these Specifications. Wherever the trenches have not been properly filled or if settlement occurs, they shall be refilled, smoothed off, and made to conform to the surface of the ground. Backfilling shall be carefully performed, and the original surface restored to the full satisfaction of the Engineer. Surplus material shall be disposed of by the Contractor.
- D. Areas Requiring Pavement Replacement: Mechanical tamping will be required of all backfilling of excavated portions. After backfilling and tamping as described above is completed the top 6" of the ditch shall be backfilled with compacted crushed stone, ASTM C33 gradation #67 or #57 as amended to date, with sufficient fines for compaction. Further compaction shall be accomplished by leaving the backfilled trench open to traffic while maintaining the surface with stone. Settlement in trenches shall be refilled with stone and such maintenance shall continue until replacement of pavement is authorized by the Engineer.

2.09 **Surfacing of Trenches in Unpaved Streets and Driveways**

Where pipe linespipelines are constructed on unpaved streets, roads or driveways, the surfacing material shall be stripped and windrowed separately from the general material excavated from trenches. After the line has been installed and the backfill completed within 6" of the original street grade, the salvaged surface shall be replaced. This work shall be considered as general cleanup along with the removal of surplus excavation materials from the street surface and the restoring of the topsoil surfacing outside trench limits to its original condition.

2.10 **Surfacing of Trenches in Paved Streets and Driveways**

Where trenches are in paved streets and driveways, the remaining 6" of backfill up to the traveled surface shall be made with crushed stone, ASTM C33 Gradation #67 or #57 as amended to date, with sufficient fines for compaction. Trenches shall be compacted and maintained until pavement is replaced.

2.11 **Excavation Along Roadway**

Where necessitated by traffic conditions, remove from the roadway the first material excavated from a working length of trench so that further excavation is immediately used for backfilling, and thereby avoid stockpiling of material upon the roadway. Afterward, return first excavated material if needed for final backfilling. Maintain all streets, alleys, sidewalks, pipe crossings, fire hydrants, water and gas valves, and other utilities accessible for their intended use except while the work is steadily advancing in the immediate vicinity of each such facility. Keep every drain, gutter, culvert, sewer, and surface drainage route encountered, open for both temporary and permanent flow unless other effective provision for drainage is made.

2.12 Dewatering

Perform earthwork in a manner to prevent surface water and minimize subsurface or ground water from flowing into excavations, and to prevent water from flooding project work and surrounding area. Do not allow water to accumulate in excavations. Remove water using dewatering methods which will prevent softening of foundation bottoms, undercutting footings, and soil changes detrimental to stability of sub-grades and foundations. Provide and maintain pumps, sumps, suction and discharge lines, and other de-watering system components necessary to convey water away from excavations. Limit opening of additional trench length to that which can be de-watered with available equipment or methods.

2.13 Material Storage

Locate and retain materials away from edge of trench.

2.14 Excavation Length

Limit open trench excavation to a maximum of 300 feet ahead of completed backfill.

2.15 Removal of Unsatisfactory Soil Materials

To the extent necessary, over-excavate those soil materials which are unsatisfactory in the opinion of the City and backfill with approved materials.

2.16 Compaction

Control soil compaction during construction providing minimum percentage of density specified for each area classification. Percentage of Maximum Density Requirements: Achieve not less than the following percentages of maximum density of soil material compacted at optimum moisture content, for each layer of soil material-in-place as determined by ASTM D 698 (Standard Proctor) test procedures:

- A. <u>Rights-of-Way</u>: Conform with the more stringent requirements of the permit issuing authority and the requirements herein.
- B. <u>Roadways</u>: Under and within five feet horizontal distance of traffic using surfaces, compact each layer of backfill and fill material to 95 percent of maximum dry density.
- C. <u>Walkways</u>: Under and within two feet horizontal distance of paved walks, compact top six inches of subgrade and each layer of backfill and fill material to 95% of maximum dry density.

- D. <u>Driveways and Parking Lots</u>: Under and within two feet horizontal distance of traffic using surfaces, compact each layer of backfill and fill material to 95 percent of maximum dry density.
- E. <u>Lawn or Unpaved Areas</u>: Compact each layer of backfill or fill material to 85 percent of maximum dry density.
- F. <u>Spoil Areas</u>: Compact each layer of backfill or fill material to 85 percent of maximum dry density.

2.17 Grading

Uniformly grade areas within limits of earthwork, including adjacent transition areas. Smooth and compact finished surface within specified tolerances, with uniform levels or slopes between points where elevations are shown, or between such points and existing grades, or between existing grades.

- A. <u>Grading Outside Structures</u>: Grade finished areas adjacent to structures to drain away from structures (except drainage inlets), and to prevent ponding. Finish surfaces free from irregular surface changes, and as follows:
- B. <u>Grassed or Landscaped Areas</u>: Finish areas to within not more than 0.10 feet above or below the required elevations.
- C. Walks and Pavements: Shape surface of areas under walks and pavements to line, grade and cross-section, with finish surface not more than 1.5 inches above or below the required subgrade elevation.

SECTION 1: STORM SEWER INSTALLATION

1.01 Description of Work

- A. Foundation preparation
- B. Furnishing and laying gravity storm sewer pipe.
- C. Furnishing and/or constructing drainage structures and appurtenances.
- D. Cleaning constructed work
- E. Related Work Specified Elsewhere:
 - 1. Route Clearing
 - 2. Trenching and Backfilling
 - 3. Pavement Removal and Repair

1.02 Job Conditions

- A. <u>Traffic Control</u>: Schedule and conduct Work in a manner which will minimize inconvenience to vehicular and pedestrian traffic. Provide flaggers, barricades, warning signs, warning lights, and other warning means as appropriate. Flaggers, when utilized, must hold a valid Georgia D.O.T. flagging certificate. Maintain traffic on all roads and streets which must be crossed by sewer lines. All traffic controls during construction must conform to Part VI of the Manual on Uniform Traffic Control Devices, ANSI D6.le.
- B. <u>Weather Limitations</u>: Conduct all operations during weather conditions appropriate to the work being performed.

1.03 Quality Assurance

- A. <u>Manufacturer Experience</u>: Furnish manufactured products produced by firms having regularly produced such items as specified herein which have proven satisfactory in actual service over at least a two year period, as determined by the City.
- B. <u>Imperfections</u>: Regardless of tolerances permitted by industry standards specified herein, the City may reject pipe or precast structures at the manufacturing plant or project site, which have cracks, chips, blisters, lack of smooth interior or exterior surface, evidence of structural weakness, porosity, joint defect, significant variation from theoretical shape, or other imperfection which might, in the opinion of the City, contribute to a reduced functional capability, accelerated deterioration, or reduced structural strength.
- C. <u>Repairs</u>: Do not use patched or repaired pipe or precast structures unless each individual length or element has been approved and marked for repair by the City

at the manufacturing plant. Repairs, other than at the manufacturing plant, are not permitted.

1.04 Approved Products

- A. <u>Reinforced Concrete Drain Pipe</u>: Class III Reinforced Concrete pipe shall be used for all storm drainage pipe where indicated on the drawings. Pipe may be either ball and spigot or tongue and groove.
 - 1. <u>Testing and Stamping</u>: All pipe, joint materials, and made-up joints shall be tested by an independent laboratory approved by the Engineer. Pipe shall be stamped with laboratory's stamp. Such stamp shall be an indication that it was accepted in accordance with applicable ASTM Specifications, and that it was inspected and accepted in accordance with the requirements of this Section for special tests and for pipe quality. The results of required independent laboratory tests shall be promptly submitted to the Engineer.
 - 2. Pipe shall be as follows and shall conform to the following ASTM Specifications:
 - a. <u>Size 18" and Larger</u>: All pipe shall be <u>reinforced</u> and shall be 'B' wall. Pipe 18" and above shall be furnished in lengths of at least 8'.
 - b. <u>Cement and Coarse Aggregate</u>: Cement shall be Type II or approved equal. Coarse aggregate shall be crushed granite or limestone.
 - c. <u>Wire Reinforcement</u>: Wire reinforcement used in the pipe shall conform to the standard Specifications.
 - d. <u>Steam Curing</u>: Steam curing of concrete pipe shall conform to the standard Specifications except when temperatures fall below an average of 40° F. Curing shall be continuous for 24-hour period, except for the interval when forms and/or rings are removed.
 - e. <u>Minimum Crushing Strength</u>: All pipe, when tested by the 3-edge bearing method in accordance with ASTM C 497, shall be minimum strength (defined as the load to produce a 0.01" crack for reinforced pipe) of not less than the following values:

MINIMUM STRENGTHS, POUNDS PER LINEAR FEET Reinforced Pipe

	Table 3	Table	e 4 or 5
Pipe Size	Class III	Class IV	Class V
15"		2,500	3,750
18"	2,025	3,000	4,500
21"	2,360	3,500	5,250
24"	2,700	4,000	6,000
30"	3,375	5,000	7,500
36"	4,050	6,000	9,000
42"	4,725	7,000	10,500
48"	5,400	8,000	12,000
54"	6,075	9,000	13,500
60"	6,750	10,000	15,000
66"	7,425	11,000	16,500
72"	8,100	12,000	18,000

- f. <u>Absorption</u>: Absorption shall not exceed 6% when determined in accordance with ASTM C 497.
- g. <u>Joints</u>: Pipe may have O-ring rubber gasket type joints conforming with the applicable provisions of ASTM C 443, or pipe may be tongue and groove with mastic or mortar joint.
- h. <u>Repaired Pipe</u>: Repaired and patched pipe will not be acceptable unless each individual pipe, so repaired or patched, shall have first been inspected and approved by the Engineer for repair and patching at the pipe plant.
- i. <u>Shear Loading Test</u>: Made-up gasketed joints shall be tested for shear loading at a total load of 100 pounds per inch of diameter including the weight of the pipe, water and test apparatus.
- B. <u>Corrugated Steel Drain Pipe</u>: Corrugated steel drain pipe shall be furnished and constructed in accordance with the Department of Transportation, State of Georgia, Standard Specifications Constructions of Roads and Bridges, latest edition, and these Specifications. Pipe shall be galvanized and fully bituminous coated with a paved invert filling the corrugations for at least 25% of the circumference. The bituminous coating shall be a minimum thickness of 0.05″, measured to the crest of corrugations. Pipe corrugations shall be 2-½3″ x ½″. Band shall be in accordance with WW-P-405-B 3.3.4.2. The projections of the

bands shall conform substantially to the shape and depth of the pipe corrugations and shall be in circumferential rows with no less than seven projections per row. Required nuts and bolts shall be furnished with the band. Culvert pipe shall be 16-gauge through 24" diameter, 14 gauge for 30" and 36" diameter, 12 gauge for 42" through 54" diameter, 10 gauge for 50" through 72" diameter, and 8 gauge for 78" and 84" diameter.

The pipe shall have a duct tape (a type that will adhere and leave the heat number legible when removed) placed over one complete heat number before the bituminous coating is applied. This tape shall be located as close to the end of the pipe as the heat number will allow and from under the paved invert. All individual joints of pipe require this procedure.

Copies of certified mill test reports showing heat numbers, the chemical analysis and weight of spelter coated for each heat, lift of coil number, case, size and type of material used to fabricate this pipe will be mailed to the Engineer, City and Contractor within 5 calendar days of the delivery date of the pipe. Each copy will reference pipe size, number of sections, date of actual delivery to the job so that a positive identification can be made.

C. <u>Corrugated Plastic Pipe</u>: Corrugated flexible conduit with slip-on joints made of polyethylene conforming with ASTM F 405 and F 449. Subject to compliance with requirements, firms offering products which may be incorporated in the work include, but are not limited to, the following: ADS Inc. Hancor Inc.

1.05 Pipe Foundation

A. <u>Foundation for Reinforced Concrete Pipe</u>: Unless otherwise indicated, lay pipe in trenches and on foundations prepared as selected by the Contractor in conformance with the bedding class, trench width and depth, and pipe size tabulated below:

		Cla	ss C Bedo	Cla	ss B Bed	ding	
Pipe	Maximum	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Size	Trench Width	C1. 3	Cl. 4	Cl. 5	C1. 3	Cl. 4	Cl. 5
Inches	Ft-in.						
18	3-3	9	15	30	12	24	30
21	3-6	9	16	30	13	26	30
24	4-0	10	16	30	13	23	30
27	4-0	11	19	30	15	29	30
30	4-6	11	18	30	14	25	30
36	5-6	11	17	29	14	23	30
42	6-0	12	16	26	15	21	30
48	7-0	12	18	28	15	23	30
54	7-6	13	18	29	16	24	30
60	8-6	13	19	28	16	23	30

B. <u>Foundation for Corrugated Plastic</u>: Unless otherwise approved, lay corrugated plastic pipe in trenches, or fills using not less than Class C Modified Bedding and in conformance with the maximum fill depth and pipe size tabulated below:

Pipe Size Inches	Maximum Fill Depth for Corrugated Plastic Pipe in Feet
18	11
24	7

C. <u>Foundation for Bituminous Coated Corrugated Aluminum Pipe</u>: Unless otherwise approved, lay corrugated plastic pipe in trenches, or fills using not less than Class C Modified Bedding and in conformance with the maximum fill depth and pipe size tabulated below:

Maximum Fill Depth In Feet For Bituminous Coated Corrugated Aluminum Pipe With Wall Thickness

Pipe					
Size	0.06 In.	0.075	0.105	0.135	0.164
Inches	(16 Ga.)	(14 Ga.)	(12 Ga.)	(10 Ga.)	(8 Ga.)
18	30	30	52	54	56
24	22	22	39	41	42
30	18	18	31	32	34
36	15	15	26	27	28
42		26	43	43	44
48			40	41	43

1.06 Bedding

- A. <u>Coarse Granular Material For Pipe Bedding</u>: Crushed stone, crushed gravel, natural gravel, or crushed shell meeting ASTM C 33, and having No. 67 gradation (3/4 inch to No.4 sieve).
- B. <u>Fine Granular Material For Pipe Bedding</u>: Uniformly graded natural or manufactured sand composed of hard, durable particles with 100 percent passing a No.4 sieve, not more than 25 percent passing a No. 100 sieve, and containing no more than 25 percent total of silt and clay.
- C. <u>Class B Bedding</u>: Class B Bedding may be achieved by either of the following two construction methods:
 - 1. <u>Shaped Bottom with Tamped Backfill</u>: Shape bottom of trench excavation to conform to a cylindrical surface with a radius at least 2 inches greater than the radius to the outside of the pipe and with a width sufficient to allow six-tenths of the width of the pipe barrel to be bedded in fine granular material fill placed in the shaped excavation. Carefully place and compact backfill at sides of pipe to a thickness of at least 12 inches above

top of pipe. Limit use of this bedding method to trenches with firm bottom and sides.

- 2. Compacted Coarse Granular Bedding With Tamped Backfill: Bed pipe in compacted coarse granular material placed on a flat trench bottom. Thickness of granular bedding must be at least one-fourth the outside pipe diameter, but not less than 4 inches thick under pipe barrel, and extend at least halfway up the pipe barrel at the sides. Carefully place compacted backfill above the granular material up a minimum depth of 12 inches over the top of pipe.
- D. <u>Class C Bedding</u>: Class C Bedding may be achieved by either of the following two construction methods:
 - 1. <u>Shaped Bottom</u>: Bed pipe with ordinary care in an earth foundation formed in the trench bottom by a shaped excavation which fits the pipe barrel with reasonable closeness for a width of at least 50 percent of the outside pipe diameter. Place compacted fill to a minimum depth of six inches above top of pipe.
 - 2. <u>Compacted Coarse Granular Bedding with a Tamped Backfill</u>: Bed pipe in compacted granular material placed on a flat trench bottom. Thickness of granular material must be at least 4 inches under the barrel and must extend one-tenth to one-sixth of the outside diameter up the pipe barrel at the sides. Place compacted backfill above the granular material to a minimum depth of six inches over top of pipe.
- E. <u>Class C Modified Bedding</u>: Class C Modified Bedding is defined as bedding pipe on a bedding blanket of sandy material roughly shaped to fit bottom of pipe. Thickness of bedding blanket must be not less than 0.1 of the nominal pipe diameter. Place compacted backfill above bedding blanket to a minimum depth of 12 inches over the top of pipe.

1.07 Pipe Laying

When either bituminous coated corrugated aluminum or corrugated plastic pipe is used, pipe installation must be observed by a Georgia registered professional engineer engaged by the contractor or developer. Upon completion of the pipe installation and prior to acceptance by the City, the observing engineer is to furnish to the City a certification that the storm drainage pipe has been installed in accordance with the approved plans and these specifications. Acceptance by the City will not be considered without the engineer's certification. Clean interior of pipe and all joints before laying.

When pipe laying activity is not in actual progress, tightly cover open ends of sewer. Avoid permitting mud or other material from entering sever at all times.

Avoid damage or shock in handling pipe and accessories. Inspect each length of pipe, and reject any defective piece. Carefully protect pipe in place from damage or displacement until backfilling operations are complete. Lay and joint pipe in strict conformance with manufacturer's written recommendations as submitted to and accepted by the City.

Where cement joints are used, provide wet burlap or earth protective cover for joints immediately after initial grout set. Maintain protective cover until joint is covered by backfilling.

Lay all pipe upgrade with spigots pointing downgrade. Control geometric position of pipe as necessary to ensure that pipe and fittings accurately conform with required grade and alignment after sewer is completed. Prevent water from accumulating or running in trench during pipe laying operations, and until the trench or excavation has been backfilled.

Remove and re-lay any length of pipe which does not accurately conform with required line or grade, is crushed, or is excessively deflected.

1.08 Pipe Connections

Make all pipe connections with standard fittings, manholes, structures, or special construction detailed on Drawings.

At manholes and structures, neatly cut all connecting pipe flush with inside surface, and provide flexible pipe joint within 18 inches of outer surface. Make pipe connections to manholes and structures by laying pipe in mortar bed or concrete. Use supplemental materials and techniques as required to obtain watertightness. Do not connect any flow to new work until authorized by the City.

1.09 Line Cleaning

Avoid permitting dirt, rubbish, surplus construction material, and other foreign matter to enter structures or pipe during construction. Use whatever means may be necessary to obtain a clean and internally smooth sewer system prior to final acceptance.

1.10 Leakage and Infiltration

Entire storm sewerage system shall be made as watertight as practicable. All visible points of ground water infiltration leakage shall be eliminated.

1.11 Storm Water Infrastructure Dedication

- 1. The developer and or owner shall provide video inspection and mandrel inspection prior to dedication to the City.
- 2. Video and mandrel inspection and necessary repairs shall be completed prior to installation of final asphalt pavement wear course.

A. Scope

This test method describes the equipment and procedures for video inspection of storm and side drainpipe. This test method is used in conjunction with the GDOT Specification 550 (Strom Drainpipe, Pipe Arch Culverts, and Side Drainpipe).

B. Apparatus

- 1. Camera Inspection Equipment: Provide a pipeline inspection camera having the following features:
 - a. Configured properly in the pipe both vertically and horizontally and having the ability to pan and tilt to a 90 degree angle with the axis of the pipe and rotate 360 degrees.
 - b. Low barrel distortion camera.
 - c. Color image with a minimum standard resolution of 720 x 480 pixels.
 - d. Equipped with sufficient lighting to provide a clear image of the full circumference of the pipe.
 - e. Capable of recording the station, milepost, distance along the invert of the pipe, or other indicators of location superimposed on the video.
 - f. Capable of moving through the entire length of the pipe.
 - g. Capable of measuring cracks greater than 1/16" and joint separations greater than 0.5".
 - h. Software capable of generating a report that included the following:
 - Actual recorded length and width measurement of all cracks within the pipe.
 - Actual recorded separation measurement of all pipe joints.
 - Pipe ovality report.
 - Deflection measurements and graphical diameter analysis report in terms of x and y axis. E. Flat analysis report.
 - Representative diameter of pipe.
 - Pipe deformation measurements, leaks, debris, or other damage or defects.
 - Deviation in pipeline and grade, joint gaps, and joint misalignment.
- 2. Laser Deflection Measuring Device: Provide a laser deflection measuring device, for use of flexible pipe up to 48 inch in diameter, capable of measuring deflection to an accuracy of 0.5% or better and a repeatability of

- 0.12% or better. Reference of the equipment calibration are ASTM E 691 and ASTM E 177.
- 3. **Mandrel:** Provide a mandrel device which are rigid, nonadjustable, odd numbered legged (9 minimum) having the following:
 - a. Length not less than 7/16 of its nominal diameter.
 - b. Diameter at any point shall not be less than the diameter specified in Section C.3 Mandrel.
 - c. Diameter, whether fixed or variable, shall be verified with a proving ring or other method per the manufacturer's' guidelines.
- 4. **Manual Inspection Measuring Devices:** Use contact or non-contact distance instruments.

C. Procedure

Ensure pipe is clear of water, debris and/or obstructions. Complete the video inspection and any necessary measurement prior to placing the final surface over any pipe. Notify the engineer a minimum for 7 days in advance of inspection.

1. Pipeline Video Inspection for Defects and Distresses:

- a. Begin at the outlet end and proceed through to the inlet at a speed less than or equal to 30 ft/minute. The distance shall have an accuracy of 1 foot per 100 feet. Remove blockages that will prohibit a continuous operation.
- b. Document locations of all observed defects and distresses including cracking, exposed reinforcing, steel, sags, joint offsets, joint separations, deflections, improper joints/connections, blockages, leaks, rips, tears, buckling, deviation from line and grade, and other anomalies not consistent with a properly installed pipe.
- c. During the video inspection provide a continuous 360-degree pan of every pipe joint.
- d. Identify and measure all cracks greater than 1/16" and joint separations greater than ½". When cracks exceed 1/16" and extend more than 12" make repairs in accordance to manufacturer recommendation. Crack with displacement will require pipe replacement. Repair or replace pipe joint separation greater than 1".
- e. Video inspections are conducted from junction to junction which defines a pipe run. A junction is defined as a headwall, drop inlet, manhole, junction box, or other structure than disturbs the continuity of the pipe.

 Each pipe run must be on a separate video file and all locations are to be referenced from the nearest junction relative to that pipe run.

f. Record and submit all data as per Section D Reporting.

2. Pipeline Laser Inspection for Deflection:

- a. Calibrate the laser deflection measuring device according to the manufacturer's specifications. Provide all calibration data and applicable manufacture's recommendations for calibration and use to the Engineer.
- b. Measure the deflection occurring at the point the projected laser and at a minimum interval of -.1 feet along the pipe.
- c. All deflection measurements are to be based on the AASHTO Nominal Diameter. Refer to Section C.5.
- d. Inspect at a speed that will provide proper data acquisition to effectively measure the maximum deflection. The inspection speed shall be less than or equal to 30 ft/minute. The laser projection head shall be positioned so that the laser ring fills minimum 75% of the monitor screen height.
- e. Laser inspections are conducted in the same manner as Section C.1.e.
- f. Record and submit all data per Section D. Reporting.

3. Mandrel Testing:

- a. Mandrel Testing will be used for deflection testing if the video measurements are called into question or if limitations in the laser deflection measuring device are exceeded.
- b. Use proving ring or other method recommended by the mandrel manufacturer to verify mandrel diameter prior to inspections. Provide verification documentation for each size mandrel to the Engineer.
- c. All deflections measurements are to be based on the AASHTO Nominal Diameters. Refer to Section C.5.
- d. Begin by using a mandrel set 7.5% deflection limit. Place the mandrel in the inlet end of the pipe and pull through the outlet end. If resistance is met prior to completing the entire run, record the maximum distance achieved from the inlet side, then move the mandrel and continue the inspections from the outlet end of the pipe toward the inlet end. Record the maximum distance achieved from the outlet side. Replace pipe exceeding 7.5 % deflection.
- e. If no resistance is met at 7.5% then the inspection is complete.
- f. Record and submit all data as per Section D. reporting.

4. Manual Inspection Measurements:

- a. Alternate method of video inspection and deflection testing when there is available access, or the pipe is greater than 48 inches in diameter. For all pipe considered a confined space, provide entry for all project personnel according to OSHA requirements.
- b. Physical measurements may be taken after installation and compared to the AASHTO Nominal Diameter if the pipe is per Section C.5. When this method is used, determine the smallest interior diameter of the pipe as measured through the center point of the pipe (D2). Take the D2 measurement at the most deflected portion of the pipe in question and at intervals no greater than 10 feet through the run. Calculate the deflection as follows;

<u>%Deflection = [(AASHTO Nominal Diameter – D2) / AASHTO Nominal Diameter] * 100%</u>

- c. Video and lase inspect as per Sections C.1 and C.2.
- d. Record and submit all data as per Section D. reporting.

5. AASHTO Nominal Diameters and Maximum Deflections Limits:

These deflection limits are the maximum allowable deflection on any axis within the pipe and not just in the XY plane.

Base Pipe Diameter	AASHTO Nominal	Maximum Deflection
	<u>Diameter</u>	<u>Limit (7.5%)</u>
(inches)	(inches)	(inches)
<u>15</u>	<u>14.76</u>	<u>13.65</u>
<u>18</u>	<u>17.72</u>	<u>16.39</u>
<u>24</u>	<u>23.62</u>	<u>21.85</u>
<u>30</u>	<u>29.53</u>	<u>27.32</u>
<u>36</u>	<u>35.43</u>	32.77
<u>48</u>	<u>47.24</u>	43.70
<u>54</u>	<u>53.15</u>	<u>49.16</u>
<u>60</u>	<u>59.06</u>	<u>54.63</u>

D. Reporting

Submit all recorded information to the Engineer on standard forms along with the complete video inspection on DVD in digital format. The forms included in this method shall be used for reporting the inspection information. Ensure

- all video pipe runs on the DVD have the station, milepost, distance into the drain or other indicators of location superimposed on the video. Submit one copy of the paper inspection, DVD, and one electronic copy of report.
- 1. **Pipe Video Inspection Report:** The Pipeline video Inspection Report shall include the "Pipe Video Inspection Summary Report" form, the "Individual Pipe Video Inspection report" form(s), and the report(s) generated by the inspection software for each pipe run.
 - a. Individual Pipe Video Inspection Report Form: Complete Project Information, Inspector Information and Pipe Information. Under Inspection information record each defect/distress and joint along with its distance from the inspection entrance software and reference the page number associated with the still image of the joint, distress/defect along with any additional information.
 - b. Pipe Video Inspection Summary Report Form: This page is to be used as the cover sheet for the completed video inspection report. Complete Project Information, Inspector Information, and Pipe Information.
- 2. Pipeline Deflection Inspection Report: The Pipeline Deflection Inspection Report shall include the "Pipe Deflection Inspection Summary Report" form, the "Individual Pipe Deflection Inspection Report" form(s) and the report(s) generated by the inspection software for each pipe run.
 - a. Individual Pipe Deflection Inspection Report Form: Complete Project Information and Inspector Information. Under Inspector Information, record each joint location along with the beginning and ending locations where the deflection exceeds 7.5%. Attach a copy of any supportive information generated from the inspection software and reference the page number where more detailed deflection information may be conveyed.
 - b. Pipe Deflection Inspection Summary Report Form: This page is to be used as the cover sheet for the completed deflection inspection report.
 Complete Project Information, Inspector Information, and Pipe Information.

CONSTRUCTION MATERIALS

PIPE VIDEO INSPECTION SUMMARY REPORT INSPECTOR INFORMATION Inspecting Contractor: Operator Name: Project Name: Inspecting Contractor Signature: Date:

Beginning Sta.	Ending Sta.	<u>Dia.</u>	<u>Material</u>	<u>Length</u>	Under Pavement	<u>Cracks</u> ≥ 1/8 "	Joint Separations >1/2"	Pass / Fail

PIPE DEFLECTION INSPECTION SUMMARY REPORT **INSPECTOR INFORMATION Inspecting Contractor: Operator Name: Project Name: Inspecting Contractor Signature:** Date: PIPE INFORMATION

Beginning Sta.	Ending Sta.	Dia.	<u>Material</u>	Length	<u>Under</u>		Pass / Fail
					Pavement	Greater than	
						7.5%	

SECTION 2: GRASSING

2.01 General

The extent of grassing consists of those areas which are disturbed by operations of the Contractor and are not covered over by improvements, except where specifically noted otherwise, together with any additional areas shown on the drawings or designated by the City. Grassing operations include, but are not limited to, the following: Ground preparation, Seeding, Liming, Fertilizing, Mulching, Watering, and Maintenance of Grassed Areas.

2.02 Quality Assurance

Use grassing materials with certificates of inspection as required by governmental authorities. Comply with regulations governing grassing materials.

2.03 Grass Seed

Provide fresh, clean, new-crop seed complying with the tolerance for purity and germination established by the Official Seed Analysts of North America. Provide seed of the grass species, proportions and minimum percentages of purity, germination, and maximum percentage of weed seed, as specified below:

	Sowing Rate	Min %	Min %	Max %
Common Name:	lbs per acre	Germ.	Purity	Weed
Bermuda Grass, Common	8	70	90	2

2.04 Soil Amendments

- A. <u>Lime</u>: Natural limestone containing not less than 85 percent of total carbonates, ground so that not less than 90 percent passes a 10-mesh sieve and not less than 25 percent passes a 100-mesh sieve.
- B. <u>Fertilizer</u>: Standard commercial grade fertilizer conforming to the standards of the Association of Official Agricultural Chemists. Provide either grade 4-12-12, 6-12-12 or 5-10-15 at Contractor's option.
- C. <u>Nitrogen</u>: Standard commercial grade nitrogen conforming to state fertilizer laws. Provide in either granular or liquid form at Contractor's option.
- D. <u>Water</u>: Water used to produce grass is to be free of excess and harmful chemicals, acids, alkalies and all other substances which are harmful to plant growth.
- E. <u>Wood Cellulose Fiber Mulch</u>: Green colored wood cellulose fiber containing no germination or growth inhibiting ingredients, and suitable for uniform application by hydraulic mulching equipment. Mulch material to have the following packaged properties:

Prop	erty	Nominal	V	alue	•

Percent Moisture Content	$9.0\% \pm 3.0\%$
Percent Organic Matter (Oven Dried Basis)	99.2%±8.8%
Percent Ash Content	08%±02%
pH	$4.8\% \pm 0.5\%$
Water Holding Capacity (g/l000g)	1,150 Minimum

- F. <u>Natural Mulch</u>: At Contractor's option, either threshed rye, oat or wheat straw or Bermuda grass hay free of noxious weed seeds.
- G. <u>Asphalt</u>: Homogeneous emulsified asphalt meeting ASTM D 977 which contains no agents harmful or toxic to plant growth.

2.05 Execution

These Specifications set forth minimum operations and material applications which are acceptable. However, a satisfactory stand of grass must be obtained by using supplemental methods and/or materials as may be required.

- A. <u>Grassing By Private Property</u>: Where grassing is required between curbs and sidewalks or behind sidewalks in areas adjacent to private residential or commercial property, the City may change the type of grassing required to match any type of grass which may be planted and growing on the adjacent lawn.
- B. <u>Ground Preparation</u>: Plow area to be grassed to a depth of not less than 4 inches. After plowing disk and harrow area until soil is well pulverized to a depth of at least 4 inches. Completed surface must be smooth, uniform, loose and free of large clods, boulders, stumps, large roots, debris and other similar undesirable matter.
- C. <u>Lime and Fertilizer Application</u>: Spread lime uniformly over the ground surface at the rate of 1,000 pounds per acre. Spread fertilizer uniformly over the ground surface at the rate of 1,000 pounds per acre. Once lime and fertilizer are placed, blend into top 4 inches of soil with suitable harrows, rotary tillers or other appropriate equipment. Restore surface areas to line and grade.
- D. <u>Application of Nitrogen</u>: Make two applications of nitrogen to all grassed areas using mechanical spreading equipment. Apply at a uniform rate of not less than 70 pounds per acre per application. Make both applications only when weather conditions will permit uniform and even distribution and when moisture conditions will not cause harm to grass. Place first application of nitrogen when young grass reaches a height of at least one inch. Make the second application of nitrogen between 30 and 45 days after the first application.
- E. <u>Seeding</u>: Sow seed within 24 hours following completion of placing lime and fertilizer using mechanical equipment that produces uniform application of seed.

Once seed is sown, roll seeded areas before placing mulch. Sow seed only when weather conditions permit uniform distribution of seed and ground is not frozen, wet or otherwise non-tillable.

- F. <u>Mulching</u>: Mulch all grassed areas using either wood cellulose fiber mulch or natural mulch with bituminous treatment at the following rates:
 - 1. <u>Wood Cellulose Fiber Mulch</u>: 1,500 pounds per acre
 - 2. <u>Natural Mulch-Bituminous Treated</u>: 3/4 inch to 1 ½ inch deep over entire area with sufficient asphalt material to hold mulch in place

Apply mulch only when weather conditions will permit uniform distribution of mulch. Exercise care at all times to protect the public, adjacent property, bridges, pavements, curbs, sidewalks and all other structures.

- G. <u>Water</u>: Water grassed areas as required to obtain specified grass coverage.
- H. <u>Required Coverage</u>: Grassed areas will be considered acceptable when a viable stand of grass covers at least 98 percent of the total area with no bare spots exceeding one square foot and the ground surface is fully stabilized against erosion.
- I. <u>Maintenance</u>: Maintain grassed areas until the later of (1) final project acceptance, or (2) the required grass coverage is achieved. Maintain grassed areas by watering, fertilizing, weeding, mowing, trimming, and other operations such as rolling, regrading and replanting as required to establish a smooth, acceptable stand of grass free of eroded or bare areas. Mow areas as required to keep grass not more than 8 inches above ground surface until grassing work is accepted.
- J. <u>Final Inspection and Acceptance</u>: When the grassing work is completed, including maintenance, the City will, upon request, make an inspection to determine acceptability. Where inspected work does not comply with the requirements, replace rejected work and continue specified maintenance until reinspected by the City and found to be acceptable.

SECTION 3: GRADED AGGREGATED BASE AND SUBBASE

3.01 Sampling and Testing

Provide quality control testing during construction as necessary to ensure the entire base or subbase including all courses meets contract requirements. Remove and reconstruct, or otherwise correct work which falls below specified density or is outside other specified limits. Provide quality control testing by an approved testing laboratory during construction as necessary to ensure the entire or subbase including all courses meets contract requirements. Remove and reconstruct, or otherwise correct work which falls below specified density or is outside other specified limits.

- A. Minimum quality control testing to be provided by the contractor consists of the following:
 - 1. Moisture-density relationship curve for graded aggregate to be used on project.
 - 2. One-in-place density test (ASTM D 1556 or other method approved by the Engineer) per 1,200 square yards of base or subbase.
 - 3. One thickness measurement normal to base or subbase surface per 1,200 square yards of base or subbase.
 - 4. One surface tolerance measurement using a 15 foot straight edge per 250 square yards of base or subbase.

After completing street earthwork operations and before beginning street base construction, the developer shall file a copy of the quality control test results demonstrating compliance with these requirements with the City. At any time during the construction process, representative(s) of the City may request to review and the developer shall provide quality control test results.

3.02 Aggregate Properties

Graded aggregate shall meet standards set forth in the Georgia Department of Transportation Specifications for Coarse Aggregate, Section 800.

3.03 Execution

Clear and grub entire street right-of-way before commencing street earthwork construction. For specific technical requirements reference is made to Georgia DOT Specifications. Combustible material generated from clearing and grubbing operations may be burned only when authorized and permitted by the Dawson County Fire Marshall.

Complete utility and drainage earthwork before starting street subgrade construction. Ensure that subgrade and subbase conforms to specified compaction, line and grade and thickness requirements before commencing graded aggregate construction. Responsibility for placing the specified graded material lies with the Contractor. Approval by the

engineer of material, source of supply, etc. in no way relieves the Contractor of his responsibility of providing the specified graded aggregate material.

Place homogeneously and uniformly mixed graded aggregate on prepared subgrade or subbase. Spread material to a uniform depth not exceeding the thickness indicated on the Drawings nor 6 inches after compaction. Where graded aggregate base or subbase is indicated more than 6 inches in thickness, construct base or subbase in two or more courses of approximately equal thickness.

Control graded aggregate compaction during construction providing no less than minimum percentage of density specified. Achieve not less than 100 percent of maximum dry density as determined by ASTM D 698 (Standard Proctor) for each <u>cousecourse</u> of material-in-place.

After compaction, shape surface to required line, grade, and cross section. Compact loosened material until the surface is smooth, closely knit, free from cracks, conforming to required line, grade and cross section. Obtain a finished surface with no variation from design requirements in excess of 1/4 inch when measured with a 15 foot straightedge.

Maintain graded aggregate base or subbase in a smooth, true to grade, compacted condition until it is covered by other construction.

Achieve compacted thickness which is no more than ½ inch less than the required thickness at any point. Correct any area deficient by more than ½ inch by adding additional graded aggregate and rebuilding the base or subbase to the required thickness in accordance with this section.

SECTION 4: PAVEMENT REMOVAL AND REPAIR

4.01 Scope

Pavement referred to under this Section, refers to asphaltic, cementiouscementitious, brick, cobble or other large stone pavement materials together with underlying construction, irrespective of its composition. The extent of pavement work under this sections consists of the removal of pavement and repair of all pavement removed or damaged in the course of constructing the Project. Pavement patching includes repair of paved roads, streets, highways, walkways, driveways, patios, slabs on grade, and parking lots together with walls, curbing, gutters and headers, and other pavements and appurtenances. City of Dawsonville Standard Details associated with this specification are 28.1, 29.1, 38.1, 39.1 and 40.1.

4.02 Traffic Control

Schedule and conduct work in a manner which will minimize inconvenience to vehicular and pedestrian traffic. Provide flaggers, barricades, warning signs, warning lights, and other warning means as appropriate. Traffic Control: Immediately after new base construction, cover pavement cut with steel plates or similar devices of sufficient thickness to span the cut without noticeable deflection. Maintain plates in place for not less than 24 hours and not more than 7 days and until the concrete base has gained sufficient strength to withstand traffic loads. Traffic may resume after installation of metal plates. Traffic control devices in lieu of cover plates are permitted for pavement work longitudinal to the street centerline in excess of 20 feet. Use traffic barricades, warning signs and lights, flagmen, and other means as appropriate to continuously control traffic 24 hours per day. Use devices such that at least 12 feet wide, one-way through traffic access is provided at all times.

4.03 Weather Limitations

Conduct all operations during weather conditions appropriate to the Work being performed.

4.04 Grade Control

Establish and maintain lines and elevations which will ensure finished pavement having desirable appearance, function and strength.

4.05 Submittals

Submit detailed material descriptions when requested by the Engineer.

4.06 Materials

For products not described below, use materials and gradations which have locally exhibited a satisfactory record of previous usage, and which for finished visible surfaces

will permit obtaining appearance, color and texture reasonably matching remaining adjacent pavement of the same type.

- A. <u>Asphalt Concrete</u>: Bituminous plant mixture of asphalt cement and aggregates complying with Superpave mixtures specified in Section 828, Hot Mix Asphaltic Concrete Mixtures of the Georgia Department of Transportation, "Standard Specifications for Road and Bridge Constructions".
- B. <u>Graded Aggregate Base</u>: Uniform graded aggregate material complying with Section 815 of the Georgia Department of Transportation "Standard Specifications for Road and Bridge Construction".
- C. <u>Bituminous Prime</u>: Cutback asphalt complying with Section 821 of the Georgia

 Department of Transportation "Standard Specifications for Road and Bridge

 Construction
- D.C. Bituminous Tack Coat: Asphalt material complying with Section 413, topics 413.01 through 413.04 of the Georgia Department of Transportation "Standard Specifications for Road and Bridge Construction".
- E.D. Portland Cement Concrete: Concrete mix of Portland cement, aggregates, water, and air entraining admixture to produce the following properties: 3500 psi minimum compressive strength at 28 days per ASTM C39, 4 inches maximum slump per ASTM C143, and air content between 3% and 6%.
- <u>F.E.</u> Cold Mix: Cold Mix shall not be used for pavement patches.

4.07 Execution

- A. <u>Pavement Cuts</u>: Saw cut trench edges in paved areas to neat, straight lines before starting to break the pavement slab. City of Dawsonville Standard Details No. 28.1 and 29.1 shall be used.
- B. <u>Backfill Placement</u>: Place trench backfill materials in layers not more than six inches compacted thickness. Commence backfill immediately after utility is installed. Complete new replacement base construction immediately after trench backfill.
- C. <u>Inspection</u>: Examine areas and conditions under which pavement patching will be conducted, giving special attention to stability of subbase. Do not proceed with pavement patching work until unsatisfactory conditions have been corrected.
- D. <u>Preparation</u>: Saw cut any ragged edges of existing pavement, or in the case of concrete work, remove existing pavement to nearest joint. Remove all loose material from underlying and adjacent surfaces.
- E. <u>Strength and Stability</u>: Use materials and construction techniques as necessary to obtain strength, stability and durability of pavement patch at least equal to that of remaining adjacent pavement of the same type. As a minimum, conform with

pavement patch details, if any, required elsewhere by the Contract Documents; and where such details are not provided, accomplish pavement patching utilizing strengths, thickness, etc. not less than that of remaining adjacent pavement of the same type.

- F. <u>Placing</u>: Construct pavement using methods and equipment in general use for the type of work being performed. Monitor performance and repair or replace materials regularly to maintain smooth traffic surface until placement of permanent pavement surface materials. At Contractor's time selection prior to substantial completion, remove cold mix and bond breaker paper and provide new permanent pavement surface materials. If performance or maintenance of cold mix patch is unsatisfactory in the opinion of the City or Engineer, remove materials and provide new permanent pavement surface materials within 72 hours of notice by the City or Engineer. Upon removal of the metal plates or similar devices, provide new pavement surface in accordance with one of the following options:
 - Immediately apply new permanent pavement surface materials indicated or immediately apply bituminous cold mixture over bond breaker paper over new base.
 - Plates or other traffic control devices may be used before the permanent pavement surface is installed.

Contractor assumes all responsibility for maintaining repairing and or replacing concrete base that may be damaged during curing period.

For existing surface of Portland cement concrete, furnish new Portland cement concrete structure thickness, including base and pavement surface, of not less than eight inches; except for sidewalks which shall be not less than four inches thick.

Provide not less than eight inches thickness of new graded aggregate base for replacement of asphalt concrete pavement at driveways, sidewalks and parking lots.

For repair of asphalt concrete pavement, clean base and adjacent surfaces and apply bituminous tack coat or bituminous prime (as appropriate) to such surfaces before placing new asphalt concrete surface.

- G. <u>Finish</u>: Accomplish pavement repair using materials and techniques which result in visible, finished surfaces having appearance, color, and texture reasonably matching remaining adjacent pavement of the same type. Do not permit the finished surface to have dips, objectionable roughness or discontinuity or non-draining areas. Do not create any unsafe pavement condition.
- H. <u>Repairs</u>: If pavement patch or adjacent pavement settles or shows evidence of other distress resulting from the Work, cut pavement out, repair subgrade, and

reconstruct patch. Do not place additional pavement material on top of unsatisfactory previously repaired surfaces. At expense of Contractor, repair any pavement which he damages beyond that minimum amount necessary to construct the Work.

4.08 Removing Pavement

The Contractor shall remove pavement as necessary for installing the new pipe lines and appurtenances and for making connections to existing pipe lines.

- A. <u>Marking</u>: Before removing any pavement, the pavement shall be marked for cuts neatly paralleling pipe lines and existing street lines. Tunneling will be permitted under existing sidewalks, curbs and gutters, but not under pavement.
 - Power saws shall be used to cut all types of pavement along marked lines. The pavement shall be sawed to a depth of at least 2" or deeper if directed by the Engineer.
- B. <u>Machine Pulling</u>: No pavement shall be machine pulled until completely separated along the marked cuts.
- C. <u>Damage to Adjacent Pavement</u>: The pavement adjacent to pipe line trenches must not be disturbed or damaged. If the adjacent pavement is disturbed or damaged due to any cause, such as caving ditch banks, indiscriminate use of construction machinery, etc., the Contractor shall remove the damaged pavement and shall replace at his own expense.
- D. <u>Stone or Precast Concrete Curb</u>: The Contractor shall remove and replace or tunnel under any stone or precast concrete curb encountered.

4.09 Replacement Pavement

Upon completion of backfilling and consolidation of the backfill, the Contractor shall furnish all materials and labor and shall replace all pavement removed for construction of the pipe lines and appurtenances. The Contractor shall also remove and replace at his own expense any and all pavements adjacent to pipe trenches which may have been disturbed or damaged as the result of construction operations.

In the event weather conditions do not permit the permanent replacement of pavement immediately subsequent to the completion of pipe line construction, the Contractor will be required to maintain temporary surfacing until such time as the weather is suitable for paving operations. Any such delay will not be counted against the contract time for completion, provided that all other work to be performed under the Contract is completed within the specified time.

- A. The various types of pavement removed shall be replaced as follows:
 - 1. <u>Pavement Replacement</u>: Street pavement shall be replaced in accordance with the applicable provisions of the Standard Specifications Construction

- of Transportation Systems, Georgia Department of Transportation, latest revision, and with the City of Dawsonville Standard Details.
- 2. <u>Base</u>: The base for the asphaltic concrete pavement shall be 8" of concrete.
- 3. <u>Asphaltic Concrete</u>: The concrete base shall be poured to the proper level after which it shall be primed and sealed in accordance with the appropriate standard specification. The wearing course shall consist of 2" of Superpave plant-mixed asphaltic concrete, conforming to the provisions of Section 400 of the Georgia Department of Transportation Specifications.
- B. <u>Sub-Grade Preparations</u>: Under trench paving the sub-grade shall be thoroughly compacted by approved mechanical compaction equipment to 95% as determined by Modified Proctor Test. At least 2 compaction tests shall be made between manhole reaches equal to or less than 200' long. At least 3 compaction tests shall be provided for manhole reaches greater than 200' long. These tests shall be conducted by an approved soils testing company and shall be performed by an experienced soils technician. The costs of all tests shall be paid by the City.
- C. Pavement Preparation: Before replacement of pavement, the pavement should be cut back at least 12" on each side of the trench or to visible overbreaks, whichever is greater, to a depth of 2" with a concrete saw. No cutback will be required on bituminous surface treatment pavement to insure a straight vertical edge for the patch. After making the saw cut, the pavement to be removed should be broken into small pieces and removed. The broken edge below the saw cut is left fairly rough and irregular but is approximately a vertical plane to provide an aggregate interlock between the patch and the existing pavement. The sub-base material should be carefully placed and shaped. Water should be added to provide a damp but not wet sub-base before the concrete base or soil cement base is placed. The new concrete base should then be poured or soil cement base placed before this surface dries out. The base should be placed with care, making sure it is worked back into all corners.
- D. <u>Concrete Base</u>: After the concrete base has cured, the concrete surface and vertical edges of the existing paving must be clean and dry before the tack coat is applied. The tack coat should be applied to the surface of the new concrete base and brushed into the corners and on to the vertical edges of the old pavement to provide a bond and seal out water. The asphalt surface material should be immediately placed after the surface of the tack coat has dried to the point it is sticky to the touch.
- E. <u>Soil Cement Base</u>: In lieu of the concrete base as described above, a soil cement base material consisting of approximately 12% Portland Cement by volume and a

- friable local material must be used. The minimum depth for the soil cement should be 12". This material should be placed in at least 2 layers with no layers to exceed 6" in depth and compacted to 100% compaction. In lieu of the bituminous tack coat, a bituminous prime should be lightly sprayed or mopped onto the soil cement base as soon as it is completed.
- F. <u>Asphalt Surface</u>: The asphalt surface material should be immediately placed after the surface of the bituminous prime has cured. A short period of time is required for the prime to penetrate into the base material.
- G. Replacement of Concrete Curb and Gutter, Street, Driveway and Sidewalk: Concrete curb and gutter, street, driveway and sidewalk shall be replaced with Class 'A' 3,000 psi concrete of the same thickness and dimensions as was removed.

SECTION 5: ROADWAY AND WALK INSTALLATION

5.01 Roadway Surfacing

All paved access roads and parking areas, where shown on the Drawings, shall have a crushed stone base course, asphalt binder course and asphalt wear course. prime coat and sand asphalt surface course. The compacted depth of the base course shall be 68", and widths shall be as shown. Surface course shall be 1 ½" thickBinder course shall be 2" 19 mm or 12.5 mm asphalt course and topping wear course shall be 1 ½ "9.5 mm. Materials and construction methods shall conform to the Standard Specifications for Highway Construction of the Georgia Department of Transportation as follows:

- <u>Section 310</u>: Graded Aggregate Construction
- Section 412: Bituminous Prime
- <u>Section 400</u>: Hot Mix Asphaltic Concrete Construction
- <u>Section 828</u>: Hot Mix Asphaltic Concrete Mixtures

5.02 Quality Assurance

- A. The developer shall provide quality control testing during base and pavement construction as necessary to ensure the entire pavement structure meets the minimum requirements of these Regulations. The minimum quality control testing to be provided consists of the following:
 - 1. Moisture-density relationship curve for each base material used on project.
 - 2. For soil cement base, conduct mix design to determine Portland cement content (percent of dry weight of the soil) to achieve a minimum compressive strength of 300 psi at seven days when testing in accordance with ASTM D 1632 and D 1633.
 - 3. One in-place density test (ASTM D 1556 or other method acceptable to the City) per 1,200 square yards or fraction thereof of base. (4.9 (e) (2) and
 - 4. One thickness measurement normal to base surface per 1200 square yards or fraction thereof of base.
 - 5. For base course, one surface tolerance measurement using a 15 foot straight edge per 250 square yards or fraction thereof of base.
 - 6. One asphalt extraction (ASTM D 2172) and aggregate gradation analysis (ASTM C 136) per 2400 square yards or fraction thereof of surface course and per 2400 square yards or fraction thereof of binder course (if any). Obtain samples for extraction and gradation tests in accordance with ASTM D 979.

- 7. One density and compacted thickness measurement per 1200 square yards or fraction thereof of each course placed. Density determined to be made in accordance with ASTM D 1188. Remove not less than 3 inch diameter nor larger than 12 inch square test specimens. Repair test specimen holes with full depth application of fresh hot asphaltic plant mix.
- 8. For asphalt extraction, one surface tolerance measurement using 15 foot straight edge per 250 square yards or fraction thereof of surface course.
- B. Base and/or paving construction which falls below specified minimum quality control limits shall be removed, reconstructed, and re-tested until compliance with specified requirements is achieved.
- C. Report test results in writing to the Engineer promptly (normally same day tests are made). The Engineer and/or City may perform sampling, surveying, inspection or testing activity during construction for his use, but such activity does not relieve the Contractor from his responsibility to achieve specified results.
- D. After completing base and paving construction, the developer shall file a copy of the quality control test results demonstrating compliance with these Regulations with the City. At any time during the construction process, representative(s) of the City may request to review and the developer shall provide quality control test results.
- E. The City may perform compaction, surface tolerance and thickness check tests on graded aggregate work when the Contractor indicates such work meets contract requirements. If these tests demonstrate work fails to meet contract requirements, it is the Contractor's responsibility to determine the extent to which the deficiency is present, to correct the deficiency, and to demonstrate by tests made by an approved testing laboratory, compliance with contract provisions in the deficient area. Check testing activity by the City does not relieve the Contractor from his responsibility to achieve specified results. All costs of determining the extent to which a deficiency is present and of retesting to demonstrate compliance with specified results are to be assumed by the Contractor. The City will pay all other check testing costs.

5.03 <u>Sidewalk</u>Walks

Per GDOT section 441, walks shall be constructed of Class 'BA' concrete (2,200_3,000 psi), shall be 4" deep and 5 feet wide unless otherwise specified. Transverse contraction joints shall be formed with a tool designed for forming a groove ½ the depth of the sidewalk, and on not more than 10'6'-0" centers. All edges shall be rounded with a 1-½ edger. Expansion joints shall be located on not more than 60 feet center, each side of all driveways, and at abutting concrete structures. 20'-0" centers and at all intersections.

5.04 <u>Sidewalkwalks</u> Crossing Driveways

<u>Sidewalks_crossing</u> driveways shall be constructed of Class 'A' concrete (3,000 psi), shall be <u>8_6</u>" deep <u>for residential and 8'' for commercial</u> and 5 feet wide unless otherwise specified. Transverse contraction joints shall be formed with a tool designed for forming a groove ½ the depth of the sidewalk, and on not more than <u>6'-0_10ft</u>" centers. All edges shall be rounded with a 1-½ edger. Expansion joints shall be located <u>every 60 feet, abutting concrete structures and at on not more than 20'0" centers, and at all intersections.each side of driveway connections.</u> Valley gutters shall be installed according to Georgia Department of Transportation details.

5.05 Excavation

Excavation for roadways and walks shall be made to the lines, grades and typical sections approved by the City. Proper allowances shall be made for specified thickness of roadbed and walkway below the finish grade shown. Should rock be encountered in the subgrade, the road shall be excavated to a depth of 6" below subgrade and the resulting space backfilled with suitable material.

5.06 Existing Paved Surfaces

All existing paved surfaces shall be protected and repaired if damaged.

5.07 Curb and Gutter

Concrete used for curb and gutter construction shall have a minimum 3,000 psi compressive strength at 28 days (ASTM C 39); a 2 inch to 4 inch slump (ASTM C 143) and, 3 to 6 percent air content (ASTM C 231 or C 173) and shall comply with ASTM C 94.

Construct curb and gutter true to line, grade and cross section on properly prepared subgrade. Apply Georgia DOT Type 2 membrane curing compound.

Protect completed curb and gutter work from damage until dedication to the City. As soon as the curb and gutter will not be damaged, backfill, compact, stabilize and grass adjacent ground to achieve design line and grade.

Acceptably repair or replace broken or defective curbs and gutters.

5.08 Shoulders

Shoulders shall be constructed of selected topsoil in accordance with typical sections approved by the City and shall be grassed as specified elsewhere.

5.09 Construction on Embankments

Where roadways are constructed on fill, the embankment shall be placed in layers not over 6" deep as measured before compaction and be thoroughly rolled to a density of 98% of the Standard Proctor Dry Density with sheepsfoot or pneumatic tired roller. The work shall be

executed in a manner which will ensure that no places too steep to roll are left in the embankment. Portions inaccessible to the roller shall be rammed by hand. All materials shall be visibly damp. Water shall be applied as directed to obtain close adhesion between layers and all parts of the material.

Sheepsfoot roller shall be of self-cleaning type, have feet projecting 7" from the shell and be of a weight so that the load of each tamper foot with the drum empty will be not less than 100 pounds per square inch of area in contact with a plane surface. Rolling shall be executed until the feet leave no appreciable imprint when the shell is filled to a maximum weight.

Pneumatic tired rollers shall be suitable for ballast loading which will give a compression, under working conditions, of not less than 325 pounds per inch width of tire tread. Forward and rear tires shall make separate tracks. Compaction shall be equivalent to that required for the sheepsfoot roller.

Within the limits of the roadbed, the fill shall be constructed of selected clay materials from excavation and borrow and be free from stones larger than 4" in diameter within the last 10' of vertical fill. Slopes of roadway outside the above limits may be constructed of alternate layers of rock and clay; in no case shall rock be allowed in nests. The stones shall be uniformly distributed over the preceding clay layers, and the voids shall be completely filled with clay so as to form a solid compaction embankment.



DAWSONVILLE CITY COUNCIL EXECUTIVE SUMMARY FOR AGENDA ITEM #__18___

SUBJECT: STANDARD SPECIFICATIONS FOR WATER DISTRIBUTION AND SANITARY SEWERAGE SYSTEMS

CITY COUNCIL MEETING DATE: 12/06/2021		
BUDGET INFORMATION: GL ACCOUNT # Funds Available from: Annual Budget Capital Budget Other Budget Amendment Request from Reserve: Enterprise Fund General Fund PURPOSE FOR REQUEST: TO REQUEST APPROVAL OF THE UPDATED STANDARD SPECIFICATIONS FOR WATER AND SEWER SYSTEMS		
 HISTORY/ FACTS / ISSUES: PRESENTED AT THE 11/15/2021 WORK SESSION FOR REVIEW SPECIFICATIONS LAST UPDATED IN 2018. UPDATE FIRE FLOW REQUIREMENTS. UPDATED SEWER LATERAL CONNECTIONS. UPDATE SEWER FORCE MAIN MATERIAL TYPE. UPDATE WATER APPURTENANCES MATERIAL WORKING PRESSURE RATINGS. UPDATED WATER AND SEWER MAIN DETECTION MATERIAL TYPE. ADDED ADDITIONAL SEWER MAIN TELEVISING REQUIREMENT PRIOR TO CITY ACCEPTANCE. ADDED ADDITIONAL SEWER MANDREL TESTING PRIOR TO CITY ACCEPTANCE. 		
OPTIONS:		
RECOMMENDED SAMPLE MOTION:		

REQUESTED BY: David Picklesimer, Planning Director_

415 Highway 53 E. Suite 100 Dawsonville, Georgia 30534



(706) 265-3256 Fax (706) 265-4214 www.dawsonville-ga.gov

Date: 10/26/2021

To: Mayor and Council

Reference: Standard Specifications for Water Distribution and Sanitary Sewerage Systems

The Planning and Zoning Department has provided the following pertinent information to help you decide on this request:

- 1. Planning and Water & Sewer Department request approval of the updated specifications.
- Specifications last updated in 2018.
- Updated the water distribution fire flow design requirements.
- Updated allowable sewer lateral connections.
- Updated sewer force main material to ductile iron pipe.
- Updated corporation stops, curb stops, air release valves, fire hydrants to be rated for more working pressures.
- Updated water and sewer main and service line detection material.
- Added additional sewer main televising prior to city acceptance.
- Added additional sewer mandrel test prior to city acceptance.

Kindest Regards,

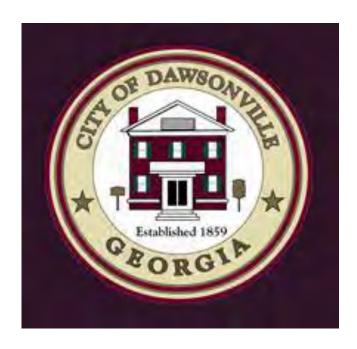
David Picklesimer Planning Director

STANDARD SPECIFICATIONS for

WATER DISTRIBUTION SYSTEMS

and

SANITARY SEWERAGE SYSTEMS



CITY OF DAWSONVILLE, GEORGIA

STANDARD SPECIFICATIONS for

WATER DISTRIBUTION SYSTEMS

and

SANITARY SEWERAGE SYSTEMS

CITY OF DAWSONVILLE, GEORGIA 415 Highway 53 East Dawsonville, Georgia 30534 Office: (706) 265- 3256/ Fax: (706) 265- 4214

p<u>rep</u>ared by:

Adopted:

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City of Dawsonville

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APPENDIX

Appendix A: Water Distribution/Sanitary Sewer Addition Submittal

Appendix B: Technical Review Checklist

Appendix C: Inspection Report
Appendix D: Pressure Test Report

Appendix E: Visual Test Report

Appendix F: Final Lift Station Inspection Report

Appendix G: Final Sewer Inspection Report

Appendix H: Final Water Inspection Report

Appendix I: Water Construction Acceptance Letter Appendix J: Sewer Construction Acceptance Letter

Appendix K: Final Water Acceptance Letter

Appendix L: Final Sewer Acceptance Letter

DETAILS

SECTION 1: POLICIES AND PROCEDURES

1.01 Scope and Intent

- A. <u>Purpose</u>: The purpose of this document is to set forth the uniform policies, procedures, design requirements, material requirements and construction standards of the City of Dawsonville as to comply with all applicable state and federal laws for the installation of water distribution systems and sanitary sewerage systems.
- B. <u>Use</u>: The Developer shall design and install all water and sewerage systems to comply with this document. The City will use this document to check plans for new water and sewerage systems and improvements to existing water and sewerage systems.
- C. <u>Variance</u>: Under special conditions beyond the control of parties involved, the City of Dawsonville may vary from the specifications herein. The Superintendent or designee of the City shall authorize any variance in writing. The State of Georgia, Department of Natural Resources, Environmental Protection Division, shall be notified of any variance in writing.

D. Amendments to the Specifications:

- 1. The City shall amend the Standard Specifications for Water Distribution Systems and Sanitary Sewerage Systems, as determined necessary to improve the systems' performance and integrity. The Superintendent or designee of the City shall approve system performance and integrity amendments in writing.
- 2. The City shall amend the *Standard Specifications for Water Distribution Systems and Sanitary Sewerage Systems*, as required due to changes in applicable regulations. The State of Georgia, Department of Natural Resources, Environmental Protection Division, shall approve regulatory amendments in writing.

SECTION 2: DEFINITIONS

The listed words or acronyms shall mean the following:

- **ACI:** American Concrete Institute.
- ANSI: American National Standards Institute.
- **ASTM:** American Society for Testing and Materials.
- **AWWA:** American Water Works Association.
- **CRSI:** Concrete Reinforcing Steel Institute.
- **Design Engineer:** The engineer or surveyor under whose direction the development plans submitted for review were prepared. Design Engineer shall be a Georgia Licensed Professional Engineer.
- Developer: Any person, firm, corporation, association or partnership or any agent thereof who undertakes or proposes to undertake the development of land so as to constitute a residential subdivision, apartment complex, condominium or commercial/industrial/ institutional establishment.
- **DFT:** Dry Film Thickness
- **Diameter:** Nominal inside diameter of pipe excluding bituminous or epoxy bonded coating thickness
- **DIP:** Ductile iron pipe
- **DOC:** United States of America Department of Commerce
- **Easement:** Non-profitable interest in land owned by another that entitles its holder to a specific limited use
- **EPD:** Environmental Protection Division
- Force Main: Piping, valves and other components of a single pressurized line used to convey raw water, potable water or sewage. A force main conveying potable water may have a limited number of service connections.
- FMR: Factory Mutual Research
- **GEFA**: Georgia Environmental Finance Authority
- Georgia EPD: State of Georgia, Department of Natural Resources, Environmental Protection Division.
- **GFI:** Ground fault interrupt
- **gpm:** Gallons per minute
- Gravity Sewer: Piping and other components used to convey sanitary sewage in a non-pressurized system
- Lateral: Pipe extending from a sewer main to a street right-of-way or easement for the purpose of servicing a property (lot). The lateral shall be six (6") inches in diameter, shall not contain a manhole and shall be less than 250 feet in length.
- **NEC:** National Electrical Code, latest edition

- **NEMA:** National Electrical Manufacturers' Association
- No. 57 Stone: Class I embedment or backfill material consisting of manufactured aggregates (crushed stone) in accordance with ASTM D 2321-89 (Reapproved 1995) and ASTM D 2487-00. Percent passing sieve sizes are as follows: 100% passes 1-1/2", < or 10% passes No. 4 and < 5% passes No. 200.
- **Pavement:** Any asphalt, concrete, gravel or dirt surface including curbs and sidewalks used by vehicles and/or pedestrians
- pcf: Pounds per cubic foot
- psi: Pounds per square inch
- **Pump Station:** All pumps, valves, wetwells, controls and other components used to pump sanitary sewage into a force main
- **PVC:** Polyvinyl chloride
- Rock: Solid material being greater than one (1) cubic yard in size which by actual demonstration cannot, in the opinion of the City Engineer, be reasonably excavated with a minimum 135 horsepower backhoe, in good condition and equipped with manufacturer's standard boom and rock points or similar approved equipment; and which must be systematically drilled and blasted or broken by power-operated hammer, hydraulic rock breaker or expansive compounds.
- Rock Excavation: Removal of solid material, as the above specifies, and does not necessarily correspond to "rock" as implied by the names of geologic formations.
- Sanitary Sewerage System: Multiple pipes, manholes and other components that convey sewage and to which storm water, surface water and ground water are not intentionally admitted.
- SCADA: Supervisory Control and Data Acquisition system
- Service Connection: Fitting(s) connecting a service line or lateral from a property (lot) to a water main or sewer main
- **Service Line:** Pressurized pipe extending from a water main to a water meter or pressurized pipe extending from a water main to a fire hydrant.
- **Sewage:** The combination of water-carried wastes from residential housing, institutional facilities, and commercial and industrial complexes together with such groundwater, surface water, and storm water as may inadvertently be present.
- Sewer: A pipe or conduit that conveys sewage
- Sewer Main: Sewer to which one or more laterals are connected
- Sewer Outfall: Sewer to which one or more sewer mains are connected
- Sewer Trunk: Sewer to which one or more sewer mains or sewer outfalls are connected and discharges into a wastewater facility.
- Suitable Soil: Soil that conforms to and as recommended by ASTM D 2321-89 (Reapproved 1995) and ASTM D 2487-00 and that is free of organic and/or deleterious material, expansive clay and rock fragments larger than three (3") inches.
- Superintendent: Superintendent of Water

- UL: Underwriters Laboratory
- Utility Contractor: Georgia Licensed Utility Contractor in accordance with the Official Code of Georgia, Chapter 43
- **USEPA:** United States Environmental Protection Agency
- Water Distribution System: Pressurized pipes, valves and other components that convey potable water
- Water Main: Pressurized pipe used to convey potable water from a force main to a service line
- **WPCP:** Water Pollution Control Plant
- WTP: Water Treatment Plant
- **WWTP:** Wastewater Treatment Plant

SECTION 3: DESIGN APPROVAL

3.01 General

- A. The design of water distribution systems and sanitary sewerage systems shall conform to the specifications herein.
- B. Concurrent with plan submittal, the Design Engineer shall provide a completed *City of Dawsonville Water Distribution/Sanitary Sewer Addition Submittal* form to the City. The *City of Dawsonville Water Distribution/Sanitary Sewer Addition Submittal* form is enclosed as Appendix A.
- C. After receiving approval of the plans from the City, the Developer will be required to submit any applicable forms and documentation to the Georgia Environmental Protection Division. Applicable forms may include but are not limited to, the EPD's *Drinking Water Project Submittal Form* and the EPD's *Sanitary Sewer Extension Submittal Form*, which can be found on the Georgia Environmental Protection Division's website. After receiving approval from the Georgia Environmental Protection Division the Developer shall submit three (3) printed sets of plans and one (1) electronic set of plans to the City with a letter detailing any changes required by the Georgia Environmental Protection Division.

3.02 Technical Review

- A. Proposed water distribution system and sanitary sewerage system plans shall be reviewed by the City under the supervision of a Georgia Licensed Professional Engineer for technical adequacy and conformance to applicable requirements.
- B. Upon receipt of a proposed development, the City shall perform a feasibility study to verify the project complies with the Service Delivery Strategy for Dawson County and determine whether the existing City water distribution system and/or sanitary sewerage system has sufficient capacity. The City will bill the Developer for all costs associated with review of the proposed development. The following review shall be completed.

1. Water Distribution System

- a. The latest 12 months of reported production from the system shall be examined to determine an average monthly production rate. A proposed development, whose supply requirement would cause the system to exceed the Georgia Environmental Protection Division permitted rate, shall not be connected to the City system.
- b. Pressure and flow from the contributing water distribution system shall be examined to determine whether the additional supply requirement will adversely affect the surrounding system. A proposed development, whose supply requirement would adversely

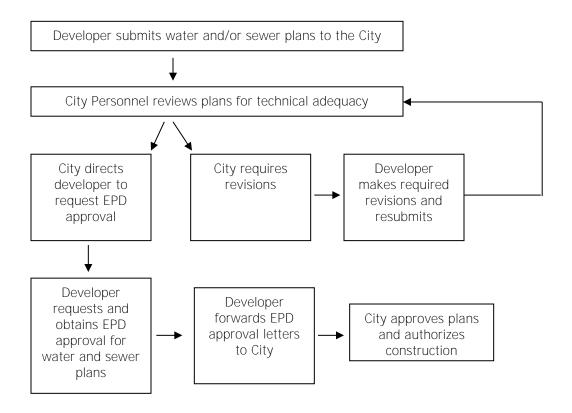
affect the surrounding system, shall not be connected to the City system.

2. Sanitary Sewerage system

- a. The wastewater treatment facility must be in compliance with its *NPDES* permit. If the facility is not in compliance with the *NPDES* permit then the sewerage system connection will not be approved.
- b. The latest 12 months of reported discharge from the receiving WPCP shall be examined to determine an average monthly flow rate. A proposed development, whose discharge would cause the receiving WPCP to exceed the Georgia EPD permitted flow rate, shall not be connected to the City system.
- c. A capacity study shall be performed to determine whether the discharge from the development would exceed the capacity of the existing receiving sewers. A proposed development, whose discharge would exceed the capacity of the receiving sewers, shall not be connected to the City system.
- C. City review comments shall be marked on Technical Review Checklists and noted on development plans in the color red (Red Line Comments). Technical Review Checklists used during the City review are included in Appendix B.

3.03 Plan Processing

- A. Water distribution system and/or sanitary sewerage system plans shall be submitted to the City. If the development will be constructed in phases, the Developer shall submit an overall development plan and detailed plans for each phase. Three (3) printed sets and one (1) electronic set of water distribution system and/or sanitary sewerage system plans are required for each submittal during the City review process. A letter addressing previous comments will be required with all resubmittals.
- B. The Design Engineer shall address City review comments. Plans containing the original Red Line Comments shall accompany each re-submittal to the City.
- C. Soil Erosion and Sedimentation Control Plans pertaining to the overall Development shall be reviewed and approved by the local issuing authority. Construction of any kind shall not begin on a project prior to the issuance of a Land Disturbance Activity permit.
- D. The City of Dawsonville's plan processing sequence is shown on the following chart.



3.04 Approval by Regulatory Agencies

- A. The Developer's Engineer shall address all deficiencies and resubmit plans in accordance with Division I, Sections 3.02 and 3.03. Plans shall not be approved until all deficiencies have been addressed to the satisfaction of the City Engineer.
- B. Note that plan approval by the City Engineer shall not be construed, in any manner, to relieve the Developer of his responsibility for strict compliance with the specifications herein and any applicable laws and regulations.
- C. Installation of water distribution systems and/or sanitary sewerage systems shall not commence on any development until the City has granted final approval of water distribution system and/or sanitary sewer plans and the local issuing authority has issued a Land Disturbance Activity permit, and the Georgia Environmental Protection Division has written an approval letter.
- D. Note that other agencies may have regulatory authority and the Developer is responsible for obtaining other agency approval. Other agencies could be, but are not limited to, State of Georgia Department of Natural Resources, State of Georgia Department of Transportation, United States Army Corps of Engineers, United States Environmental Protection Agency, electrical, phone, cable, and natural gas providers.

3.05 Period of Plan Approval

Approved water distribution system and/or sanitary sewerage system plans shall be valid for six (6) months. Approved plans that are not initiated or are inactive for a six (6) month period shall become invalid. Should an approved plan be invalidated, the City Engineer shall determine whether the plan must be resubmitted for approval.

SECTION 4: EASEMENTS AND DEEDED PROPERTY

4.01 General

- A. Components of water distribution systems and sanitary sewerage systems, to be owned by the City, should be situated within streets' rights-of-way.
- B. The following water distribution system and sanitary sewerage system components, to be owned by the City, shall be situated within an easement that is granted to the City, when a street right-of-way is not available.
 - 1. Force main
 - 2. Water main
 - 3. Water meter/check valve assembly
 - 4. Fire hydrant
 - 5. Sewer main
 - 6. Sewer outfall
 - 7. Manhole
 - 8. Other components required by the City
- C. An easement shall not encroach into a structure's foundation and shall be clear of all obstructions not associated with the water and/or sanitary sewerage system including but not limited to construction debris, fencing and trees.
- D. Property developed and occupied by a pump station and/or an access road, to be owned by the City, shall be platted and deeded to the City.
- E. All property and easements shall meet requirements for final plats detailed in the City's *Land Development Regulations*.

4.02 On-Site Easement

- A. "On-site" easements are those easements falling within the boundaries of the current phase of the development. "On-site" easements shall be shown on the plat and recorded through the process of recording the final plat.
- B. Developer shall grant to the City, the exclusive right to construct, reconstruct, operate, maintain, repair, replace, improve, alter, remove, relocate and inspect water distribution systems and/or sanitary sewerage systems that are situated over, across and under the land wherein the water distribution systems and/or sanitary sewerage systems lie on the Developer's property.

4.03 Off-Site Easement

A. "Off-site" easements are those easements falling outside the boundaries of the current phase of the development. Easements through property owned by the

- developer, including water and sewer lines that will be included in later phases of the same project, must be treated as off-site easements.
- B. Off-site easements shall be negotiated and acquired by the Developer with the property owner.
- C. Construction of the off-site water distribution systems and/or sanitary sewerage systems shall not begin until all off-site easements for system completion have been acquired by the Developer and recorded by the City.

4.04 Easement Size

- A. The minimum width of a permanent on-site/off-site easement associated with water distribution system and sanitary sewerage system components shall be 20 feet.
- B. The minimum size of an easement associated with a water meter/check valve assembly shall be 20' by 30'.
- C. Easement width or size may be increased or decreased at the discretion of the City Engineer.

4.05 Deeded Property

- A. The minimum size of deeded property associated with a pump station shall be 60' by 60'.
- B. The minimum width of deeded property associated with an access road shall be 30'.
- C. The size or width of deeded property may be increased or decreased at the discretion of the City Engineer.

SECTION 5: INSTALLATION

General

- A. The installation of water distribution systems and sanitary sewerage systems shall be in accordance with the approved plans and specifications herein.
- B. A set of plans stamped approved by the City shall be present on the job site whenever work is being performed on the water distribution system and/or sanitary sewerage system.
- C. A representative of the Developer, the installation contractor, the County Fire Marshall and the City shall attend a pre-construction conference at the City at least ten (10) working days prior to the start of any construction. The Developer is responsible for scheduling the conference when all representatives can attend. The purpose of this conference will be to define roles and responsibilities for the correct execution of the proposed water and/or sewer line installations.

Utility Contractor

- A. A licensed Utility Contractor shall install water distribution systems and sanitary sewerage systems.
- B. Prior to commencing construction activities on a proposed water distribution system and/or sanitary sewerage system, the City Engineer shall receive a copy of the Utility Contractor's License.

City Installation

- A. The City shall perform the following system components installation at a cost to the Developer/Owner:
 - 1. Supply materials and labor to install water meter and check valve assemblies from 5/8-inch in diameter through 2-inches in diameter;
 - 2. Supply labor to tap water main;
 - 3. Supply materials and labor to install a sewer main tap for a private individual.
- B. The installation of residential water service lines will be performed by the Developer's Utility Contractor with approval by the City.

Insurance Requirements

- A. Utility Contractors performing work on City funded or partially funded projects shall comply with current City insurance and bonding requirements.
- B. Companies such as railroads, electric power suppliers, natural gas suppliers, etc. may require Utility Contractors to furnish insurance, in addition to City

requirements when crossing their respective easements. The Utility Contractor shall provide such insurance as required.

5.05 Inspection

- A. A City Inspector, under the supervision of a Georgia Licensed Professional Engineer, shall inspect water distribution systems and sanitary sewerage systems during all phases of construction to ensure the systems are being constructed in accordance with the plans approved by the City and specifications herein.
- B. The Developer shall provide the City Engineer a 48-hour notice prior to commencing construction on a water distribution system and/or sanitary sewerage system.
- C. The Developer/Utility Contractor shall, at all times, permit and facilitate inspection of work by the City. The presence of a City Inspector or City Engineer on the site of work shall not be construed to, in any manner, relieve the Developer/Utility Contractor of their responsibility for strict compliance with the approved plans and specifications herein.
- D. The City Inspector shall not change or modify the approved water distribution and/or sanitary sewerage system plans or specifications herein without written approval from the City Engineer.
- E. The City Inspector shall inform the Developer/Utility Contractor when construction is deficient from the approved plans and specifications herein. Deficiencies shall be addressed in a timely manner as determined by the City Inspector. Construction activities and other pertinent information shall be recorded on an Inspection Report included in Appendix C.
- F. The City or County Building Department shall perform inspections relating to electric power supply.
- G. Deficiencies not addressed in a timely manner shall be justification for the City to stop work on a project. The City Engineer shall issue a Stop Work Order to the Developer/Utility Contractor in writing. Continued work on a project after being issued a Stop Work Order shall be justification for necessary enforcement actions.

5.06 Testing

- A. Details on testing procedures are included in Division IV. Testing shall be performed at the expense of the contractor.
- B. Water distribution systems shall be subjected to bacteriological and hydrostatic tests.
- C. Sanitary sewerage systems shall be subjected to pressure testing, televising and mandrel testing.

- D. The City shall be given a 48-hour notice prior to any testing. A City Inspector shall witness all testing.
- E. Testing for the compressive strength of concrete and density of compacted soil shall be performed at the expense of the Developer by City approved geotechnical and material testing companies. Materials not meeting required specification shall be removed, replaced and retested for compliance at the expense of the Developer.
- F. Results of tests performed by testing companies shall be provided to the City Engineer. Testing forms used by the City are included in Appendices D and E.

SECTION 6: CONNECTING TO CITY SYSTEMS

6.01 General

- A. Provided the Developer has complied with the terms of these Policies and Procedures and the installed water distribution system and/or sanitary sewerage system is in accordance with the approved plans and specifications herein, the City shall allow the Developer/Owner to connect the new system(s) into the City system(s). Copies of the City letters approving construction of the Developer's water distribution system and/or sanitary sewerage system are included in Appendices I and J.
- B. City cannot authorize a wastewater conveyance plan which involves hauling of wastewater.
- C. The conveyance of wastewater onto the ground or into a receiving stream is prohibited.

6.02 Connection to Existing Systems

- A. The City Inspector shall be notified at least 48-hours in advance of connecting to the City systems.
- B. A City Inspector shall be present during connection of the Developer's systems to the City systems. Prior to installation, a City Inspector shall approve all materials supplied by the Developer to be used in making the connection.
- C. Upon completing a water distribution and/or sanitary sewer connection, the Developer's systems shall be valved-off and/or immediately plugged, respectively, until Final Acceptance.
- D. Should an unauthorized connection or connection without the presence of the City Inspector be made to the City systems, the Developer shall be subject to a fine and/or refusal of service. Under any circumstance, the Developer shall expose and thoroughly clean all piping and components of the connection for inspection by the City. Noncompliant connections and/or damage to the City system shall be repaired or replaced in conformance with the approved plans and specifications herein at the expense of the Developer.

SECTION 7: SYSTEM ACCEPTANCE

7.01 General

Acceptance of the Developer's water distribution system and/or sanitary sewerage system shall be considered by the City at such time as the Developer has met all terms and conditions of the specifications herein.

7.02 Final Inspection

Prior to final acceptance, a City Inspector shall perform a final inspection of the water distribution system and/or sanitary sewerage system after all pavement is installed. The final inspection shall determine the proper installation of valve and meter boxes, the integrity of manholes, and the absence of debris in sewers and presence of proper curb markings. Results of the inspection shall be recorded on a Final Inspection Report and is included in Appendices G and H. Deficiencies encountered shall be immediately addressed and an additional final inspection shall be required.

All GEFA, SRF, ARRA, USEPA, DOC and Georgia Board of Regent funded projects will require State inspection of the construction.

7.03 Warranty

The Developer shall warrant the development's water distribution system and/or sanitary sewerage system and hold the City harmless against all costs, expenses and losses, including, without limitation, incidental and consequential damages, resulting from any defects in the Developer's water distribution system and/or sanitary sewerage system, including without limitation, defects in material and workmanship, which are discovered or arise within a minimum period of one (1) year beginning on the date of final acceptance by the City. A longer warranty period may be required on certain material requirements and/or construction standards as indicated in the specifications.

7.04 Final Acceptance

- A. Final acceptance of the Developer's water distribution system and/or sanitary sewerage system by the City shall be when written, signed and dated by the City Engineer. A copy of the City Final Acceptance Letter is included in Appendix L.
- B. Upon issuance of Final Acceptance Letter, the Developer's new system(s) may be opened to the City system(s).

SECTION 1: DESIGN REQUIREMENTS

1.01 General

The design and plan preparation of water distribution systems and sanitary sewerage systems shall conform to the specifications herein.

1.02 Licensed Professionals

- A. Water distribution system and/or gravity flow sanitary sewerage system design and plan preparation for a residential subdivision or parts thereof on a Developer's property shall be performed by a Georgia Licensed Professional Engineer who has sufficient knowledge to properly perform the design.
- B. Water distribution system and/or gravity flow sanitary sewerage system design and plan preparation for property off-site of a Developer's property shall be performed by a Georgia Licensed Professional Engineer who has sufficient knowledge to properly perform the design.
- C. Water distribution system and/or gravity flow sanitary sewerage system design and plan preparation for commercial/industrial property shall be performed by a Georgia Licensed Professional Engineer who has sufficient knowledge to properly perform the design.
- D. Force main and sanitary sewer pump station design and plan preparation shall be performed by a Georgia Licensed Professional Engineer who has sufficient knowledge to properly perform the design.
- E. The professional performing the design and preparing the plans shall seal each plan sheet with their stamp and sign their name across the stamp.

1.03 Reference Documents and Standards

General methods of design and construction shall conform to the specifications herein and the following. When standards conflict with one another, the City Engineer shall determine the applicable standard.

- A. Georgia Environmental Protection Division, Minimum Standards for Public Water Systems, May 2000.
- B. Georgia Environmental Protection Division, Rules and Regulations for Water Quality Control, Chapter 391-3-6, latest effective date.
- C. Water Environment Federation, Regulation of Sewer Use, WEF Manual of Practice No. 3, latest edition.
- D. Mississippi River Board of State Public Health and Environmental Managers, generally referred to as the "Ten (10) States Standards for Sewage Works".

- E. Gravity Sanitary Sewer Design and Construction, American Society of Civil Engineers Manuals and Reports on Engineering Practice No. 60, Water Environment Federal Manual of Practice No. FD-5, revised April 1982
- F. Georgia Department of Transportation specifications and regulations, latest editions.
- G. Utility Accommodations Policy and Standards, Georgia Department of Transportation, Office of Utilities, latest edition.
- H. Manual on Uniform Traffic Control Devices (MUTCD)- FHWA
- I. American Water Works Association Standards, latest editions
- J. Soil Surveys of Dawson County, Georgia, by the United States Department of Agriculture, Natural Resource Conservation Service
- K. American National Standards Institute Standards, latest editions
- L. American Society for Testing and Materials Standards, latest editions.
- M. Occupational Safety and Health Administration regulations, latest editions
- N. American Society of Mechanical Engineers standards, latest editions
- O. National Electrical Manufacturer's Association standards, latest editions
- P. American Concrete Institute standards, latest editions
- Q. City of Dawsonville, Standards
- R. Dawson County, Standards

1.04 Plan Requirements

- A. Water distribution system and/or sanitary sewerage system plans shall be comprised of the following sheets as required. Each sheet should be 24" by 36" in size. The detail sheets shall contain City of Dawsonville Standard Details.
 - 1. Cover Sheet
 - 2. Site Plan Sheet
 - 3. Grading Plan
 - 4. Overall Utilities Plan Sheet
 - 5. Storm Water System Plan Sheet
 - 6. Water Distribution System Plan Sheet
 - 7. Water Distribution System Details and Construction Notes Sheet
 - 8. Gravity Sewerage System Plan Sheet
 - 9. Gravity Sewerage System Profile Sheet
 - 10. Gravity Sewerage System Details and Construction Notes Sheet

- 11. Sanitary Sewer Pump Station Site Plan and Cross-Section Sheet
- 12. Sanitary Sewer Pump Station Electrical Plan Sheet
- 13. Sanitary Sewer Pump Station Details and Construction Notes Sheet
- 14. Force Main Plan Sheet
- 15. Force Main Profile Sheet
- 16. Force Main Details and Construction Notes Sheet
- 17. Soil Erosion, Sedimentation and Pollution Control Plan Sheet
- 18. Soil Erosion, Sedimentation and Pollution Control Details and Construction Notes Sheet
- B. The drawings shall bear the following notes:
 - 1. The City of Dawsonville shall be notified 48 hours prior to any water or sewer line construction or repair. Call City Hall at (706) 265 3256.
 - 2. All water and sanitary sewer materials and workmanship shall be in accordance with the *City of Dawsonville Standard Specifications for Water and Sewerage Systems*.
 - 3. The Contractor shall be responsible for maintaining a marked-up set of design drawings showing "as-built" conditions. These "as-built" drawings shall be updated daily and made available to the City Engineer and/or the City Inspector upon request. The mark-ups shall be at the site at all times and shall be used to develop final record drawings.
- C. Water distribution and/or sanitary sewerage system plan sheets shall be prepared and include as a minimum the information detailed on the Technical Review Checklist included in Appendix B.
- D. Concurrent with the initial submittal of water distribution system and/or sanitary sewerage system plans to the City, a completed City of Dawsonville *Water Distribution/Sanitary Sewer Addition Submittal* form shall be submitted. The City plan review process shall not commence until the City of Dawsonville *Water Distribution/Sanitary Sewer Addition Submittal* form is received. The City of Dawsonville *Water Distribution/Sanitary Sewer Addition Submittal* form is included in Appendix A.

1.05 Modifications to Plans

Water Distribution system and/or sanitary sewerage system plans approved by the City of Dawsonville shall not be modified or deviated from during construction unless the City's Superintendent approves modifications or deviations in writing.

1.06 As-Built Drawings

- A. As-Built Drawings of the installed water distribution system and/or sanitary sewerage system shall be prepared and sealed in accordance with Division II, Section 1.02.
- B. As-Built Drawings shall be completed upon connecting the development's water distribution system and/or sanitary sewerage system to the City system.
- C. As-Built Drawings shall show all street names, right-of-way widths, related easements, lot number, location, size and material of all water distribution system and/or sanitary sewerage system components.
- D. As-Built Drawings shall be prepared using a survey that ties the development's water distribution system and/or sanitary sewerage systems horizontally and vertically to the local USGS benchmarks or temporary benchmarks established by the City Engineer.
- E. The following certification shall be included on the As-Built Drawings and signed by the Design Engineer:
 - "I certify that the water distribution system and/or sanitary sewerage system depicted by this As-Built Drawing was constructed in accordance with the plans approved by the City. The information submitted on this As-Built Drawing is to the best of my knowledge and belief, true, accurate and complete."
- F. The Developer's water distribution system and/or sanitary sewerage system shall not be considered complete until the As-Built Drawings have been reviewed and approved by the City Engineer. Note that three (3) reproducible sets of the approved As-Built Drawings shall be submitted to the City Engineer.

SECTION 2: WATER DISTRIBUTION

2.01 General

- A. The following section shall be used as a guideline for the design of water mains and service lines that will supply residential, apartment, commercial and industrial complexes.
- B. The City may require the above referenced complexes to have multiple connection points to existing force mains or water mains.
- C. The City will require a rain sensor shutoff on all irrigation systems that connect to City water lines.
- D. The following certification shall be made by the Design Engineer and included with Water Distribution System construction notes:

"I certify that the proposed water distribution system has been designed in accordance with the City of Dawsonville Specification document titled "Standard Specifications for Water Distribution Systems and Sanitary Sewerage systems", Latest Edition including all amendments."

2.02 Design Usage Rates and Hydraulics

A. Design shall be based on the following average daily domestic usage rates. Daily usage rates may be increased at the discretion of the City Engineer.

•	Residential House	300 gallons per day per connection
•	Apartment and Mobile Home	233 gallons per day per unit
•	Hotel and Motel	126 gallon per day per room
•	Commercial and Industrial	Indicate as required

B. Design shall also provide for the following instantaneous demands:

Total Units Served	GPM Per Unit
0-5	6
6-10	4
11-20	3
21-100	2.5
101-200	2.0
201+	1.5

- C. Indicate on plans whether structures require fire suppression systems. If so, then indicate the required fire suppression system usage rate (gallons per minute).
- D. The designed system shall provide for the following fire flow demands in the development per IFC section B105.
 - Residential AreaOne and two family dwellings

750 Minimum 1,000 gallons per minute See table B105.1(1)

Commercial/Industrial
 AreaBuildings other than one and two Family

1,000 gallons per minuteSee IFC Table B105.1 (2)

- E. The following range of supply pressures shall be assumed when sizing system components:
 - Pressure 20 psi to 150 psi
 - Flow duration shall be per IFC Table B105.1 (1) and Table B105.1 (2)
 - One and two family dwellings fire flow may be reduced by 50% if approved fire sprinkler system is installed.
 - Building other than one and two family fire flow may be reduced up to 25% but the resulting fire flow cannot be reduced below 1,000 gpm with NFPA 13 sprinkler system or reduced below 1,500 gpm with NFPA 13R sprinkler system per IFC Table B105.2.

2.03 Water Line Material and Size

- A. Water mains and associated fittings shall be ductile iron, in accordance with Division III of these specification, with a minimum diameter of eight (8") inches.
- B. Water main pipe assembly shall be push-on joint unless indicated otherwise.
- C. Water main pipe assembly in a bore casing shall be restrained joint unless indicated otherwise.
- D. Service line supplying a single fire hydrant within the right-of way shall be ductile iron with a minimum diameter of six (6") inches.
- E. Service line serving one (1) residential lot shall be CTSPE-340:SDR 9; pressure class 200 polyethylene with a minimum diameter of ³/₄-inch.
- F. Service line serving two (2) residential lots shall be CTSPE-340:SDR 9; pressure class 200 polyethylene with a minimum diameter of one (1") inch. The service line

- shall be fitted with a tee. The tee and service lines, coming from the tee, shall have a minimum diameter of ¾-inch.
- G. Service line serving commercial/industrial buildings shall be polyethylene with a minimum diameter of ³/₄-inch and a maximum diameter of three (3") inches or ductile iron sized as necessary for the demand.
- H. All service lines crossing streets shall be installed inside <u>Class 160 PVC schedule</u> <u>40 PVC casing</u>. Casing shall extend to a minimum of 5 feet on each side of the curb/pavement.

2.04 Water Line Location

- A. Situate water mains outside of pavement, within street right-of-way when possible, at five (5') feet beyond the back of curb or edge of pavement or at location approved by the City Engineer.
- B. Situate water mains on the north and east sides of streets when possible.
- C. Water mains shall have a minimum ten (10') foot horizontal separation from any sewer.
- D. When water mains cross sewer lines, they shall cross perpendicular with the water line at least eighteen (18") inches above the sewer line. The pipes used in the crossing shall be laid so that the joints on the water line pipe are equidistant from the sewer line and the joints on the sewer line pipe are equidistance from the water line.
- E. Water mains constructed parallel to streams shall be located such that the nearest area of disturbed soil is greater than fifty (50') feet from the stream bank.
- F. Water mains crossing streams of widths greater than fifteen (15") feet shall have restrained joint piping.
- G. A service line supplying a single lot shall be located as near a respective property boundary as practical.
- H. A service line serving two (2) lots, from the water main to the meter, shall be located in-line with the lots' common property boundary.
- I. No water main or service line shall be constructed on solid waste landfills.
- J. No water main or service line shall be constructed to serve a structure that is constructed on or to be constructed on a solid waste landfill.
- K. Each water main and service line shall be locatable.

- L. A ¾-inch service tap and corporation stop for chlorination shall be shown on the plans and installed on the proposed water main within 3 to 5 feet of each connection to the City's water main.
- M. Use Detail Nos. 1.1, 3.1, 5.1 and 10.1 when applicable.

2.05 Fire Hydrant Location and Spacing

- A. Hydrants shall be situated within the street's right-of-way adjacent to the right-of-way boundary.
- B. A hydrant shall be situated at the end of each cul-de-sac or dead-end street.
- C. Fire hydrants servicing residential areas shall be spaced a maximum of 500 feet as measured along the edge of pavement. No lot shall be greater than 250 feet from a fire hydrant.
- D. Fire hydrants servicing commercial and industrial areas shall be spaced a maximum of 300 feet as measured along the edge of pavement.
- E. Fire hydrants on County ROW shall be a maximum of 1,000 feet spaced as measured along the edge of pavement.
- F. Each fire hydrant shall have a 6-inch gate valve bolted directly to a hydrant tee.
- G. Fire hydrants shall not be placed on water mains which are smaller than 8-inches in diameter unless the line is looped, and the Developer can show that the furthest hydrant can maintain a flow of 7501,000 gpm at 20 psi.
- H. Acceptable Manufacturers:
 - a. Mueller
 - b. M&H Valve
 - c. American Darling
- I. Use Detail Nos. 4.1 and 5.1 when applicable.

2.06 Valve Size and Location

- A. Valves shall be of the same size as the pipe in which the valve is situated, unless noted otherwise.
- B. A corporation valve shall be situated at the tap location into a water main of a ¾-inch or 1 -inch service line.
- C. A ball gate valve shall be situated downstream of tapping saddle or tapping sleeve when tapping into a water main or force main with a 1½-inch or 2-inch service line.

 The ball valve shall be situated within a meter vault.
- D.C. Gate valves shall be situated in-line with water mains as follows, unless noted otherwise. The placement of gate valves under pavement shall <u>not</u> be allowed, unless

noted otherwise. Valve location markers shall be installed for all valves (except hydrant lead valves). The markers shall be four feet high concrete posts with brass discs cast into one side. The marker shall extend 24 inches above finish grade.

- 1. Attach tapping gate valve immediately downstream of tapping saddle or tapping sleeve when tapping into water main or force main with a smaller water main or service line.
- 2.1. Situate gate valve immediately downstream of a tee when connecting into a water main.
- 3.2. Situate gate valve on each immediate side of a three (3)-way connection or four (4)-way connection.
- 4.3. Situate gate valve on the hydrant lead immediately upstream of a fire hydrant when hydrant is situated within street right-of-way.
- All tees shall have two (2) valves away from the source, and every cross shall have three valves away from the source.
- 6.5. Tapping sleeves and tapping valves should not be used to connect a new line to an existing water line unless approved by the City Engineer. Instead, a tee with two valves shall be installed.
- 7.6. Situate gate valve on the hydrant lead within street right-of-way when fire service extends beyond right-of-way.
- 8.7. A gate valve shall be installed on the water main at every other hydrant.
- 9.8. Situate gate valve in water mains at a maximum spacing of 800 feet.
- 10.9. Gate valve shall be situated outside of vault immediately upstream and downstream of three (3") inch and larger water meter/check valve assemblies.
- 41.10. A slip type valve box shall be situated over a gate valve.
- 12.11. All stub-out valves and dead-end valves shall have a mechanical joint cap.
- E. A curb stop shall be situated inside of meter box immediately upstream of \(^{5}\)8-inch through two (2") inch water meter/check valve assemblies.
- F. Use Detail Nos. 6.1, 6.2 and 6.3 when applicable.

2.07 Water Line Depth

- A. Water mains and service lines to fire hydrants shall have a minimum suitable soil cover of four (4') feet. The depth of four (4') feet from finish grade to top of pipe shall be determined as follows.
 - 1. As measured from edge of pavement (top back-of-curb) when the finish grade elevation of the pipe route is equal to or greater than adjacent pavement elevation.

- 2. As measured from finish grade elevation of the pipe route when the pipe route elevation is less than the adjacent pavement elevation.
- 3. Other depth approved by the City Engineer.
- B. Water mains crossing under a creek or ditch shall have a minimum suitable soil cover of two (2') feet.
- C. Water mains shall have a minimum 18-inch vertical separation from any sewer.
- D. Service lines under pavement shall have a minimum suitable soil cover of 2.5 feet as measured from top of curb or top of pavement.
- E. Service lines outside of pavement shall have a minimum suitable soil cover of 1.5 feet as measured from the meter.
- F. Water mains 18-inches in diameter and larger shall be checked for buoyancy when submerged in groundwater or situated within the 100-year flood zone.
- G. Use Detail Nos. 1.1, 2.1 and 3.1 when applicable.

2.08 Thrust Restraint

- A. Thrust restraint shall be installed at all fittings, hydrants, valves and other locations deemed necessary by the City Engineer.
- B. Thrust restraints at hydrants and valves shall be accomplished by installing a minimum of two (2) eyebolts on the hydrant or valve and tying to an adjacent fitting or concrete tie-back using three-quarter (3/4") inch stainless steel threaded rod.
- C. Thrust restraint at fittings shall be accomplished by using one of the following methods.
 - 1. Cast-in-place concrete blocking installed to dimensions as shown on thrust block detail.
 - 2. Restrained joint pipe and fittings installed upon approval by City Engineer.
- D. Use Detail Nos. 4.1, 7.1, 7.2 and 9.1 when applicable.

2.09 Water Meters and Backflow Prevention

- A. All water usage including fire and irrigation shall be metered and have <u>testable</u> backflow prevention devices.
- B. Fire sprinkler mains shall have <u>testable</u> double detector check valves <u>backflow</u> <u>preventor</u>. A double check backflow preventer and a detector check valve may be installed in lieu of the double detector check valve.
- C. Establishments determined by the City or City Engineer to have a high backflow hazard shall have reduced pressure zone (RPZ) backflow preventers. RPZ backflow prevents shall be installed in an insulated enclosure above ground.

- D. All water usage shall be metered using a single meter when possible.
- E. Meters shall be sized according to the anticipated demand and Division III, Section 7 of this document.
- F. Each meter shall have a backflow device consisting of double check valve assembly.
- G. Water meters and backflow devices shall be housed in boxes or vaults.
- H. Water meters and backflow devices shall be situated within the street right-of-way or in an easement area.
- I. Use Detail Nos. 11.1, 12.1, 13.1, 14.1, 15.1 and 16.1 when applicable.

SECTION 3: GRAVITY FLOW SEWERS

3.01 General

- A. The following section shall be used as a guideline for the design of gravity flow sanitary sewerage systems.
- B. Sanitary sewerage system design shall incorporate the following City Sewer Use Ordinances:
 - 1. Ordinance Grease Management Program.
 - 2. Ordinance Oil/Water and Sand/Grit Interceptors.
- C. The following certification shall be made by the Design Engineer and included with Sanitary Sewerage system construction notes:

"I certify that the proposed sanitary sewerage system has been designed in accordance with the City of Dawsonville Specification document titled "Standard Specifications for Water Distribution Systems and Sanitary Sewerage systems", Latest Edition including all amendments."

3.02 Design Flow Rates:

A. Design shall be based in the following average daily flow rates for single-family and multi-family residences. Daily flow rates may be increased at the discretion of the City Engineer.

• Residential House 300 gallons per day per connection

• Apartment and Mobile Home 233 gallons per day per unit

• Hotel and Motel 126 gallons per day per room

- B. Design of industrial and commercial sanitary sewer flow rates shall be a minimum of 1.5 times that of the design average daily water usage or as approved by the City Engineer
- C. A peaking factor of 3.0 shall be used when determining a "Peak Design Flow". The peaking factor may be changed at the discretion of the City Engineer.

3.03 Hydraulics

- A. Gravity sewer pipe should be designed to carry "Peak Design Flow" at half full.
- B. Gravity sewer pipe shall have straight alignment and consistent grade change between manholes.
- C. Sewers shall yield mean velocities of not less than 2.0 feet per second based on the Manning Formula using an "n" value of 0.013.

D. Recommended and absolute minimum pipe slopes for gravity sewer based on the size of pipe to be installed are summarized in the following table.

Slope Requirements

<u>Diameter</u>	Absolute Minimum	Recommended Minimum
8-inch	0.40%	0.70%
10-inch	0.29%	0.50%
12-inch	0.22%	0.40%
14-inch	0.22%	0.40%
15-inch	0.15%	0.30%
16-inch	0.15%	0.30%
18-inch	0.12%	0.24%
20-inch	0.12%	0.24%
21-inch	0.10%	0.20%
24-inch	0.08%	0.16%
27-inch	0.07%	0.14%
30-inch	0.06%	0.12%
36-inch	0.05%	0.10%

- E. Sewers with slopes less than the recommended minimum may be accepted on a site by site basis.
- F. The over sizing of pipe to meet minimum grade requirements shall be prohibited.
- G. Outlet pipes connected to a terminal manhole shall have a minimum slope of 1.00%.
- H. The maximum slope of a gravity sewer shall be 15.0%. When approved by the City Engineer, slopes between 15.0% and 20.0% may be used with the addition of concrete anchors (dead man). The Developer's Engineer shall determine the size and spacing of anchors. The City Engineer shall approve all anchor designs.
- I. When increasing the size of gravity sewer pipe, pipe crowns shall be matched at manholes.
- J. Angle formed by alignment of influent and effluent sewer pipe at manhole shall be greater than or equal (\geq) to 90° and less than or equal (\leq) to 270°.
- K. The surcharging of manholes shall be prohibited.

3.04 Sewer Material and Size

- A. Sewer outfall, sewer main and lateral pipe and associated fittings shall be ductile iron or PVC in accordance with Division III of these specifications.
- B. Sewer pipe assembly shall be push-on joint unless indicated otherwise.
- C. Transition coupling used to connect pipes of differing material shall be rigid and made of steel and/or ductile iron or other material approved by the City Engineer.
- D. Sewer outfalls and sewer mains shall have a minimum diameter of eight (8") inches.
- E. Laterals shall have a minimum diameter of six (6") inches.
- F. Sewers of PVC shall not exceed eighteen (18") inches in diameter.
- G. Sewers eighteen (18") inches in diameter and larger shall be checked for buoyancy when submerged in groundwater or situated within the 100-year flood zone.

3.05 Sewer Location

- A. Situate sewer outfalls and mains at the centerline of a right-of-way when possible or at the centerline of an easement.
- B. If the sewer main and outfall line cannot be situated in the right of way, a twenty (20') foot easement shall be provided. No permanent structures shall be built within the sewer easement. Easements shall have suitable soil compaction, bearing capacity, and slopes to allow a 25-ton sewer vacuum/jet truck to traverse the entire length.
- C. Sewer outfalls and mains shall have a minimum ten (10') foot horizontal and eighteen (18") inch minimum vertical separation from any water main.
- D. Lateral from the sewer main to the structure being served shall be located nearest the center of the property as practical. A separate lateral shall service each property.
- E. A 6" cleanout with brass cap shall be installed inside a turf box cast iron box on each service at the property line.
- F. All laterals shall connect to sewer main rather than direct connection into a manhole.
- G.F. Sewer outfalls, mains and laterals constructed parallel to streams shall be located such that the nearest area of disturbed soil is greater than fifty (50') feet from the stream bank.
- H.G. Sewers shall not be installed under or over any lake, reservoir or detention pond.
- LH. No sewerage system component shall be constructed on solid waste landfills.
- J.I. No sewerage system component shall be constructed to serve a structure that is constructed on or to be constructed on a solid waste landfill.
- K.J. Each <u>PVC</u> sewer outfall, <u>PVC</u> sewer main and <u>PVC</u> lateral shall be locatable by means of <u>mylar tape</u>, <u>10AWG</u> wire or other method approved by the City Engineer.

L.K. Use Detail No. 1.1, 2.2 and 2.3 when applicable.

3.06 Sewer Depth and Structural Integrity

- A. Sewer outfalls and mains shall have a minimum suitable soil cover of four (4') feet or other depth approved by the City Engineer.
- B. Sewer main shall be situated at a depth as to allow lateral to be constructed at a minimum two (2%) percent slope from sewer main to probable structure location on each lot to be served assuming lateral is three (3') feet in depth at probable structure location.
- C. Vertical connection of a lateral into a sewer main shall be prohibited.
- D.C. Top of pipe shall be two (2') feet below any stream or ditch when crossed or paralleled.
- **E.D.** DIP shall be used for the following conditions:
 - A. Where depth of soil cover is less than four (4') feet before or after sewer installation.
 - B. Where depth of soil cover is greater than fifteen (15') feet before or after sewer installation.
 - C. Where sewer crosses over or under a storm drain pipe.
 - D. Where sewer crosses over or under a water main.
 - E. Where sewer crosses over or under a stream or ditch.
 - F. Other locations deemed necessary by the City Engineer or Engineer.
 - G. When a sewer crosses under a stream, a minimum of two (2) cast-in-place concrete collars shall be installed on the pipe, down gradient from the stream.
 - H. Sewers shall have a minimum 18-inch vertical separation from any water main.
 - I. Use Detail Nos. 18.1, 18.2, 19.1 and 20.1 when applicable.

3.07 Manhole Location and Spacing

- A. Provide a manhole at each change in grade, pipe size, alignment, intersection and at terminal point of sewer.
- B. Space manholes a maximum of 400 feet of continuous run for pipes 15 inches in diameter and smaller.
- C. Space manholes a maximum of 500 feet of continuous run for pipes 18 inches in diameter and larger.

- D. Manholes situated within the 100-year flood elevation zone shall have top of cover elevations above the 100-year flood elevation or cover shall be with gasket and bolted down.
- E. Manholes situated within the 100-year flood elevation zone and/or the groundwater table shall be checked for buoyancy.
- F. Manhole inverts shall be constructed to provide a smooth transition between influent and effluent piping.
- G. Influent pipes with inverts greater than 2' above the outlet pipe invert shall be connected to the manhole by an outside drop.
- H. Manholes situated in pavement shall have top of covers level with finished grade.
- I. Manholes situated in non-paved areas shall have top of covers a minimum of twelve (12") inches above finished grade.
- J. Elevation drop between the inlet and outlet should be a minimum of 0.2 feet.
- K. Use Detail No. 21.1 when applicable.

SECTION 4: FORCE MAINS

4.01 General

The following section shall be used as a guideline for the design of sanitary sewer force mains.

4.02 Hydraulics

- A. Force mains shall be sized to allow for a minimum velocity of 2 ft/s and a maximum velocity of 5 ft/s.
- B. Sanitary sewer force mains shall not flow down grade into a receiving manhole.
- C. Combination air release/vacuum valves shall be installed in force mains at all high points of elevation and spaced along apparent flat routes as determined by the City Engineer.

4.03 Force Main Material and Size

- A. Force mains and associated fittings shall be ductile iron with a minimum diameter of four (4") inches.
- B. Force main pipe assembly shall be push-on joint unless indicated otherwise.
- C. Force main pipe assembly in a bore casing shall be restrained joint unless indicated otherwise.

C.D. Force main shall be ductile iron pipe.

4.04 Force Main Location

- A. Force mains shall be situated outside of pavement within a street right-of-way near the boundary of the right-of-way or centered within an easement.
- B. Gravity sewer lines and sewer force mains shall be located on the opposite side of pavement from water distribution and raw water force mains when possible and/or shall have a minimum ten (10') foot horizontal separation.
- C. Force mains constructed parallel to streams shall be located such that the nearest area of disturbed soil is greater than fifty (50') feet from the stream bank.
- D. Force mains crossing streams of width greater than 15' shall have restrained joint piping.
- E. No force main shall be constructed on solid waste landfills.
- F. No force main shall be constructed to serve a component that is constructed on or to be constructed on a solid waste landfill.
- G. Each force main shall be locatable by means of detection tape or wire as approved by the City Engineer.

4.05 Force Main Depth

- A. Force mains shall have a minimum suitable soil cover of four (4') feet. Depth from finish grade to top of pipe shall be determined as follows.
 - 1. As measured from edge of pavement when pipe route existing/finish grade elevation is equal to or greater than adjacent pavement elevation.
 - 2. As measured from pipe route existing/finish grade elevation when the route elevation is less than the adjacent pavement.
 - 3. Other depth approved by the City Engineer
- B. Force main crossing under a creek or ditch shall have a minimum suitable soil cover of two (2') feet.
- C. Water distribution force mains shall have a minimum eighteen (18") inch vertical separation from any sewer.
- D. Force mains eighteen (18") inches in diameter and larger shall be checked for buoyancy when submerged in groundwater or situated within the 100-year flood zone.
- E. Use Detail Nos. 2.1 and 3.1 when applicable.

4.06 Thrust Restraint

- A. Thrust restraint shall be installed at all fittings and other locations deemed necessary by the City Engineer.
- B. Thrust restraint at fittings shall be accomplished by using one of the following methods.
 - 1. Cast-in-place concrete blocking installed to dimensions as shown on thrust block detail.
 - 2. Restrained Joint pipe and fittings installed upon approval by City Engineer.
- C. Use Detail No. 9.1 when applicable.

4.07 Combination Air Vacuum/Release Valves

- A. Combination air vacuum/release valves shall be sized according to the manufacturer's recommendations.
- B. Valves designated for use with water or sewage shall be used on the respective system.
- C. Valve shall be housed in a "dog house" style manhole.
- D. Use Detail No. 22.1 when applicable.

SECTION 5: AERIAL PIPE

5.01 General

- A. This section shall be used as a guideline for the design of aerial pipe that pertains to water distribution piping and sanitary sewers.
- B. Requirements of Division II, Sections 2, 3 and 4, where applicable, shall apply to the design of aerial piping.
- C. A pipe that crosses over a perennial or intermittent stream must not cause an impedance to navigation or cause water to pool upstream of the pipe.

5.02 Aerial Pipe Material

- A. Aerial pipe shall be ductile iron or steel.
- B. Aerial pipe assembly shall comply with manufacturers' recommendations.
- C. Aerial pipe fittings shall comply with manufacturers' recommendations and specifications herein.

5.03 Aerial Pipe Support

- A. Aerial pipe supports shall be situated on suitable soils. Prior to support design, soils beneath proposed aerial pipe route shall be examined by a soils testing company for bearing capacity and suitability for construction. A soils report shall accompany the proposed aerial route.
- B. Aerial pipe support spacing shall not exceed 40 feet. Aerial pipe support spacing shall be based on results of the soil's bearing capacity and spacing recommendations of the pipe and fitting manufacturers.
- C. Aerial pipe supports shall be comprised of concrete piers set atop concrete spread footings. Spread footing size shall be based on results of the soil's bearing capacity and reactive forces within the aerial pipe.
- D. Minimum pier diameters and footing sizes shall be as summarized in Detail No. 24.1.
- E. Pipe shall be secured to piers as indicated on Detail No. 24.1.
- F. Use Detail No. 24.1 when applicable.

SECTION 6: PUMP STATIONS

6.01 General

- A. This section shall be used as a guideline for the design of pump stations.
- B. The preferred conveyance method for sewage is gravity. Pump stations will not be permitted unless the Developer can demonstrate that the development cannot be served solely by gravity sewer.
- C. Pumps, motors and associated components that produce a complete pump station shall be furnished as a package by a single manufacturer.
- D. A backup power system shall be provided for each pump station.
- E. An emergency bypass connection shall be provided at all pump stations. Use Detail No. 17.1.
- F. Pump stations shall be equipped with a remote terminal unit (RTU) compatible with the City's existing SCADA supplier. A single supplier shall furnish all components of the SCADA system.
- G. Material requirements specific to pump stations, stand-by power and SCADA are included in this section.
- H. A minimum of two (2) sets of operation and maintenance manuals for each component of the pump station, backup power system and SCADA system shall be provided prior to final acceptance.
- I. The following information shall be submitted and approved prior to plan approval.
 - 1. 100-year flood elevation contour; electrical and mechanical components shall be situated above the 100-year flood elevation.
 - 2. Total Dynamic Head (friction loss through force main, static head, friction loss through pumps and suction piping)
 - 3. Pump Net Positive Suction Head; available and required
 - 4. Pump operating system curve plotted onto manufacturer's pump curve
 - 5. Pump cycle time
 - 6. Wet well buoyancy calculation
 - 7. Radio communication path survey
- J. A 2-inch SDR 21, Class 200 water line with RPZ backflow preventer and ³/₄" yard hydrant shall be installed at all pump stations. The backflow preventer shall be installed in an above ground insulated closure. Use Detail No. 12.2.
- K. All gravity sewer and force main piping onsite shall be ductile iron pipe.

6.02 Pump Station Package

A. Pumps

- 1. A minimum of two (2) pumps shall be provided with capability to pump peak flows with one pump out of service.
- 2. Pumps shall be generally as follows:
 - a. Pumps shall be submersible.
 - b. Where acceptable to the City, the pumps shall be above ground self-priming.
- 3. Pumps shall be sized so that the operational system curve intersects the middle one-third portion of the pump operational curve. Each pump shall have the discharge capacity to overcome the development's peak discharge. Components shall be sized to provide two (2) to five (5) pump cycles per hour at average daily flow conditions.
- 4. Each pump shall be equipped with discharge pressure gauges mounted on a resilient panel. Pressure gauges shall be as follows.
 - a. Four (4") inches in diameter.
 - b. Glycerin filled for "no shock".
 - c. Graduated from a 0-inch to 70-inch water column.
 - d. Equipped with brass shut off valves and fittings.
- 5. City will determine list of spare pump parts that shall be provided for each pump station upon submitting.
- 6. Acceptable Manufacturers
 - Submersible Pump: Flygt
 - Above Ground: Smith & Loveless or Gorman-Rupp

B. Electrical

- 1. Each pump shall be equipped with a motor sized so that the pump operational system curve intersects the middle one-third portion of the pump operational curve. Motor shall not be overloaded at the design condition or at any head in the operational system curve.
- 2. Electrical control components shall be housed in a NEMA 3R stainless steel panel enclosure.
 - a. Control components shall be mounted to a removable back panel that is secured to the enclosure.

- b. Enclosure door shall be hinged, equipped with captive closing hardware and a neoprene gasket applied.
- 3. A circuit breaker shall be provided for each pump motor.
- 4. A padlocking operating mechanism shall be installed on each motor circuit breaker.
- 5. Operator handles for the mechanism shall be located on the exterior of the control compartment door with interlocks which permit the door to be opened only when circuit breakers are in the "Off" position.
- 6. A NEMA rated magnetic motor starter shall be provided for each pump motor.
 - a. Power contacts shall be double-break and made of cadmium oxide silver.
 - b. Motor starters shall be equipped to provide under voltage release and overload protection on all three phases.
 - c. Motor starter contacts shall be easily replaceable without removing the motor starter from its mounted position.
 - d. Motors having a 20-horse power rating or larger shall be equipped with soft start.
- 7. Motor overload relays shall be provided and have visual trip indication with trip-free operation. Reset buttons shall permit resetting of each motor without opening control panel door.
- 8. Control circuits shall be protected by a circuit breaker which shall be connected in such a manner as to allow control power to be disconnected from all control circuits.
- 9. A Hand-Off-Auto switch shall be provided for each pump to permit manual start and stop of each pump individually and to select automatic operation of each pump under control of the level control system.
- 10. A three-position sequence selector shall be provided to select the automatic alternation of the pumps or to select pump number 1 to be the lead pump for each pumping cycle or to select pump number 2 to be the lead pump for each pumping cycle.
- 11. A run indication light for each pump shall be mounted on the panel enclosure. Light shall indicate that the motor is or should be running.
- 12. A thermostat shall be mounted on each pump to detect high temperature. Should excessive temperature exist, protection circuitry shall override level control system and turn off pump motors to protect against excessive

- temperatures. An indicator light shall be located on front of control panel. Pump shall remain locked out until pump motor is manually reset.
- 13. Elapsed time indicator shall be mounted on each motor to indicate total run time in hours and tenths of hours.

C. Liquid Level Control

- 1. Liquid Level in wet well shall be monitored via "Electronic Pressure Switch 2000" (EPS-2000 controller) and shall include integral components to sense pressure conditions. The controller shall be equipped as follows.
 - a. Level control electrical enclosure: NEMA 1 stainless steel
 - b. EMI and RFI suppression
 - c. DC-current power supply and 108 132/60/1 AC-current
 - d. Function in temperature range of 0° F through 131° F
 - e. Control range from zero (0) to twelve (12) feet with a repeat capacity of \pm 0.1 feet
 - f. Equipped with pump start delays preset at a fixed time delay of five (5) seconds to prevent simultaneous motor starts
- 2. Provide high water alarm visible indicator on control panel. Maintain alarm signal until manual reset.
- 3. Provide high water alarm audio indicator. Maintain alarm signal until manual reset of silence circuit.
- 4. Discrete output signal wiring shall be installed on pre-wired terminal blocks for SCADA monitoring. The signal output shall be for wet well high level, pump motor temperature and pump operation status.
- 5. Provide the following liquid level elevations on design drawings: Lead Pump "On", Lead Pump "Off", Lag Pump "On", Lag Pump "Off", High Water Alarm.

D. Discharge Piping

- 1. Piping shall be minimum 4-inch diameter, flanged, ductile iron.
- 2. Discharge pipe shall include flow meter capable of reading gallons per minute and capable 4-20mamp output.
- E. Equipment Bids: See Details

6.03 Backup Power System

A. Each pump station shall be equipped with one (1) preassembled (factory built), skid-mounted, weatherproof, backup power system.

- 1. The backup power system shall monitor the incoming electrical utility and, should power from the utility be interrupted, supply the power required to operate all pump station pump motors and required controllers.
- 2. Backup power system shall perform using a maximum 85% of its rated capacity to operate two (2) motors in series or four (4) motors in staged series based on the pump motor's calculated load. System shall provide for a 10 to 15 second delay for start-up of the second motor(s); a 20 kw generator is a minimum.
- 3. Backup power system within 100 feet of an occupied structure shall be equipped with a sound attenuation device to reduce noise levels to less than 80 decibels.
- 4. A five (5) year warranty shall be provided for the backup power system
- B. The backup power system shall supply three-phase power and be generally equipped as follows.
 - 1. Enclosure; enclosure shall house all components of the backup power system and shall include as a minimum the following:
 - a. Seamless fiberglass cowling as follows:
 - 1) Fiberglass shall have a gel coating of suitable thickness and density to provide durability, abrasion resistance, color fastness, gloss retention and shall be impervious to sewage, grease, oil, diesel or other common chemicals.
 - 2) Walls and ceiling shall be solid fiberglass having minimum 3/16 inch thickness and constructed in accordance with ASTM D-579.
 - 3) Enclosure shall be capable of withstanding a wind load of 85 miles per hour. The roof shall be capable of withstanding a minimum loading of 30 psf. All beams and trusses shall be fiberglass.
 - 4) Exterior color of enclosure shall be approved by City.
 - 5) Tip-up design equipped with mounted gas cylinders such that operator shall not exert more than 25 pounds of lifting force to tip the enclosure to the full open position.
 - 6) Enclosure shall be hinged securely at one end to a steel base. Hinges shall be for heavy duty use, cadmium plated and epoxy coated.

- b. Steel base as follows:
 - 1) Base shall of size to accommodate fiberglass cowling.
 - 2) Base shall be constructed of steel channel with transverse mid beams supporting a ¼ inch thick steel deck.
 - 3) All steel surfaces shall be prepared to a SSPC –SP6 condition and finished with an epoxy coating system.
 - 4) Steel base shall be fitted with an integral doubled wall fuel tank having such capacity as to supply engine/generator set for a 24-hour continuous operation period. Diesel fuel tank shall be furnished with a bacteria inhibitor to prevent bacteria buildup and shall be fitted with a water separator.
- c. Louvers as follows:
 - 1) Engine intake and exhaust louvers sized to provide sufficient air for both cooling and combustion.
 - 2) Louvers shall be 2-inch multi-blade, minimum 12-gauge anodized aluminum, 6063-T5 alloy with removable 5/8 inch aluminum mesh.
 - 3) A duct assembly shall be provided between the engine radiator and the exhaust louver.
 - 4) Louvers and duct assemblies shall be factory installed.
- 2. <u>Engine/Generator</u>: Engine/generator set shall be manufactured by Onan/Cummings or Caterpillar and include as a minimum the following:
 - a. Electric starter
 - b. Positive displacement full pressure, lubrication oil pump with full flow lubrication oil filters
 - c. Engine speed governor
 - d. Battery and battery charging alternator with solid state regulator
 - e. Fuel system as follows:
 - 1) No.2 diesel fuel.
 - 2) Replaceable dry element air cleaner, air supply, return and vent lines.
 - 3) Fuel filter with replacement element.
 - 4) Engine driven displacement fuel pump.

- 5) Fuel system piping. Piping shall be black iron.
- a. Engine mounted thermostatically controlled water jacket heaters.
- b. Engine cooling system as follows:
 - 1) Engine mounted radiator system
 - 2) Belt driven pusher fan
 - 3) Coolant liquid and pump
 - 4) Thermostat temperature control
 - 5) Radiator with duct adapter flange
- c. Exhaust system as follows:
 - 1) Spiral type exhaust muffler. Muffler weight shall not be supported by the engine.
 - 2) Exhaust piping shall be routed through the side wall of the backup power system's base and terminated outside enclosure.
 - 3) Piping outside enclosure shall be insulated with a minimum 2-inch thick calcium silicate thermal insulation with aluminum shroud.
 - 4) Provide sound attenuation as required.
- d. Engine protective devices to indicate alarm and engine shutdown as follows.
 - 1) Provide as discreet outputs for SCADA monitoring.
 - 2) Low coolant temperature alarm
 - 3) Low coolant level shutdown
 - 4) Low lubrication oil pressure alarm and shutdown
 - 5) High coolant temperature alarm and shutdown
 - 6) Over speed shutdown
 - 7) Over crank lockout
 - 8) Transfer switch off
 - 9) External warning light. (outside cowling)
- e. Alternator shall be as follows
 - 1) 3-phase, broad range, able to be reconnected with 12 leads

- 2) Single bearing and directly coupled to the drive engine through a flexible coupling for self-alignment
- 4-pole, revolving field type with static exciter and magnetic amplifier voltage regulator. Voltage regulation shall be within +/- 5% of the rated voltage. Sustained voltage dip shall be less than 12% of rated voltage when full load and rated power factor is applied. Recovery to stable operation shall occur within two (2) seconds
- 4) Alternator, exciter and voltage regulator shall be manufactured by the same manufacturer as the engine/generator
- f. The following set controls shall be included on a lighted unit mounted control module:
 - 1) Oil pressure gauge
 - 2) Coolant temperature gauge
 - 3) Running time meter
 - 4) Charge rate ammeter
 - 5) Manual reset field circuit breaker
 - 6) Manual selector switch (Run-Stop-Remote)
 - 7) Remote two (2) wire start control
 - 8) Automatic engine shutdown
- g. The following set control lamps shall be on a mounted control module:
 - 1) Run
 - 2) Fault
 - 3) Overcrank
 - 4) Overspeed
 - 5) Switch Off
 - 6) Low Engine Temperature
 - 7) Low Oil Pressure
- 2. Automatic transfer switch shall be manufactured by the same engine/generator set manufacturer and include as a minimum the following:
 - a. Switch shall be rated for:

- 1) Continuous operation over an ambient temperature range of 25° to 125 ° Fahrenheit.
- 2) All classes of load, both inductive and noninductive at 600 volts and tungsten lamp loads at 250 volts.
- 3) To close on an inrush current up to and including 20 times the continuous rating of the switch without welding or excessive burning of the contacts.
- 4) To switch loads up to and including its interrupting current capacity.
- 5) To endure 6,000 cycles of operation at rated current at a rate of 6 cycles per minute without failure; one cycle shall consist of one complete opening and closing of both sets of contacts on an inrush current 10 times the continuous rating of the switch
- b. Switch shall have the following mechanical characteristics:
 - 1) Terminal lugs for either copper or aluminum wire with cadmium oxide contacts
 - 2) Mechanical and electrical interlocks to prevent simultaneous energizing of both normal and emergency services
 - 3) Mechanically held on both normal and emergency sides
 - 4) 3-pole with solid neutral
 - 5) 25-amp rated auxiliary contacts: two (2) on the line side, three (3) on the emergency side
- c. Switch shall have the following control logic:
 - 1) Signals engine/generator set to start in the event of a power interruption. A solid-state time delay start shall be provided adjustable from 0 to 6 seconds.
 - 2) Monitors each ungrounded line with an adjustable voltage, solid state under voltage sensor to sense a decrease of voltage below a set point or a loss of voltage on any phase of the normal power source.
 - 3) Retransfers the load to the line after normal power restoration
 - 4) Signals engine/generator set to stop after load retransfer to normal source

- 5) Provides a battery float charger to maintain fully charged cranking batteries
- 6) Provides test switch to simulate an interruption of power from the normal source
- 7) Provides an exerciser clock and selector switch (Load/Without Load) to automatically start the engine/generator set at regular intervals and allows it to run for a preset time period with load or without load
- d. Indicating lamps and meters shall be mounted for easy reading without opening doors.
 - 1) Indicating lamps shall include Green lamp (normal) and Red lamp (emergency) to indicate which source is supplying power to the load.
 - 2) Meter shall include Charge Meter to monitor battery charger output current.
- e. The complete automatic transfer switch shall be mounted in a NEMA 1 rated enclosure, installed within the backup power system enclosure and wired to the engine/generator set at the manufacturer's facility.
- f. <u>Acceptable Manufacturer</u>: Acceptable manufacturer shall be as follows.
 - Cummins Onan
 - Caterpillar

6.04 Telemetry

- A. The pump station shall be equipped with a functioning radio-based telemetry system that is compatible with the existing City SCADA system.
- B. The central computer system (CS) for the City SCADA system is located at City Hall.
- C. The pump station SCADA system design shall be completed in two (2) phases.
 - 1. Phase One. A radio survey shall be performed to determine the feasibility and scope of the radio communication path from the CS to the Pump station site. The radio survey shall be submitted to and approved by the City prior to City approval of the development's proposed sewerage system design.
 - 2. Acceptable Supplier: J. K. Duren & Company
 - 3. Phase Two. A single process instrumentation and control system supplier shall provide a complete SCADA system including but not limited to a remote

terminal unit (RTU), radio communication equipment, and necessary accessories. The system supplier shall provide all necessary hardware modifications and software programming of all computers and RTUs associated with SCADA system including necessary program modifications at the CS.

D. Radio Survey – Phase One

- 1. Complete a radio survey to determine communication path from central SCADA system to pump station site. Coordinate site activities with the City.
- 2. Record coordinates at each site and identifies their specific location on topography mapping software.
- 3. Generate terrain and radio path analysis profiles. Profiles shall be used to calculate the line-of-site radio path between the desired locations including projected tower height. Profiles shall then be used to identify potential interference and/or the feasibility of each potential radio path.
- 4. Transmit controlled radio signals between potential sites of interest and measure the quality and strength of the received signal. Use the specific radio to be used in the actual application using the same power level that will be used under normal operating conditions.
- 5. Provide results of radio survey and recommendations in the form of a report to the City for review. Include the following items (as a minimum) in the report.
 - a. Topographic map showing central City SCADA system site, proposed pump station site and radio path including repeaters (if necessary).
 - b. Test Methods
 - c. Site Coordinates
 - d. Test Equipment and Recommendations
 - e. Radio Paths Measured
 - f. Antenna Height Recommendations
 - g. System Recommendation
- 6. The City shall approve the radio survey's results and recommendations prior to proceeding with the design of the pump station SCADA system.

E. Remote Terminal Unit – Phase Two

1. Remote Terminal Unit (RTU) shall provide the interface between field signals and the CS. –The RTU shall distribute communication, acquire data and

control functions for the SCADA system. The following is a minimal list of functions required to be monitored; more functions may be required (i.e. for series staged station) or at the discretion of the City.

- a. <u>Generator Fail</u>: Alarm if the generator is in a failed condition
- b. <u>Pumps 1 and 2 Run Status</u>: Display the pump ON or OFF status. Calculate the pump elapsed runtime. Allow the runtime to be manually reset at the operator workstation.
- c. <u>Pumps 1 and 2 Remote Run/Stop</u>: Provide for the pump to be remotely started and stopped. The remote start and stop function shall operate only if the pump local selector switch is in the AUTO position.
- d. <u>Pumps 1 and 2 High Temperature</u>: Alarm on pump high temperature.
- e. <u>Pumps 1 and 2 Pressure</u>: Display continuous and discharge pressures.
- f. <u>Pump station Level</u>: Display continuous pump station wet well liquid level. Alarm on Low Level in wet well (Less than 4.25mA dc signal).
- g. <u>High Water Level Alarm</u>: Display if the High Water Level switch is activated.
- h. <u>RTU Power Monitoring</u>: Alarm on AC power failure or Low Battery Power.
- i. <u>Discharge Meter Monitoring</u>: Display gallon per minute output.

2. Performance

- a. RTU shall operate as a subordinate to the CS. RTU shall have all data acquisition, communication and control functions necessary to interface with CS.
- b. RTU shall support full or partial scan by the CS.
- c. Data acquisition functions shall include but are not limited to the following:
 - 1) RTU shall scan all input points at least every second for current value.
 - 2) Store in buffer memory: currents values of all I/O, pulse input accumulations and filtered values of analog inputs.
 - 3) RTU response to interrogations shall use the buffer memory contents.
- d. All analog inputs have first order exponential digital filtering with programmable filter constants downloaded from the CS.

- 1) Default values for filter constants stored in ROM.
- 2) Filter constants expressed as time constants, range from 10 to 100 seconds with corresponding sample intervals ranging from 1 to 10 seconds.
- 3) As a minimum, filter constants individually adjustable by RTU.
- 4) Individual filter constants not required per analog input point.
- e. RTU shall utilize real-time, multitasking firmware to implement system communication protocol, local data acquisition and control functions.
 - 1) Shutdown due to loss of power shall not result in the loss of programs.
 - 2) Startup after restoration of power shall not require manual or CS intervention.
 - 3) Upon startup, RTU shall configure itself for its connected inputs and outputs and use default values for all initializations. RTU shall indicate its power reset condition to the CS in its reply to the first scan after reset. The CS shall then download all revised initialization constants. Firmware design utilizes a watchdog timer to monitor proper operation.
- f. All integrated circuits are second sourced.
- 3. Interfaces
 - a. Types
 - 1) With communication circuits to the CS
 - 2) With pump station input and output signals
 - 3) With power source
 - b. RTU shall use a radio communication link utilizing a modem suitable for interface with the radio. Radio shall operate at a 4800 or 9,600 baud with characteristics to match limitations of the radio channel. The RTU communicates with the CS at 9,600 baud in a asynchronous or synchronous format in a half-duplex mode over a party line channel.
 - c. Input/Output

- 1) All Input/Output (I/O) points shall be in accordance with ANSI C37.90.
- Discrete Inputs (DI) shall be external with normally open or normally closed contacts. RTU impresses a dc voltage on the contact to read their status. Internal RTU logic optically isolated from external contacts. Provide means to limit read current to 100 mA maximum. Noise filters or other techniques shall be utilized to reject short time constant noise, contact bounce and 60-Hz pickup.
- Analog Inputs (AI) shall be 4 to 20 mA dc signals in accordance with ISA S50.1 and be fully isolated with a maximum impedance of 250 ohms. Accuracy shall be +/-0.25% of full scale under all operating temperature conditions. Common mode rejection is at a 100 dB minimum. Normal mode noise rejection is at a 40 dB minimum for frequencies of 60Hz and above.
- 4) Discrete Outputs (DO) shall have interposing relays with SPDT contact. Relays shall have a 5-amp rating and suited for 100,000 operations at 25° C. DO shall be Latch Type or Momentary Type. Latch Type Output shall not change state on loss of power by RTU. Momentary Type Output shall be single pulse with an adjustable duration ranging from 0.2 to 2 seconds.
- 5) Analog Outputs (AO) shall be 4 to 20 mA dc signals in accordance with ISA S50.1, Type 2, Class L and be fully isolated. Accuracy shall be +/- 0.25% of full scale under all operating temperature conditions. Resolution shall be 0.1% of full scale or better.

d. Power

- 1) RTU shall operate on 117-volt rms. The RTU shall have internal power On/Off switch and an On status LED.
- 2) Power supply shall have an ac/dc converter, a battery charger and dc/dc converters. Power supply shall trickle charge battery when ac power is On and fail over to battery when ac power is Off.
- 3) Provide batteries sufficient to power RTU for a minimum of four (4) hours after loss of 117-volt ac power. Battery shall be

- of the sealed lead acid/calcium gelled electrolyte maintenance free type with rated trickle charge life in excess of two (2) years.
- 4) RTU shall have an ac power fail detection circuit relay. A Discrete Input shall be created upon detection of an ac power failure.
- 5) Acceptable Manufacturer: J. K. Duren & Company.

F. Panel Fabrication – Phase Two

- 1. Panel including all components (i.e. instruments, wiring and enclosure) shall be fabricated at the Process Instrumentation and Control System Supplier's factory.
- 2. Provide temperature control as follows.
 - a. Panel shall be sized to adequately dissipate heat from components mounted inside panel or in panel face.
 - b. Panel shall have thermostatically controlled space heater to maintain internal panel temperature above dew point.
- 3. Provide electrical as follows:
 - a. Feeder Circuits
 - 1) One or more 120V ac, 60Hz.
 - 2) Provide for feeder circuit conduit entry.
 - 3) Provide terminal board for termination of wires
 - b. Panel Power
 - 1) Provide main circuit breaker and a circuit breaker on each individual branch circuit distributed from panel.
 - 2) Branch circuit shall blow only branch breaker and not trip main breaker.
 - 3) Breakers shall be located to provide clear view and accessibility when panel door is opened.
 - c. Circuit Wiring
 - 1) A maximum of 20 devices shall be on a single circuit.
 - 2) Multiple units shall perform parallel operations.
 - 3) Provide for panel lighting and service duplex outlet on separate 15-amp 120V ac branch circuit.

- d. Signal Distribution
 - 1) 4 to 20 mA dc signals may be distributed as 1 to 5V dc within panel.
 - 2) 4 to 20 mA dc signals shall be isolated outside panel.
 - 3) Signal wiring shall be twisted, shielded pairs.
- e. Signal Switching
 - 1) Use dry circuit type relays or switches.
 - 2) 4 to 20 mA loops shall not be interrupted during switching
- f. Relays
 - 1) <u>General</u>: Plug-in type socket to rail mounting.
 - 2) Provide dust cover and hold-down clips with relay enclosure.
 - 3) Signal switch relay with gold or silver contact material having an expected mechanical life of 10,000,000 operations and expected electrical life at rated load of 100,000 operations with an LED or neon indicator lamp.
 - 4) Control circuit switch relay (non-latching) with silver cadmium oxide alloy contact having an expected mechanical life of 10,000,000 operations and expected electrical life at rated load of 100,000 operations with an LED or neon indicator lamp and push-to-test button.
 - 5) Control circuit switch relay (latching) with silver cadmium oxide alloy contact having an expected mechanical life of 500,000 operations and expected electrical life at rated load of 50,000 operations with an LED or neon indicator lamp.
 - 6) Control circuit switch relay (time delay) with silver cadmium oxide alloy contact having time delay set point and mode of operation with an integral potentiometer adjustment with knob external to dust cover
 - 7) <u>Acceptable Manufacturers</u>:
 - Potter and Brumfield
 - Allen Bradley
 - Omron

- g. Power Supply
 - 1) Provide as required to power instruments requiring external dc power including two-wire transmitters and dc relays.
 - 2) Convert 120V ac, 60Hz power to dc power of appropriate voltage so that instruments will operate within required tolerances.
 - 3) Provide output over voltage and over current protection devices.
 - 4) Enclosure shall be NEMA 1 rated.
 - 5) dc supply line to each individual two-wire transmitted shall be fitted with an indicating type fuse mounted for easy replacement
- h. Internal Light and Service Outlet
 - 1) Provide 100-watt incandescent light operated by switch.
 - 2) Mount inside and in the top of back of panel.
 - 3) Provide protective metal shield for light.
 - 4) Provide three-wire, 120V, 15 amp duplex receptacle.
- i. Use following table for standard pushbutton colors and inscriptions. Use black colored lettering on white and yellow buttons. Use white colored lettering on black, red and green buttons.

TABLE II-6.04.D-1 PUSHBUTTON STANDARD COLORS AND INSCRIPTIONS				
Tag Function	Inscription	Color		
O/O	On / Off	Red / Green		
O/C	Open / Close	Red / Green		
O/C/A	Open / Close / Auto	Red / Green / White		
O/O/A	On / off / Auto	Red / Green / White		
M/A	Manual / Auto	Yellow / White		
S/S	Start / Stop	Red / Green		
Reset	Reset	Red		

TABLE II-6.04.D-1 PUSHBUTTON STANDARD COLORS AND INSCRIPTIONS Tag Function Inscription Color Emergency Stop Emergency Stop Red

j. Use following table for standard light colors and inscriptions. Use black colored lettering on white and amber lenses. Use white colored lettering on red and green lenses.

	TABLE II-6.04.D-2					
LIGHT STAND	LIGHT STANDARD COLORS AND INSCRIPTIONS					
Tag Function	Inscription	Color				
On	On	Red				
Off	Off	Green				
Open	Open	Red				
Closed	Closed	Green				
Low	Low	Green				
Fail	Fail	Amber				
High	High	Red				
Auto	Auto	White				
Manual	Manual	Amber				
Local	Local	White				
Remote	Remote	Amber				

- 4. Panel enclosure shall be as follows:
 - a. NEMA 4X rated and constructed of fiberglass. Size shall be $28"H\ x\ 20"W\ x\ 10"D$.
 - b. Enclosure shall have a rubber-gasket door with a continuous hinge. Door shall be secured to enclosure with stainless steel lockable quick-release clamps.
 - c. <u>Acceptable Manufacturers</u>:
 - Hoffman Engineering Co.

Vynckier

G. Radio Communication Equipment – Phase Two

1. Transceiver

- a. Transceiver shall contain FM transmitter and FM receiver suitable for operation in the 451.3625 MHz UHF.
- b. Transceiver shall operate from power provided by the RTU; provide solid-state circuitry throughout.
- c. Designate transmitter emission in accordance with FCC Rules and Regulations.
- d. Acceptable Manufacturer is Dexter Fortson.

2. Transmission Cable

- a. Cable shall have performance characteristics suited for overall system functional requirements.
- b. Cable shall have a minimum bend radius of ten (10") inches.
- c. Cable shall have a dielectric jacket and be suited for direct burial and other outdoor design environments.
- d. Acceptable Manufacturer is Beldon RG8.

3. Antenna

- a. Antenna shall be suited for outdoor environments.
- b. Antenna shall provide a low resistance dc path to ground for lightning protection.
- c. <u>Acceptable Manufacturers</u>:
 - Omni (Antennex) Model FG4503, 3dB Omnidirectional Antenna
 - Yagi (Astron) Model 460-6, 9dB Yagi Antenna

4. Tower and Mast

- a. Tower and mast shall support antenna at an elevation to achieve functional requirements.
- b. Tower shall be self-supporting (without guide wires).
- c. Lightning arrestors shall be provided and connected to ground rods by cable.
- d. <u>Acceptable Manufacturers:</u>

- Trylon Tital
- Rohn Industries

6.05 Wet Well

- A. A wet well shall be provided with each pump station. Wet well shall have a minimum 6-foot inside diameter (or equivalent rectangular area).
- B. Wet well shall be sized in conjunction with pump level control to provide 2 to 5 pump cycles per hour at average daily flow conditions.
 - 1. Wet well shall resist floatation during and after construction.
 - 2. Access to the wet well shall be provided via a 2-foot diameter manhole ring and light weight cover situated two (2') feet centered from inside edge of wet well or by a three (3') foot by three (3') foot H-20 aluminum hatch.

6.06 Equipment Pads

Backup power system shall be secured by expansion or cast-in anchors to a monolithically poured steel reinforced concrete slab. The slab shall have a minimum depth of eight (8") inches. The slab shall extend a minimum of six (6") inches beyond all sides of enclosure.

6.07 General Electrical Requirements:

- A. Electrical service to pump station site area shall be 3-phase, AC current.
- B. Service Entrance, main disconnect, mini-power center and SCADA panel shall be secured to a fabricated steel (galvanized) stand.
- C. Service entrance shall meet the requirements of the local electric utility.
- D. Main Disconnect and mini-power center shall be sized to meet NEC code.
- E. Service wire to all components shall be stranded copper cable sized to meet NEC code and placed in conduit. Service wire within fenced site area shall be underground except where entering equipment.
 - 1. Below grade conduit shall be rigid, schedule 40, PVC meeting requirements of NEMA TC-3 and UL 651. Joints shall be slip-on and glued in accordance with manufacturer's instructions.
 - 2. At-grade, above-grade and/or concrete encased conduit shall be rigid galvanized steel meeting the requirements of ANSI C80.1 and UL 6. Joints shall be threaded with galvanized fittings meeting the requirements of UL 514B. Set screw and thread less compression fittings shall not be permitted.
 - 3. At-grade or above-grade conduit shall not have horizontal runs greater than 12 inches. Horizontal runs of conduit shall be supported by a minimum of two concrete anchored uni-struts (galvanized).

- F. Area security light shall consist of a photocell having a minimum 150 watt metal halide fixture. The light shall be installed at a minimum height of 15 feet above finished grade. The light pole shall be tubular steel and factory finished with a dark bronze color coating. The light pole shall be anchored in accordance with the manufacturer's recommendations.
- G. All components shall be grounded to copper grounding rods in accordance with NEC code.
 - 1. Ground rods shall be copper-clad having minimum diameter of 5/8-inch with a length of 10 feet.
 - 2. Ground conductors shall be stranded copper.
 - 3. Ground connections shall be of the exothermic weld type suitable for exposure to elements or direct burial.
- H. Provide electrical site plan with design submittal.

6.08 Property and Site Area

- A. A minimum 60-foot by 60-foot area of property, to be donated to the City, shall be provided for each pump station. The pump station and associated components shall be situated within 40-foot by 40-foot site area; a larger property/site area may be required.
- B. A twelve (12') foot wide access drive situated within a thirty (30') foot wide strip of property, to be donated to the City, shall be provided for each pump station. The access drive shall intersect a public right-of-way. Road material may be changed as approved by the City Engineer.
- C. The property boundary shall be situated no closer than fifty (50') feet from the nearest structure.
- D. Corners of pump station site area shall be at same elevation.
- E. Pump station site area shall be sloped away from slab covering the wet well at a minimum 1.0% slope.
- F. Potable water and a non-freeze yard hydrant with RPZ Backflow Preventer shall be provided at each pump station.
- G. Provide plug valve in force main at a maximum distance of 20 feet from pump station.
- H. Site area (minimum 40-foot by 40-foot) shall be fenced with black vinyl coated chain link fence.
- I. That portion of the pump station site area not in concrete shall be covered with crushed stone at a minimum depth of six (6") inches.

J. Property area outside fenced area shall be landscaped.

6.09 Fence and Landscaping

- A. A minimum 5-foot clearance shall be provided from fence to major components (i.e. pump station, emergency bypass generator, SCADA tower, electrical stand).
- B. Fence shall have height of six (6') feet with three (3) strands of galvanized barbed wire atop posts.
 - 1. Fence mesh shall be 9-gauge wire (galvanized) and black vinyl coated.
 - 2. Top rail shall be 1-5% inch diameter schedule SS40.
 - 3. Intermediate post shall be 2-inch diameter schedule SS40.
 - 4. Corner and gate posts shall be 3-inch minimum diameter schedule SS40.
 - 5. Gate shall have a width of fourteen (14') feet, two 7-foot swing gates positioned in location approved by the City.
 - 6. Gate shall be secured by the City with a keyed lock conforming to the City standard; sergeant lock.
 - 7. "No Trespassing" signs to include pump station name, address and emergency phone numbers shall be installed on all fenced sides by the City conforming to the City standard.
- C. Property outside of the fenced area shall be landscaped.
 - 1. Install weed barrier fabric over all areas to receive landscaping.
 - 2. Install evergreen shrubbery spaced not greater than five (5') feet apart around the fenced area. Shrubbery shall have a minimum height of three (3') feet at the time of planting and shall have a mature height of at least six (6') feet. Prepare soil in accordance with shrubbery planting instructions.
 - 3. Install wood mulch, clean of dirt, around shrubbery and to the edge of the easement area. Mulch shall have a depth of three (3") inches.
- D. Use Detail Nos. 28.1 and 29.1 when applicable for paving access roads and affected streets.

SECTION 7 – SOIL EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN

7.01 General Requirements

Siltation and soil erosion shall be prevented by the installation of erosion control measures and practices prior to or concurrent with land-disturbing activities. The Contractor shall utilize silt fence, hay bales, mulch, grass, slope drains, and other erosion control devices or machines as necessary. All soil erosion and sedimentation control measures must be installed prior to initiation of construction activity. Siltation and erosion control shall be in compliance with the "Georgia Erosion and Sedimentation Act of 1975" as amended to date and these specifications. Any violations of the Act shall be subject to those penalties and fines as defined by the Act.

7.02 Plan

Provide an erosion and sedimentation control plan including Best Management Practices (BMP), details, legend, drawings and locations shown on the plans.

7.03 Standards and Specifications

All designs will conform to and all work will be performed in accordance with the standards and Specifications of the publication entitled "Manual For Erosion and Sediment Control in Georgia" and in compliance with the "Georgia Erosion and Sedimentation Act of 1975" as amended to date. All materials shall be first-class quality to withstand a 25-year storm event.

7.04 Site Conditions

- A. Protect all adjacent public and private property from erosion and other pollutants due to construction activities.
- B. Erosion control plan must comply with all local and state regulations.
- C. Erosion control details and symbols may be taken directly from the "Manual for Erosion and Sediment Control in Georgia," latest edition.
- D. Land disturbing activity shall not commence until the land disturbing permit has been issued.
- E. If disturbance is an acre or more of land for the entire project, the owner must file a Notice of Intent (NOI) to be covered under one of the NPDES general construction permits (GAR 100001, GAR 100002 or GAR 100003). Information about filing requirements and copies of the general permits can be found at http://www.gaepd.org/Documents.techguide_wpd.html#sw. If you have any questions regarding this subject, please call the EPD district office listed in the general permit.

7.05 Erosion Control Program

Vegetation and mulch shall be applied to applicable areas <u>immediately</u> after grading is completed. Best Management Practices, BMP(s), shall be employed to prevent erosion in areas of bare soils and concentrated water flows. Diversions and dikes shall be installed to divert sediment-laden runoff into the sediment barriers and to protect cut and fill slopes from erosive water flows.

7.06 Temporary Erosion Control

Temporary erosion control shall consist of planting temporary grass of a quick growing species such as millet, rye grass, or cereal grasses suitable to the area. The Contractor shall use all means necessary to control dust on and near the work site and barrow areas when dust is caused by construction operations. The Contractor should thoroughly moisten all surfaces as required to prevent dust from being a nuisance to the public, neighbors and concurrent performance of work on the site. Water for irrigation and dust control shall be provided by the owner.

7.07 Rip Rap

Rip Rap shall consist of stone or bagged sand-cement to a thickness of approximately twelve inches (12"). Stone shall be hard quarry or fieldstone of such quality that it will not disintegrate on exposure to water or weathering. Stone shall range in weight from a minimum of 25-pounds to a maximum of 150-pounds with at least 75-percent of the pieces weighing more than 50-pounds. Bagged sand cement Rip Rap shall consist of one part cement and five parts of sand in clean cloth bags, approximately one cubic foot in size.

7.08 Grassing of Disturbed Areas

- A. <u>Preparation</u>: The Contractor shall grass all areas that were disturbed by clearing or construction operations. Grassing shall be by conventional seeding or hydroseeding. Before seeding commences, the Contractor shall spread the stored stock piled top soil over the entire area, working the better top soil into the more rocky areas. The entire area shall be smoothed with a drag and all clods broken up. All deleterious material, large stones, roots, limbs, and other debris shall be removed to leave a smooth area that would be suitable for mowing. Grassing (by seeding) shall be completed as soon as practical after finish grading is completed in order to minimize erosion from rainfall and run-off. Any erosion occurring in grassed areas shall be immediately repaired.
- B. <u>Grass Seed</u>: Grass seed selection shall be in accordance with the "Manual for Erosion and Sediment Control in Georgia", as amended to date. Otherwise, the type of grass seed applied shall be determined by site and soil compatibility and City discretion.
- C. <u>Temporary and Permanent Seeding</u>: Temporary seeding is required on any areas exposed longer than 14 days. Permanent seeding shall be done only if it can be completed between March 1 and April 15 or August 15 and November 15. Use temporary seeding during remaining periods. The work of spreading and compacting

topsoil shall be performed by the Contractor, as specified, prior to planting Rye grass. Replacing or repairing of eroded topsoil shall be done as necessary at time of later grassing.

- D. <u>Hydro-seeding</u>: Mix the seed (inoculated if needed), fertilizer, and wood cellulose or wood pulp fiber mulch with water and apply in slurry uniformly over the area to be treated. Apply within one hour after the mixture is made.
- E. <u>Grassing Along Highway Right-of-Way</u>: Grassing along highway right-of-way shall be in accordance with Department of Transportation, State of Georgia, Standard Specifications, Construction of Roads and Bridges, Latest Edition, Section 700.
- F. <u>Grassing through Established Pastures and Lawns</u>: Grassing through established pastures and lawns shall be by seeding with the same type of grass as was disturbed or, if acceptable to the Owner, seeding may be as recommended by the local Soil Conservation Agent.
- G. <u>Grassing of Other Areas</u>: Grassing of other areas shall be by planting grass of a quick growing species that will also give a permanent cover. Permanent seeding shall be a mixture of Bermuda and centipede.
- H. <u>Planting</u>: Preparation of soil along highway right-of-way shall be as set out in highway specifications. The contractor shall use recognized equipment and materials in preparation of the soils. Before planting, a fertilizer of 6-12-12 composition or approved equal shall be evenly applied at the rate of 1,500 pounds per acre and disced or harrowed into the dampened soil.
- I. <u>Maintenance</u>: Temporary grass may be intermixed with permanent grass. However, the contractor shall cut and maintain the temporary grass such that the permanent grass will become established and not be choked out. The contractor will be required to maintain the grass on the site until the job is accepted.

7.09 Seed, Fertilizer, Mulch

Seed, fertilizer, mulch and periodic watering shall be applied in adequate quantities to assure a satisfactory ground cover over the entire disturbed area of construction operations. Water thoroughly as soon as completed and at least twice daily, or more often if necessary to provide continuous growth without setback until all growth from seed is thoroughly established.

The mulching material will consist of dry straw or hay of good quality free of seeds of competing plants, and at the rate of two or two and a half tons per acre, respectively. Straw or hay mulch will be applied uniformly over the disturbed areas, to achieve 75-percent coverage. It must be spread within 24-hours after seeding is done. The spreading must be done by blower-type or other mulch- spreading equipment or by hand and anchored by pressing the mulch into the soil. Anchoring must be done immediately after the mulch is spread. A disk harrow with the disk set straight or a special "packer disk" may be used. The

disk may be smooth or aerated and should be 20-inches or more in diameter and 8- to 12-inches apart. The edges of the disk should be dull enough not to cut the mulch but sharp enough to press into the soil leaving much of it in an erect position.

7.10 Slope Stabilization

Sedimentation shall be controlled by the use of hay mulch on slopes 3:1 or less. On slopes greater than 3:1, the Contractor shall install blankets. Prior to placing the blanket, the grassing shall have been completed and the area left in a smooth, uniform condition, free from stones, lumps, roots, other material, which would prevent from making snug contact with the underlying soil.

- A. <u>Fiberglass Blanket:</u> The fiberglass blanket shall be machine produced consisting of uniform layer of continuous, randomly-oriented glass fiber strands. The blanket shall be at least 48-inches wide and weighing a minimum of 0.2-pounds per square yard when used on slopes and 0.4 pounds per square yard when in waterways.
 - 1. <u>Securing and Stapling</u>: All staples shall be driven flush with the ground. Staples for securing the blanket shall be made from cold drawn wire not less that 6-inch lengths of 14-gauge, to form a "U" of 1-inch in width. Longer staples may be required for loose soil.

Each strip of the blanket shall be held firmly in place by means of three rows of staples; one row along each edge and one row along the middle. The staples shall be spaced no more than 3-feet apart in each row with the staples in the middle row spaced alternately with those at the edges. The edge staples shall be placed in the 2-inch overlap. At the end of each blanket, staples shall be placed in a row with spacing of approximately 12-inches.

An anchor slot or trench, 9-inches in depth, shall be dug across the upgrade end of the site. The first 12-inches of the blanket shall be placed in the trench and the backfill tamped solidly in place. Adjacent strip ends shall overlap 2-inches and adjoining ends shall overlap 6-inches with the upstream section on top.

B. Organic Fiber Blanket:

- 1. <u>Straw Blanket</u>: A machine-produced blanket of clean, weed-free straw from agricultural crops with consistent thickness and the straw evenly distributed over the entire area of the blanket.
 - a. <u>Slopes</u>: The top of each blanket shall be covered with a photodegradable plastic mesh having a maximum mesh size of 5/16 × 5/16-inch, which is sewn to the straw using biodegradable thread. The blanket shall be at least 48-inches wide with a minimum thickness of 3/8-inch and a minimum dry weight of 0.5-pounds per square yard.

- b. <u>Waterways</u>: The blanket shall be the same as for slopes except having the photodegradable plastic mesh on the top and bottom.
- 2. <u>Excelsior Blanket</u>: A machine produced mat of curled wood excelsior of which 80-percent has 6-inch or longer fiber length, with consistent thickness and the fiber evenly distributed over the entire area of the blanket. The blanket shall be smolder resistant. The top of the blanket shall be clearly labeled.
 - a. <u>Slopes</u>: The top of each blanket shall be covered with a photodegradable plastic mesh having a maximum mesh size of 1½ × 3-inch. The blanket shall be at least 48-inches wide with a minimum thickness of ½-inch and a minimum dry weight of 0.8-pounds per square yard.
 - b. <u>Waterways</u>: The blanket shall be the same as for slopes except having the photodegradable plastic mesh on the top and bottom.
- 3. <u>Securing and Stapling</u>: Staples shall be driven vertically into the ground to anchor the plastic mesh. Staples shall be spaced approximately 2-yards apart on each side of the blanket and one row in the center alternately spaced between each side staple. Where blankets are laid side to side, the staples shall be placed with ½ of the staple anchoring mesh form each blanket. At the beginning of a blanket, staples shall be placed in a row with spacing of approximately 12-inches.

In waterways, there shall be no longitudinal seams unless overlapped at least 6-inches with the upgrade section on top. The first 12-inches of the first row of blankets shall be placed in a 6-inch deep anchor slot stapled in the bottom, the slot shall be backfilled and solidly tamped

7.11 Final Stabilization

When monitoring is required, stabilized means at least 70% of the soil surface is uniformly covered in permanent vegetation unlike the NPDES Storm Water Discharges Associated with Construction Activities, General Permit (GAR 100001, 100002, 100003), which includes installation of equivalent permanent stabilization measures (such as the use of riprap, gabions, permanent mulches, or geotextiles). Permanent vegetation consists of planted trees, shrubs, perennial vines; a crop of perennial vegetation appropriate for the season and region; or a crop of annual vegetation and a seeding of target crop perennials appropriate for the region such that within the growing season a 70% coverage by the perennial crop is

achieved. For linear construction projects on agricultural or silvicultural lands, stabilized means stabilizing it for its agricultural or silvicultural use.

Final acceptance of grassing is defined as a full cover, over the seeded area of live and growing grass, when at least 98% of the total areas has no bare spots exceeding one square foot and the ground surface is fully stabilized against erosion.

SECTION 1: DUCTILE IRON PIPE AND FITTINGS

1.01 Pipe Classification

- A. Ductile iron (push-on) pipe shall be Pressure Class 350 or thickness class 50 thru 52 in accordance with ANSI/AWWA C151/A21.51, latest revisions.
- B. Ductile iron flanged pipe shall have a minimum pressure rating of 250 psi in accordance with ANSI/AWWA C110/A21.10 and C115/A21.15, latest revisions.
- C. Ductile iron restrained-joint pipe shall be of the flex-ring type having a welded bead lock ring having a minimum pressure rating of 250 psi in accordance with ANSI/AWWA C110/A21.10 and C151/A21.51, latest revisions.

1.02 Fitting Classification

- A. Ductile iron fittings for use with push-on joint pipe shall be standard mechanical, compact series, with a minimum pressure rating of 250 psi in accordance with ANSI/AWWA C110/A21.10 and C153/A21.53, latest revisions.
- B. Ductile iron flanged fittings shall be in accordance with ANSI/AWWA C110/A21.10, latest revision. Flanged fittings up to twelve (12") inches in size shall have a minimum pressure rating of 350 psi. Flanged fittings over twelve (12") inches in size shall have a minimum pressure rating of 250 psi.
- C. Ductile iron restrained-joint fittings shall be of the flex-ring type having a minimum pressure rating of 250 psi in accordance with ANSI/AWWA C110/A21.10 and C153/A21.53, latest revisions.

1.03 Gaskets and Bolted Connections

- A. Gaskets shall be as follows:
 - 1. Gaskets for push-on and standard mechanical joints shall be plain rubber (Styrene Butadiene Copolymer) in accordance with ANSI/AWWA C111/A21.11, latest revisions.
 - 2. Gaskets (FIELD LOK®) and (MJ FIELD LOK®) used to restrain push-on joint pipe and/or standard mechanical joint fittings, respectively, shall be plain rubber (Styrene Butadiene Copolymer) modified with stainless steel teeth in accordance with ANSI/AWWA C111/A21.11, latest revisions.
 - 3. Gaskets for restrained joint pipe of the flex-ring type and restrained joint fittings of the flex-ring type shall be plain rubber (Styrene Butadiene Copolymer) modified with ductile iron segments in accordance with ANSI/AWWA C111/A21.11, latest revisions.
 - 4. Gaskets for flanged joints shall be 1/8-inch thick, full-faced, clothed reinforced rubber in accordance with ANSI/AWWA C110/A21.10 and C115/A21.15, latest revisions.

- B. Retaining glands and adapter coupling shall be as follows:
 - 1. Retaining gland for use with standard mechanical joint fitting where joint restraint is not required shall be in accordance with ANSI/AWWA C110/A21.10 through C153/A21.53, latest revisions.
 - 2. Retaining gland (MEGALUG®) for use with standard mechanical joint fitting, where the gland acts as the restraining mechanism, shall include gripping wedges with torque limiting twist-off nuts and shall be in accordance with ANSI/AWWA C110/A21.10 through C153/A21.53, latest revisions.
 - 3. Retaining gland (MJ FIELD LOK®) for use with standard mechanical joint fitting, where the gasket acts as the restraining mechanism, shall be in accordance with ANSI/AWWA C110/A21.10 through C153/A21.53, latest revisions.
 - 4. Adapter coupling (Foster Adapter®) shall be a bolt-through positive restraining connector between two standard mechanical joints. Adapter coupling shall be in accordance with ANSI/AWWA C153/A21.53, latest revisions.

C. Bolts shall be as follows:

- 1. Bolts and nuts used for standard mechanical connections shall be tee head type with heavy hex nut conforming to ASTM A563 in accordance with AWWA C111.
- 2. Bolts and nuts used for flanged connections shall be hex type of low carbon steel; cadmium plated or zinc plated conforming to ASTM A307 in accordance with AWWA C110 and C115.

1.04 Coatings and Linings

- A. Ductile iron pipe and fittings placed on or beneath the ground surface shall have an exterior coating of asphalt (one mil) in accordance with ANSI/AWWA C151/A21.10, latest revisions.
- B. Ductile iron pipe and fittings placed above the ground surface shall have an exterior manufacturer applied universal phenolic primer (one mil) capable of accepting an epoxy coating. Finish coat shall be in accordance with Division III, Section 12.
- C. Ductile iron pipe that crosses or runs parallel to a gas transmission main, which is or may be catholically protected, shall be encased in polyethylene tubing, eight (8) mil minimum thickness, and taped in accordance with ANSI/AWWA C105/A21.5.
- D. Ductile iron pipe and fittings used in the distribution of potable water shall be cement lined in accordance with ANSI/AWWA C104/A21.4, latest revisions.

- E. Ductile iron pipe and fittings used in sanitary sewer systems shall be cement lined in accordance with ANSI/AWWA C104/A21.4, latest revision and cement lining sealed with asphalt in accordance with ANSI 21.10, latest revision and AWWA C110, C115, C151 or C153, latest revisions.
- F. For sewer pipe applications, ductile iron pipe and fittings in lieu of an asphalt coating and cement lining may be lined with Protecto 401 Ceramic Epoxy. Lining shall be applied according to the manufacturer's recommendations. Protecto 401 lining cannot be used as a potable water lining.
- G. Ductile iron fittings in lieu of an asphalt coating and cement lining may be coated and lined with five (5) to eight (8) mils of fusion bonded epoxy in accordance with AWWA/ANSI C550 and C121/A21.16. Fittings shall be listed by a certifying agency that the coating complies with ANSI/NSF 61.

1.05 Pipe Marking:

The following information shall be cast in or stamped on each pipe:

- A. Weight, class or nominal thickness
- B. Casting period
- C. Manufacturer's identifying mark
- D. Year the pipe was manufactured
- E. The letters "DI" or "DUCTILE"
- F. <u>Acceptable Manufacturers</u>: Ductile iron pipe and fittings shall be domestically manufactured. The following manufacturers are acceptable.
 - American Cast Iron Pipe Company pipe and fittings.
 - U.S. Pipe Company pipe and fittings.
 - S&B Technical Products FIELD LOK® and MJ FIELD LOK® gasket.
 - EBAA Iron Sales, Inc. MEGALUG® gland.
 - U.S. Pipe Company, Tyler/Union MJ FIELD LOK® gland.
 - Infact Corporation Foster Adapter[®].
 - Other Approved.

SECTION 2: STEEL PIPE AND FITTINGS

2.01 Pipe Classification

- A. Steel pipe shall have a minimum wall thickness of 0.25 inches and be in accordance with ASI standards.
- B. Wall thickness shall be increased as necessary to minimize deflection and deformation.

2.02 Transition Coupling

- A. Coupling used to connect pipes of differing material shall be as follows:
 - Middle ring shall be carbon steel in accordance with ASTM A513, ASTM A635 or ASME SA675 GR60.
- B. Followers shall be ductile iron.
- C. Bolts and nuts shall be carbon steel in accordance with ANSI/AWWA C111/A21.11.
- D. Gaskets shall be Buna (S blend).

2.03 Coatings and Linings

- A. Steel pipe used for water distribution and sewer shall be coated and lined in accordance with Division III, Section 12.
- B. Steel pipe used as casing shall not require a coating or lining unless otherwise indicated.
- C. <u>Acceptable Manufacturers</u>: Steel pipe and fittings shall be domestically manufactured. Acceptable manufacturers are as follows:
 - As approved pipe.
 - Dresser Transition Coupling.
 - Smith Blair Transition Coupling.
 - Other Approved.

SECTION 3: POLYETHYLENE PIPE AND FITTINGS

3.01 Polyethylene Tubing

- A. Polyethylene tubing shall be AWWA C901, Copper Tubing Size (CTS), DR 9 with PE material PE 3408, 200 PSI pressure rated, NSF certified:
- B. <u>Fittings</u>: AWWA C901 molded. No fittings allowed under roadway.
- C. <u>Joints</u>: Compression type utilizing a totally confined grip seal and coupling nut. Stainless steel tube stiffener insert shall also be used for tubing services. No joints in pipe under roadway.
- D. <u>Markings</u>: Tubing shall be fully labeled at intervals of not more than five (5') feet with brand name and manufacturer, the nominal size, PE 3408, the work TUBING and SDR9, PC200, AWWA C901-88, and the seal or mark of the testing agency.
- E. Color: Black.

SECTION 4: PVC PIPE

4.01 Casing for Polyethylene Pipe

- A. PVC pipe shall be used as a casing for polyethylene water service lines that are to be installed under pavement.
- B. PVC pipe used as a casing shall be a minimum of Schedule 40, Class 200.
- C. PVC casing pipe shall have a minimum diameter of two (2") inches.

4.02 Sewer Pipe Classification

- A. PVC pipe used as sewer shall be SDR 26 push-on joint type with O-rings in accordance with ASTM 3034.
- B. Gaskets shall be plain rubber.

4.03 Sewer Pipe Fitting Classification

- A. PVC fittings shall be in accordance with ASTM 3034.
- B. <u>Acceptable Manufacturers</u>: PVC pipe shall be domestically manufactured by approved acceptable manufacturers.

SECTION 5: VALVES

5.01 Gate Valve

- A. Gate valves smaller than three (3") inches in diameter shall be as follows.
 - 1. Valves shall be all brass or bronze construction.
 - 2. Valves shall have solid wedge gate, rising stem, and threaded bonnet.
 - 3. Valve end connections shall be compatible with pipe material in which valve is installed.
- B. Gate valves three (3") inches in diameter and larger shall be as follows.
 - 1. Water supply service shall be in accordance with AWWA 509 for resilient seated valves.
 - 2. Water supply service shall be in accordance with AWWA 515 for reduced wall thickness resilient seated valves.
 - 3. Valve body shall be ductile iron with all exterior surfaces coated with a fusion-bonded epoxy coating.
 - 4. Valves shall be bronze mounted, beveled geared, with a non-rising stem and O-ring stem seals.
 - 5. All exposed fasteners, nuts and bolts shall be stainless steel.
 - 6. Valves shall open in a counter-clockwise direction.
 - 7. Valve end connections shall be flanged or standard mechanical.
 - 8. Buried valves shall be nut operated; non-buried valves shall have hand-wheel operators.
- C. Gate valves used in conjunction with a tapping saddle shall be as follows:
 - 1. Offset type that allows the tapping device to mount to the pipe and pass through the opened valve.
 - 2. End connection to the tapping sleeve shall be flanged. End connection to accept pipe shall be mechanical joint.
- D. Gate valves three (3") inches and larger shall be coated with six (6) to eight (8) mils of fusion bonded epoxy in accordance with AWWA/ANSI C550 and C121/A21.16. Fittings shall be listed by a certifying agency that the coating complies with ANSI/NSF 61.
- E. All gate valves shall be rated for a minimum working pressure of 200250 psi. Valves shall remain water tight at working pressure after installation.

- F. All gate valve shall be installed in a valve box within a 18" square by 4" thick protective concrete pad. Provide extension stem where required to bring operating nut to within 12 inches of ground surface.
- G. The following information shall be cast in or stamped on each gate valve:
 - 1. Manufacturer's identifying mark
 - 2. Pressure Class
 - 3. The letters "DI" or DUCTILE
 - 4. Place of Manufacturing
- H. <u>Acceptable Manufacturers</u>: Valves shall be by a domestic manufacturer that produces only ductile iron bodied valves. Acceptable Manufacturers are as follows:
 - American Darling
 - U.S. Pipe Company
 - Mueller Company Ductile Iron Valves only
 - M&H Valve Company Ductile Iron Valves only.

5.02 Butterfly Valve

- A. Valves shall be in accordance with AWWA C504.
- B. Materials used in the fabrication of the valve shall meet all related requirements of ASTM.
- C. Valve bodies shall be ductile iron with integrally cast flanged ends or standard mechanical ends. Flange drilling shall be in accordance with ANSI B16.1. Two (2) trunnions for shaft bearings shall be integrally cast with valve body.
- D. Valves shall be bubble tight at 250 psi with flow in either direction and shall be capable of throttling service.
- E. Valve disc shall rotate 90° from full open position to tight shut position.
- F. Valves shall be tight closing, rubber seated with seats applied to the body or disc. Valve seats on 30 inch and larger diameter valves shall be field adjustable and replaceable without dismounting operator, disc or shaft and without removing valve from pipe. Mating seat shall be stainless steel or Monel.
- G. Valves shall be fitted with sleeve type bearings contained in hubs of valve body. Bearings shall be corrosion resistant and self-lubricating.
- H. Valve operators shall hold valve in any intermediate position between full open and full close without creeping or fluttering.

- 1. Manual operators shall be worm gear or traveling nut type and shall be fully enclosed.
- 2. Valves for buried service shall be furnished with a ground level valve position indicator unless otherwise approved by the City Engineer.
- 3. Valves for above ground service shall be furnished with a valve position indicator arrow to give valve position at any point from full open to full close.
- 4. Valves shall open when turning operator in a counter-clockwise direction.
- I. Valves shall be coated as follows.
 - 1. Valve placed on or beneath the ground surface shall have an exterior coating of asphalt (one mil) in accordance with ANSI/AWWA C151/A21.10, latest revisions.
 - 2. Valve in lieu of an asphalt coating may be coated with six (6) to eight (8) mils of fusion bonded epoxy in accordance with AWWA/ANSI C550 and C121/A21.16.
 - 3. Valve placed above the ground surface shall have an exterior manufacturer applied universal phenolic primer (one mil) capable of accepting an epoxy coating. Finish coat shall be in accordance with Division III, Section 12.
 - 4. Acceptable Manufacturers: Acceptable manufacturers are as follows:

• M&H

• Clow

Pratt

Dezurik

Mueller

5.03 Double Check Valve (Backflow Preventers)

- A. Double check valves shall be in accordance with AWWA 506, ASSE 1013 and USC-FCCC. Check valves shall be UL listed and approved by FMR.
- B. Double check valves ¾ inch in diameter through two (2") inches in diameter shall be bronze bodied having corrosion resistant moving parts with bronze threaded unions on both sides of the device.
- C. Double check valves 2-1/2 inch in diameter and larger shall be bronze, cast iron or ductile iron bodied having corrosion resistant moving parts with flanged end connections.
- D. Double check valves with reduced pressure zone assemblies shall have a sufficient air gap at the relief port and discharge shall drain away from the assembly.
- E. Double check valve assemblies shall be equipped as standard with four (4) test cocks and two (2) resilient seated shut off valves.

- F. Valve may be coated with six (6) to eight (8) mils of fusion bonded epoxy in accordance with AWWA/ANSI C550 and C121/A21.16.
- G. Valve may have an exterior manufacturer applied universal phenolic primer (one mil) capable of accepting an epoxy coating. Finish coat shall be in accordance with Division III, Section 12.
- H. <u>Acceptable Manufacturers are as follows:</u>
 - Watts Double Check (3/4" to 2"): U007QT.
 - Watts Double Check (3" to 10"): 709 or 757 w/OSY Valves.
 - Wilkins Double Check (3" to 10"): 350A or 950 w/OSY Valves.
 - Conbraco/Apollo Double Check (3/4" to 2"): 40-100 T Series.
 - Conbraco/Apollo Double Check (3" to 10"): 4S DC Series w/OSY Valves.
 - Conbraco/Apollo Double Check (3" to 10"): 4D-100 Defender w/OSY Valves.
 - Watts Reduced Pressure Zone Check Valve (3/4" to 2"): 909S-QT.
 - Watts Reduced Pressure Zone Check Valve (3" to 6"): 909 w/OSY Valves.
 - Febco Double Check (3/4" to 2"): 850 BV
 - Wilkins Reduced Pressure Zone Check Valve (3" to 6"): 375 or 975 w/OSY Valves.
 - Conbraco/Apollo Reduced Pressure Zone (3/4" to 2"): 40-200 T Series.
 - Conbraco/Apollo Reduced Pressure Zone (3" to 4"): 40-200 w/OSY Valves.
 - Conbraco/Apollo Reduced Pressure Zone (6" to 10"): 4S-RP w/OSY Valves.
 - Other Approved.

5.04 Corporation Valve

- A. Corporation valves shall be of the ball valve type and manufactured of bronze in conformance with ASTM B61, ASTM B62 and NSF 61.
- B. Corporation valves shall withstand a working pressure of <u>150300</u> psi.
- C. Corporation valves shall have crosscut threading, for direct tap into pipe, and a compression copper outlet. If a tapping saddle is used, the valve shall be saddle thread by compression copper outlet.
- D. Corporation valves shall be ³/₄ inch or one (1) inch in size as required by the service.

- E. <u>Acceptable Manufacturers</u>: Corporation valves shall be domestically manufactured. Acceptable manufacturers are as follows:
 - Ford Meter Box Co.
 - Mueller Brass
 - A.Y. McDonald Mfg.
 - Other Approved

5.05 Curb Stop

- A. Curb stops shall be of the ball valve type and manufactured of bronze in conformance with ASTM B61, ASTM B62 and NSF 61.
- B. Curb stops shall withstand a working pressure of <u>150300</u> psi.
- C. The internal ball shall be manufactured of low carbon steel coated with brass.
- D. Internal O-rings and seats shall be of Buna-N.
- E. Curb stops shall be fitted with iron pipe threads on the influent side and appropriate meter nut on the discharge side.
- F. Curb stops shall be fitted with wing locks suitable to accept a keyed padlock.
- G. Curb stops shall be ³/₄ inch, one (1") inch or two (2") inches in size as required by the service.
- H. <u>Acceptable Manufacturers</u>: Curb stops shall be domestically manufactured. Acceptable manufacturers are as follows:
 - Ford Meter Box Co. for ³/₄ inch and 1 inch sizes.
 - Mueller Brass.
 - A.Y. McDonald Mfg.
 - Other Approved.

5.06 Plug Valve

- A. Plug shall be as follows.
 - 1. Eccentric plug (non-lubricated) having a standard port design.
 - 2. Plug shall be cast iron in accordance with ASTM A126.
 - 3. Plug shall have a resilient facing of carboxylic acrylonitrile butadiene or chloropene.
- B. Valve shall be generally comprised as follows:
 - 1. Body shall be cast iron, Class B, in accordance with ASTM A126.

- 2. Seat shall be nickel, raised and welded to the body.
- 3. Bearings shall be oil impregnated permanently lubricated stainless steel Type 316 in accordance with ASTM A743 Grade CF-8M.
- 4. Packing shall be acrylonitrile butadiene V-type.
- C. End connections shall be as follows:
 - 1. Non-buried service shall have flanged ends having an ANSI 125/150 pound rating standard face and drilled.
 - 2. Buried service shall have standard mechanical joint ends in accordance with AWWA C111-64 with retaining gland that acts as a restraining mechanism.
- D. Actuator type shall be as follows:
 - 1. Non-buried service shall have G-series worm gear with 8-inch diameter hand wheel actuator input, clockwise to close.
 - 2. Buried service shall have G-series worm gear for buried service, with 2-inch square nut actuator input, clockwise to close.
- E. Valve interior and exterior surfaces shall have one (1) coat, 4 to 5 mils of TNEMEC 140 Pota-Pox Plus epoxy paint, surface preparation of SSPC-SP10.
- F. <u>Acceptable Manufacturers</u>: Acceptable manufacturers shall be as follows:
 - Dezurik
 - Other Approved

5.07 Combination Air/Vacuum Release Valve

- A. Air/Vacuum release valves shall be installed at the following locations:
 - i. All high points along force mains
 - ii. At abrupt increases in down slope or abrupt decreases in up slope
 - iii. At intervals of a quarter mile to a half mile along long ascending or long descending sections of pipe lines
- B. Valve shall automatically release large quantities of air during pipeline filling and automatically allow air to reenter the pipeline when internal pressure of the pipeline approaches a negative value (vacuum). Valve shall automatically release small quantities of air from the pipeline while under normal pressure conditions.
- C. Valve shall be suitable for the respective service (water or sanitary sewer) having a working pressure of 150 250 psi and a test pressure of 225 psi.
- D. Valve inlet and outlet shall be sized as required. Where the option permits, ANSI 125 pound flanged connections shall be utilized.

- E. Valve body, cover and baffle shall be cast iron, Class B in accordance with ASTM A126.
- F. Seat and orifice button shall be Buna-N.
- G. All internal components shall be stainless steel T304 in accordance with ASTM A240, A269, A276 and PH 15-7 MO.
- H. <u>Acceptable Manufacturers</u>: Combination Air/Vacuum Release Valve shall be domestically manufactured. Acceptable manufacturers are as follows:
 - Crispin
 - Other approved

5.08 Valve Box

- A. Valve boxes shall be of the two-piece type and manufactured of ABS resin.
- B. Valve boxes shall have an internal diameter of 5.25 inches.
- C. Valve boxes shall be fitted with a cover with the word "WATER" or "SEWER" integrally cast in the cover depending on the service and compatible with the City's radio read meter equipment.
- D. <u>Acceptable Manufacturers</u>: Acceptable manufacturers shall be as follows:
 - Bingham-Taylor
 - East Jordan
 - Other approved.

SECTION 6: TAPPING SLEEVES

6.01 Tapping Sleeve

- A. Tapping sleeves shall be of the split type and manufactured of ductile iron or stainless steel (preferred). Stainless steel sleeve shall be used when tapping cast iron pipe. Ductile iron shall conform to ANSI/AWWA standards. Stainless Steel shall be type 304 (18-8).
- B. Gaskets shall be virgin nitrile (Buna-N, NBR).
- C. Sleeve outlet shall be flanged or mechanical joint in accordance with ANSI/AWWA C110/A21.1.
- D. <u>Acceptable Manufacturers</u>: Acceptable manufacturers shall be as follows:
 - U.S. Pipe T28 on ductile iron main only.
 - Power Seal–Part No. 3490 (stainless steel) on cast iron and ductile iron mains
 - Smith Blair Part No. 663 or 665 (stainless steel) on cast iron and ductile iron mains
 - Ford Meter Box–FTSS (stainless steel)
 - Romac for 1-1/2 inch and 2 inch taps
 - Other Approved.

6.02 Tapping Saddle

- A. Tapping saddles shall be stainless steel. Ductile iron shall conform to ANSI/AWWA standards. Stainless Steel shall be type 304 (18-8).
- B. Stainless steel saddles shall be used when tapping for 1-1/2 inch or 2 inch service lines.
- C. Tapping saddles shall seal with pipe by an O-ring gasket virgin nitrile (Buna-N, NBR).
- D. Saddle outlet to pipe shall be flanged or tapped with pipe threads.
- E. Acceptable Manufacturers: Acceptable manufacturers are as follows:
 - Smith Blair 313 with 015 stainless steel bales (4" to 16") for 2" iron pipe threads
 - Smith Blair 366 with 015 stainless steel straps (18" to 40") for 2" iron pipe threads
 - Smith Blair 372 for pipe diameters 4 inches through 12 inches
 - Powerseal 3412AS for pipe diameters 3 inches through 12 inches

- Powerseal 3416AS for pipe diameters 14 inches through 36 inches
- Ford Meter Box– FS 303
- Romac 306 for pipe diameters 3 inches through 12 inches
- Romac 305 for pipe diameters 14 inches through 24 inches
- Other Approved

SECTION 7: WATER METERS

7.01 Residential, Irrigation and Light Commercial

- A. Water meters shall be positive displacement type with oscillating piston or rotating disk having a magnetic drive conforming to AWWA C-700 and a sealed register conforming to AWWA C-707.
- B. Meters shall be capable of operating up to a working pressure of 150 psi and have an operating flow range shown on the following table.

TABLE 7-1 METER REQUIREMENTS				
Size	Operating Flow Range	Low Flow Registration		
5/8"	0.25 to 25 gpm	98.5% at ½ gpm		
3/4"	0.75 to 35 gpm	97% at 3/8 gpm		
1"	1.25 to 70 gpm	95% at ¾ gpm		
1-1/2"	2.5 to 120 gpm	95% at 1-1/4 gpm		
2"	2.5 to 170 gpm	95% at 2 1/2 gpm		

- C. Meter outer case shall be constructed of Water Works bronze (minimum 75% copper content) and shall be split case. External fasteners shall be corrosion resistant.
- D. The size of the meter and a flow direction arrow shall be cast in raised figures on the outer casing. The manufacturer's serial number shall be permanently affixed to the outer case and shall be visible from the topside.
- E. The sealed register shall be of the straight reading type and have a full test dial on the face. The register shall be fitted with an external or internal locking device so that the register can only be removed with specialized tools.
- F. Meters shall have a corrosion resistant strainer that is easily removed without the meter itself being disconnected from the service line.
- G. The register shall measure flow in gallons and shall be read by visual inspection and remote data relay. The electronic register shall be provided to function with reading devices as manufactured by Itron.
- H. Meter connections to 5/8 inch and one (1") inch service lines shall be with a meter spud. Meter connections to 1-1/2 inch and two (2") inch service lines shall be with a two (2) bolt flange.
- I. <u>Acceptable Manufacturers</u>: Acceptable manufacturers should be integrated and are acceptable as follows:
 - Hersey

7.02 Commercial and Industrial

- A. Water meters shall be Class I or II turbine type with magnetic drive, reduction gearing and straightening vanes conforming to AWWA C-700 and the register shall be permanently hermetically sealed conforming to AWWA C-707.
- B. Meters shall be capable of operating up to a working pressure of 150 psi and have an operating flow range shown on the following table.

TABLE 7-2 METER OPERATION				
* 1-1/2"	4 to 200	98.5% at 2.5 gpm		
* 2"	4 to 310	95% at 2.5 gpm		
3"	5 to 550	95% at 4 gpm		
4"	4 to 1,250	95% at 2.5 gpm		
6"	4 to 2,500	95% at 2.5 gpm		
8"	4 to 4,500	95% at 2.5 gpm		
10"	4 to 7,000	95% at 2.5 gpm		

^{*} For fire service in building and irrigation service only.

- C. Meter outer case shall be constructed of Water Works bronze (minimum 75% copper content) and shall be split case. External fasteners shall be corrosion resistant.
- D. The size and model of the meter and a flow direction arrow shall be cast in raised figures on both sides of the outer casing. The manufacturer's serial number shall be permanently affixed to the outer case and shall be visible from the topside.
- E. Meters shall have a separate measuring chamber that shall be easily removable from the outer case. The measuring chamber shall be constructed of Water Works bronze (minimum 85% copper content).
- F. The register shall be of the straight reading type and have a full test dial on the face. The register shall be fitted with an external or internal locking device so that the register can only be removed with specialized tools.
- G. The register shall measure flow in gallons and shall be read by visual inspection and remote data relay. The electronic register shall be provided to function with reading devices as manufactured by Itron.
- H. The meter shall have internal straightening vanes installed on the meters inlet. The straightening vanes shall be easily removable. The straightening vanes shall not be cast as part of the main case or molded as part of the measuring chamber.

I. The meter shall be equipped with either an internal or external strainer as shown in the following table and detailed in items "K" and "L".

TABLE 7-3 METER STRAINERS			
Meter Strainer Size	Strainer Configuration		
1-½" to 4"	Internal with Test Port		
1-½" to 4"	External Bronze		
6" to 10"	External Ductile Iron/Cast Iron		

- J. Where meters are equipped with an internal strainer, the strainer shall be cast as part of the meter's main case. The internal strainer screen and cover plate shall be located at the meter's inlet between the inlet flange and measuring chamber. The internal strainer screen shall be of the V-shape design and externally accessible without disturbing the meter's pipeline setting or measuring chamber assembly. A test port of adequate capacity shall be located on the meter's main case adjacent to the outlet flange. The strainer shall be listed by UL and approved by FM.
- K. Where meters are equipped with an external strainer, the strainer and cover plate shall be located at the meter's inlet between the inlet flange and measuring chamber. The strainer screen shall be of the V-shape design and accessible without disturbing the meter's pipeline setting or measuring chamber assembly. The strainer shall be listed by UL and approved by FM.
- L. Meter connection to the service line shall be flanged, Class 125# and conform to ANSI 16.1 for diameter, drilling pattern and thickness. Where companion flanges are required, flanges shall be cast iron and tapped with American Standard internal taper pipe threads. Bolts, nuts and gaskets associated with companion flanges shall be provided for connection to the meter only.
 - 1. Acceptable Manufacturer: Hersey

7.03 Fire Service

- A. Water meters shall be Class II turbine type with magnetic drive, reduction gearing and straightening vanes conforming to AWWA C-703 and the register shall be permanently hermetically sealed conforming to AWWA C-707.
- B. Meters shall be capable of operating up to a working pressure of 150 psi and have an operating flow range shown on the following table.

TABLE 7-4				
METER FLOW RANGE				
Size	Operating Flow Range (gpm)	Low Flow Registration		

4"	10 to 1,250	95% at 6 gpm
6"	20 to 2,500	95% at 15 gpm
8"	30 to 4,500	95% at 20 gpm
10"	50 to 7,000	95% at 30 gpm

- C. Meter outer case shall be constructed of Water Works bronze (minimum 75% copper content) and shall be split case. External fasteners shall be corrosion resistant.
- D. The size and model of the meter and a flow direction arrow shall be cast in raised figures on both sides of the outer casing. The manufacturers' serial number shall be permanently affixed to the outer case and shall be visible from the topside.
- E. Meters shall have a separate measuring chamber that shall be easily removable from the outer case. The measuring chamber shall be constructed of Water Works bronze (minimum 85% copper content).
- F. The register shall be of the straight reading type and have a full test dial on the face. The register shall be secured by means of a locking device located in the interior of the outer case so that the register can only be removed with specialized tools.
- G. The register shall measure flow in gallons and shall be read by visual inspection and remote data relay. The electronic register shall be provided to function with reading devices as manufactured by Itron.
- H. The meter shall have internal straightening vanes installed on the meters inlet. The straightening vanes shall be easily removable. The straightening vanes shall not be cast as part of the main case or molded as part of the measuring chamber.
- I. The meter shall be equipped with an external strainer as listed by UL and approved by FM. The strainer assembly shall be ductile iron and located upstream of the meter's inlet flange. The strainer screen shall be stainless steel and V-shape design. The strainer screen shall have a net open area at least four (4) times that of the pipe opening. The strainer screen shall be accessible without disturbing the meter's pipeline setting or measuring chamber assembly.
- J. Meter connection to the service line shall be flanged, Class 125# and conform to ANSI 16.1 for diameter, drilling pattern and thickness. Where companion flanges are required, flanges shall be cast iron and tapped with American Standard internal taper pipe threads. Bolts, nuts and gaskets associated with companion flanges shall be provided for connection to the meter only.
- K. <u>Acceptable Manufacturer</u>: Hersey

7.04 Fire/Domestic Combination Service

- A. The fire portion of the combination service shall comply with Division III, Section 7.03.
- B. The domestic portion of the combination service shall comply with Division III, Section 7.01 and be accomplished via by-pass piping. By-pass piping shall be brass with threaded connections. Domestic service piping shall be 1-1/2 inches in diameter for a four (4) inch fire service. Domestic service piping shall be two (2) inches in diameter for a six (6) inch and larger fire service.
- C. The by-pass assembly shall be fitted with a bronze bodied check valve situated immediately downstream of the meter. The check valve shall be UL listed and approved by FM. The use of electronic switching devices or spring loaded check valves shall be prohibited.
- D. The by-pass assembly shall be fitted with two (2) lockable bronze bodied ball valves; one (1) situated upstream of the meter and one (1) situated downstream of the check valve.

7.05 Water Meter Boxes (Residential and Light Commercial)

- A. Meter assemblies ranging in size from 5/8 inch to two (2) inches shall be housed in meter boxes manufactured from high-density polyethylene or fiber reinforced plastic.
- B. Meter box lids shall be fiber reinforced plastic. Minimum outside dimensions of the lid shall be 16-5/8 inches by 11-7/16 inches. Down legs on each corner shall be a minimum of 1-1/2 inches long.
- C. Acceptable Manufacturers:
 - D/FW Plastics.
 - CDR 24 inches by 60 inches for 1-1/2 inch and 2 inch meter assemblies.
 - Other Approved.

7.06 Water Meter Vaults (Commercial and Industrial)

- A. Vaults shall be constructed of precast concrete.
- B. Vaults shall be designed to withstand a minimum H-10 Live Load. Additional design strength may be required.
- C. Vaults for 3-inch and larger meter/back flow assemblies shall have a minimum 18" clearance between any flanges, piping, valves, meters and all walls. The minimum depth shall be 6 feet.
- D. Meter vaults shall have a minimum six (6") inch thick concrete reinforced base slab. A 12 in x 12 in drain opening shall be cast in the slab. The drain shall be serviced by

- a 12 inch bed No. 57 stone wrapped with geofabric. The bed of No. 57 stone shall extend to the edges of the excavation.
- E. Vaults constructed of concrete block are prohibited.
- F. Vaults shall be constructed of polymer concrete, precast concrete or cast-in-place concrete.
- G. Where vaults are constructed of pre-cast or cast-in-place concrete, the walls shall be a minimum of six (6) inches thick and steel reinforced. Wall reinforcing shall be tied to the slab reinforcing.
 - Vaults shall be covered with a removable pre-cast concrete cover. The cover shall be a minimum of six (6") inches thick and steel reinforced. Cover shall be sealed to top of walls using neoprene gasket material.
- H. Where two (2) pre-cast vaults are situated together to form one (1) larger vault, each of the two (2) vaults shall have a separate cover.
- I. An aluminum access hatch, minimum 36 inches by 36 inches in size shall be cast in the cover slab. The access hatch shall be situated as shown on details.
- J. Bottom side of the meter assembly shall have a minimum twelve (18") inch clearance from the top of the floor slab.
- K. Meter assembly shall be supported at a minimum of two (2) points by galvanized pipe saddles. Backflow assembly shall be supported at a minimum of one (1) point by galvanized pipe saddles. Pipe saddles shall be capable of carrying the weight of the assembly. Pipe saddle height shall be adjustable via screw jack. Pipe saddle shall have a minimum four (4") inch square base, one-quarter (1/4") inch thick.
- L. Pipe penetrations (annulus between concrete and outside face of pipe) shall be sealed with a mechanical type rubber modular seal or seal approved by the City Engineer such as LinkSeal.
- M. Vault cover shall extend three (3") inches above finished grade.

7.07 Vault Access Hatches

- A. Vault access shall be via aluminum double hatch having a minimum clear opening of 36 inches by 36 inches. Clear opening dimensions may be increased.
- B. Access shall be rated to withstand a minimum H-10 Live Load. Design strength of access hatch may be increased.
- C. Access hatch shall have a manual locking arm device to prevent hatch lids from closing.
- D. Access hatch shall be capable of being secured using a keyed lock.

SECTION 8: HYDRANTS

8.01 Fire Hydrant

- A. Fire hydrants shall be of the compression type, closing with line pressure, complying with AWWA C502 for <u>150-250</u> psi working pressure and NFPA, latest applicable revision.
- B. Hydrants shall have a 5-1/4 inch main valve and a non-freeze design with an automatic drain that closes fully when main valve is opened.
- C. Hydrants shall be furnished having factory burying depths of 4'-6" or 5'-0". Deeper burying depths shall be accomplished using extension kits provided by same manufacturer. Break-away device shall be situated \pm three (3") inches from finished grade.
- D. Hydrant standpipe, fittings and upper barrel shall be ductile iron. Parts designed to break away may be cast iron.
- E. Hydrant bolts below ground level shall be stainless steel.
- F. Hydrant lead to main line connection shall be mechanical joint with thrust blocking or restrained joint.
- G. The means of attaching the barrel to the standpipe shall permit 360° rotation of the barrel.
- H. Hydrant barrel shall break away from the standpipe at an elevation above ground level without causing damage to the standpipe and stem. When barrel is broken away, internal valve shall function and repairs shall be permitted without excavating or turning off water supply.
- I. Hydrants shall be bronze mounted and all internal working parts shall be bronze. Valve seat shall screw into retainer. However, stainless steel is preferred.
- J. Internal working parts shall be removable without disturbing the barrel.
- K. The operating nut situated atop the hydrant shall be hexagonal and constructed of ductile iron or cast iron and open in a counter clockwise direction. The threads shall be enclosed in an operating chamber separated from the hydrant barrel by a rubber O-ring stem seal lubricated by a grease or oil reservoir.
- L. Hydrant shall be equipped with two 2-1/2 inch threaded (7.5 threads per inch) hose connections and one 4-1/2 inch threaded (4 threads per inch) hose connection. Hose and pump connections shall be threaded and pinned to seal the connection to the barrel. Threads shall comply with National Standard Threads. Each connection shall be equipped with a cap and chain.
- M. Hydrants shall have all stainless steel stems.

- N. <u>Acceptable Manufacturers</u>: Approved manufacturers must produce only ductile iron fire hydrants. Acceptable manufacturers are as follows:
 - American Darling
 - Mueller Company
 - M&H

8.02 Yard Hydrant

- A. Yard hydrant shall be self-draining, non-freeze and operated by lever handle. Lever handle shall be capable of being secured with a keyed lock.
- B. Yard hydrant shall be fitted for a standard three-quarter $(\frac{3}{4})$ inch hose connection.
- C. Exterior casing shall be schedule 40 galvanized steel and internal operating parts shall be of bronze and the plunger shall be neoprene.
- D. <u>Acceptable Manufacturers</u>: Acceptable manufacturers are as follows:
 - Josam Series 71450
 - Murdock
 - Approved equal

SECTION 9: MANHOLES AND WET WELLS

9.01 General

- A. Manholes and wet wells shall be cylindrical and constructed of steel reinforced precast concrete or other concrete structure approved by the City Engineer.
- B. Manholes shall have a minimum inside diameter of four (4') feet and be fitted at grade with a cast iron ring and cover.
- C. Wet wells shall have a minimum inside diameter of six (6') feet and be accessed via an aluminum hatch that shall be lockable, and a minimum opening of 60" x 60".
- D. An existing or newly installed manhole intersected by a sanitary sewer force main and the next downstream manhole shall be lined in accordance with Division III, Section 12 "Environmental Coatings".
- E. A newly installed lift station wet well and underside of slab over wet well shall be lined in accordance with Division III, Section 12 "Environmental Coatings".

9.02 Pre-cast

- A. Pre-cast sections shall be manufactured, tested and marked in accordance with ASTM C478.
- B. Minimum compressive 28-day strength of concrete in all sections shall be 4,000 psi.
- C. Maximum allowable absorption of moisture by concrete shall not exceed 8% of dry weight.
- D. Pre-cast sections shall consist of a base section, riser section and eccentric cone top or flat slab top section, as conditions require. Top cone section of manhole housing for an air release valve shall be concentric. The sections shall form a continuous uniform assembly.
- E. Joints between each section shall be tongue and groove type sealed with a preformed gasket meeting requirements of Federal Specification SS-S-00210, "Sealing Compound, Preformed Plastic for Pipe.
- F. Each section shall have no more than two (2) holes for purposes of handling. The holes used for handling shall be tapered and shall be plugged with rubber stoppers or grout after installation.
- G. Pipe openings in sections shall be fitted with an integrally cast flexible rubber boot or other approved flexible joint connector. A manufacturer supplied stainless steel band shall be used to seal boot to pipe.
- H. Manhole sections shall be fitted with solid cast iron steps of standard pattern conforming to ASTM A-48 or polypropylene plastic coated steel steps conforming

to ASTM A615 and ASTM D-4101 and shall be integrally cast into manhole sections. Steps shall be twelve (12") inches wide and spaced at 1'0" on center.

- I. Wetwell sections shall not be fitted with steps.
- J. Manhole base section's invert shall be constructed of cast-in-place concrete or brick and mortar. Invert shall have a "U" shaped channel that matches inverts of the influent and effluent pipes. Invert shelf above "U" shaped channel shall have a minimum 12:1 slope.

9.03 Precast "Dog House"

- A. Precast and cast-in-place "Dog House" Manholes shall comply with this section.
- B. Dog house opening shall be precast by the manufacturer. Field cutting-in dog house opening shall be prohibited.
- C. Size of dog house opening shall be as recommended by the manhole manufacturer.
- D. Annulus between pipe and opening shall be grouted water tight with non-shrink grout.
- E. Dog house manholes used in gravity sewer shall have a reinforced concrete bottom slab. Dog house manholes used for air and vacuum release valves shall have gravel bottom.

9.04 Brick and Mortar

- A. Brick used as part of manhole construction shall be either solid or cored, medium hard or better, Grade MA conforming to ASTM C-32 for sewer and manhole brick.
- B. Mortar used as part of manhole construction shall be comprised of one (1) part Portland cement to two (2) parts clean sand. The sand shall conform to ASTM C-144.
- C. Water shall be clean, potable and free from deleterious amounts of alkalis, acids and organic matter.

9.05 Frames and Covers

- A. Manhole rims, toe pockets, frames and covers shall be cast iron conforming to ASTM A-48 for Class 35B Gray Iron Castings.
- B. Manhole frames and covers shall be a nominal twenty-four (24") inches in diameter and weigh not less than 370 pounds.
- C. Manhole covers shall have the word "SEWER", cast on top in letters two (2") inches high.
- D. Manhole frames and covers shall be thoroughly cleaned and painted or coated with a bituminous paint. Defective castings that have been plugged or otherwise treated shall not be used.

- E. Manhole covers required to be bolt-down shall be secured with not less than four (4) stainless steel bolts as provided by the manufacturer.
- F. Covers situated in paved areas shall be raised to finished grade using no more than five (5) courses of brick and mortar. concrete risers with flexible EPDM Rubber Seal
- G. Covers situated in non-paved areas shall be integrally cast in the top cone section.
- H. <u>Acceptable Manufacturers</u>:

• Us Foundry, Model: 223 BN

• Neenah, Model: R-1423-BN

• East Jordan, Model: V1349

SECTION 10: CAST-IN-PLACE CONCRETE

10.01 Concrete Design

- A. Concrete mix design shall be in accordance with ACI 318-89.
 - 1. 28-Day Strength: 4,000 psi, unless otherwise noted.
 - 2. Type: Normal Weight
 - 3. Slump Range: 3 inch to 5 inch
 - 4. Weight: 135 pcf to 160 pcf
 - 5. Air Content: 5% to 7%
 - 6. Water-Cement Ratio: 0.45 Maximum
 - 7. Fly Ash: If Type I cement is used
 - 8. Chlorides: Do Not Use
 - 9. The use of admixtures shall require the approval of the City Engineer
- B. Concrete materials shall be in accordance with applicable ASTM standards.
 - 1. Portland Cement: Meeting ASTM C150, Type I/II natural color, domestic manufacturer. Use only one brand of cement throughout project.
 - 2. Fine Aggregates: Meeting ASTM C33-86.
 - 3. Coarse Aggregates: Meeting ASTM C33-86, No. 57 Stone.
 - 4. Water: Clean, potable and free from deleterious amounts of alkalis, acids and organic matter.

10.02 Reinforcement

- A. Reinforcement bars shall be in accordance with ASTM A615, Grade 60, deformed.
- B. Welded wire fabric shall be in accordance with ASTM A185. Use size as indicated on drawings.
- C. Bar supports, chairs and spacers shall comply with the CRSI Manual for Placing Reinforcing Bars.
- D. Reinforcement shall be secured in proper position using No. 16-1/2 or No. 16 gauge black soft-annealed wire.

10.03 Formwork

- A. Forms shall be as follows.
 - 1. Pre-engineered steel
 - 2. Pre-engineered reinforced fiberglass

- 3. Lumber: No. 2 Southern Yellow Pine
- 4. Plywood for exposed finish: HDO-EXT-APA overlay plywood or B-B Plyform-EXT-APA
- 5. Plywood for unexposed finish: C-C Ext-APA
- 6. Earth, provided earth is dry, level and stable.
- B. Form ties shall be break-back type with 5/8 inch removable vinyl sleeve or one (1") inch diameter break-back cone type.

10.04 Curing and Sealing Compounds

- A. Moisture retaining cover shall meet ASTM C171-69 (1980): Waterproof paper, polyethylene film or burlap.
- B. Curing and sealing compound shall meet ASTM C309-81, Type 1, Class B: Clear acrylic base.

10.05 Epoxy Bonding Agent

- A. The use of an epoxy, bonding agent shall require the approval of the City Engineer.
- B. A bonding agent shall be used during the placement of reinforcing steel into existing concrete and shall be of a two (2) component, 100% epoxy resin adhesive system.

10.06 Acrylic Latex Bonding Agent

- A. The use of an acrylic, latex, bonding agent shall require the approval of the City Engineer.
- B. A bonding agent shall be used as an aid in applying a concrete surface patch or finish to existing concrete and shall be an acrylic polymer emulsion base chemical bonding system.

SECTION 11: MASONRY AND GROUT

11.01 Mortar and Grout Materials

- A. Portland Cement shall meet ASTM C150, Type I, natural color, domestic manufacturer. Use only one brand of cement throughout project.
- B. Masonry cement shall meet ASTM C91-89, non-staining, 22% maximum air content by volume.
- C. Hydrated lime shall meet ASTM C207-79 (1988), Type S.
- D. Aggregates for mortar shall meet ASTM C144-87 and ASTM C404-87, size 2 natural and shall be clean, hard and washed sand.
- E. Aggregates for cement grout shall meet ASTM C404-87, fine aggregate, size 1.
- F. Water reducing and plasticizing admixtures are acceptable.
- G. Admixtures containing calcium chloride shall be prohibited.
- H. Water shall be clean, potable and free from deleterious amounts of alkalis, acids and organic matter.
- I. <u>Non-shrink Grout</u>: Submit products for approval by City Engineer.

11.02 Mortar and Grout Proportions

- A. Proportion materials by volume in accordance with ASTM C270-88a or as follows:
 - 1. <u>Mortar</u>: One (1) part Masonry cement to ½ part Portland cement to aggregate proportioned at not less than 2-1/4 nor more than three (3) times the volume of <u>cementious</u>cementitious material used.
 - 2. <u>Grout</u>: One (1) part Portland cement and ½ to ½ parts hydrated lime to aggregate proportioned at not less than three (3) times the combined volume cement and lime used.

11.03 Concrete Masonry Units

- A. Concrete masonry units shall be in accordance with ASTM C90-85, light-weight, Grade N, Type 1.
- B. Concrete masonry units shall have a nominal face dimension of 8" x 8" x16" or 8" x 12" x16".
- C. Concrete masonry units shall have a minimum compressive strength of 2,500 psi, based on net area.
- D. Concrete masonry units damaged in any manner shall not be used.

11.04 Joint Reinforcement

A. Horizontal joints between concrete masonry units shall be reinforced as follows:

- 1. Use cold drawn wire meeting ASTM A82-88.
- 2. Longitudinal rods shall be nine (9) gauge galvanized deformed wires with nine (9) gauge galvanized cross wires welded to form triangular style pattern.
- 3. Width of reinforcement shall be two (2") inches less than the total wall thickness.
- 4. Provide reinforcement in ten (10') foot lengths with prefabricated corners and tees at intersecting walls of same design and finish.

SECTION 12: ENVIRONMENTAL COATINGS

12.01 Materials Requiring Coatings

- A. Materials for buried surface shall be coated as indicated in their respective section.
- B. The following materials shall have exterior coatings manufacturer applied or field applied.
 - 1. Piping and appurtenances
 - 2. Supports
 - 3. Pumps
 - 4. Valves
 - 5. Equipment and appurtenances
- C. The following materials shall be lined by the manufacturer or field applied:
 - 1. Manhole intersected by a sanitary sewer force main and next downstream manhole.
 - 2. Lift station wet well and slab area above wet well.

12.02 Coating Schedule

A. Non-Submerged Ferrous Metal

Minimum Surface Preparation: SSPC – SP6

Generic System Type: Aliphatic Polyurethane

Coat	Induron		Tnemec	
No.	DFT	Product	DFT Product	
1	3.0	P-14	2.0	#69
2	3.0	Armorgaurd	2.0	#69
3	2.0	5500	2.0	#74

B. <u>Submerged Ferrous Metal</u>

Minimum Surface Preparation: SSPC – SP10

Generic System Type: Polyamide Epoxy

Coat	Induron		Tnemec	
No.	DFT	Product	DFT Product	
1	5.0	PE-54	5.0	#20 P-Pox

				1
2	5.0	PF_5/	5.0	#20 P-Pox
2	5.0	1 L-3 T	5.0	$\pi 201 - 10\lambda$

C. <u>Non-Submerged Non-Ferrous and Galvanized Metal</u>

Minimum Surface Preparation: SSPC – SP6 (non-ferrous); SP1 (galvanized)

Generic System Type: Aliphatic Polyurethane

Coat	Induron		Tnemec	
No.	DFT	Product	DFT	Product
1	0.5	VW Prime	5.0	#69
2	2.0	5500	2.0	#74

D. <u>Submerged Non-Ferrous and Galvanized Metal</u>

Minimum Surface Preparation: SSPC – SP10 (non-ferrous); galvanized per coating manufacturer.

Generic System Type: Polyamide Epoxy

Coat	Induron		Tnemec	
No.	DFT	Product	DFT	Product
1	0.5	VW Prime	5.0	#69-1211
2	5.0	PE-54	5.0	#69

E. <u>Acceptable Manufacturers</u>: Acceptable manufacturers are as follows:

- Induron
- Tnemec
- Carboline
- Sherwin Williams

12.03 Manhole and Wet Well Lining

- C. Line existing concrete manhole with a modified aliphatic amine epoxy mortar or aggregate filled epoxy coating system or other coating system approved by the City Engineer.
- D. Materials required for concrete surface preparation/restoration, lining and finishing shall be supplied by the same manufacturer.
- E. Line new manhole, wet well and underside of slab over wet well with an integrally cast polyvinyl chloride or high density polyethylene liner.

- F. <u>Acceptable Manufacturers</u>: Acceptable manufacturers are as follows:
 - Madewell Mainstay ML-72 Microsilica and DS-5 Epoxy
 - Raven 705 CA Calcium Aluminate and 405 Epoxy
 - Sewpercoat
 - A-LOK Products, Inc. Duraplate 100 (new manhole, wet well, slab integrally cast liner)
 - Agru America AGRU Sure Grip (new manhole, wet well, slab integrally cast liner) as approved.

SECTION 13: MISCELLANEOUS MATERIALS

13.01 Stabilization Stone

- A. Stabilization stone shall be No. 57 size and conform to ASTM C33-78 unless noted otherwise.
- B. Maximum stone size shall be $1-\frac{1}{2}$ inches unless noted otherwise.
- C. Stone shall be clean, tough, uniform quality, durable fragments of crushed rock, free from flat, elongated, soft or disintegrated pieces, or other objectionable matter occurring either free or as coating on stone.

13.01 Detectable Underground Utility Marking Tape

- A. Wire shall have a minimum overall gage of 10 gauge mils.
- B. Tape shall be color coded in accordance with the American Public Works Association as follows:
 - 1. "Blue" for potable water and associated lines.
 - 2. "Green" for sanitary sewer and associated lines.
 - 3. <u>Acceptable Manufacturers</u>: Acceptable manufacturers as approved.

13.02 Other Materials

Materials not covered in Division III, Material Requirements shall be in accordance with the approved plans.

SECTION 1: GENERAL

1.01 Contractor

- A. A licensed Utility Contractor shall install any underground utility or component thereof.
- B. Prior to commencing construction activities on a City approved project, the City Clerk or System Superintendent shall receive a copy of the Utility Contractor's License.

1.02 Utility Notification

- A. The Official Code of Georgia, Title 25, Chapter 9 requires that existing utilities be located in the proposed work area prior to commencing any clearing, grading or excavation activity.
- B. The Utilities Protection Center can be reached at 811.
- C. The Utilities Protection Center shall be notified at least three (3) business days prior to commencing work.

1.03 Work Commencement

- A. Clearing and grubbing activities shall not commence on any project until local issuing authority has issued a Land Disturbance Activity Permit.
- B. Work on a water distribution system and/or sanitary sewerage system shall not begin until the City approves the development plans.
- C. The City Engineer shall receive a 48-hour notice prior to commencing construction activities on a water distribution system and/or sanitary sewerage system.
- D. A set of plans stamped approved by the City shall be present on the job site during all phases of construction of the water distribution system and/or the sanitary sewerage system.
- E. The installation of water distribution piping shall not begin until curb and gutter has been installed, if applicable.

1.04 Miscellaneous Standards:

Construction standards not covered in Division IV, Construction Standards, shall be in accordance with the approved plans. Construction should comply with the Department of Labor, Occupational Safety and Health Administration, 29 Code of Federal Regulations Part 1926, Subpart P, and revised July 1, 1995.

SECTION 2: MATERIAL DISTRIBUTION

2.01 General

- A. Work covered by this section shall include all labor, equipment and accessories required to distribute material.
- B. All materials installed as part of an extension to the existing water distribution system and sanitary sewerage system shall be new.

2.02 Delivery:

Equipment and facilities shall be furnished for unloading and distributing pipe, equipment and materials.

2.03 Handling

- A. Pipe shall be handled by use of forklift or excavator using choker straps or cable.
- B. Any pipe, equipment or material dropped or dumped during handling procedures shall be subject to rejection by the City without further justification.

2.04 Storage

- A. Pipe shall not be strung more than 1,000 feet beyond the point where pipe is being laid.
- B. Drainage ditches shall not be obstructed.
- C. Necessary arrangements shall be made to store pipe, fittings, valves and accessories that cannot be distributed along the route.

2.05 Maintenance and Protection

- A. The contractor shall be responsible for maintenance and protection of all pipe, equipment and material.
- B. All equipment shall be boxed, crated or otherwise completely enclosed and protected during transportation, handling and storage.
- C. Equipment shall be stored above ground level and adequately supported on wood blocking or other approved support material.
- D. All equipment shall be protected from exposure to elements and shall be kept dry at all times.
- E. Pumps, motors, valves, control panels, instrumentation, electrical equipment and other equipment having anti-friction or sleeve bearings shall be stored in a weather-tight enclosure which is maintained at a minimum air temperature of 60°F.
- F. Any pipe, equipment or material damaged by impact, vibration, abrasion, discoloration or other damage shall be repaired in accordance to manufacturer instructions or replaced at the discretion of the City.

SECTION 3: SITE PREPARATION

3.02 Clearing and Grubbing

- A. Prior to commencing clearing activities, areas designated by the plans to be cleared shall be demarcated using survey ribbon, stakes or other suitable means.
- B. In areas to be cleared, all trees, stumps, buried logs, brush, grass and other unsatisfactory materials shall be removed.
- C. Trees to remain in or near work area shall be protected from clearing activities.
- D. All damaged trees over three (3") inches in diameter shall be repaired by an experienced nursery expert.
- E. Tap roots and other projections exceeding 1-inch in diameter shall be grubbed out to a depth of at least 18 inches.
- F. All holes remaining after grubbing activities shall be filled with suitable material and properly compacted in layers to density required for in-place backfill.
- G. All materials cleared and grubbed shall be disposed of off-site in accordance with applicable local, state and federal regulations.
- H. Burning of any material or debris shall not be permitted on City property.
- I. Prior to and upon completion of clearing and grubbing activities, install erosion control and sedimentation measures as identified on the Erosion Control and Sedimentation Plan prepared by the Design Engineer.
- J. Prior to commencing any other job site activity, installed erosion control and sedimentation measures shall be inspected and approved by the local issuing authority.

3.03 Topsoil Stockpiling

- A. Remove topsoil to full depth encountered in areas to be graded and stockpile soil and install erosion control devices as indicated on drawings.
- B. Soil shall be placed such that the integrity of an excavation or proposed excavation is not jeopardized.
- C. Soil shall not be stockpiled against tree trunks.
- D. Stockpile shall be shaped to drain.

3.04 Removing Pavement

- A. Removal of pavement shall be performed so as not to endanger roadway activity. Work shall be coordinated and be in compliance with the appropriate road and highway agencies.
- B. Pavement shall be marked squarely and neatly to size of excavation.

- C. Pavement shall be scored and broke along the marked lines using a rotary saw and jackhammer. Pavement shall not be machine pulled for initial brake.
- D. Upon removal, pavement shall be loaded and disposed of off-site.
- E. Adjacent pavement damaged during construction shall be removed as described above.
- F. Driveways and sidewalks shall be removed to their full width from the edge of curb or road pavement to the nearest construction/control joint.
- G. Curbs shall be removed for the entire length from control joint to control joint.

SECTION 4: EXCAVATION

4.01 Standards

The following publications, referred to hereafter by basic designation only, form a part of this specification to the extent indicated by the references thereto:

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•	ASTM D448	"Standard Classification for Sizes of Aggregate for Road and Bridge Construction."
•	ASTM D698	Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft ³ (600 kN-m/m ³))
•	ASTM D1556	Test Method for Density and Unit Weight of Soil in Place by the Sand-Cone Method
•	ASTM D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)
•	ASTM D2922	Test Methods for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth)
•	ASTM D3017	Test Method for Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth)
•	ASTM D4253	Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table
•	ASTM D4254	Test Methods for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density

Any other testing required by these specifications and not specifically referenced to a standard shall be performed under ASTM or other appropriate standards as designated by the Engineer.

Reference herein or on the drawings to soil classifications shall be understood to be according to ASTM D2487, Classification of Soils for Engineering Purposes (Unified Soil Classification System).

4.02 Definitions

- A. Maximum Density: Maximum weight in pounds per cubic foot of a specific material.
- B. Optimum Moisture: Percentage of water in a specific material at maximum density.
- C. <u>Muck</u>: Materials unsuitable for foundation because of organic content, saturation to the extent that it is somewhat fluid and must be moved by dragline, dredge or other special equipment are designated as muck.
- D. <u>Unsuitable Material</u>: Earth material unsatisfactory for its intended use and as classified by the soils technicians. In addition to organic matter, sod, muck, roots

- and rubbish, highly plastic clay soils of the CH and MH descriptions and organic soils of the OL and OH descriptions, as defined in the United Soil Classification System shall be considered as unsuitable material.
- E. <u>Suitable Material</u>: Earth or materials designated as being suitable for their intended use by soils technicians or the soils engineer. Suitable material shall be designated as meeting the requirements of the Unified Soil Classification System types SW, GW, GC, SC, SM, ML, CI or as designated in these specifications.
- F. <u>Select Material</u>: Granular material to be used where indicated on the drawings or where specified herein consisting of soils conforming to the Unified Soil Classification types SW, SM, GW or GM or as otherwise approved by the Engineer as select fill. Select material shall contain no stones or rubble larger than 1 ½ inch in diameter.
- G. <u>Crushed Stone (Gravel)</u>: No. 57 aggregate or equal conforming to ASTM C-33.
- H. <u>Excavation</u>: Excavation of every description regardless of materials encountered.

4.03 Soil Excavation

- A. Excavation shall include those measures necessary to establish grades indicated on drawings for utilities, structures and appurtenances.
- B. Excavated soil shall be placed in a location such that the integrity of the excavation is not jeopardized.
- C. Excavation walls shall be sloped or stepped in accordance with recognized industry standards.
- D. The Contractor shall assume the responsibility for design and construction of excavation shoring and bracing capable of supporting excavations and construction loads.
- E. The excavation shall provide space for foundation work and inspection.
- F. Excavations shall be covered in accordance with applicable regulations and/or barricaded and roped-off with identifying tape during work progress.

4.04 Dewatering Trenches

- A. Where groundwater is encountered, the Contractor shall make the effort necessary to secure a dry trench bottom before laying pipe.
- B. In sandy and in other suitable type soils, dewatering shall be done by well pointing.
- C. If, in the opinion of the Engineer, the Contractor has failed to obtain an absolutely dry trench bottom by insufficient use of all known methods of trench dewatering, the Engineer may order the Contractor to excavate below grade and place not less than 6

- inches of graded crushed stone fill material over the trench bottom to form trench drains to suitable located sumps and the water removed by bailing or pumping.
- D. The graded crushed stone fill material shall be of such depth that there shall be no water in bell holes at the time of coupling pipe.
- E. All unsuitable excavated material must be properly disposed of in a manner acceptable to the Engineer and in a manner that will not adversely impact the environment.

4.05 Crushed Stone Stabilization

- A. Wherever the subgrade is by nature too soft or mucky, in the opinion of the Engineer, for the proper installation of the pipe, he may order the Contractor to undercut the trench and backfill with crusher run stone or crushed stone ³/₄-inch in size and less. The stone shall be brought to the subgrade required by the class of bedding for the particular location and compacted.
- B. All unsuitable excavated material must be properly disposed of in a manner acceptable to the Owner public works department in a manner that will not adversely impact the environment.

4.06 Rock Excavation

- A. Excavation shall include those measures necessary to establish grades indicated on drawings for utilities, structures and appurtenances.
- B. Rock shall be excavated to a minimum depth of six (6") inches below grades indicated on drawings.
- C. The Contractor shall be responsible for determining methods required for removal of rock or hard materials.
- D. Perform blasting only after receiving written approval from the City Engineer and regulatory agencies.
- E. A licensed explosive contractor shall perform blasting operations.
- F. Blasting operations shall be conducted in accordance with all local, state and federal regulations.
- G. Excavated rock shall not be used as backfill in the pipe trench.

4.07 Pipe Trench Excavation

- A. Pipe trenching shall comply with excavation and rock excavation specifications.
- B. Trench should be excavated to natural undisturbed soil.
- C. Where unsuitable material is encountered, over excavate through unsuitable material and backfill to required grade with No. 57 stone. The City Inspector shall determine depth of over excavation.

- D. Where encountered, remove rock to a minimum of six (6") inches below required bottom of trench elevation and backfill to required grade with No. 57 stone.
- E. Bottom of trenches shall be prepared so that the entire length of the pipe barrel is supported.
- F. Maintain trenches dry at all times using pumps, well points or other dewatering means.
- G. Limit trenching to not greater than 300 feet ahead of completely backfilled work.
- H. In populated areas, cover or barricade open trenches until completely backfilled.
- I. Open trenches shall be made safe at all times.

SECTION 5: INSTALLATION

5.01Pipe Bedding

- A. PVC sewer shall be laid atop a minimum of four (4") inches of No. 57 stone. No. 57 stone shall be extended to the top of pipe. Stone shall be shovel sliced from beneath the pipe up to one-half (½) the pipe diameter. Bedding of PVC pipe shall be in accordance with ASTM D2321 as amended to date.
- B. DIP shall be bedded according to details No. 8.1 for water and No. 8.2 for sewer.
- C. Valves shall be laid atop a minimum of eight (8") inches of No. 57 stone. No. 57 stone shall be extended up to one-third (1/3) the valve diameter. Stone shall extend twelve (12") inches in all directions of valve. Stone shall be shovel sliced.
- D. Fire hydrants shall be set atop a minimum of eighteen (18") inches of No. 57 stone. Stone shall extend up six (6") inches above drain holes. Stone shall extend eighteen (18") inches to the sides of the hydrant.
- E. Yard hydrants shall be set atop a minimum of six (6") inches of No. 57 stone. Stone shall extend up six (6") inches above drain hole. Stone shall extend twelve (12") inches to the sides of the hydrant.
- F. Class D Bedding is not allowed for use with gravity sewers.
- G. Class I materials shall be used for bedding and haunching in all conditions. Class II, III, IV and V materials will not be permitted for bedding and haunching under any condition.
- H. Bedding material shall be used to provide uniform longitudinal support for the pipe. Trench shall be undercut to allow for a minimum of six inches (6") of bedding material. Bell holes shall be excavated in the bedding material to allow for unobstructed assembly of the joint, but care shall be taken to ensure that bell hole is no larger than necessary to accomplish proper joint assembly. After joint assembly, material shall be placed underground around the entire length of pipe and compacted. Compaction to the springline of the pipe shall be of the same material used in the bedding. Backfill with Class I, II, III or IV material shall then be carried to a point six inches (6") above the top of pipe, using hand tools for tamping, Class IV material will not be allowed in a wet ditch. If the remaining backfill material contains large particles, which could damage the pipe from impact during placement, the initial backfill shall be increased to twelve inches (12") above the top of the pipe. Puddling will not be allowed as a method of compaction. The remaining backfill shall be as specified in "General Backfill" paragraph of these specifications. Pipe shall have at least thirty inches (30") of cover before wheel loading and at least forty-eight inches (48") of cover before using heavy-duty tamping equipment such as a hydrohammer.

I. Class I, II, III, IV and V materials are defined as follows:

Class I Angular ¹/₄ to ³/₄-inches graded stone. Latest revision of ASTM

C 33 - Gradation #67 (ASTM #67) or #57 (ASTM #57) are

acceptable.

Class II Coarse sands and gravels with maximum particle size of

³/₄-inches including variously graded sands and gravels containing small percentages of fines, generally granular and

non-cohesive, either wet or dry.

Class III Fine sand and clayey (clay filled) gravels, including fine

sands, sand-clay mixtures and gravel-clay mixtures.

Class IV Silt, silty clays and clays, including inorganic clays and silts

of medium to high plasticity and liquid limits.

Class V This class includes organic soils as well as soils containing

frozen earth, debris, rocks larger than 1½-inches in diameter,

and other foreign materials.

- J. Ductile iron pipe for gravity sewers and force mains shall be laid as specified using the following type of bedding required for the depth of cover for the various sizes of pipe to be installed. Type 4 and 5 Bedding as shown and described in Ductile/Cast Iron Handbook Fourth Addition Page 182-208 may be used for additional depths if approved by the Engineer.
 - 1. <u>Type 1 Flat Bottom Trench</u>: Flat bottom trench on undisturbed earth with excavation for Bells. Loose backfill shall be as specified in the "Selected Backfilling" and "General Backfilling" paragraphs.
 - 2. <u>Type 2 Flat Bottom Trench</u>: Flat Bottom Trench on undisturbed earth with excavation for Bells. Lightly consolidated backfill to centerline of pipe, additional backfill shall be as specified in the "Select Backfilling" and "General Backfilling" Paragraphs.
 - 3. <u>Type 3 Loose Soil Bedding</u>: Pipe bedded in 4-inch minimum Loose Soil. Backfill lightly consolidated to top of pipe. Additional Backfill shall be as specified in the "Select Backfill" and "General Backfill" Paragraphs.
 - 4. <u>Cover</u>: Maximum depth of cover for ductile iron pipe of the various classes and sizes to be installed are as shown on the following page.

			•	•	
Pipe Size	Pressure Class (PSI)	Nominal Thickness (Inch)	Type1	Type2	Type3
4"	350	0.25	53	61	69
6"	350	0.25	26	31	37
8"	350	0.25	16	20	25
10"	350	0.26	11	15	19
12"	350	0.28	10	15	19

<u>Laying Condition - Maximum Depth of Cover (Feet)</u>

- K. Bedding Classes A, B, C or crush stone as described in ASTM C12 shall be used and carefully compacted for all rigid pipe provided the proper strength pipe is used with the specified bedding to support the anticipated load based on the type soil encountered and potential groundwater conditions. Class D bedding is not allowed for use with gravity sewer.
 - 1. <u>Class A Bedding</u>: This bedding shall consist of a continuous concrete cradle conforming to the plan details.
 - 2. Class B Bedding: Material shall be excavated to a depth of 12-inches below the bottom of the pipe grade and to a width equal to the external diameter of the pipe plus 1-foot. The excavated area shall be backfilled with select fill material to form a bed that is at least 15 percent of the pipe height above the lower face (invert) of the pipe. The material shall be thoroughly compacted to provide a firm uniform foundation. The foundation shall then be shaped (cradled) to fit the lower part of the pipe, and the pipe shall be laid on a 3-inch thick layer of suitable granular material. The Contractor shall ensure that the cradle is constructed at an elevation such that after placing the 3-inches of granular material in the cradle, the flow line elevation of the pipe is correct. Select fill material shall then be placed in 6-inch layers and compacted with mechanical tampers to at least 30 percent of the overall pipe height.

When the pipe foundation is entirely in new embankment constructed with select fill material, the 12-inch undercut will be waived.

3. <u>Class C Bedding</u>: This bedding shall consist of an earth or granular cradle of uniform density shaped to fit the lower part of the pipe for at least 10 percent of its overall height.

5.02 Pipe, Fitting, Valve and Fire Hydrant Installation

- A. Prior to placement, the interior of pipes, fittings and valves shall be cleaned free of dirt and debris.
- B. Pipe, fittings, valves and accessories shall not be laid or jointed while water is in the trench.
- C. Pipe, fittings, valves and accessories shall be lowered into their respective positions using an excavator with choker straps or cables. A slight hole shall be dug where pipes are to be jointed to relieve pipe bell of any load. Pipe barrel shall be supported for its entire length.
- D. Gravity flow pipe shall be laid to the consistent grade change as indicated on drawings and aligned straight using pipe laser or transit.
- E. Pressure flow pipe shall be aligned to follow route. Pipe alignment shall not be deflected greater than 75% of the manufacturer's recommended maximum deflection.
- F. Install compression type gaskets in accordance with manufacturer's instructions to ensure proper joint sealing.
- G. Pipe shall be jointed in accordance with manufacturer's instructions. The mating ends (bell and spigot) shall be thoroughly cleaned and soaped before jointing. The mating ends shall be aligned and shoved together using a steady force.
- H. Connections of fittings, valves and fire hydrants shall be with bolts and nuts as supplied with the component. Upon tightening, a minimum of two (2) bolt threads shall be exposed to ensure proper thread engagement.
- I. Retaining gland of mechanical joint shall be evenly spaced from the fitting or valve for its entire circumference upon installation.
- J. After jointing pipe, repair any damage to pipe's protective coating in accordance with manufacturer's instructions or replace pipe.
- K. Prior to jointing consecutive pipe, backfill previously jointed pipe with sufficient material to prevent movement.
- L. Place a plug in the open end of uncompleted laid piping at the end of each day.
- M. Any component of a piping system disturbed after installation may be required to be taken up and reinstalled.

5.03 Thrust Blocking

A. Thrust blocking shall be installed at all bends, tees, valves, fire hydrants and points where thrust may develop in pressurized piping.

- B. Thrust blocking shall consist of cast-in-place concrete, tie rods, combinations thereof or other method approved by the City Engineer.
- C. Cast-in-place concrete blocking shall be formed to the required dimensions and installed against undisturbed earth. Blocking size may be increased based on soil bearing capacity.
- D. Concrete shall have a minimum 3,000 psi compressive strength at 28 days.
- E. Bolts and nuts shall be protected from concrete coverage.

5.04 Manhole and Wet Well Installation

- A. Manholes and Wet Wells shall be set atop a twelve (12) inch bed of No. 57 stone that extends a minimum of twelve (12) inches beyond all exterior sides.
- B. The bedding of No. 57 stone may be replaced with a six (6) inch layer of steel reinforced cast-in-place concrete.
- C. The bed shall be prepared so that the manhole is set level.
- D. Manhole sections shall be handled with lifting straps or hooked cables using a minimum of two (2) of the manufactured manhole lifting holes.
- E. Manhole sections shall be positioned such that influent and effluent piping enter the center of their respective opening not pinching the rubber boot seal. Pipe shall not rest on invert of opening.
- F. Stainless steel boot clamps shall be tightened in accordance with the manufacturer's instructions.
- G. Annulus between pipe and rubber boot shall be grouted with non-shrink grout prior to commencing backfill operations.
- H. An invert shall be built in each manhole to transition flow from the influent pipe to the effluent pipe.
- I. The built invert shall be shaped as a "U" channel and match the inverts of the influent and effluent pipes.
- J. Inverts shall be built of cast-in-place concrete or brick and mortar. Note that brick and mortar inverts shall be finished on top with a ½-inch layer of mortar.
- K. Prior to jointing consecutive sections, tongue-and-grooved ends shall be cleaned free of dirt and debris.
- L. Tongue-and-grooved ends shall be fitted with preformed gasket sealing compound.
- M. Manhole sections shall be stacked level and plumb at all times.
- N. Manhole sections shall be stacked such that interior steps are vertically aligned.

- O. Manhole lifting holes shall be sealed using non-shrink grout throughout the entire depth of hole.
- P. Upon bringing manhole to finished grade with brick and mortar (if applicable), set ring and cover with non-shrink grout.
- Q. Manholes shall be kept free of dirt and debris.
- R. Drop manholes will be used where there is greater than two (2') foot drop between influent and effluent pipe. See Detail Nos. 21.2 and 25.2.
- S. Doghouse manholes shall be placed in accordance to Detail No. 21.3.

5.05 Meter Box and Vault Installation

- A. Meter boxes shall be installed as follows.
 - Meter box shall be set atop undisturbed or compacted soil and 12" of 57 stone
 Backfill around box shall be compacted using a hand tamp.
 - 2. Top of meter box shall be set flush with finished grade. Meter box shall not be set in a depression.
 - 3. Soil level within meter box shall be even with the bottom of the meter assembly and free of debris.
- B. Meter vaults shall be installed as follows:
 - 1. Meter vault shall be bedded atop undisturbed or compacted soil. Backfill around vault shall be compacted in accordance with Division IV, Section 6.
 - 2. Vaults shall be set atop a minimum (12") inch layer of No. 57 stone that extends a minimum of twelve (12") inches beyond the outside face of all walls.
 - 3. The bedding of No. 57 stone may be replaced with a six (6") inch layer of steel reinforced cast-in-place concrete.
 - 4. The stone filled sump beneath vault drain shall be fully encased in a geofabric membrane.
 - 5. The bed shall be prepared so that vault is set level.
 - 6. Annulus between pipe and wall openings shall have a flexible water tight seal installed prior to commencing backfill operations.
 - 7. Prior to installing vault cover, abutting ends shall be cleaned free of dirt and debris.
 - 8. Abutting ends of vault and cover shall be fitted with preformed gasket sealing compound.

- 9. Vault lid lifting holes shall be sealed using non-shrink grout throughout the entire depth of hole.
- 10. Vault shall be kept free of dirt and debris.
- 11. Top of vault lid shall be set three (3") inches above finished grade. Vault shall not be set in a depression.

5.06 Borings and Casings

- A. Construction shall be performed so as not to interfere with, interrupt or endanger roadway and railway surface and activity thereon, and minimize movement of the surface, structures and utilities above and in the vicinity of the casing.
- B. Work shall be coordinated and be in compliance with the appropriate highway and railroad agencies and their policies.
- C. Contractor shall monitor ground movement during construction. Contractor shall be responsible for all settlement or up heave resulting from casing operations and shall repair and restore moved or damaged property to its original condition.
- D. Work shall not interfere with storm water drainage devices. Storm water and/or groundwater shall be controlled and shall not enter any excavation or boring.
- E. Boring and jacking operations shall be performed from an excavation located at one end of the section to be bored. The excavation shall be kept dry at all times.
- F. Boring and jacking of casings shall be completed by dry auger boring without jetting, sluicing or wet boring. Free boring (boring without casing) shall be prohibited. The boring diameter shall be essentially the same as the outside diameter of the casing.
- G. Boring may be advanced slightly ahead of jacked casing in a manner that will prevent voids forming in the earth around the perimeter of the casing. Horizontal and vertical alignment of the casing shall be frequently checked.
- H. When rock is encountered, the Utility Contractor at his option may continue to install the casing by removing the rock through the casing. Should the City or other governing agencies determine the rock cannot be removed through the casing then an alternate means of crossing shall be determined.
- I. Casings damaged during installation shall be repaired. Should the damaged casing prevent the installation of the pipe, then that boring and casing shall be abandoned.
- J. Casing lengths shall be as long as practical. Jointing shall be accomplished by single grooved butt welding for the entire circumference of the pipe.
- K. Casing shall be cleaned free of dirt and debris prior to installing pipe.
- L. After casing installation is complete, the proposed pipe can be installed. The pipe shall be installed to proper grade and alignment according to the contract documents.

- M. Pipe shall be supported within casing to limit radial movement to a maximum of one (1") inch.
- N. A minimum of <u>twoone</u> (12) spacer shall be provided for each nominal section of pipe. Casing spacers shall be attached to the pipe at a maximum of 18' to 20' 10' intervals.
- O. The annulus between the pipe and casing, at each end, shall be sealed using brick and mortar.

5.07 Pipe and Valve Identification

- A. The marking of utilities immediately after installation is required as detailed in the Official Code of Georgia, Code 25-9 "Georgia Utility Facility Protection Act".
- B. Install mylar detection tape and/or other detectable wire, during backfill operations, above nonferrous pipe or any pipe having more than six (6) feet of cover. Detection tape or w 10 AWG W ire shall be installed centered, approximately 12 to 18 inches above the pipe.
- C. Service lines and valves shall be locatable via marked curbing or other City approved method. Adjacent street curb to service line and valves shall be marked via saw-cut as follows. Curb markings shall be a minimum of four (4") inches in height.
 - 1. "W" for water service location
 - 2. "V" for water valve location
 - 3. "S" for sewer service location

SECTION 6: BACKFILL AND COMPACTION

6.01 Backfill

- A. Excavations shall be backfilled using suitable material meeting the requirements of Class I, II or III backfill material as defined by ASTM D2487.
- B. Place no backfill until any poured concrete has developed design compressive strength.
- C. Place backfill against below grade walls in uniform level lifts to prevent wedging action.
- D. Backfill shall not be placed on surfaces that are saturated, frozen or containing frost or ice.
- E. Place backfill in excavations as follows.
 - 1. Backfill in loose lifts not exceeding six (6") inches when compacting using manual tamping devices (jumping jack).
 - 2. Backfill in loose lifts not exceeding twelve (12") inches when compacting using vibrating/ramming devices (sheep-foot vibratory roller).
- F. Any settlement shall be filled and compacted to conform with adjacent surfaces.
- G. Material remaining after completion of backfill operations shall be disposed off-site.

6.02 Compaction

- A. Backfill shall be compacted using manual tamping devices or vibrating/ramming devices.
- B. Use manual tamping devices as follows.
 - 1. When area is inaccessible to vibrating devices and within five (5') feet of below grade walls (includes manholes).
 - 2. From bottom of pipe trench to twelve (12") inches above the top of pipe.
- C. Compaction requirements are as follows.
 - 1. Backfill, beneath and within ten (10') feet of the building line of any structure, proposed structure or other area determined by the City, shall be compacted for the entire depth to a minimum of 100% of the maximum dry density as determined by a Standard Proctor Analysis.
 - 2. Backfill, beneath any road, walk, proposed improvement or area determined by the City shall be compacted for the entire depth to a minimum of 100% of the maximum dry density as determined by a Standard Proctor Analysis.

- 3. Backfill in road right-of-way and not described above shall be compacted the entire depth to a minimum of 95% of the maximum dry density as determined by a Standard Proctor Analysis.
- 4. Backfill not described above shall be compacted for the entire depth to a minimum of 90% of the maximum dry density as determined by a Standard Proctor Analysis.

6.03 Compaction Testing

- A. Soil samples from the proposed construction area shall be analyzed for maximum dry density in accordance with ASTM 698 Method C.
- B. The extent of testing required shall be dependent upon soil conditions, Contractor's methods of construction and regulatory requirements.
- C. Minimum compaction testing shall be as follows.
 - 1. Backfill in excavations shall be tested at 2-foot lift intervals per 1,000 square feet of fill or as deemed necessary by the City Inspector.
 - 2. Backfill in trench excavations shall be tested at 2-foot intervals per 400 linear feet of fill or as deemed necessary by the City Inspector.

SECTION 7: SITE COMPLETION

7.01 Grading

- A. Grade areas to lines and elevations indicated on drawings or to surrounding surface grades.
- B. Graded areas shall be within 0.10 foot of required subgrade elevation and shall not permit the ponding of water.
- C. In areas to receive grassing, redistribute stockpiled topsoil over graded areas to a minimum depth of four (4") inches. Provide additional topsoil to achieve required depth.
- D. Where finish grade meets or abuts curbs, walks or pavement, uphill grades shall be slightly higher than curb or pavement to permit drainage.
- E. Excess soil and debris shall be removed from the jobsite.
- F. Stabilize site in accordance with the approved soil erosion and sedimentation control plan.

7.02 Replacing Pavement

- A. Existing pavement shall be replaced in accordance to the standards required by Dawson County Department of Transportation and/or the Georgia Department of Transportation.
- B. Construction shall be performed so as not to endanger roadway activity. Work shall be coordinated and be in compliance with the appropriate road and highway agencies.
- C. Pavement shall be reinstalled immediately after completing backfill operations and compaction requirements.
- D. Driveways and sidewalks shall be replaced to their full width from the edge of curb or road pavement to the nearest construction/control joint.
- E. Curbs shall be replaced for the entire length from control joint to control joint.
- F. Removed pavement shall be disposed offsite.
- G. Use Detail Nos. 28.1 and 29.1 when applicable.

SECTION 8: TESTING

8.01 General

- A. The following tests shall be performed as indicated at the expense of the Developer/Utility Contractor.
- B. Water distribution systems and/or sanitary sewer systems failing the required tests shall be repaired at the expense of the Developer/Utility Contractor.

8.02 Hydrostatic (Water Main and Force Main)

- A. Water distribution piping and force mains shall be subjected to a hydrostatic pressure test in accordance with AWWA Standard C600, latest revision.
- B. Combination air/vacuum release valves, corporations and curb stops and fire hydrant shall be installed at the high point of elevation in the pipe line system to release air.
- C. Pipe shall be filled with potable water to a pressure of 250200 psi and pipe pressure allowed to stabilize.
- D. Pressure shall be maintained, without the addition of water, for a minimum period of two (2) hours.
- E. Test shall be considered acceptable when a water pressure of 250200 psi is maintained for a period of two (2) hours.

8.03 Air Pressure (Gravity Flow)

- A. All gravity sewer pipe shall be subjected to a low air pressure test in accordance with Unibell UNI-B-6-90.
- B. Pipe shall be free of dirt and debris.
- C. During testing, personnel shall not be permitted in manholes connected to pipe being testing.
- D. The internal air pressure of the pipe shall be raised to approximately <u>10-15-5-9</u> psi.
- E. The test shall begin when the stabilized pressure is at a minimum of $\frac{105}{2}$ psi.
- F. Test shall be considered acceptable when an air pressure equivalent to the stabilized pressure is maintained for a period of 10 minutes.

8.04 Televising (Gravity Flow)

- A. Sanitary sewers shall be televised <u>with dye</u> to ensure integrity <u>prior to final plat</u> approved and prior to maintenance bond release.
- B. Pipe shall be free of dirt and debris.
- C. Televising cable attached to a video monitor shall be directed through pipe to view for the following deficiencies.

- 1. Cracks in pipe and liner material
- 2. Rolled gaskets
- 3. Leaking joints
- 4. Deviations from line and grade Sewer pipe shall be viewed from one manhole to the next adjacent illuminated manhole. Pipeline shall show more than three-quarters (3/4) of the opening at the opposite end of the pipeline.
- 5. Pipe deformations
- 6. Other deficiencies.
- D. Test shall be considered acceptable when the televised pipe does not reveal the deficiencies indicated in Item C.

8.05 Mandrel (Gravity Flow)

- A. Sanitary sewers shall be tested for deformation using a mandrel in accordance with ASTM D 3034 prior to final plat approval and prior to maintenance bond release.
- B. Pipe shall be tested when backfill and compaction are complete. Pipe shall be free of dirt and debris.
- C. Chords shall be attached to each end of the mandrel. One chord shall be passed through the section of pipe being tested. One chord shall be used to retrieve the mandrel should the pipe not allow passage.
- D. The mandrel shall be sized such that its outside dimension is 5% less than the actual inside diameter of the pipe.
- E. Test shall be considered acceptable when mandrel passes freely through pipe.

8.06 Static Water Level (Wet Well)

- A. Test wet well for infiltration/exfiltration after receiving field approval of wet well lining installation.
- B. Visually inspected wet well for infiltration.
- C. Fill wet well with potable water to a level equal to the high water alarm elevation and mark that elevation.
- D. Test shall be considered acceptable when a water level drop of less than one-quarter (1/4") inch is measured after a 24 hour period.
- E. Wet well sections exhibiting infiltration/exfiltration shall be replaced.

8.07 Vacuum Test (Sewer Manhole)

A. All manholes shall be vacuum tested in accordance with ASTM C 1244, "Standard Test Method for Concrete Sewer Manholes by the Negative Air Pressure (Vacuum) Test" as amended to date. All pipes entering the manhole should be plugged, taking care to securely place the plug from being drawn into the manhole. The test head shall be placed near the top of the manhole frame and cover and the seal inflated in accordance with the manufacturer's recommendations. A vacuum pump of teninches (10") of mercury shall be drawn and the vacuum pump shut off. With the valves closed, the time shall be measured for the vacuum to drop to nine-inches (9"). Following are minimum allowable test times for manhole acceptance at the specified vacuum drop:

Depth (Feet)	Time (Seconds)		
	48-inch Diameter	60-inch Diameter	72-inch Diameter
4	10	13	16
8	20	26	33
12	30	39	49
16	40	52	67
20	50	65	81
24	59	78	97
Add 2-ft. more depth	5	6.66	8

Note: These numbers have been taken from ASTM C 1244-93 (reapproved 2000).

- 1. If the manhole fails the initial test, repairs and adjustments necessary due to extenuating circumstances (i.e. pipe joint, plug sealing) should be made. Retesting shall proceed until a satisfactory test is obtained.
- 2. A final visual inspection shall be made by the Inspector and contractor. Any deficiencies noticed shall be repaired accordingly.
- 3. The cost for testing each manhole shall be included in the cost per vertical foot to install the pre-cast concrete manhole. Retest cost required due to defects in the Contractor's work, shall be paid by the Contract.
- 4. Testing shall be performed on all new or refurbished manholes.

SECTION 9: DISINFECTION

9.01 General

- A. All newly installed water distribution piping and piping affected during construction shall be disinfected in accordance with AWWA C651.
- B. All disinfection procedures shall be coordinated with the City inspector.
- C. City personnel shall operate existing valves during disinfection procedures.
- D. The City shall be involved in disinfecting the following in-place piping.
 - 1. Water mains.
 - 2. Service connections up to and including water meters and back flow prevention devices.
- E. The <u>City contractor</u> shall supply an appropriate chlorine solution and complete disinfection procedures.
- F. Water for disinfection shall be provided by the City at no expense to the contractor. Excessive use of water during disinfection procedures, as determined by the City, may be reason for charges to be levied against the contractor.
- G. Collection and testing of water samples shall be performed by the City.
- H. No water piping system shall be placed in service until written approval is received from the City Engineer.
- I. The Contractor shall be responsible for preventing soil erosion associated with disinfecting procedures.

9.02 Initial Flushing

- A. Prior to disinfection, the Contractor shall flush piping system with sufficient water to create a minimum velocity in the pipe of 2.5 feet per second (fps).
- B. Flushing shall be performed by pushing water through a laid section of pipe with one end of section open to the atmosphere above existing grade.
- C. Piping shall be flushed until water sampled from the piping yields a turbidity measurement of 0.5 NTUs or less.
- D. All piping and components associated with service connections shall be thoroughly flushed with fresh potable water prior to installation.
- E. Upon completion of flushing, laid pipe with one end open to atmosphere shall be relaid to depth indicated in Construction Drawings.

9.03 Chlorination and Flushing

- A. The <u>City contractor</u> shall introduce a chlorine solution having a concentration of 50 to 100 milligrams per liter (mg/l) into the water main.
- B. Upon introducing the chlorine solution, all valves associated with the water main shall be fully operated to ensure complete disinfection.
- C. All piping and components associated with service connections shall be thoroughly flushed with a 200 mg/l chlorine solution.
- D. Water main shall have a minimum 25 mg/l chlorine residual after a 24-hour retention period.
- E. After the 24-hour retention period, flush heavy chlorinated water from system through fire hydrants. When necessary, the Contractor shall provide sodium thiosulfate to neutralize the chlorine residual. Contractor shall apply sodium thiosulfate in accordance with manufacturer's recommendations.
- F. Flushing shall continue until water in main has a residual chlorine concentration of 1 mg/l.
- G. Water usage for filling and flushing will be billed at \$6.78 per thousand (1,000) gallons based upon a minimum of four (4) times the volume of the pipe. (Example: 5,000 LF 8" pipe x 2.89 gallons/feet x \$6.78/thousand gallons x 4 = \$391.88)

9.04 Disinfection Testing

- A. After chlorination and flushing is complete, the City shall collect water samples from the system and perform 24-hour analyses in accordance with the Georgia Rules for Safe Drinking Water.
- B. After the initial 24-hour analysis is complete and acceptable, a volume of water determined by the City Inspector shall be flushed from the water system and water samples shall be collected for a second 24-hour analysis.
- C. After the second 24-hour analysis is complete and acceptable, the water main may be put into service.
- D. Disinfection of the water main shall be repeated until testing is acceptable.
- E. Laboratory analyses shall be performed and certified by a laboratory selected by the City.

SECTION 10: CONCRETE

10.01 Formwork

- A. Formwork shall comply with ACI 347R-94.
- B. Contractor shall be responsible for design and construction of concrete formwork capable of supporting construction loads. Forms shall be as follows.
 - 1. Pre-engineered steel
 - 2. Pre-engineered reinforced fiberglass
 - 3. Wood
 - 4. Earth
- C. Construct formwork to lines and elevations as shown on drawings.
- D. Construct forms to be removed without hammering or prying against concrete.
- E. Plug holes in existing forms to prevent leakage of cement.
- F. Clean forms of dirt and debris prior to each use.
- G. Form ties shall be as follows:
 - 1. Break-back type with %-inch removable sleeve or 1-inch cone type
 - 2. For retaining walls and walls below liquid level, provide ties with positive water stop projection at center of wall.
- H. Prior to placement of reinforcing steel, apply form release agent to formwork. Release agent shall be evenly applied and compatible with type form being used.
- I. Construct bulkheads with shear keys at separation of pours.
- J. Shear key width shall be 1/3 of the wall or slab thickness.
- K. Removal of formwork shall take place only after concrete has developed sufficient strength to support itself and resist damage during removal.
- L. Forms used below grade shall be removed prior to backfill.

10.02 Steel Reinforcement

- A. Shop fabricate reinforcement to shape and dimensions as indicated on drawings.
- B. Use no bars or wire mesh with kinks or bends not shown on the drawings.
- C. Secure reinforcement in forms in accordance with the drawings, ACI 315, ACI 318 and CRSI "Recommended Practice for Placing Reinforcing Bars".
- D. Steel reinforcement shall set atop concrete bricks and/or be spaced using steel highchairs. When highchairs are used as a form spacer, the highchair feet shall be plastic dipped.

- E. Concrete coverage over reinforcing shall be as follows:
 - 1. Concrete cast against earth......3 inches
 - 2. Formed concrete exposed to earth or weather.....2 inches
 - 3. Slabs and walls exposed to wet conditions......2 inches
 - 4. Interior slabs and walls......³/₄ inch
- F. Splice reinforcement a minimum of 48 times (x) bar diameter. Mechanical splices shall be prohibited.
- G. Steel reinforcement, at the time cement is placed, shall be free of dirt, rust and debris. Reinforcement with flaking rust shall not be used.
- H. Conduits and pipes shall have same concrete coverage as reinforcing steel.
- I. Tie wire shall be used to secure reinforcing.
- J. Joints in wire mesh shall be lapped one wire spacing plus two (2") inches. Wire mesh shall have one (1") inch of concrete cover at forms.

10.03 Placement

- A. Place concrete in accordance with ACI 301-89, Chapter 8.
- B. Place no concrete until all embedded items and reinforcement have been placed in accordance with the plans.
- C. A City Inspector shall approve formwork layout and placement of steel reinforcement prior to placing concrete. Provide 24-hour notice prior to placing concrete.
- D. Concrete shall not be placed on loose, saturated or frozen soil.
- E. Concrete shall not be placed in water unless approved by the City Engineer.
- F. Concrete shall be placed only when ambient temperature is at 40° F and rising or place concrete in accordance with ACI 306-R88.
- G. During hot weather (>80°F), place concrete in accordance with ACI 305-R89.
- H. Saw control joints as soon as concrete can be traveled by foot without leaving impressions. Saw joint depth shall be ¼ of the slab depth.
- I. Consolidate all placed concrete with vibrator of suitable vibrations per minute.
- J. Do not pull or push concrete with vibrator.
- K. Do not drop concrete more than four (4') vertical feet.

10.04 Finishing

- A. Screed floor slabs or tops of walls by use of straight edge or screed board.
- B. Concrete shall be finished as follows:

1.	Interior slab to receive setting bed	float finish
2.	Interior slab exposed	trowel finish
3.	Exterior slab exposed	broom finish
4.	Exterior wall/column exposed	rubbed finish
5.	Unexposed concrete	form finish

10.05 Curing

- A. Prevent freshly placed concrete from premature drying and protect from excessive hot or cold temperatures.
- B. Maintain freshly placed concrete, without drying, at a relatively constant temperature.
- C. Begin curing after placement and finishing of concrete as soon as free water has disappeared from concrete surface.
- D. Curing methods shall be by the continuous application of water or by applying a liquid membrane forming curing-sealing compound to the fresh concrete surface.
 - 1. Curing by the continuous application of water shall occur for a period of not less than 72 hours.
 - 2. After application of liquid membrane forming curing-sealing compound, maintain continuity of coating and recoat areas damaged during curing period. Curing period shall be not less than 72 hours.
- E. Do not apply liquid curing sealing compound to concrete that is to be finished with a coating material such as paint, flooring material, etc.

SECTION 11: ENVIRONMENTAL COATINGS

11.01 Environmental Coatings

- A. Priming, painting and special coating of all surfaces shall include but are not limited to the following.
 - 1. Piping and appurtenances
 - 2. Supports
 - 3. Pumps
 - 4. Valves
 - 5. Equipment and appurtenances
 - 6. Concrete and masonry
 - 7. Structural and miscellaneous metals
- B. Priming, painting and special coating of all surfaces shall be in accordance with the coating manufacturer's recommendations.
- C. A manufacturer's representative of the approved coating system shall field approve all surface preparation and coating application when lining manholes and wet wells.