

City of Fayetteville

433 Hay Street
Fayetteville, NC
28301-5537
(910) 433-1FAY (1329)

Master

File Number: 21-1834

File ID: 21-1834	Category: Administrative Reports	Status: Draft
Version: 1	Case Number:	Mtg Type: City Council Regular Meeting
File Name:	File Created: 03/02/2021	
Title: Emergency Watershed Protection Mitigation Effort for Siple Avenue		Final Action:

Notes:

Sponsors:

Enactment Date:

Attachments: R2015-051, R2015-052, 2015.08.24 Council Agenda, 18-023 2018.01.22 CCAM, 2020.05.14 Dam Safety Letter, CUMBE-099 Upper Rayconda Jurisdictional Determination Letter 2020.06.25, Siple Ave - ODonnell Easement, Siple Ave - Rayconda Lakes easement, Siple Plat, Siple Ave NRCS Approved Plans

Enactment Number:

Contact:

Hearing Date:

Entered by: breeves@ci.fay.nc.us

Effective Date:

Related Files:

History of Legislative File

Ver- sion:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:
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Text of Legislative File 21-1834

TO: Mayor and Members of City Council

THRU: Doug Hewett, ICMA-CM, City Manager

FROM: Byron Reeves, PE, CFM - Stormwater Manager
Sheila Thomas-Ambat, PE, CCM, CFM - Public Services Director

DATE: March 22, 2021

RE:

Emergency Watershed Protection Mitigation Effort for Siple Avenue

COUNCIL DISTRICT(S):

6

Relationship To Strategic Plan:

Goal I: Safe and Secure Community

Goal III: High Quality Built Environment

Executive Summary:

The City was awarded a grant from the US Department of Agriculture Natural Resources Conservation Service (NRCS) and a grant from the NC Department of Agriculture and Consumer Services, for Emergency Watershed Protection (EWP) to perform hazardous debris removal and bank stabilization for multiple locations throughout the City. One of the identified projects funded by the grants was to provide sediment removal, culvert repair, and bank stabilization for Siple Avenue in the area of the former Rayconda Dam. Construction drawings for the sediment removal, culvert repair, and bank stabilization have been completed and received NRCS approval, however the property owner has indicated they will not provide the necessary right of way or easements needed for the City to construct the project. With the NRCS grant expiring August 26, 2021, the City does not have funds programmed for any future repair or maintenance to Siple Ave as it is private property. This administrative report is intended to memorialize staffs current effort to mitigate the erosion occurring at Siple Avenue as well as to document past involvements with Siple Avenue.

Background:

Siple Avenue was formally a city street constructed over and atop a private dam in the Rayconda subdivision. For some time, Siple Avenue was the only public access for a portion of the Rayconda Subdivision.

On August 24, 2015, City Council unanimously voted to acquire property by condemnation for the purpose of constructing Pinewood Terrace as an alternative city street for access to the subdivision. The City Council unanimously voted to close Siple Avenue for safety reasons due to the Rayconda Dam being classified as high hazard. Per the Resolution, Siple Avenue was to be permanently closed September 30, 2017. Although Siple Avenue remained open, the City did transfer its right of way to the homeowner's association via Resolution in 2015.

In October of 2016, Hurricane Matthew washed out the private dam and Siple Avenue. Although the City had no right of way, due to Siple Avenue being the only way in and out for the subdivision, as an emergency measure the City moved forward with installing a culvert and repairing the street in the interest of providing access to the subdivision for emergency vehicles. At the time of this emergency repair, the new Pinewood Terrace connection to

Raeform Road had not been constructed.

After construction of Pinewood Terrace was completed, it was accepted for inclusion in the City's system of streets via Council action on January 22, 2018. Council also took action on January 22, 2018 to accept Siple Avenue back into the City's system of streets, however this acceptance was invalid as there was no offer from the property owner to dedicate Siple Avenue for public use. Council cannot accept something that is has not been offered.

In June of 2018 the Rayconda HOA filed a lawsuit against the City. The complaint alleged that the City has been using and controlling private property (private lake) for its stormwater management infrastructure, and has not compensated the owners for this use. The complaint also alleges that the City has been negligent in maintaining its stormwater management infrastructure.

In September of 2018, the culvert under Siple Avenue sustained damage and the embankment began to erode due to flood waters from Hurricane Florence. In response to the damage, the City applied for and received funding through the FEMA Public Assistance Program to partially fund the repair of the culvert and stabilize the embankment.

After multiple meetings with staff from NC Dam Safety, the City sent a letter, dated May 14, 2020 seeking authorization to make repairs to the Siple Avenue culvert to prevent future damages to the embankment. Authorization for the repairs to the culvert was sought due to NC Dam Safety recognizing the Upper Rayconda Dam (CUMBE-099) as a privately-owned dam under its purview.

In June of 2020 the Rayconda Dam received a change of Jurisdictional Status to *Breached* from NCDEQ's Division of Energy Mineral and Land Resources. The Jurisdictional Determination requires the lake to remain permanently drained. At any time in the future if it is intended to impound water, a proposed dam will need to be designed and construed in accordance with current Dam Safety Law and Regulations.

In June of 2020 the City was also awarded a grant from the US Dept. of Agriculture's Natural Resources Conservation Services (NRCS) and a grant from the NC Department of Agriculture and Consumer Services. This NRCS grant identified multiple locations around the City (to include Siple Ave.) for sediment/debris removal, and stream bank stabilization. Under reimbursement of this NRCS grant, the City has completed survey and design of a project to remove sediment, repair the culvert under Siple Ave, and stabilize the embankment.

Prior to advertising the project for bid and moving forward with construction, the City attempted to properly acquire the necessary right of way and easements. As Council accepted Siple Avenue in 2018 without an actual dedication, the area in which the project would be constructed is private property. City staff have approached the property owner about right of way dedication and easement acquisition, however the property owner has

indicated they do not wish to grant either. Without acquiring the necessary right of way and easements, the project to mitigate the erosion occurring at Siple Avenue cannot move forward.

Issues/Analysis:

Rayconda Lakes Inc. are current plaintiffs in a lawsuit against the City over ownership and responsibility of the failed dam. The City has no ownership of the dam.

The condition of Siple Avenue will continue to deteriorate if the erosion issues are not mitigated. The area around the existing culvert will continue to erode causing more damage as it washes back towards the roadway. As daily traffic still utilizes this private strip of pavement, a public safety issue could potentially arise if the road surface fails.

To date the property owner has elected not to dedicate the right of way or grant easements to the City. The City has sealed construction drawings in hand, however, the project cannot be constructed unless the right of way is dedicated and easements have been acquired.

The current funding mechanism is the NRCS grant. The grant term is set to expire on August 26, 2021. When the NRCS grant expires, the City does not have funds programmed for any future repair or maintenance to this section of Siple Ave as it is private property. Any future repair or maintenance activity would be the responsibility of the property owner.

Budget Impact:

There is no current impact to the general fund or the stormwater enterprise fund for the proposed NRCS grant funded Siple Avenue Project.

All technical assistance, to include survey/design services are reimbursed 100% through the US Department of Agriculture Natural Resources Conservation Service (NRCS)

Construction would be reimbursed 75% by the US Department of Agriculture Natural Resources Conservation Service (NRCS) and 25% the NC Department of Agriculture and Consumer Services.

Options:

1. Read and accept the administrative report.
2. Read and request further explanation on the information provided within the report.

Recommended Action:

Option 1:

- Read and accept the administrative report

Attachments:

- R2015-051 Condemnation Action for the Spite Strip At The End Of Pinewood Terrace
- R2015-052 Public Hearing Regarding the Proposed Closing of a Portion of Siple Ave.
- 2015.08.24 Council Agenda
- 18-023 2018.01.22 CCAM
- 2020.05.14 Dam Safety Letter
- CUMBE-099 Upper Rayconda Jurisdictional Determination Letter 2020.06.25
- Siple Ave - ODonnell Easement
- Siple Ave - Rayconda Lakes Easement
- Siple Plat
- Siple Ave NRCS Approved Design Drawings
- Photo Log of Current Conditions

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF FAYETTEVILLE, NORTH CAROLINA AUTHORIZING THE CONDEMNATION ACTION FOR THE SPITE STRIP AT THE END OF PINEWOOD TERRACE

WHEREAS, the City of Fayetteville, NC, is a municipal corporation existing under and by virtue of the Constitution, statutes and laws of the State of North Carolina; and

WHEREAS, the governing body of the City of Fayetteville hereby determines that it is necessary and in the public interest to acquire certain property for the following public purpose:

Roadway Improvements

WHEREAS, North Carolina General Statute §160A-240.1 authorizes the City to acquire property by condemnation procedures; and

WHEREAS, the acquisition of said parcels for the purpose of constructing a roadway is considered a quick-take as defined by G.S. 40A-42(a); and

WHEREAS, the acquisition of the property is consistent with the City's development plans and commitments; and

WHEREAS, the City of Fayetteville shall acquire by condemnation, for the purpose stated above, the property and interest as described below:

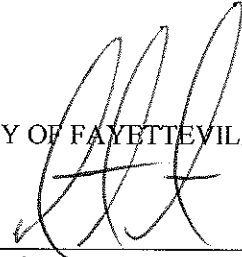
BEGINNING at a point being the northwestern corner of Lot 33 as shown on Plat Book 24, Page 10 entitled Rayconda Sec. II and continuing thence for a first call of South 17degrees 25 minutes East 21.49 feet to a point in the western line of said Lot 33, thence continuing along the northern right of way margin of Pinewood Terrace, North 85 degrees 58 minutes West 64.47 feet to a point in the eastern line of Lot 24 of Rayconda Sec. II Plat Book 24 Page 10, thence continuing along the eastern line of said Lot 24, North 17 degrees 25 minutes West 21.49 feet to a point being the northeastern corner of said lot, thence continuing South 85 degrees 58 minutes East 64.47 feet to the BEGINNING and containing approximately 0.03 acres more or less and known as Parcel Number 9496-25-4448 owned by the unknown heirs of Astor A. Keith.

NOW THEREFORE, BE IT RESOLVED on behalf of the people of Fayetteville, the City Council directs the City Attorney to institute the necessary proceeding under Article 1 of Chapter 40A of the North Carolina General Statutes.

IN WITNESS WHEREOF, the City of Fayetteville has caused this instrument to be signed in its name by its Mayor, attested by its City Clerk, and its corporate seal hereto affixed, all by order of its City Council.

PASSED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF FAYETTEVILLE, NORTH CAROLINA, on this, the 24th day of August, 2015; such meeting was held in compliance with the Open Meetings Act, at which meeting a quorum was present and voting.

CITY OF FAYETTEVILLE



NAT ROBERTSON, Mayor

(SEAL)



ATTEST:

Pamela Megill

PAMELA MEGILL, City Clerk

A RESOLUTION CALLING A PUBLIC HEARING REGARDING THE PROPOSED CLOSING OF A PORTION OF SIPLE AVENUE

WHEREAS, the City of Fayetteville is requesting to permanently close a portion of Siple Avenue as of September 30, 2017. Said closure will take place as of September 30, 2017 due to a new road being constructed for access to Rayconda Subdivision. This closure is needed to take vehicular access off of the dam which said portion of street was constructed upon. Said portion is described more particularly as follows:

Beginning at a point in the northern margin of Siple Avenue, said point also being the southeastern corner of Lot 29 Rayconda Sec. II as recorded in Plat Book 24, Page 10 of the Cumberland County Registry and continuing thence North 68 degrees 18 minutes 00 seconds East 25.67 feet to the TRUE POINT AND PLACE OF BEGINNING, and continuing thence along the northern right of way margin of Siple Avenue for a first call North 68 degrees 18 minutes 00 seconds East 176.05 feet to a curve to the right having a radius of 852.61, an arc length of 83.21 and a chord bearing and distance of North 71 degrees 05 minutes 45 seconds East 83.18 feet to a point, thence South 15 degrees 36 minutes 05 seconds East 60 feet to the southern margin of Siple Avenue with a curve to the left having a radius of 792.61, an arc length of 76.82 with a chord bearing and distance of South 71 degrees 04 minutes 36 seconds West 76.79 feet to a point, thence continuing with said southern margin of Siple Avenue South 68 degrees 18 minutes 00 seconds West 175.88 feet to a point, thence leaving the southern margin of Siple Avenue and continuing North 21 degrees 51 minutes 25 seconds West 60 feet to the TRUE POINT AND PLACE OF BEGINNING.

AND WHEREAS the above-described is located within the corporate limits of the City of Fayetteville and the Council intends to approve said request.

NOW THEREFORE, BE IT RESOLVED on behalf of the people of Fayetteville, the City Council calls a public hearing on the question of the proposed closing to be held during the regular meeting of the Fayetteville City Council in Council Chambers at 433 Hay Street, 7:00 PM, September 28, 2015. Persons wishing to be heard regarding this issue must register in advance with the City Clerk in the Executive Offices, Second Floor, City Hall, 433 Hay Street, prior to the hearing date or at Council Chambers between 6:30 – 7:00 PM on the evening of the hearing.

The City Manager or his designee is directed to advertise this notice as prescribed in NCGS 160A-299 on August 31st, September 7th, 14th and 21st 2015.

PASSED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF FAYETTEVILLE, NORTH CAROLINA, on this, the 24th day of August 2015; such meeting was held in compliance with the Open Meetings Act, at which meeting a quorum was present and voting.

(SEAL)



CITY OF FAYETTEVILLE

By:


NAT ROBERTSON, Mayor

ATTEST:


PAMELA MEGILL, City Clerk



City of Fayetteville

433 Hay Street
Fayetteville, NC
28301-5537
(910) 433-1FAY (1329)

Meeting Agenda - Final City Council Regular Meeting

Monday, August 24, 2015

7:00 PM

Council Chamber

1.0 CALL TO ORDER

2.0 INVOCATION

3.0 PLEDGE OF ALLEGIANCE

4.0 ANNOUNCEMENTS AND RECOGNITIONS

5.0 APPROVAL OF AGENDA

6.0 CONSENT AGENDA

6.01 [15-399](#) P15-22F. The initial zoning and rezoning of property from A1-Agricultural (County) and HI - Heavy Industrial zoning district to CC - Community Commercial Zoning District, located at 2065 Cedar Creek Road, and being the property of Naman Wilmington II LLC - Ashoh Patel).

COUNCIL DISTRICT(S): 2

Attachments:

[P15-22F Zoning Map](#)

[P15-22F Current Landuse Map](#)

[P15-22F Landuse Plan Map](#)

[P15-22F APPLICATION for Annexation](#)

[P15-22F APPLICATION](#)

[Site Photo 1](#)

[Site Photo 2](#)

[Site Photo 3](#)

[Site Photo 4](#)

- 6.02** [15-401](#) P15-20F. The rezoning of property from MU/CZ - Mixed Use Conditional Zoning to LC - Limited Commercial Zoning District and to be located at 4209 Bragg Blvd., and being the property of Tommy Kendall.

COUNCIL DISTRICT(S): 9

Attachments:

[P15-20F Zoning Map](#)

[P15-20F Current Landuse Map](#)

[P15-20F Landuse Plan Map](#)

[P15-20F APPLICATION](#)

[P15-20F site plan](#)

[Site Photo 1](#)

[Site Photo 2](#)

[Site Photo 3](#)

[Site Photo 4](#)

[Site Photo 5](#)

- 6.03** [15-438](#) P15-25F: The rezoning of property from SF-10 Single Family to OI Office and Institutional, on a property located at 985 S. McPherson Church Road, and being the property of Samuel P. Guy II.

COUNCIL DISTRICT(S): 5

Attachments:

[P15-25F Zoning Map](#)

[P15-25F Current Landuse Map](#)

[P15-25F 2010 Landuse Plan Map](#)

[P15-25F APPLICATION](#)

[Site Photo 1](#)

[Site Photo 2](#)

[Site Photo 3](#)

[Site Photo 4](#)

- 6.04** [15-443](#) Revisions of Chapter 14, Article V1, Regulation of Boarded Residential Structures

COUNCIL DISTRICT(S): All Districts

Attachments:

[Chapter 14, Article VI - Proposed Revisions](#)

[Chapter 14, Article VI - Proposed Revised Ordinance](#)

[Chapter 14, Article II, Section 14-39\(j\)](#)

- 6.05** [15-444](#) Revisions of Chapter 22, Article 1, Section 22-17, Notice to Abate Unlawful Conditions; Abatement by the City Where conditions of Matter Admit of No Delay; Penalty.
COUNCIL DISTRICT(S): All Districts

Attachments: [Proposed Ordinance Revisions, Chapter 22, Article I, Section 22-17](#)
[Proposed Ordinance Revising Chapter 22, Article I, Section 22-17](#)

- 6.06** [15-445](#) Rescinding of Demolition Ordinances
COUNCIL DISTRICT(S): 2

Attachments: [Haddock Street, 5111 - Recorded Demolition Ordinance](#)
[Haddock Street, 5111 - Proposed Resolution](#)
[Person Street, 133 - Recorded Demolition Ordinance](#)
[Person Street, 133 - Proposed Resolution](#)
[Person Street, 135 - Recorded Demolition Ordinance](#)
[Person Street, 135 - Proposed Resolution](#)

- 6.07 [15-451](#) Uninhabitable Structures Demolition Recommendations
231 B Street District 2
1011 Branson Street District 2
507 Person Street District 2
411 Plummers Lane District 2
2764 Rivercliff Road District 2
2779 Rivercliff Road District 2
2783 Rivercliff Road District 2
COUNCIL DISTRICT(S): 2 & 4

Attachments:

[B Streett, 231 - Aerial Map](#)
[B Streett, 231 - Photos](#)
[B Streett, 231 - Ordinance](#)
[Branson Street, 1011 - Aerial Map](#)
[Branson Street, 1011 - Photos](#)
[Branson Street, 1011 - Ordinance](#)
[Person Street, 507 - Aerial Map](#)
[Person Street, 507 - Photos](#)
[Person Street, 507 - Ordinance](#)
[Plummers Lane, 411 - Aerial Map](#)
[Plummers Lane, 411 - Photos](#)
[Plummers Lane, 411 - Ordinance](#)
[Rivercliff Road, 2764 - Aerial Map](#)
[Rivercliff Road, 2764 - Photos](#)
[Rivercliff Road, 2764 - Ordinance](#)
[Rivercliff Road, 2779 - Aerial Map](#)
[Rivercliff Road, 2779 - Photos](#)
[Rivercliff Road, 2779 - Ordinance](#)
[Rivercliff Road, 2783 - Aerial Map](#)
[Rivercliff Road, 2783 - Photos](#)
[Rivercliff Road, 2783 - Ordinance](#)

- 6.08** [15-450](#) Approval of Pinewood Terrance Extension in Rayconda Subdivision,
Capital Project Ordinance 2016-11 and Budget Ordinance
Amendment 2016-1
COUNCIL DISTRICT(S): 6
- Attachments:** [BOA 2016-1](#)
[CPO 2016-11 \(Pinewood Terrace Extension\)](#)
[Rayconda connector option MAP](#)
[Agreementand Deed for Gillis](#)
[PinewoodTerraceCondemnation](#)
[Siple Public Hearing](#)
[GillisAgreement](#)
- 6.09** [15-447](#) Capital Project Ordinance 2016-10 - Aquatic Center at College
Lakes Recreation Center
COUNCIL DISTRICT(S): 3
- Attachments:** [CPO 2016-10 \(College Lakes Aquatic Center\)](#)
- 6.010** [15-459](#) Capital Project Fund Amendments
COUNCIL DISTRICT(S): All
- Attachments:** [Capital Project Fund Amendments.pdf](#)
[City - Annexation Phase V Reserve - #16.pdf](#)
[City - Annex 16 -17 #2.pdf](#)
- 6.011** [15-461](#) Special Revenue Fund Project Ordinance 2016-5 (2015 Badges for
Baseball Program)
COUNCIL DISTRICT(S): All
- Attachments:** [SRO 2016-5 \(2015 Badges for Baseball\)](#)
- 6.012** [15-448](#) Bid Recommendation - I/O Underground Primary Distribution Cable
COUNCIL DISTRICT(S): All
- Attachments:** [UG Cable Recommendation](#)
- 6.013** [15-449](#) Bid Recommendation - Cross Creek WRF Alkalinity Feed
Improvements
COUNCIL DISTRICT(S): All
- Attachments:** [Cross Creek Alkalinity Project Recommendation](#)
- 6.014** [15-454](#) Bid Recommendation - Annexation Phase V - Project VII, Area 16,
Hampton Oaks & Southgate Subdivisions to include Overlay
COUNCIL DISTRICT(S): All
- Attachments:** [Bid Recommendation - Annex Ph V Area 16](#)

6.015 [15-455](#) Bid Recommendation - Annexation Phase V - Project VII, Area 17
Section I - Blue Spring Woods, Beacon Hill and Emerald Gardens
Subdivisions to include Overlay
COUNCIL DISTRICT(S): All

Attachments: [Bid Recommendation - Annex Ph V Area 17 Section I](#)

6.016 [15-456](#) Bid Recommendation - Annexation Phase V - Project VII, Area 17
Section II - Blue Spring Woods, Beacon Hill and Emerald Gardens
Subdivisions to Include Overlay
COUNCIL DISTRICT(S): All

Attachments: [Bid Recommendation - Annex Ph V Area 17 Section II](#)

7.0 REPORTS FROM BOARDS AND COMMISSIONS

7.01 [15-453](#) Joint Fayetteville Cumberland County Senior Citizen Advisory Commission - Reports from Boards and Commissions
Presenter: Carey Berg, JFCCSCAC Chair
COUNCIL DISTRICT(S): All

7.02 [15-463](#) Fayetteville Metropolitan Housing Authority Annual Report
COUNCIL DISTRICT(S): All

Attachments: [2015 Annual Report Metropolitan Housing Authority](#)

8.0 PUBLIC HEARINGS

For certain issues, the Fayetteville City Council may sit as a quasi-judicial body that has powers resembling those of a court of law or judge. The Council will hold hearings, investigate facts, weigh evidence and draw conclusions which serve as a basis for its decisions. All persons wishing to appear before the Council should be prepared to give sworn testimony on relevant facts.

8.01 [15-400](#) P15-21F. The issuing of a Special Use Permit for Transitional Housing, on a property located at 600 Hillsboro Street, and being the property of Catfish & Goldies Unlimited.
COUNCIL DISTRICT(S): 2

Attachments: [City Council Packet Quasi-Judicial Evidence from Operations Inasmuch](#)
[P15-21F Zoning Map](#)
[P15-21F Current Landuse Map](#)
[P15-21F Landuse Plan Map](#)
[P15-21F APPLICATION](#)
[Site Photo 1](#)
[Site Photo 2](#)
[Site Photo 3](#)

- 8.02 [15-402](#) P15-19F. The issuing of a Special Use Permit for outdoor dog runs/part-time kennels, located at 4209 Bragg Blvd., and being the property of Tommy Kendall.
COUNCIL DISTRICT(S): 9

Attachments: [P15-19F Zoning Map](#)
[P15-19F Current Landuse Map](#)
[P15-19F Landuse Plan Map](#)
[P15-19F APPLICATION](#)
[P15-19F site plan](#)
[Site Photo 1](#)
[Site Photo 2](#)
[Site Photo 3](#)
[Site Photo 4](#)

- 8.03 [15-460](#) Code amendment 1) to define and classify brewpubs, and 2) limiting ground floor residential uses on Hay, Person, Green and Gillespie Streets in the DT Downtown District.
COUNCIL DISTRICT(S): All

Attachments: [Draft Ord - brewpub and DT resid CC 8-24-2015](#)
[Evaluation Criteria - brewpub and DT resid](#)
[PPT brewpub and DT residential 8-24-2015](#)

- 8.04 [15-464](#) Code Amendment to various sections for parking standards for trailers, campers and RVs in residential zoning districts.

Attachments: [Draft Ord - trailer and RV parking](#)
[Evaluation Criteria - trailers campers RVs](#)
[Existing regs - trailer RV pkg](#)
[Comparison - Trailers and RV pkg 2015](#)
[CC trailers RVs 8-24-2015](#)

- 8.05 [15-457](#) Annexation of the Naman Wilmington II LLC Property

Attachments: [Proposed Annexation Ordinance Naman Wilmington II LLC Property-\(Contiguo Vicinity Map-With PWC Water & Sewer Naman Wilmington II LLC Property ES Legal Description Map Naman Wilmington II LLC Property.pdf](#)
[Basic Info Sheet-Naman Wilmington II LLC Property.doc](#)
[Sufficiency Memo 2065 Cedar Creek Road-E Side of Judson Church Road.doc](#)
[100_6401.JPG](#)
[100_6404.JPG](#)

9.0 OTHER ITEMS OF BUSINESS

9.01 [15-458](#)

Request by Pearce's Mill Fire Department for a Waiver of the Annexation Requirement Contained in City Council Policy 150.2

Attachments:

[Vicinity Map-Re Pearces Mill Fire Dept Annexation Waiver Request 8x11 Lan](#)
[Annexation Waiver Request- Pearces Mill Fire Dept 6-15-15.pdf](#)
[Policy 150-2 Effective 021312.pdf](#)

10.0 ADJOURNMENT

POLICY REGARDING PUBLIC HEARING AGENDA ITEMS

Anyone desiring to address the Council on an item that is not a public hearing must present a written request to the City Manager by 10:00 a.m. on the Wednesday preceding the Monday meeting date.

POLICY REGARDING NON-PUBLIC HEARING AGENDA ITEMS

Individuals wishing to speak at a public hearing must register in advance with the City Clerk. The Clerk's Office is located in the Executive Offices, Second Floor, City Hall, 433 Hay Street, and is open during normal business hours. Citizens may also register to speak immediately before the public hearing by signing in with the City Clerk in the Council Chamber between 6:30 p.m. and 7:00 p.m.

CLOSING REMARKS

POLICY REGARDING CITY COUNCIL MEETING PROCEDURES **SPEAKING ON A PUBLIC AND NON-PUBLIC HEARING ITEM**

Individuals who have not made a written request to speak on a nonpublic hearing item may submit written materials to the City Council on the subject matter by providing twenty (20) copies of the written materials to the Office of the City Manager before 5:00 p.m. on the day of the Council meeting at which the item is scheduled to be discussed.

COUNCIL MEETING WILL BE AIRED **August 24, 2015 @ 7:00 p.m.**

Notice Under the Americans with Disabilities Act (ADA):

The City of Fayetteville will not discriminate against qualified individuals with disabilities on the basis of disability in the City's services, programs, or activities. The City will generally, upon request, provide appropriate aids and services leading to effective communication for qualified persons with disabilities so they can participate equally in the City's programs, services, and activities. The City will make all reasonable modifications to policies and programs to ensure that people with disabilities have an equal opportunity to enjoy all City programs, services, and activities. Any person who requires an auxiliary aid or service for effective communications, or a modification of policies or procedures to participate in any City program, service, or activity, should contact the office of Ron McElrath, ADA Coordinator, at rmcelrath@ci.fay.nc.us, 910-433-1696, or the Office of the City Clerk at cityclerk@ci.fay.nc.us, 910-433-1989, as soon as possible but no later than 72 hours before the scheduled event.

City of Fayetteville

433 Hay Street
Fayetteville, NC
28301-5537
(910) 433-1FAY (1329)

Master

File Number: 18-023

File ID: 18-023

Category: Consent

Status: Agenda Ready

Version: 1

**Case
Number:**

Mtg Type: City Council
Regular Meeting

File Created: 01/12/2018

File Name:

Final Action:

**Title: RE: Addition of Pinewood Terrace and Siple Ave to the City of
Fayetteville System of Streets**

COUNCIL DISTRICT(S): 6

Notes:

Sponsors:

Enactment Date:

Attachments:

Enactment Number:

Contact:

Hearing Date:

Entered by:

Effective Date:

Related Files:

History of Legislative File

Ver- sion:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:
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Text of Legislative File 18-023

TO: Mayor and Members of City Council

THRU: Kristoff Bauer, Deputy City Manager

FROM: Rob Stone, PE, Engineering & Infrastructure Director

DATE: January 22 2018

**RE: Addition of Pinewood Terrace and Siple Ave to the City of Fayetteville
System of Streets**

COUNCIL DISTRICT(S): 6

Relationship To Strategic Plan:

High quality built environment
Desirable place to live, work and recreate

Executive Summary:

The Fayetteville street system includes over 740 miles and is one of the City's largest assets impacting every citizen, employee, emergency service personnel, commuter, and visitor. As new development progresses, new streets are built in accordance to the City's ordinances and can be designated for private or public ownership and maintenance. When streets are constructed it requires a Council action to add the streets to the City's system. Streets added to our system qualify for Powell Bill Program allocations, which is a North Carolina funding program for the building and maintenance of major city streets. City Council is asked to consider the addition of Pinewood Terrace and Siple Ave to the City's system of streets.

Background:

The City's street construction standards are set by ordinance. As streets are satisfactorily completed, staff provides a recommendation to Council for official addition to the City's system of streets.

Pinewood Terrace has been recently constructed as an additional connection to the Rayconda Subdivision. This street has been inspected by staff, is constructed consistent with City standards, and is now recommended for addition to the City of Fayetteville system of streets. Siple Ave was previously the only access to the rear part of the neighborhood. Per Resolution No. R2015-065 executed on September 28, 2015 City Council agreed to close Siple Ave after the construction of the new road, Pinewood Terrace Extension.

Due to the impact by Hurricane Matthew, however, Siple Ave was reconstructed after the dam breached. Per City Council's direction it is the recommendation Siple Ave., which has been repaired consistent with City standard, be maintained as part of the City's system of streets. Since removing Siple Ave from the City system had already taken effect, a Council action is necessary to add Siple back to the system. Both streets will add 0.32 of a mile to the City's street system bringing the total to 741.41 miles.

Issues/Analysis:

These streets need to be officially accepted and added to City of Fayetteville system of streets for the City to begin providing maintenance services and be included in our 2018 Powell Bill appropriation.

Budget Impact:

Street maintenance cost will increase while the funds received from Powell Bill increase as well. As these road segments are newly constructed, significant maintenance cost is not expected for several years.

Options:

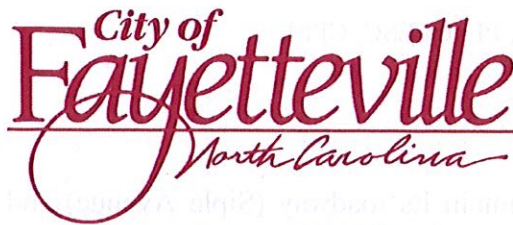
- Approve the inclusion of Pinewood Terrace and Siple Ave to the City of Fayetteville system of streets.
- Do not approve the inclusion of Pinewood Terrace and Siple Ave to the City of Fayetteville system of streets and provide additional direction to staff.

Recommended Action:

Staff recommends that Council move to approve the inclusion of Pinewood Terrace and Siple Ave to the City of Fayetteville system of streets.

Attachments:

None



CITY MANAGER'S OFFICE

May 14, 2020

Via email to toby.vinson@ncdenr.gov and U.S. Mail

Mr. William E. Toby Vinson, Jr., PE, CPESC, CPM
Department of Environmental Quality
Division of Energy, Mineral, and Land Resources
1612 Mail Service Center
Raleigh, NC 27699

Re: Siple Avenue at Upper Rayconda Dam

Dear Mr. Vinson:

Siple Avenue is a City of Fayetteville-maintained roadway that includes a portion of the roadway along the crest of the Upper Rayconda Dam, CUMBE-099. On Monday, March 16, 2020, the City's program management team received a phone call from North Carolina Division of Environmental Quality (NCDEQ) Dam Safety, requesting additional information related to the City's prior actions and intents involving the portion of Siple Avenue along the dam crest.

During Hurricane Matthew, which occurred on October 8, 2016, Upper Rayconda Dam was overtopped and breached. At this time, Siple Avenue served as the only public access for a portion of the Rayconda neighborhood. On October 10, 2016, the current Division of Energy, Mineral, and Land Resources (DEMLR) Chief of Program Operations, Toby Vinson, instructed DEMLR to authorize the City to complete repairs to Siple Avenue to reestablish access for residents and public safety. This work included installation of a 48" RCP within the breached portion of the dam, debris removal, roadway repair, stabilization of the embankment, and rip rap outlet protection.

During Hurricane Florence, which occurred on September 14, 2018, an eight-foot section of the recently installed 48" RCP at the downstream end of the culvert was dislodged from the rest of the pipe. The storm also caused damage to the embankment and riprap armoring. The City applied and received funding through the FEMA Public Assistance (PA) Program to maintain access for City residents and public safety via Siple Avenue. As such, the approved funding for maintenance to Siple Avenue will be used to reset the dislodged culvert, stabilize the embankment at the culvert outlet, and reestablish riprap armoring. The City recognizes that Upper Rayconda Dam (CUMBE-099) is a privately-owned dam and is under the purview of NC Dam Safety and is requesting authorization to make these repairs to Siple Avenue to prevent future damages to the embankment.

The City intends only to maintain its roadway (Siple Avenue) and the associated stormwater culvert. The City has no plans to impound water upstream of Siple Avenue in the area of the former Upper Rayconda reservoir. Based on hydrologic and hydraulic analyses done by consulting engineering firms, it has been determined that the existing culvert size (48" RCP) meets the City's required 25-year level of service.

Sincerely,

Douglas J. Hewett, ICMA-CM
City Manager

DJH/AYH/jkp

Re: Siple Avenue at Upper Rayconda Dam

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Siple Avenue is a City of Fayetteville-maintained roadway that includes a portion of the roadway along the crest of the Upper Rayconda Dam, CUMBE-099. On Monday, March 16, 2020, the City's program management team received a phone call from North Carolina Division of Environmental Quality (NCEQ) Dam Safety, requesting additional information related to the City's prior actions and intent involving the portion of Siple Avenue along the dam crest.

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433 Hay Street
Fayetteville, NC 28301-5537
(910) 433-1990 | (910) 433-1948 Fax
www.cityoffayetteville.org



NORTH CAROLINA
Environmental Quality

ROY COOPER
Governor

MICHAEL S. REGAN
Secretary

BRIAN WRENN
Director

June 25, 2020

JURISDICTIONAL DETERMINATION

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

7014-1200-0001-3433-8915
Rayconda Homeowners Association
Attn: Garris Neil Yarborough
115 E. Russell Street
Fayetteville, North Carolina 28301

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

7014-1200-0001-3433-8922
City of Fayetteville
Attn: Douglas J. Hewett, City Manager
433 Hay Street
Fayetteville, North Carolina 28301

RE: Change of Jurisdictional Status to BREACHED
Upper Rayconda Lake Dam
Cumberland County
State Dam ID: CUMBE-099

Gentlemen:

The Upper Rayconda Lake Dam, State ID: CUMBE-099, was a small, high-hazard potential earth embankment structure located on Siple Avenue in Fayetteville, NC. We understand that on October 8, 2016, during Hurricane Matthew, the dam was overtopped by flood waters and did breach, resulting in a complete draining of Upper Rayconda Lake. As an emergency measure, the City of Fayetteville subsequently placed a 48-inch diameter concrete pipe culvert within the breach section of the failed dam and repaved the roadway in order to restore service to Siple Avenue. At that time, Siple Avenue traversed the crest of the dam embankment and was the only public access for a portion of the Rayconda neighborhood.

Since October 2016, personnel of North Carolina Department of Environmental Quality's Division of Energy, Mineral and Land Resources (DEMLR) Fayetteville Regional Office have continued to periodically inspect the remains of the breached dam, which have continued to deteriorate. The owners have received Notices of Deficiency from DEMLR in 2018 and 2019. The condition of the dam embankment remains unsatisfactory.

In the five years since the dam was breached, the Rayconda Homeowners Association has not attempted to repair or restore the dam. DEMLR has therefore concluded that Rayconda Homeowners Association have abandoned their custodial responsibilities for the dam.



Furthermore, DEMLR has received a letter from the City of Fayetteville dated May 14, 2020 indicating that the City does not intend to repair or restore the Upper Rayconda Dam as an impounding structure, either now or in the future. They have further indicated that the existing 48-inch RCP culvert does meet the City's requirements for a stormwater culvert, and that they will continue to maintain the embankment and culvert as a roadway and stormwater conveyance.

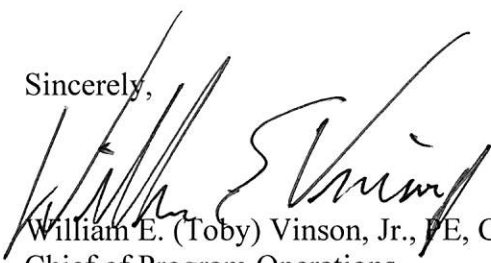
Based on the above, DEMLR is hereby changing the status of the Upper Rayconda Lake Dam to BREACHED. Henceforth, the lake must remain permanently drained. If, at some future time, the owners of the property wish to re-impound Upper Rayconda Lake, any proposed new dam will need to be designed and constructed in accordance with the Dam Safety Law of 1967: §143-215.23 – §143-215.37 and the Dam Safety Regulations: 15A NCAC 02K. The Dam Safety Law of 1967 and the Dam Safety Regulations can be found at the following web address: <https://deq.nc.gov/about/divisions/energy-mineral-land-resources/energy-mineral-land-permits/dam-safety>.

Any future dam construction proposed for this site will require prior approval from DEMLR before proceeding. Plans and specifications, along with the data and calculations necessary to develop them, must be prepared by a Professional Engineer licensed in the State of North Carolina. The application in paper and electronic format must be submitted to the State Dam Safety Engineer for review and approval. There will be initial and additional application processing fees required to be submitted with the application, depending on the type, nature and cost of the project.

Because the former lake bed appears to have reverted to jurisdictional wetlands, The Army Corps of Engineers and the Division of Water Resources of this Department should also be contacted to determine if additional permits would be required for work in this area.

For assistance, you may contact Ms. Melissa Joyner, Land Quality Section, 225 Green Street, Suite 714, Fayetteville, North Carolina 28301, telephone number (910) 433-3300 or the Dam Safety Program in the Raleigh Central Office at telephone number (919) 707-9220 should you have questions concerning this matter.

Sincerely,



William E. (Toby) Vinson, Jr., PE, CPM
Chief of Program Operations
NC DEQ Division of Energy Mineral and Land Resources

WEV/gle

cc: Mr. Timothy LaBounty, PE, Land Quality Regional Engineer, FRO

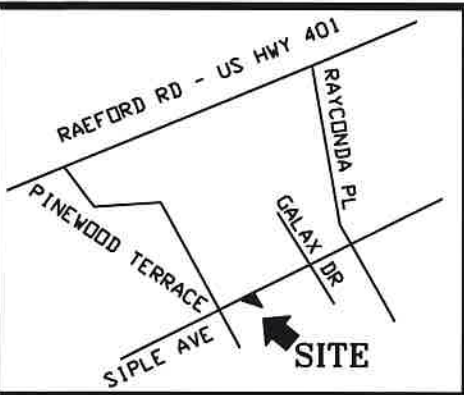
I, REX B. OWEN, CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN BOOK SHOWN, PAGE HEREON OR OTHER REFERENCE SOURCE _____); THAT THE BOUNDARIES NOT SURVEYED ARE INDICATED AS DRAWN FROM INFORMATION IN BOOK _____, PAGE _____ OR OTHER REFERENCE SOURCE _____; THAT THE RATIO OF PRECISION OR POSITIONAL ACCURACY IS 1:10,000±, AND THAT THIS MAP MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56, 1600). WITNESS MY HAND AND SEAL THIS 11th DAY OF November, 2020.

Rex B. Owen

PROFESSIONAL LAND SURVEYOR - L-2719



NC GRID NAD 83 (2011)



VICINITY MAP (N.T.S.)

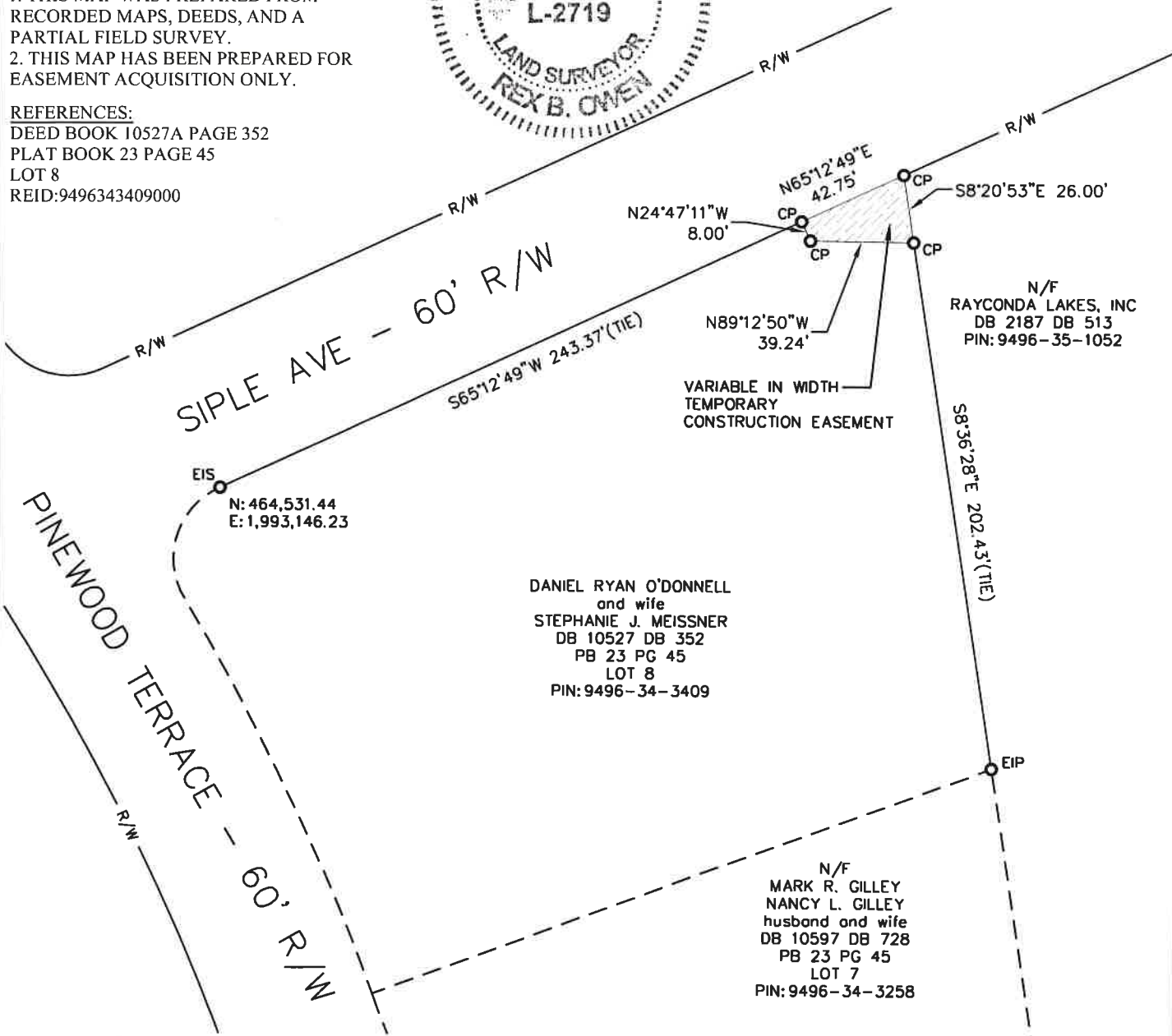
AREA OF:	SQ. FT.	ACRE
PERMANENT EASEMENT	0	0
TEMPORARY EASEMENT	674.64	0.016

NOTES:

1. THIS MAP WAS PREPARED FROM RECORDED MAPS, DEEDS, AND A PARTIAL FIELD SURVEY.
2. THIS MAP HAS BEEN PREPARED FOR EASEMENT ACQUISITION ONLY.

REFERENCES:

DEED BOOK 10527A PAGE 352
 PLAT BOOK 23 PAGE 45
 LOT 8
 REID:9496343409000

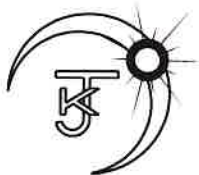


N: 464,531.44
 E: 1,993,146.23

DANIEL RYAN O'DONNELL
 and wife
 STEPHANIE J. MEISSNER
 DB 10527 DB 352
 PB 23 PG 45
 LOT 8
 PIN: 9496-34-3409

N/F
 RAYCONDA LAKES, INC
 DB 2187 DB 513
 PIN: 9496-35-1052

N/F
 MARK R. GILLEY
 NANCY L. GILLEY
 husband and wife
 DB 10597 DB 728
 PB 23 PG 45
 LOT 7
 PIN: 9496-34-3258



JOYNER KEENY, PLLC
 LAND PLANNING & SURVEYING

230 DONALDSON STREET, SUITE - 500A
 FAYETTEVILLE, NORTH CAROLINA 28301
 North Carolina Firm Number P-0551
 Phone: 910.920.3275
 joynerkeeney.com

LEGEND

- EIS - EXISTING IRON ROD
- EIP - EXISTING IRON PIPE
- R/W - RIGHT OF WAY
- CP - CALCULATED POINT
- TCE - TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED EASEMENT
- TEMPORARY EASEMENT



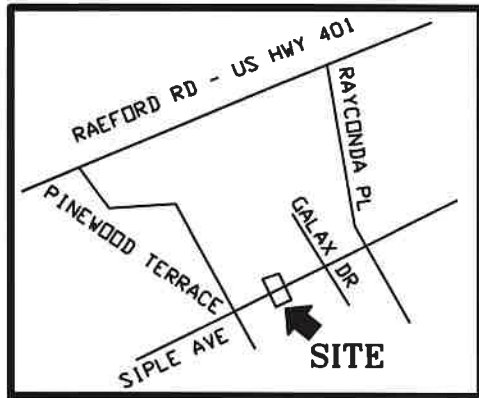
PUBLIC SERVICES DEPARTMENT
 ENGINEERING DIVISION
 433 HAY ST. 28301
 (910) 433-1656

PROPOSED DRAINAGE EASEMENT
 DANIEL RYAN O'DONNELL
 and wife STEPHANIE J. MEISSNER
 PIN: 9496-34-3409

SHEET 1 OF 1

EXHIBIT A

DATE 11/09/2020 DRAWN BY JLK
 SCALE 1" = 60' CK'D BY RBO



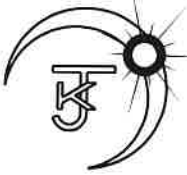
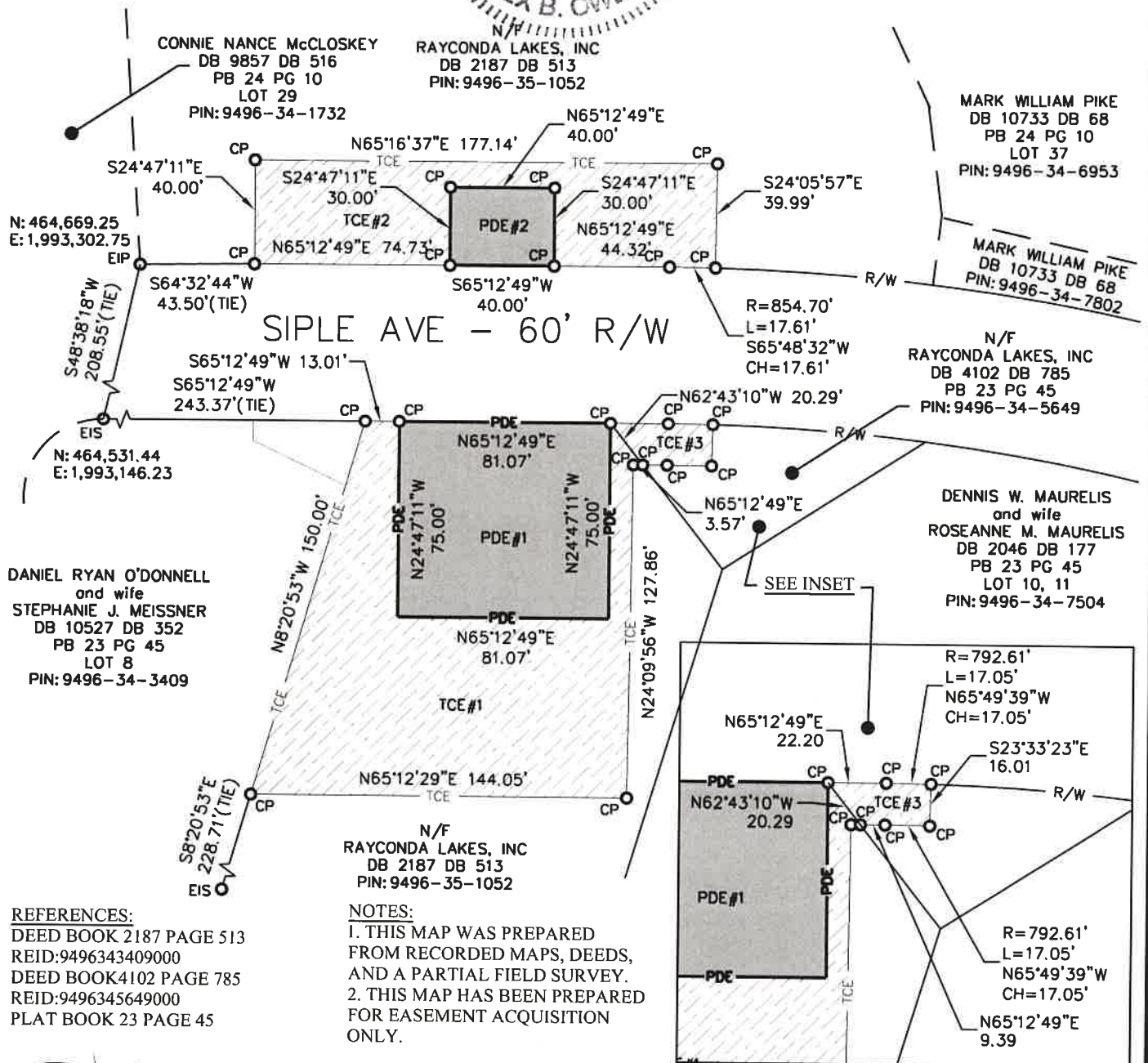
VICINITY MAP (N.T.S.)



I, REX B. OWEN, CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN BOOK SHOWN, PAGE HEREON OR OTHER REFERENCE SOURCE _____); THAT THE BOUNDARIES NOT SURVEYED ARE INDICATED AS DRAWN FROM INFORMATION IN BOOK _____, PAGE _____ OR OTHER REFERENCE SOURCE _____; THAT THE RATIO OF PRECISION OR POSITIONAL ACCURACY IS 1:10,000±, AND THAT THIS MAP MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56, 1600). WITNESS MY HAND AND SEAL THIS 11th DAY OF NOVEMBER, 2020.

Rex B. Owen
PROFESSIONAL LAND SURVEYOR - L-2719

AREA OF:	SQ. FT.	ACRE
PERMANENT EASEMENT #1	6,080.46	0.140
PERMANENT EASEMENT #2	1,200.00	0.028
TEMPORARY EASEMENT #1	11,658.05	0.268
TEMPORARY EASEMENT #2	5,859.66	0.135
TEMPORARY EASEMENT #3	525.68	0.012



JOYNER KEENY, PLLC
LAND PLANNING & SURVEYING
230 DONALDSON STREET, SUITE - 500A
FAYETTEVILLE, NORTH CAROLINA 28301
North Carolina Firm Number P-0551
Phone: 910.920.3275
joynerkeeney.com



PUBLIC SERVICES DEPARTMENT
ENGINEERING DIVISION
433 HAY ST. 28301
(910) 433-1656

LEGEND

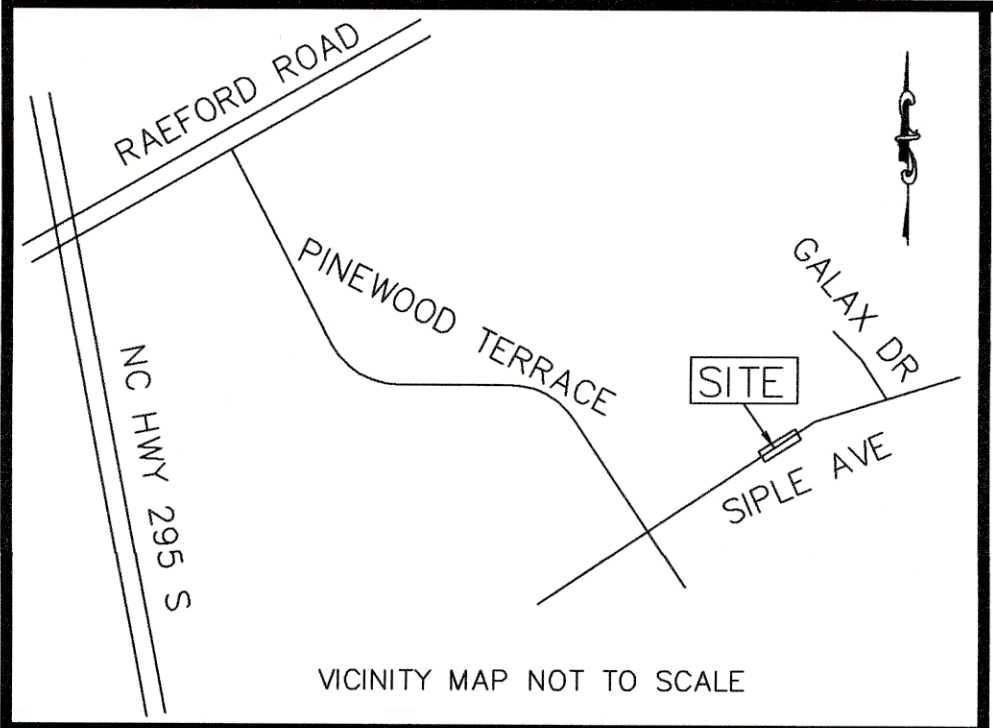
EIS - EXISTING IRON ROD		-PROPOSED EASEMENT
EIP - EXISTING IRON PIPE		-TEMPORARY EASEMENT
R/W - RIGHT OF WAY		
CP - CALCULATED POINT		
PDE-PERMANENT DRAINAGE EASEMENT		
TCE-TEMPORAY CONSTRUCTION EASEMENT		

PROPOSED DRAINAGE EASEMENT
RAYCONDA LAKES, INC
PIN:9496-35-1052
PIN:9496-34-5649

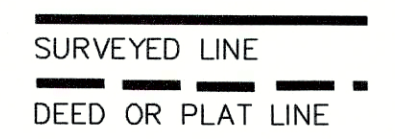
SHEET 1 OF 1

EXHIBIT A

DATE 11/09/2020 DRAWN BY JLK
SCALE 1" = 60' CK'D BY RBO



LEGEND:
CP-COMPUTED POINT
A-ARC LENGTH
R-RADIUS
D-DELTA ANGLE
C-CHORD LENGTH
CH-CHORD BEARING
N-NORTH
S-SOUTH
E-EAST
W-WEST
EPK-EXISTING PK NAIL



NORTH CAROLINA
CUMBERLAND COUNTY
I, _____, REVIEW OFFICER OF CUMBERLAND COUNTY CERTIFY THAT THE MAP OR PLAT TO WHICH THIS CERTIFICATION IS AFFIXED MEETS ALL STATUTORY REQUIREMENTS FOR RECORDING.

DATE _____ REVIEW OFFICER _____

THE UNDERSIGNED HEREBY ACKNOWLEDGES THAT THE LAND SHOWN ON THIS PLAN IS WITHIN SUBDIVISION REGULATIONS JURISDICTION OF THE CITY OF FAYETTEVILLE AND THAT THIS PLAT AND ALLOTMENT IS (MY OR OUR) FREE ACT AND DEED AND THAT (I OR WE) DO HEREBY DEDICATE TO PUBLIC USE AS STREETS, PARKS, PLAYGROUNDS, SCHOOL SITES, OPEN SPACES AND EASEMENTS FOREVER ALL AREAS SO SHOWN OR INDICATED ON SAID PLAT.

BY: _____
RAYCONDA LAKES INC
BY: _____
DANIEL RYAN O'DONNELL
BY: _____
STEPHANIE J. MEISSNER

STATE OF NORTH CAROLINA
COUNTY OF _____

I, _____, NOTARY PUBLIC OF SAID COUNTY AND STATE, DO HEREBY CERTIFY THAT _____ RAYCONDA LAKES INC, PERSONALLY APPEARED BEFORE ME THIS DAY AND ACKNOWLEDGED THAT HE/SHE IS _____ OF _____, BEING AUTHORIZED TO DO SO, EXECUTED THE FOREGOING ON BEHALF OF THE CORPORATION.

WITNESS MY HAND AND NOTARIAL SEAL, THIS THE _____ DAY OF _____, 2020

NOTARY PUBLIC
MY COMMISSION EXPIRES: _____

STATE OF NORTH CAROLINA
COUNTY OF _____

I, _____, NOTARY PUBLIC OF SAID COUNTY AND STATE, DO HEREBY CERTIFY THAT DANIEL RYAN O'DONNELL AND WIFE STEPHANIE J. MEISSNER PERSONALLY APPEARED BEFORE ME THIS DAY AND ACKNOWLEDGED THE DUE EXECUTION OF THE FOREGOING INSTRUMENT.

WITNESS MY HAND AND NOTARIAL SEAL, THIS THE _____ DAY OF _____, 2020

NOTARY PUBLIC
MY COMMISSION EXPIRES: _____

REFERENCES:
PLAT BOOK 24 PAGE 10
PLAT BOOK 23 PAGE 45
PLAT BOOK 144 PAGE 168
DEED BOOK 9735 PAGE 739

LOT 29 RAYCONDA SEC. II
PB 24 PG 10
9496-34-1732
RONALD EDWARD McCLOSKEY
& CONNIE NANCE McCLOSKEY
DB 9857 PG 516
ESTATE 15-E-1659

9496-35-1052
RAYCONDA LAKES INC
DB 2187 PG 513

9496-34-6953
MARK W. PIKE
DB 10733 PG 68
9496-34-7802
MARK W. PIKE
DB 10733 PG 68

9496-34-5649
RAYCONDA LAKES INC
DB 4102 PG 785

9496-34-7504
DENNIS W. MAURELIS
DB 2046 PG 177

9496-35-1052
RAYCONDA LAKES INC
DB 2187 PG 513

9496-34-3409
DANIEL RYAN O'DONNELL
& STEPHANIE J. MEISSNER
DB 10527 PG 352

SIPLE AVENUE

PINEWOOD TERRACE

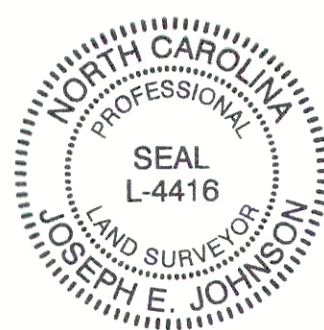
RIGHT-OF-WAY DEDICATION AREA
15357.96 Sq. Feet
0.35 Acres

EPK AT INTERSECTION
OF SIPLE AVENUE AND
NORTH SIDE OF
GALAX DRIVE

NORTH CAROLINA
CUMBERLAND COUNTY

I, JOSEPH E. JOHNSON, CERTIFY THAT THIS SURVEY IS OF ANOTHER CATEGORY, SUCH AS THE RECOMBINATION OF EXISTING PARCELS, A COURT-ORDERED SURVEY, OR OTHER EXCEPTION TO THE DEFINITION OF SUBDIVISION; I ALSO CERTIFY THAT THIS MAP WAS DRAWN BY ME FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION, DEED AND DESCRIPTION RECORDED IN DEED BOOK 9735 PAGE 739, PLAT BOOK _____ PAGE _____. THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS BROKEN LINES AND DRAWN FROM INFORMATION FOUND IN BOOKS REFERENCED, THAT THE RATIO OF PRECISION AS CALCULATED IS 1:10000+, THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED. WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER AND SEAL THIS 22 DAY OF SEPTEMBER, A.D., 2020.

Joseph E. Johnson
PROFESSIONAL LAND SURVEYOR
LICENSE NO. L-4416

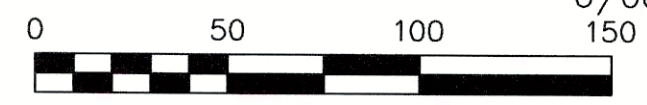


- NOTES:
1) BEARINGS BASED ON PLAT BOOK 24 PAGE 10
2) ALL DISTANCES ARE HORIZONTAL GROUND
3) AREAS BY COORDINATES
4) SUBJECT TO ANY EASEMENT OF RECORD

CITY OF
FAYETTEVILLE
ENGINEERING DIVISION
PUBLIC SERVICES DEPT.
433 HAY STREET, FAYETTEVILLE, NC 28301, (910)433-1656

RIGHT-OF-WAY DEDICATION PLAT

RIGHT-OF-WAY DEDICATION PLAT
FOR A PORTION OF SIPLE AVENUE
71st TOWNSHIP CUMBERLAND COUNTY
FAYETTEVILLE NORTH CAROLINA
SCALE 1"=50' DATE SURVEYED 5/28/20
6/08/20



DRAWN BY: J.E. JOHNSON

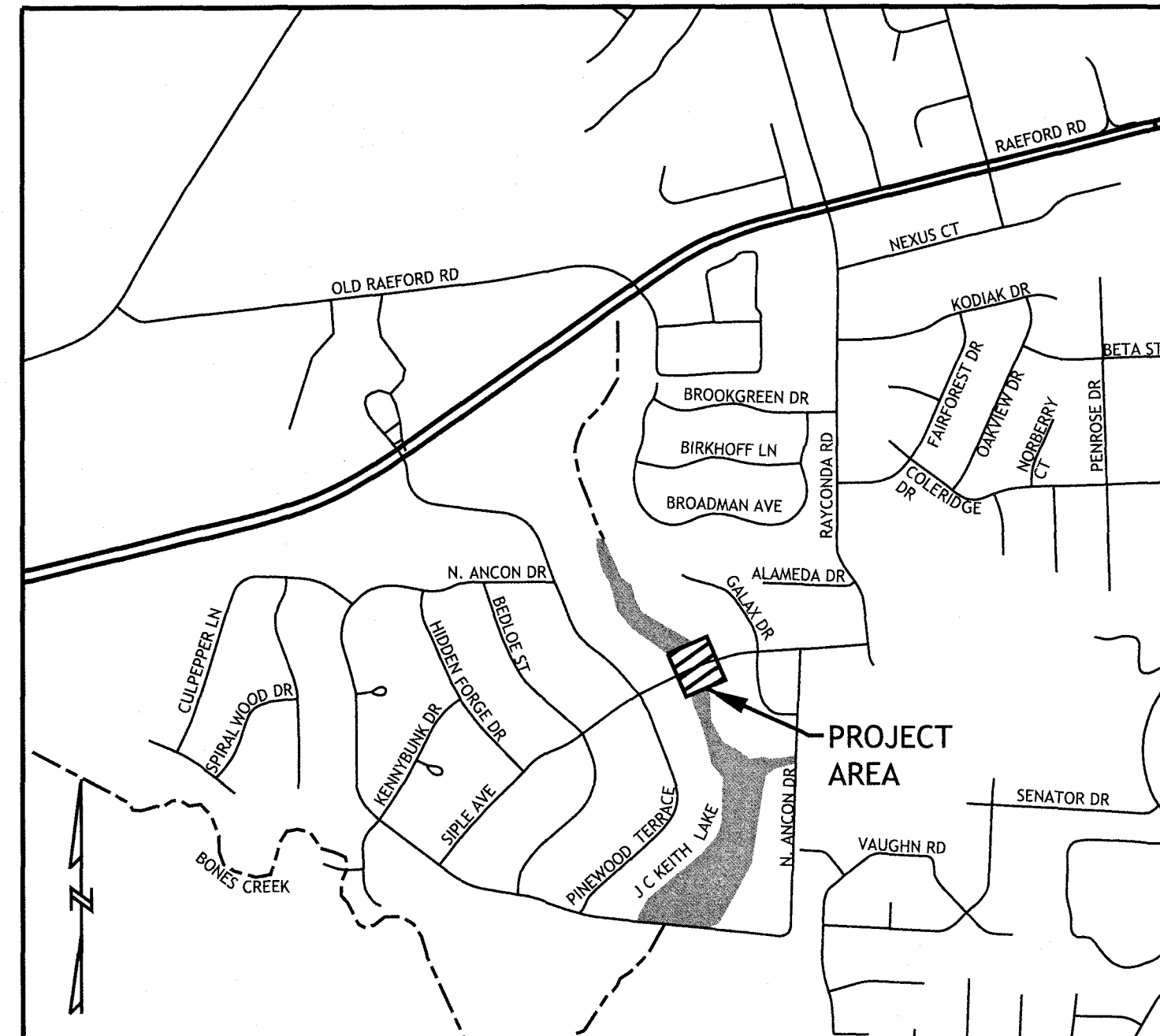
City of Fayetteville North Carolina

CITY OF FAYETTEVILLE - EWP

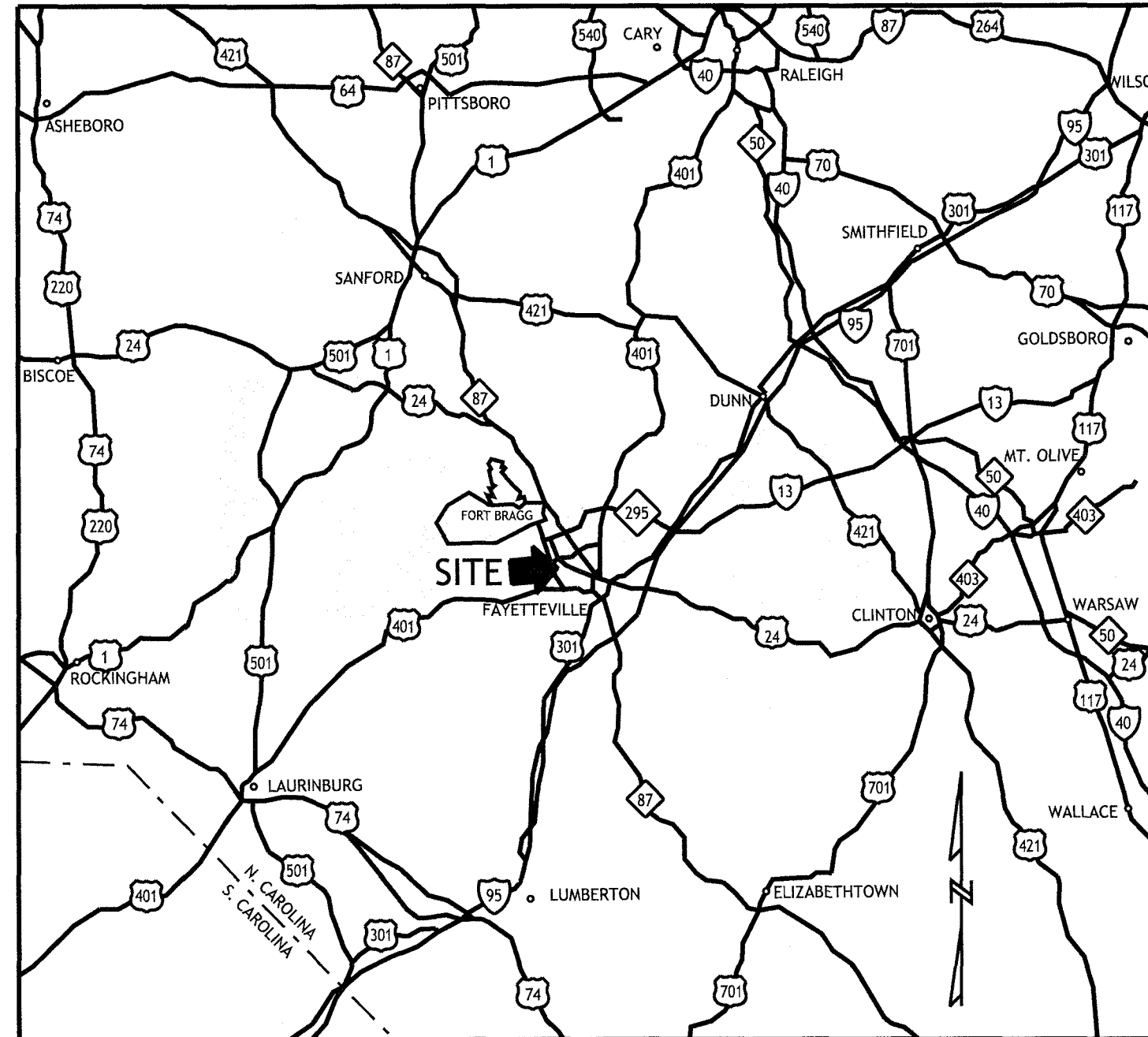
EWP DSR PROJECT #5038-500 SIPLE AVENUE

City of Fayetteville
North Carolina

GRADIENT
LAND-WATER INNOVATION
230 DONALDSON STREET, SUITE 500A
FAYETTEVILLE, NC
PHONE: 910.824.7731
NC FIRM LICENSE NO. P-1875



PROJECT LOCATION MAP



VICINITY MAP

PLAN INDEX

SHEET	DESCRIPTION
G-01	COVER SHEET
G-02	GENERAL NOTES & LEGEND
VX-01	EXISTING CONDITIONS
CD-01	DEMOLITION PLAN
SPL-01	PUMP AROUND & DEWATERING PLAN
CG-01	GRADING, DRAINAGE, & EROSION CONTROL PLAN
PP-01	PLAN & PROFILE
TC-01	TRAFFIC CONTROL NOTES
TC-02	TRAFFIC CONTROL PLAN
DT-01 THRU DT-02	DETAILS

ISSUED PROJECT PLAN SETS

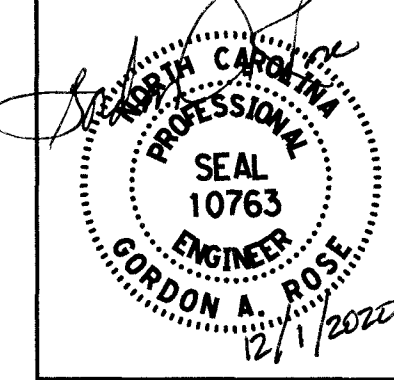
DATE	STATUS	REMARKS
10/5/2020	50% PRELIMINARY DESIGN	NOT RELEASED FOR CONSTRUCTION
10/20/2020	100% DESIGN	FOR REGULATORY REVIEW
10/23/2020	100% DESIGN	NRCS REVIEW
12/01/2020	100% DESIGN	ISSUED FOR CONSTRUCTION

GORDON A. ROSE
Printed Name

Project Engineer

Professional Certification: I hereby certify that these documents were prepared and approved by me and that I am a duly licensed professional engineer under the laws of the State of North Carolina.

REVISIONS:



DATE: DEC. 01, 2020
PROJECT NO.: FAY1012
SHEET SIZE: ANSI D - 22x34

STATUS:
100% DESIGN -
ISSUED FOR
CONSTRUCTION

CITY OF FAYETTEVILLE
433 HAY STREET
FAYETTEVILLE, NC 28301
PHONE: (910) 433-1656
FAX: (910) 433-1058
CONTACT: BYRON REEVES

100% DESIGN - ISSUED FOR CONSTRUCTION
DECEMBER 01, 2020

TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, JUDGMENT,
AND BELIEF, THESE PLANS MEET APPLICABLE NRCS STANDARDS.

GORDON A. ROSE
Printed Name

Gordon A. Rose
Signature

CITY OF FAYETTEVILLE - EWP
EWP DSR PROJECT #5038-500
SIPLE AVENUE
COVER SHEET

G-01

PROJECT DESCRIPTION

THIS PROJECT IS LOCATED ON SIPLE AVENUE AT THE CROSSING OF J C KEITH LAKE IN FAYETTEVILLE, NC. THE PROJECT INVOLVES THE REMOVAL OF APPROXIMATELY 4 JOINTS OF EXISTING 48-INCH DIAMETER RCP AND THE INSTALLATION OF A DROP MANHOLE, APPROXIMATELY 24 LF OF NEW 54-INCH DIAMETER RCP, AND HEADWALL AT BOTH UPSTREAM AND DOWNSTREAM ENDS OF THE CONNECTING PIPE. RIPRAP WILL BE ADDED TO BOTH SIDES FOR STABILIZATION.

APPROXIMATELY 0.84 ACRE OF LAND WILL BE DISTURBED FOR THE CONSTRUCTION OF THE STORM PIPE AND HEADWALLS AS WELL AS ACCESS WITHIN THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS. ALL DISTURBED AREAS WILL BE SODDED OR OTHERWISE STABILIZED AS INDICATED ON THE DRAWINGS.

TEMPORARY SEDIMENT FENCE WILL BE PLACED WITHIN THE LIMITS OF CONSTRUCTION AT STRATEGIC LOCATIONS TO INHIBIT THE FLOW OF STORMWATER RUNOFF ONTO SITE AND PROHIBIT THE FLOW OF SEDIMENT OFF SITE. TEMPORARY TREE PROTECTION WILL BE PLACED AS SHOWN TO PROTECT THE LARGER TREES FROM DAMAGE.

SOILS

THE PREDOMINANT SOIL TYPE ON THIS SITE IS WATER WITH THE BALANCE BEING BLANEY LOAMY SAND, 8 TO 15 PERCENT SLOPE (24.6%) AND VAUCLUSE LOAMY SAND, 8 TO 15 PERCENT SLOPES (26.9%). THE BLANEY LOAMY SAND IS DESCRIBED AS "WELL DRAINED" (HYDROLOGIC SOIL GROUP C) WITH THE DEPTH TO WATER TABLE BEING MORE THAN 80 INCHES. THE VAUCLUSE LOAMY SAND IS DESCRIBED AS "WELL DRAINED" (HYDROLOGIC SOIL GROUP C) WITH THE DEPTH TO WATER TABLE BEING MORE THAN 80 INCHES. THE MAJORITY OF CONSTRUCTION WILL BE ON THE PORTION OF THE SITE CONTAINING THE WATER. THE BANKS OF THE CONSTRUCTION AREAS WILL BE BOTH IN BLANEY LOAMY SAND AND VAUCLUSE LOAMY SAND.

PLANNED SEDIMENTATION AND EROSION CONTROL PRACTICES

1. SEDIMENT FENCE : DESCRIPTION, CONSTRUCTION SPECIFICATIONS, AND MAINTENANCE AS PER DETAIL(S).
2. TEMPORARY GRAVEL CONSTRUCTION ENTRANCE : DESCRIPTION, CONSTRUCTION SPECIFICATIONS, AND MAINTENANCE AS PER DETAIL(S).
3. OUTLET PROTECTION : DESCRIPTION, CONSTRUCTION SPECIFICATIONS, AND MAINTENANCE AS PER DETAIL(S).
4. TEMPORARY ROLLED EROSION CONTROL PRODUCT (RECP) LINERS : DESCRIPTION, CONSTRUCTION SPECIFICATIONS, AND MAINTENANCE AS PER DETAIL(S).
5. RIPRAP AND PAVED CHANNELS (RIPRAP LINED CHANNEL) : DESCRIPTION, CONSTRUCTION SPECIFICATIONS, AND MAINTENANCE AS PER DETAIL(S).
6. FERTILIZING, SEEDING AND MULCHING : TO BE INSTALLED AS PER TEMPORARY AND PERMANENT SEEDING SPECIFICATIONS. SEE SEEDING SPECIFICATIONS ON THE CONTRACT DOCUMENTS. REFER ALSO TO SECTIONS 6.10 AND 6.11 OF THE NCDENR EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL. MAINTENANCE : RESEED AND MULCH AREAS WHERE SEEDING EMERGENCE IS POOR, OR WHERE EROSION OCCURS, AS SOON AS POSSIBLE. DO NOT MOW. PROTECT FROM TRAFFIC AS MUCH AS POSSIBLE.

EXISTING CONDITIONS SURVEY

SITE COORDINATE CONTROL AND EXISTING CONDITIONS SHOWN FROM A TOPOGRAPHIC SURVEY OF THE PROPERTY PERFORMED BY JOYNER KEENEY, INC. IN SEPTEMBER 2020.

MAINTENANCE PLAN

1. ALL EROSION CONTROL PRACTICES WILL BE CHECKED DAILY FOR STABILITY AND OPERATION AND FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
2. SEDIMENT WILL BE REMOVED FROM SEDIMENT CAPTURING MEASURES WHEN IT BECOMES ABOUT 0.5 FT DEEP. SEDIMENT CAPTURING MEASURES WILL BE REPAIRED AS NECESSARY TO MAINTAIN ADEQUATE BARRIERS AND SEDIMENT STORAGE.
3. ALL UTILITY TRENCHES ARE TO BE PROTECTED FROM WATER INFILTRATION.
4. SPOIL PILES ARE TO BE CONTAINED AT ALL TIMES.
5. ALL SEEDED AREAS WILL BE FERTILIZED, RESEED AS NECESSARY, AND MULCHED ACCORDING TO THE SPECIFICATIONS TO MAINTAIN A VIGOROUS, DENSE VEGETATION COVER. IF SEEDING FAILURE OCCURS, THOSE AREAS SHALL BE RESEED WITH ANNUAL VEGETATION, SUITABLE FOR THE TIME OF YEAR FOR TEMPORARY STABILIZATION AND PREPARED FOR PERMANENT SEEDING. SEEDING AND MULCHING WILL BE IN ACCORDANCE WITH THE ATTACHED SPECIFICATION.

EROSION CONTROL REGULATION

1. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL CONFORM TO THE REQUIREMENTS OF THE NORTH CAROLINA ACT OF 1973 AND LOCAL EROSION AND SEDIMENT CONTROL REQUIREMENTS.
2. TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE PROVIDED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. TEMPORARY SEDIMENT CONTROL DEVICES MUST BE INSTALLED TO THE EXTENT POSSIBLE PRIOR TO INITIATION OF GRADING AND EXCAVATION. THE DEVICES MUST BE MAINTAINED AT A MINIMUM OF 50% OF THE ORIGINAL SEDIMENT STORAGE CAPACITY AND MAY NOT BE REMOVED UNTIL THE AREAS THEY SERVE HAVE BEEN STABILIZED.
3. PURSUANT TO G.S. 113A-57(2), THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, WITHIN 21 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.
4. PURSUANT TO G.S. 113A-57(3), PROVISIONS FOR PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION MUST BE ACCOMPLISHED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
5. ALTHOUGH THE GENERAL STATUTES DESCRIBED IN NOTES 3. AND 4. STILL APPLY, EFFECTIVE AUGUST 3, 2011, THE NC DIVISION OF WATER QUALITY NPDES GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES (NGC010000) REQUIRES THAT GROUND STABILIZATION OF DITCHES, PERIMETER AREAS, AND SLOPES 3H:1V OR STEEPER SHALL BE ACHIEVED WITHIN 7 DAYS OF TEMPORARY OR PERMANENT CESSATION OF LAND DISTURBING ACTIVITIES. GROUND STABILIZATION OF ALL OTHER AREAS SHALL BE ACHIEVED WITHIN 14 DAYS OF TEMPORARY OR PERMANENT CESSATION OF LAND DISTURBING ACTIVITIES.

CONSTRUCTION SEQUENCE

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SEVEN (7) DAYS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY. INSTALL APPLICABLE EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO THE ONSET OF ANY LAND DISTURBING ACTIVITY.
2. INSTALL TEMPORARY CONSTRUCTION ENTRANCE(S), SILT FENCE(S), AND OTHER MEASURES AS SHOWN ON DRAWINGS OR AS REQUIRED. CLEAR ONLY AREAS REQUIRED TO INSTALL EROSION CONTROL DEVICES.
3. BEGIN CLEARING, GRUBBING, AND EARTHWORK AS REQUIRED FOR PIPE CONSTRUCTION.
4. INSTALL PUMP AROUND MEASURES AS NECESSARY.
5. REMOVE DAMAGED SECTIONS OF PIPE AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.
6. INSTALL NEW PIPE AND HEADWALL AS SHOWN.
7. INSTALL RIP RAP AROUND HEADWALL AND SIDE SLOPES.
8. MAINTAIN ALL EROSION CONTROL MEASURES AS NEEDED.
9. PROVIDE TEMPORARY AND/OR PERMANENT SEEDING (AND MULCH, AS REQD.) AFTER CLEARING AND GRUBBING.
10. INSTALL SOD IN ALL APPROPRIATE AREAS.
11. CONTRACTOR SHALL INSPECT ALL DEVICES DAILY AND AFTER EVERY RAIN AND SHALL MAINTAIN THE DEVICES ACCORDING TO THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
12. AFTER DISTURBED AREAS ARE STABILIZED THE CONTRACTOR SHALL REMOVE THE TEMPORARY DEVICES AND PROPERLY DISPOSE OF THE TRAPPED SEDIMENT. CONTRACTOR SHALL INSTALL FINAL DIVERSIONS WITH APPROPRIATE LININGS AS SPECIFIED ON PLANS. CONTRACTOR SHALL STABILIZE THE AREAS DISTURBED DURING THE REMOVAL OPERATION BY PLACING PERMANENT VEGETATION AND/OR RECP OR RIPRAP LININGS IN ALL DISTURBED AREAS TO ESTABLISH FINAL (POST-CONSTRUCTION) STABILIZATION.
13. CONTRACTOR SHALL INSPECT ALL DEVICES DAILY AND AFTER EVERY RAIN AND SHALL MAINTAIN THE DEVICES ACCORDING TO THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL. THE FINANCIALLY RESPONSIBLE PARTY OF THE ISSUED EROSION CONTROL PERMIT SHALL PERFORM OR DELEGATE AN AGENT TO PERFORM AN INSPECTION OF THE AREA COVERED BY THE PLAN AFTER EACH PHASE OF THE PLAN HAS BEEN COMPLETED AND AFTER ESTABLISHMENT OF TEMPORARY GROUND COVER IN ACCORDANCE WITH G.S. 113A-57(2). THE PERSON WHO PERFORMS THE INSPECTION SHALL MAINTAIN AND MAKE AVAILABLE A RECORD OF THE INSPECTION AT THE SITE OF THE LAND-DISTURBING ACTIVITY. THE RECORD SHALL SET OUT ANY SIGNIFICANT DEVIATION FROM THE APPROVED EROSION CONTROL PLAN, IDENTIFY ANY MEASURES THAT MAY BE REQUIRED TO CORRECT THE DEVIATION, AND DOCUMENT THE COMPLETION OF THOSE MEASURES. THE RECORD SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER HAS BEEN ESTABLISHED AS REQUIRED BY THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. THE INSPECTIONS REQUIRED BY THIS SUBSECTION SHALL BE IN ADDITION TO INSPECTIONS REQUIRED BY G.S. 113A-61.1.

SOD & SEEDING SCHEDULE:

REVEGETATION OF DISTURBED AREAS WILL BE CENTIPEDE SOD, AND AFTER ESTABLISHMENT OF SOD, TROUBLE AREAS REQUIRING REPAIR SHALL BE REPAIRED WITH NEW SOD AS REQUIRED, AND COMPLEMENTED BY OVERSEEDING IN ACCORDANCE WITH SEEDING SPECIFICATIONS BY CITY OF FAYETTEVILLE. TEMPORARY SEEDING, AS REQUIRED, SHALL BE IN ACCORDANCE WITH CITY OF FAYETTEVILLE DETAIL EC-8; SEE DETAIL SHEET DT-01.

SEEDBED PREPARATION

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
2. RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPER PHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW*).
5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
6. THE LIME AND FERTILIZER WILL BE WORKED INTO THE TOP 2 TO 4 INCHES OF SOIL PRIOR TO SEEDING.
7. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
8. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
9. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
10. CONSULT STATE INSPECTOR ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

*APPLY: AGRICULTURAL LIMESTONE - 70 Pounds/1000 Square Feet or 1.5 Tons/ACRE
 FERTILIZER - 850 lbs/ACRE or 20 lbs/1000 Square Feet -10-20-20
 SUPER PHOSPHATE - 500 lbs/ACRE - 20% ANALYSIS
 MULCH - 4000 lbs/ACRE - SMALL GRAIN STRAW
 ANCHOR - ASPHALT EMULSION AS REQUIRED.

GENERAL NOTES

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF FAYETTEVILLE, NC AND THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UNLESS OTHERWISE NOTED.
2. UNSUITABLE MATERIALS SHALL NOT BE USED AS FILL AND SHALL BE DISPOSED OF OUTSIDE THE PROJECT LIMITS AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR PERMITTING AND FEES FOR DISPOSAL.

DRAINAGE

DEWATERING: THE CONTRACTOR SHALL AT ALL TIMES PROVIDE AND MAINTAIN AMPLE MEANS AND EQUIPMENT WITH WHICH TO REMOVE AND PROPERLY DISPOSE OF ANY AND ALL WATER ENTERING THE EXCAVATION OR OTHER PARTS OF THE WORK AND KEEP ALL EXCAVATIONS DRY UNTIL SUCH TIME AS PIPE LAYING AND GRADING IS COMPLETED. NO WATER SHALL BE ALLOWED TO RISE AROUND THE PIPE IN UNBACKFILLED TRENCHES NOR SHALL IT BE ALLOWED TO RISE OVER MASONRY UNTIL THE CONCRETE OR MORTAR HAS SET (MINIMUM 24 HOURS). ALL WATER PUMPED OR DRAINED FROM THE WORK SHALL BE DISPOSED OF IN SUCH A MANNER AS TO PREVENT SILTATION AND EROSION TO ADJACENT PROPERTY OR OTHER CONSTRUCTION.

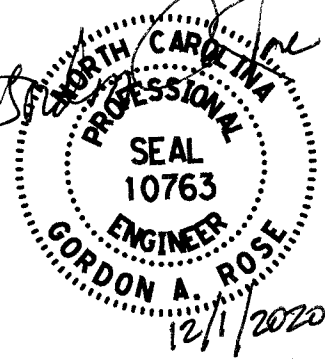
UTILITIES

1. ALL PIPE BEDDING SHALL BE CLASS "C" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. ALL STORM DRAINAGE PIPES SHALL BE RCP CLASS III UNLESS OTHERWISE NOTED ON THE PLANS.
3. THE ENGINEER AND THE CONTRACTOR SHALL INSPECT ALL EXISTING PIPES USED IN THE FINAL DRAINAGE SYSTEM AND AGREE ON THE CONDITION OF THE PIPES PRIOR TO CONSTRUCTION. IF DAMAGE OCCURS TO THESE PIPES DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF THE PIPE(S).
4. THE CONTRACTOR SHALL CONTACT THE LOCATOR AT 811 OR 1-800-632-4949 BEFORE COMMENCING ANY WORK. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES WHETHER INDICATED ON THE DRAWINGS OR NOT. THE CONTRACTOR WILL ASSURE THE PRESENCE ONSITE OF A REPRESENTATIVE OF THE GAS COMPANY WHEN WORKING IN THE VICINITY OF ANY GAS MAINS.

SITE LEGEND		UTILITIES LEGEND		EROSION CONTROL LEGEND	
EXISTING	PROPOSED	EXISTING	PROPOSED	TEMPORARY	PERMANENT
CURB & GUTTER		COMMUNICATIONS		LIMITS OF CONSTRUCTION	
EXISTING CURB & GUTTER	PROPOSED CURB & GUTTER	OHC OVERHEAD CABLE LINE		LOC	
CATCHING CURB (& GUTTER)		UGC UNDERGROUND CABLE LINE		SF	
		T TELEPHONE LINE		TDD	
		FO FIBER OPTIC/TELEPHONE LINE			
PAVEMENTS		NATURAL GAS		TEMPORARY CONSTRUCTION ENTRANCE	
PAVEMENT SAWCUT LINE		G NATURAL GAS MAIN			
ASPHALT PAVEMENT		G NATURAL GAS METER			
NEW CONCRETE PAVEMENT		POWER/ELECTRIC		INLET PROTECTION	
		OHE OVERHEAD ELECTRIC LINE			
		UGE UNDERGROUND ELECTRIC LINE			
		UNKE UNKNOWN ELECTIC LINE			
		PP POWER POLE			
		☆ AREA LIGHT/LUMINAIRE			
SITE IMPROVEMENTS		SANITARY SEWER		TABLE OF STANDARD ABBREVIATIONS	
BUILDING/STRUCTURE		SS PIPE	SS	APPX. APPROXIMATELY	P.G. PAGE
SIGNS		Ⓢ MANHOLE	Ⓢ	BLDG. BUILDING	P.P POWER POLE
		CO CLEANOUT	CO	CB CATCH BASIN	R, RAD. RADIUS
		STORM DRAINAGE		C&G CURB & GUTTER	RCP REINFORCED CONCRETE PIPE
		SD STORM PIPE	SD	CONC CONCRETE	REQD. REQUIRED
		CB CATCH BASIN, DROP INLET, OPEN-THROAT INLET		DB DEED BOOK	R/W RIGHT-OF-WAY
		Ⓢ STORM MANHOLE	Ⓢ	DIP DUCTILE IRON PIPE	SD STORM DRAIN
		Ⓢ STORM OUTLET/ENDWALL	Ⓢ	E EAST, EASTING	SF SILT FENCE
		WATER		EA. EACH	SQ. FT., SF SQUARE FEET
		W WATER MAIN	W	EL., ELEV. ELEVATION	SS SANITARY SEWER
		Ⓢ FIRE HYDRANT ASSM.	Ⓢ	ELEC. ELECTRIC	STA. STATION
		W VALVE	W	EX., EXIST. EXISTING	STD. STANDARD
		W WATER MANHOLE	W	FES FLARED END SECTION	SW SIDEWALK
		W WATER METER	W	FF FINISHED FLOOR ELEVATION	TBC TOP BACK OF CURB
				FT. FOOT, FEET	TEL. TELEPHONE
				HC HANDICAP	TRANS. TRANSITION
				HYD. HYDRANT	TYP. TYPICAL
				INV. INVERT	W/ WITH
				L.F., LF LINEAR FEET	WV WATER VALVE
				MAX. MAXIMUM	
				MH MANHOLE	
				MIN. MINIMUM	
				MISC. MISCELLANEOUS	
				N NORTH, NORTHING	
				N/A NOT APPLICABLE	
				NO. NUMBER	



REVISIONS:



DATE: DEC. 01, 2020
 PROJECT NO.: FAY1042
 SHEET SIZE: ANSI D - 22x34
 STATUS: 100% DESIGN - ISSUED FOR CONSTRUCTION

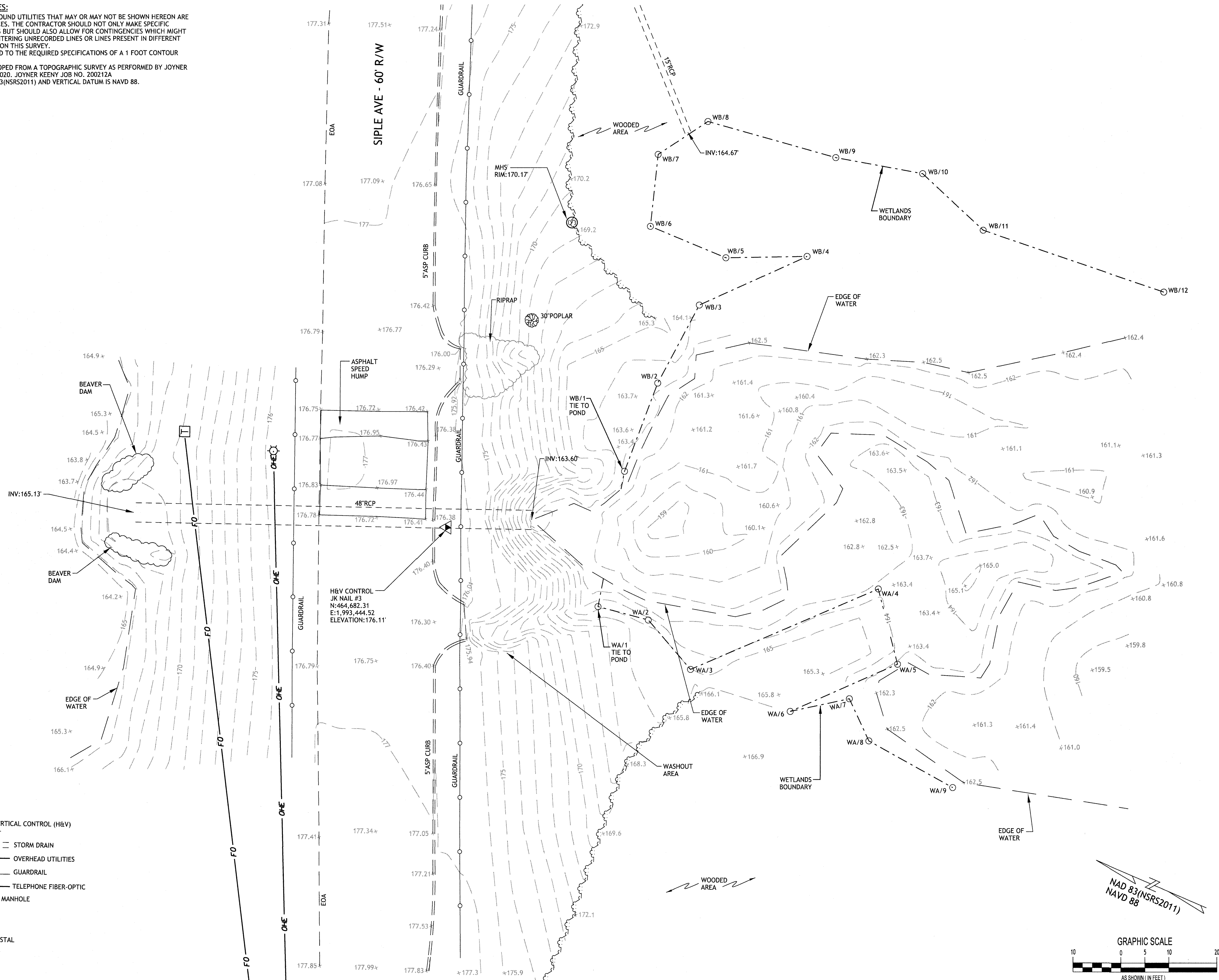
CITY OF FAYETTEVILLE - EWP
 EWP DSR PROJECT #5038-500
 SIPLE AVENUE
 GENERAL NOTES & LEGEND

G-02

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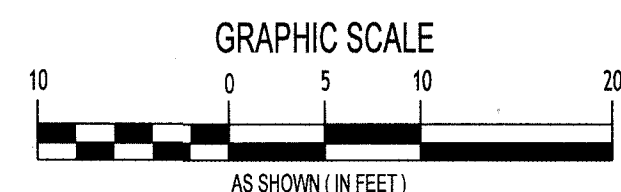
EXISTING CONDITIONS NOTES:

1. LOCATIONS OF ALL UNDERGROUND UTILITIES THAT MAY OR MAY NOT BE SHOWN HEREON ARE FROM VARIOUS OTHER SOURCES. THE CONTRACTOR SHOULD NOT ONLY MAKE SPECIFIC SUBSURFACE INVESTIGATIONS BUT SHOULD ALSO ALLOW FOR CONTINGENCIES WHICH MIGHT ARISE BY REASON OF ENCOUNTERING UNRECORDED LINES OR LINES PRESENT IN DIFFERENT LOCATIONS THAN INDICATED ON THIS SURVEY.
2. THIS SURVEY WAS CONDUCTED TO THE REQUIRED SPECIFICATIONS OF A 1 FOOT CONTOUR INTERVAL.
3. EXISTING CONDITIONS DEVELOPED FROM A TOPOGRAPHIC SURVEY AS PERFORMED BY JOYNER KEENEY, PLLC IN SEPTEMBER 2020. JOYNER KEENEY JOB NO. 200212A
4. HORIZONTAL DATUM IS NAD 83(NSRS2011) AND VERTICAL DATUM IS NAVD 88.



LEGEND:

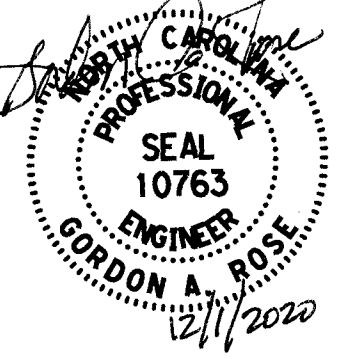
- HORIZONTAL & VERTICAL CONTROL (H&V)
- EOA-EDGE OF ASPHALT
- STORM DRAIN
- OHE OVERHEAD UTILITIES
- GUARDRAIL
- TELEPHONE FIBER-OPTIC
- SANITARY SEWER MANHOLE
- POWER POLE
- AREA LIGHT
- TELEPHONE PEDESTAL
- DECIDUOUS TREE
- x 186.9 SPOT ELEVATION



NAD 83(NSRS2011)
NAVD 88

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REVISIONS:



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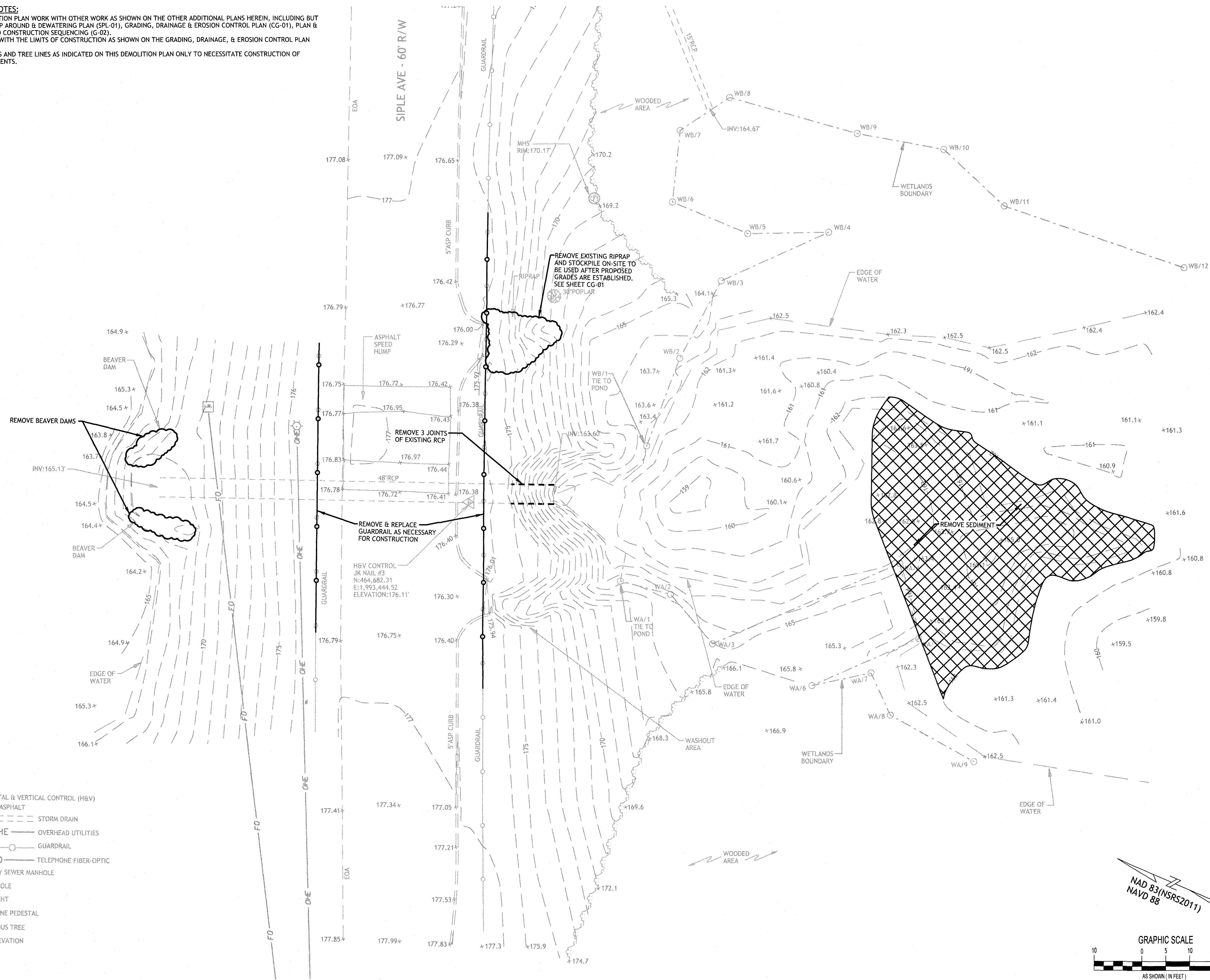
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ISSUED FOR
CONSTRUCTION

CITY OF FAYETTEVILLE - EWP
EWP DSR PROJECT #5038-500
SIPLE AVENUE
EXISTING CONDITIONS

VX-01

DEMOLITION PLAN NOTES:

1. COORDINATE DEMOLITION PLAN WORK WITH OTHER WORK AS SHOWN ON THE OTHER ADDITIONAL PLANS HEREIN, INCLUDING BUT NOT LIMITED TO PUMP AROUND & DEWATERING PLAN (SPL-01), GRADING, DRAINAGE & EROSION CONTROL PLAN (CG-01), PLAN & PROFILE (PP-01), AND CONSTRUCTION SEQUENCING (G-02).
2. WORK SHALL OCCUR WITH THE LIMITS OF CONSTRUCTION AS SHOWN ON THE GRADING, DRAINAGE, & EROSION CONTROL PLAN (CG-01).
3. CLEAR AREA OF TREES AND TREE LINES AS INDICATED ON THIS DEMOLITION PLAN ONLY TO NECESSITATE CONSTRUCTION OF PROPOSED IMPROVEMENTS.



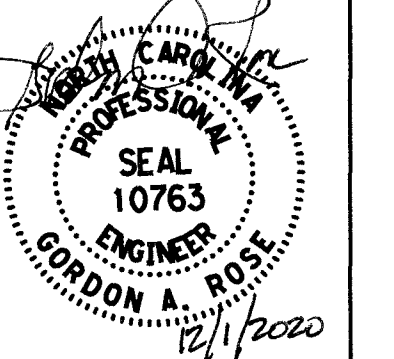
LEGEND:

- ▲ HORIZONTAL & VERTICAL CONTROL (H&V)
- EOA-EDGE OF ASPHALT
- STORM DRAIN
- OHE — OVERHEAD UTILITIES
- GUARDRAIL — GUARDRAIL
- FO — TELEPHONE FIBER-OPTIC
- ⊙ SANITARY SEWER MANHOLE
- PP ○ POWER POLE
- ⊙ AREA LIGHT
- ⊙ TELEPHONE PEDESTAL
- ⊙ DECIDUOUS TREE
- x 186.9 SPOT ELEVATION

City of
Fayetteville
North Carolina

GRADIENT
LAND-WATER-INNOVATION
230 DONALDSON STREET, SUITE 500A
FAYETTEVILLE, NC
PHONE: 910.874.7731
NC FIRM LICENSE NO. P-1875

REVISIONS:



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SHEET SIZE: ANSI D - 22x34

STATUS:
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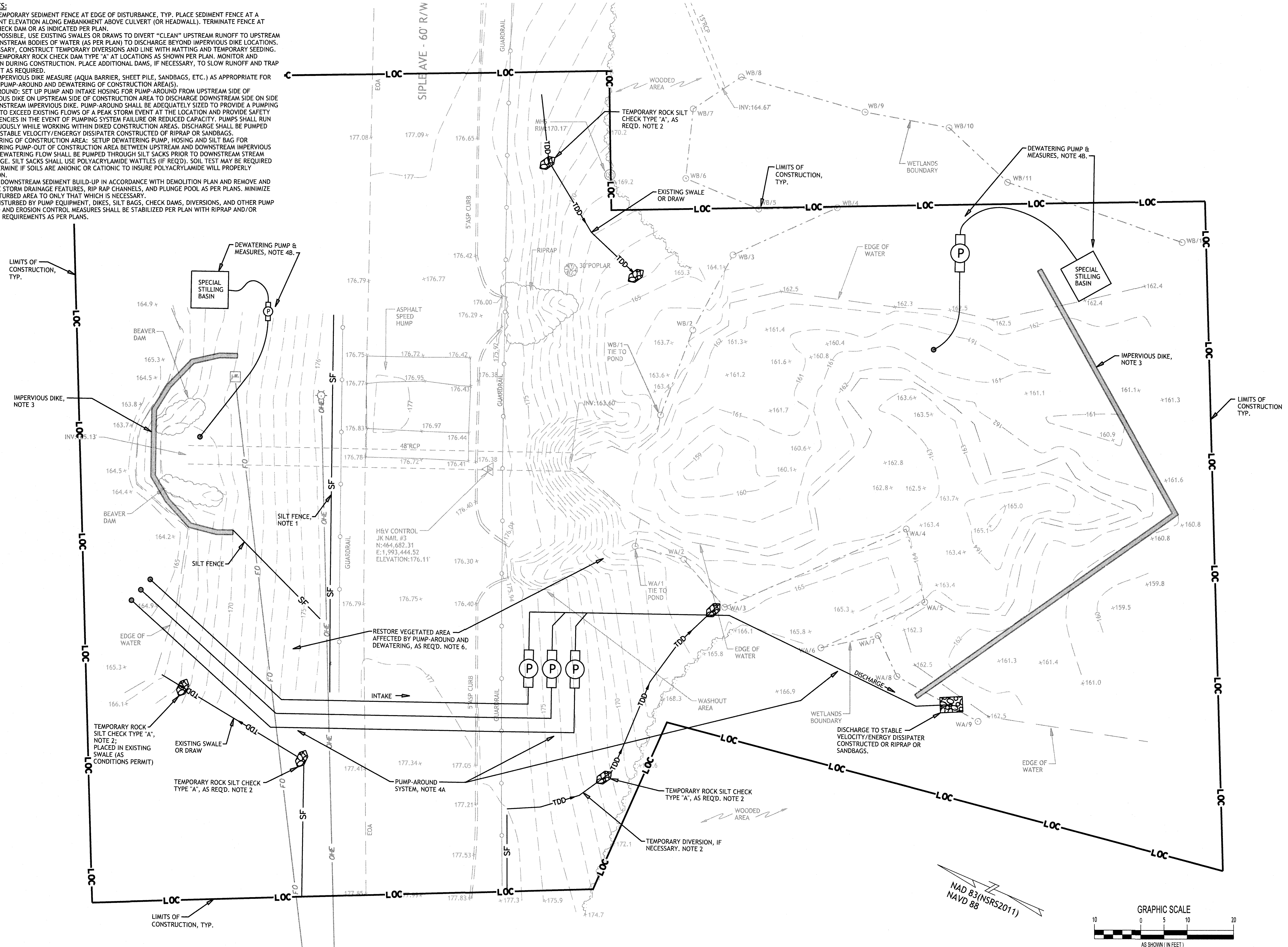
CITY OF FAYETTEVILLE - EWP
EWP DSR PROJECT #5038-500
SIPLE AVENUE
DEMOLITION PLAN

CD-01

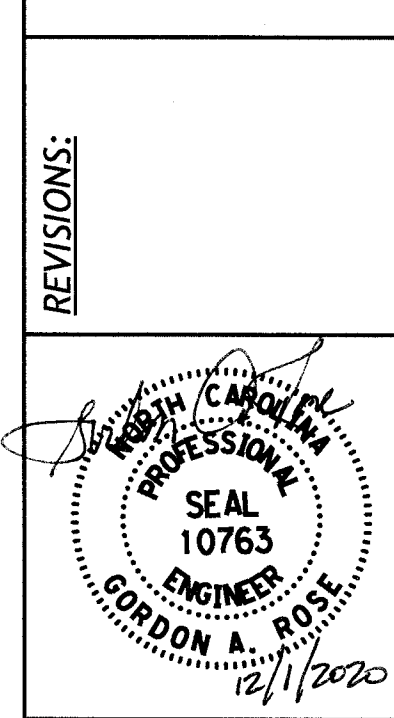
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PLAN NOTES:

1. PLACE TEMPORARY SEDIMENT FENCE AT EDGE OF DISTURBANCE, TYP. PLACE SEDIMENT FENCE AT A CONSTANT ELEVATION ABOVE CULVERT (OR HEADWALL). TERMINATE FENCE AT ROCK CHECK DAM OR AS INDICATED PER PLAN.
2. WHERE POSSIBLE, USE EXISTING SWALES OR DRAWS TO DIVERT "CLEAN" UPSTREAM RUNOFF TO UPSTREAM OR DOWNSTREAM BODIES OF WATER (AS PER PLAN) TO DISCHARGE BEYOND IMPERVIOUS DIKE LOCATIONS. IF NECESSARY, CONSTRUCT TEMPORARY DIVERSIONS AND LINE WITH MATTING AND TEMPORARY SEEDING. PLACE TEMPORARY ROCK CHECK DAM TYPE "A" AT LOCATIONS AS SHOWN PER PLAN. MONITOR AND MAINTAIN DURING CONSTRUCTION. PLACE ADDITIONAL DAMS, IF NECESSARY, TO SLOW RUNOFF AND TRAP SEDIMENT AS REQUIRED.
3. PLACE IMPERVIOUS DIKE MEASURE (AQUA BARRIER, SHEET PILE, SANDBAGS, ETC.) AS APPROPRIATE FOR STREAM PUMP-AROUND AND DEWATERING OF CONSTRUCTION AREA(S).
- 4A. PUMP-AROUND: SET UP PUMP AND INTAKE HOSE FOR PUMP-AROUND FROM UPSTREAM SIDE OF IMPERVIOUS DIKE ON UPSTREAM SIDE OF CONSTRUCTION AREA TO DISCHARGE DOWNSTREAM SIDE ON SIDE OF DOWNSTREAM IMPERVIOUS DIKE. PUMP-AROUND SHALL BE ADEQUATELY SIZED TO PROVIDE A PUMPING SYSTEM TO EXCEED EXISTING FLOWS OF A PEAK STORM EVENT AT THE LOCATION AND PROVIDE SAFETY REDUNDANCIES IN THE EVENT OF PUMPING SYSTEM FAILURE OR REDUCED CAPACITY. PUMPS SHALL RUN CONTINUOUSLY WHILE WORKING WITHIN DIKED CONSTRUCTION AREAS. DISCHARGE SHALL BE PUMPED ONTO A STABLE VELOCITY/ENERGY DISSIPATER CONSTRUCTED OF RIPRAP OR SANDBAGS.
- 4B. DEWATERING OF CONSTRUCTION AREA: SETUP DEWATERING PUMP, HOSE AND SILT BAG FOR DEWATERING PUMP-OUT OF CONSTRUCTION AREA BETWEEN UPSTREAM AND DOWNSTREAM IMPERVIOUS DIKES. DEWATERING FLOW SHALL BE PUMPED THROUGH SILT SACKS PRIOR TO DOWNSTREAM STREAM DISCHARGE. SILT SACKS SHALL USE POLYACRYLAMIDE WATTLES (IF REQ'D). SOIL TEST MAY BE REQUIRED TO DETERMINE IF SOILS ARE ANIONIC OR CATIONIC TO INSURE POLYACRYLAMIDE WILL PROPERLY FUNCTION.
5. REMOVE DOWNSTREAM SEDIMENT BUILD-UP IN ACCORDANCE WITH DEMOLITION PLAN AND REMOVE AND REPLACE STORM DRAINAGE FEATURES, RIP RAP CHANNELS, AND PLUNGE POOL AS PER PLANS. MINIMIZE THE DISTURBED AREA TO ONLY THAT WHICH IS NECESSARY.
6. AREAS DISTURBED BY PUMP EQUIPMENT, DIKES, SILT BAGS, CHECK DAMS, DIVERSIONS, AND OTHER PUMP AROUND AND EROSION CONTROL MEASURES SHALL BE STABILIZED PER PLAN WITH RIPRAP AND/OR SEEDING REQUIREMENTS AS PER PLANS.



GRADIENT
 LAND-WATER INNOVATION
 230 DONALDSON STREET, SUITE 500A
 FAYETTEVILLE, NC
 PHONE: 910.824.7731
 NC FIRM LICENSE NO. P-1875

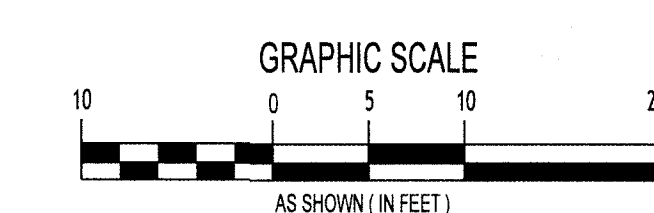


DATE: DEC. 01, 2020
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 SHEET SIZE: ANSI D - 22x34
 STATUS: 100% DESIGN - ISSUED FOR CONSTRUCTION

CITY OF FAYETTEVILLE - EWP
 EWP_DSR PROJECT #5038-500
 SIPLE AVENUE
 PUMP-AROUND & DEWATERING PLAN
 SPL-01

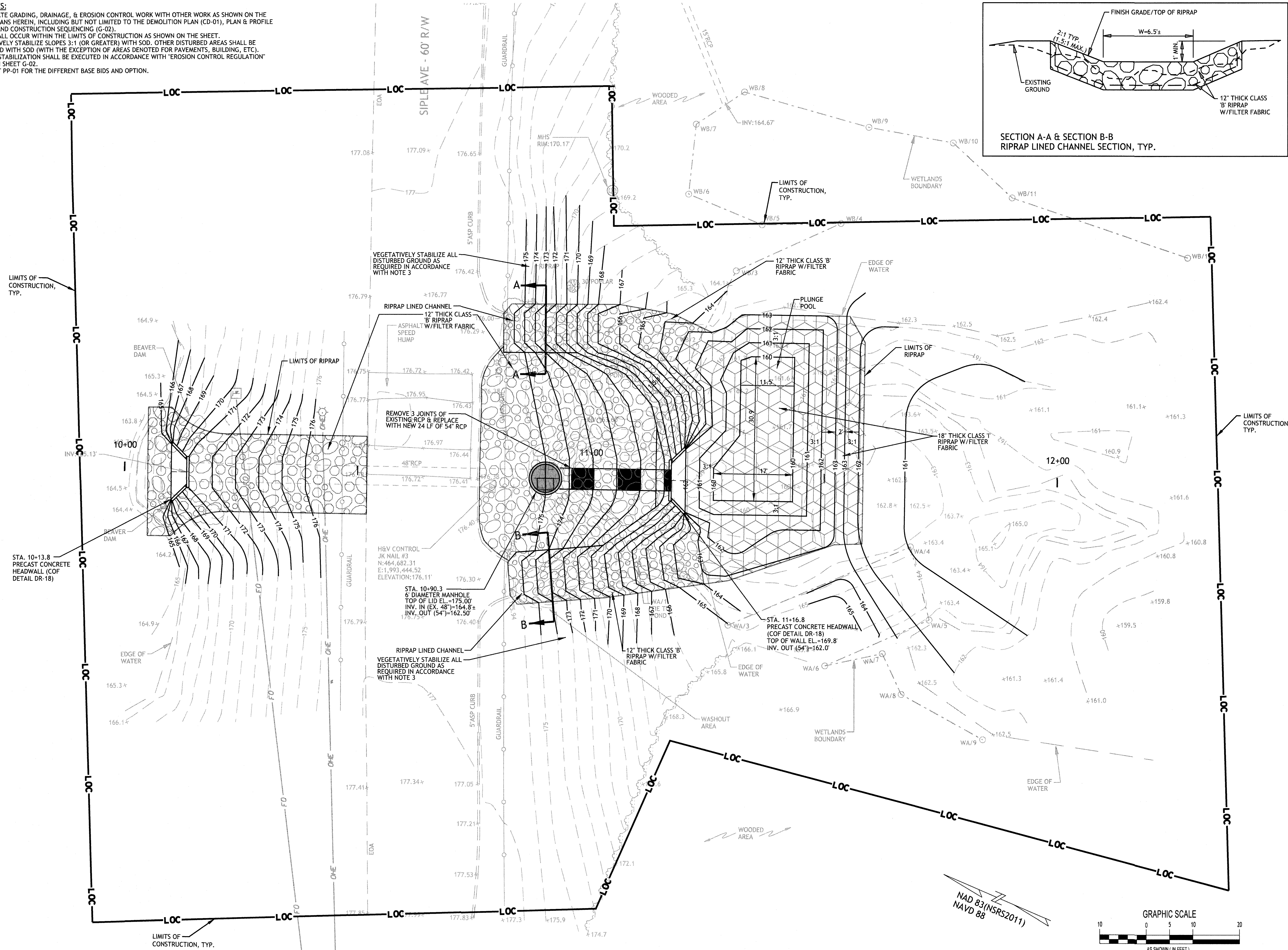
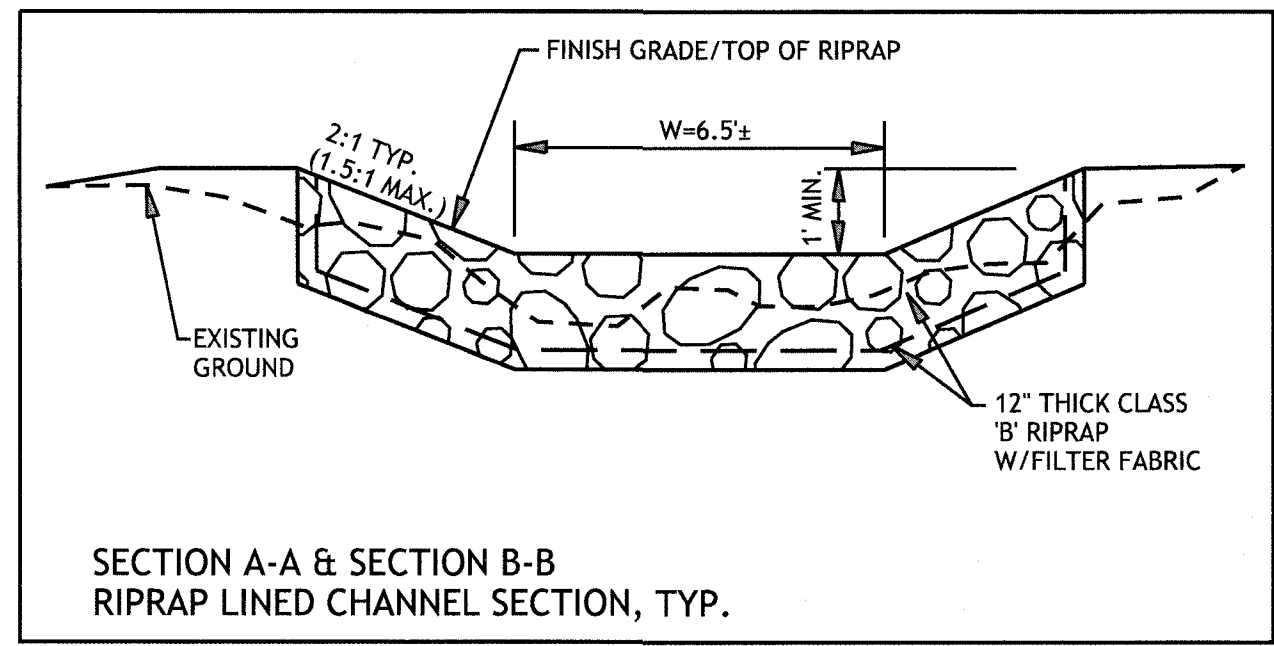
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NAD 83 (NSRS2011)
 NAVD 88



PLAN NOTES:

1. COORDINATE GRADING, DRAINAGE, & EROSION CONTROL WORK WITH OTHER WORK AS SHOWN ON THE OTHER PLANS HEREIN, INCLUDING BUT NOT LIMITED TO THE DEMOLITION PLAN (CD-01), PLAN & PROFILE (PP-01), AND CONSTRUCTION SEQUENCING (G-02).
2. WORK SHALL OCCUR WITHIN THE LIMITS OF CONSTRUCTION AS SHOWN ON THE SHEET.
3. VEGETATIVELY STABILIZE SLOPES 3:1 (OR GREATER) WITH SOD. OTHER DISTURBED AREAS SHALL BE STABILIZED WITH SOD (WITH THE EXCEPTION OF AREAS DENOTED FOR PAVEMENTS, BUILDING, ETC.). GROUND STABILIZATION SHALL BE EXECUTED IN ACCORDANCE WITH "EROSION CONTROL REGULATION" NOTES ON SHEET G-02.
4. SEE SHEET PP-01 FOR THE DIFFERENT BASE BIDS AND OPTION.



REVISIONS:

DATE: DEC. 01, 2020
PROJECT NO.: FAY1012
SHEET SIZE: ANSI D - 22x34

STATUS:
100% DESIGN -
ISSUED FOR
CONSTRUCTION

CITY OF FAYETTEVILLE - EWP
EWP DSR PROJECT #5038-500
SIPLE AVENUE
GRADING, DRAINAGE, & EROSION CONTROL PLAN

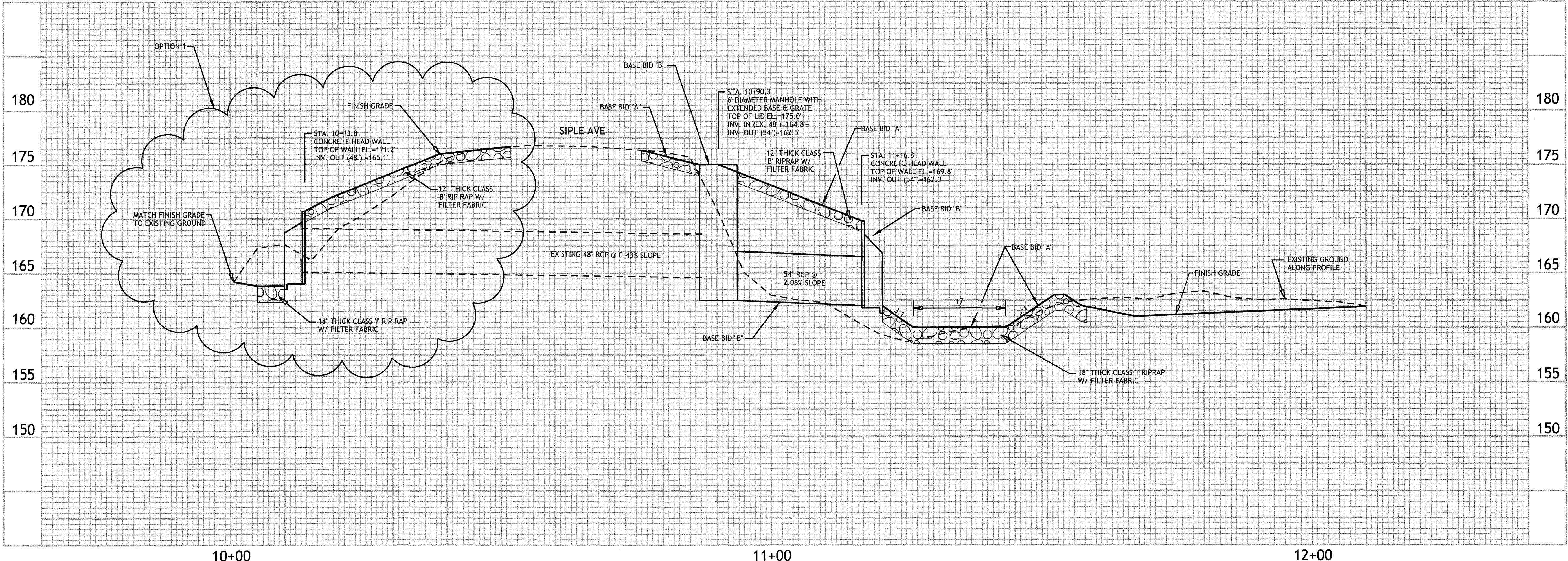
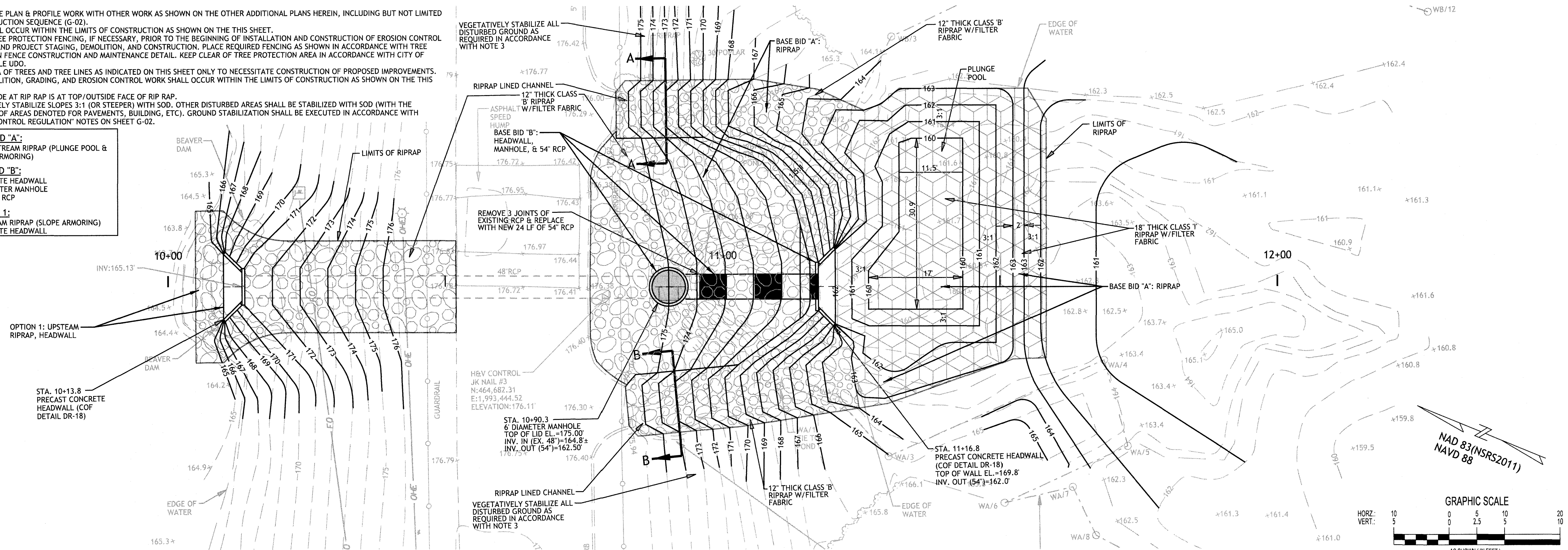
CG-01

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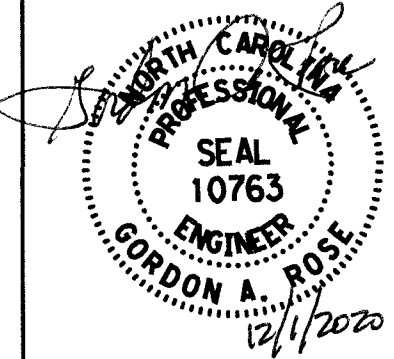
PLAN NOTES:

- COORDINATE PLAN & PROFILE WORK WITH OTHER WORK AS SHOWN ON THE OTHER ADDITIONAL PLANS HEREIN, INCLUDING BUT NOT LIMITED TO CONSTRUCTION SEQUENCE (G-02).
- WORK SHALL OCCUR WITHIN THE LIMITS OF CONSTRUCTION AS SHOWN ON THIS SHEET.
- INSTALL TREE PROTECTION FENCING, IF NECESSARY, PRIOR TO THE BEGINNING OF INSTALLATION AND CONSTRUCTION OF EROSION CONTROL MEASURES AND PROJECT STAGING, DEMOLITION, AND CONSTRUCTION. PLACE REQUIRED FENCING AS SHOWN IN ACCORDANCE WITH TREE PROTECTION FENCE CONSTRUCTION AND MAINTENANCE DETAIL. KEEP CLEAR OF TREE PROTECTION AREA IN ACCORDANCE WITH CITY OF FAYETTEVILLE UDO.
- CLEAR AREA OF TREES AND TREE LINES AS INDICATED ON THIS SHEET ONLY TO NECESSITATE CONSTRUCTION OF PROPOSED IMPROVEMENTS.
- SITE, DEMOLITION, GRADING, AND EROSION CONTROL WORK SHALL OCCUR WITHIN THE LIMITS OF CONSTRUCTION AS SHOWN ON THIS SHEET.
- FINISH GRADE AT RIP RAP IS AT TOP/OUTSIDE FACE OF RIP RAP.
- VEGETATIVELY STABILIZE SLOPES 3:1 (OR STEEPER) WITH SOD. OTHER DISTURBED AREAS SHALL BE STABILIZED WITH SOD (WITH THE EXCEPTION OF AREAS DENOTED FOR PAVEMENTS, BUILDING, ETC.). GROUND STABILIZATION SHALL BE EXECUTED IN ACCORDANCE WITH "EROSION CONTROL REGULATION" NOTES ON SHEET G-02.

- BASE BID "A":**
-DOWNSTREAM RIPRAP (PLUNGE POOL & SLOPE ARMORING)
- BASE BID "B":**
-CONCRETE HEADWALL
-6" DIAMETER MANHOLE
-NEW 54" RCP
- OPTION 1:**
-UPSTREAM RIPRAP (SLOPE ARMORING)
-CONCRETE HEADWALL



REVISIONS:



DATE: DEC. 01, 2020
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CITY OF FAYETTEVILLE - EWP
EWP DSR PROJECT #5038-500
SIPLE AVENUE
PLAN & PROFILE

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PROJECT TRAFFIC CONTROL NOTES

GENERAL

1. THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN PLAN, OR AS DIRECTED BY THE ENGINEER. THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARD DRAWINGS SHALL BE USED FOR TRAFFIC CONTROL STANDARDS.
2. THE CREATION OF EXCESSIVE NOISE ASSOCIATED WITH EARTHMOVING ACTIVITIES, LAND CLEARING ACTIVITIES, STREET PAVING, OR OTHER CONSTRUCTION, OTHER THAN DURING WORKING HOURS SHALL BE APPROVED BY FORT BRAGG.
3. ADAPT THE TRAFFIC CONTROL PLANS, WHEN DIRECTED BY THE ENGINEER, TO MEET FIELD CONDITIONS TO PROVIDE SAFE AND EFFICIENT TRAFFIC MOVEMENT. CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE STANDARD DRAWINGS, AND ROADWAY DETAILS ARE NOT ATTAINABLE, OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES.

TIME RESTRICTIONS

1. DO NOT CLOSE OR NARROW TRAVEL LANES, MONDAY THROUGH FRIDAY, 6-9:00 AM AND 4-7:00 PM.
2. DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:
 - A) FOR ANY EVENT THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
 - B) FOR THE FOLLOWING HOLIDAYS: NEW YEAR'S EVE AND DAY, EASTER, MEMORIAL DAY, INDEPENDENCE DAY, AND LABOR DAY, BETWEEN THE HOURS OF 4:00 PM THE DAY BEFORE THE HOLIDAY UNTIL 9:00 AM THE DAY AFTER THE HOLIDAY. IF THE HOLIDAY IS ON A SATURDAY, SUNDAY, OR MONDAY, BETWEEN THE HOURS OF 4:00 PM THE THURSDAY BEFORE THE HOLIDAY UNTIL 9:00 AM THE TUESDAY AFTER THE HOLIDAY.
 - C) FOR THANKSGIVING BETWEEN THE HOURS OF 4:00 PM THE TUESDAY BEFORE THE HOLIDAY UNTIL 9:00 AM THE MONDAY AFTER THE HOLIDAY.
 - D) FOR CHRISTMAS BETWEEN THE HOURS OF 4:00 PM THE FRIDAY BEFORE THE WEEK OF CHRISTMAS UNTIL 9:00 AM THE FOLLOWING MONDAY AFTER THE WEEK OF CHRISTMAS.
3. DO NOT STOP TRAFFIC FOR MORE THAN 15 MINUTES FOR TEMPORARY LANE CLOSURES AND DETOURS.

LANE AND SHOULDER CLOSURE REQUIREMENTS

1. REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED, OR AS DIRECTED BY THE ENGINEER.
2. WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FEET OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
3. WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN THE TRAVEL LANE OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, NCDOT STANDARD DRAWINGS OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

EDGE DROP-OFF BACKFILL REQUIREMENTS

1. BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS A DROP-OFF AS FOLLOWS:
 - A) BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.
 - B) BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.
 - C) BACKFILL WITH AGGREGATE BASE COURSE (ABC) OR SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER AT NO EXPENSE TO THE PROJECT.

PAVEMENT MARKINGS

1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL FIELD SURVEY ALL EXISTING PAVEMENT MARKINGS WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL INSTALL PAVEMENT MARKINGS ON THE FINAL SURFACE TO MATCH EXISTING PAVEMENT MARKINGS OR AS DIRECTED BY THE ENGINEER.
2. TIE-IN THE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

PERMANENT STREET SIGNAGE

1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL DOCUMENT AND COORDINATE WITH THE ENGINEER ALL EXISTING STREET SIGNAGE WITHIN THE PROJECT AREA. SHOULD THE CONTRACTOR REMOVE, DAMAGE, OR DEMOLISH ANY STREET SIGNAGE WITHIN THE PROJECT AREA OR ALONG THE ROUTE TO THE PROJECT AREA, THE CONTRACTOR SHALL REPLACE SAID REMOVED, DAMAGED, OR DEMOLISHED STREET SIGNAGE IN KIND.

TRAFFIC SIGNAL AND VEHICLE DETECTION EQUIPMENT

1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL DOCUMENT AND COORDINATE WITH THE ENGINEER ALL EXISTING TRAFFIC SIGNAL EQUIPMENT, POLES, MAST-ARMS, ETC. WITHIN THE PROJECT AREA. SHOULD THE CONTRACTOR REMOVE, DAMAGE, OR DEMOLISH ANY SUCH EQUIPMENT, THE CONTRACTOR SHALL COORDINATE WITH ENGINEER THE REPLACEMENT OF SUCH EQUIPMENT AND SHALL INCUR ALL EXPENSES FOR THE ENGINEERING, MATERIALS, DELIVERY, AND INSTALLATION OF SUCH EQUIPMENT.
2. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL COORDINATE, VERIFY AND DOCUMENT WITH THE ENGINEER ALL EXISTING VEHICLE DETECTION EQUIPMENT WITHIN THE PROJECT AREA. SHOULD THE CONTRACTOR REMOVE, DAMAGE, OR DEMOLISH ANY SUCH EQUIPMENT, THE CONTRACTOR SHALL COORDINATE WITH ENGINEER THE REPLACEMENT OF SUCH EQUIPMENT AND SHALL INCUR ALL EXPENSES FOR THE ENGINEERING, MATERIALS, DELIVERY, AND INSTALLATION OF SUCH EQUIPMENT.

STAGING AREA

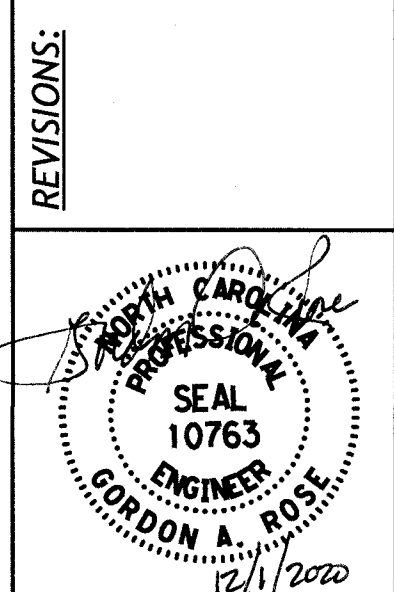
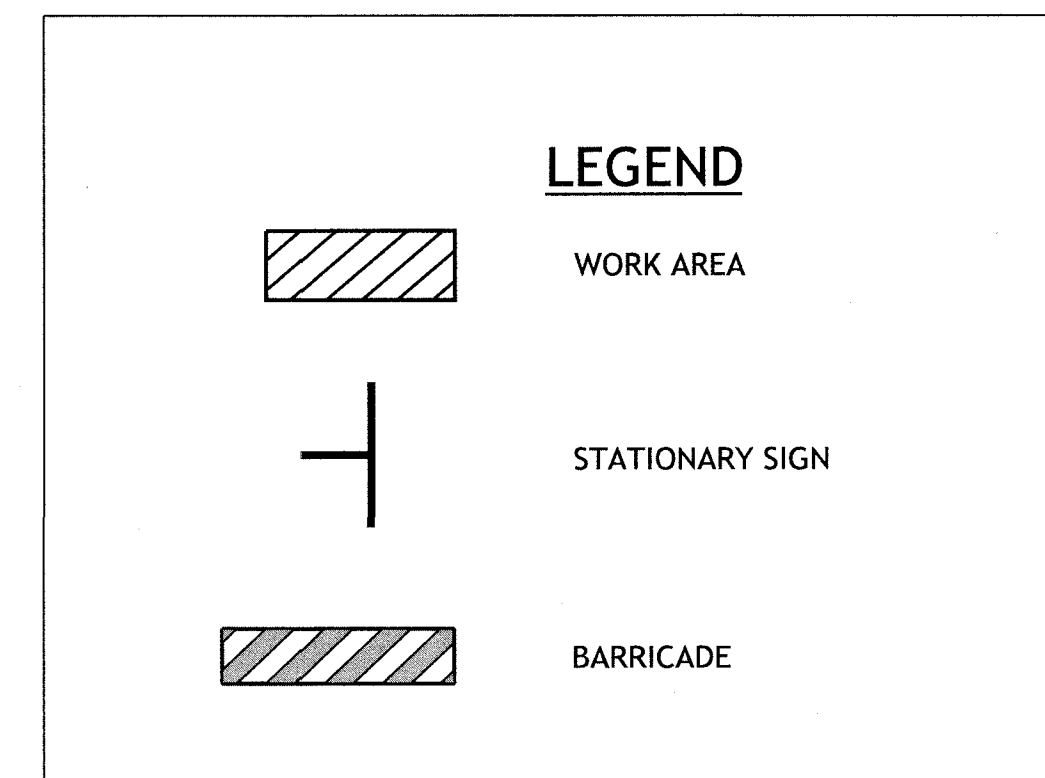
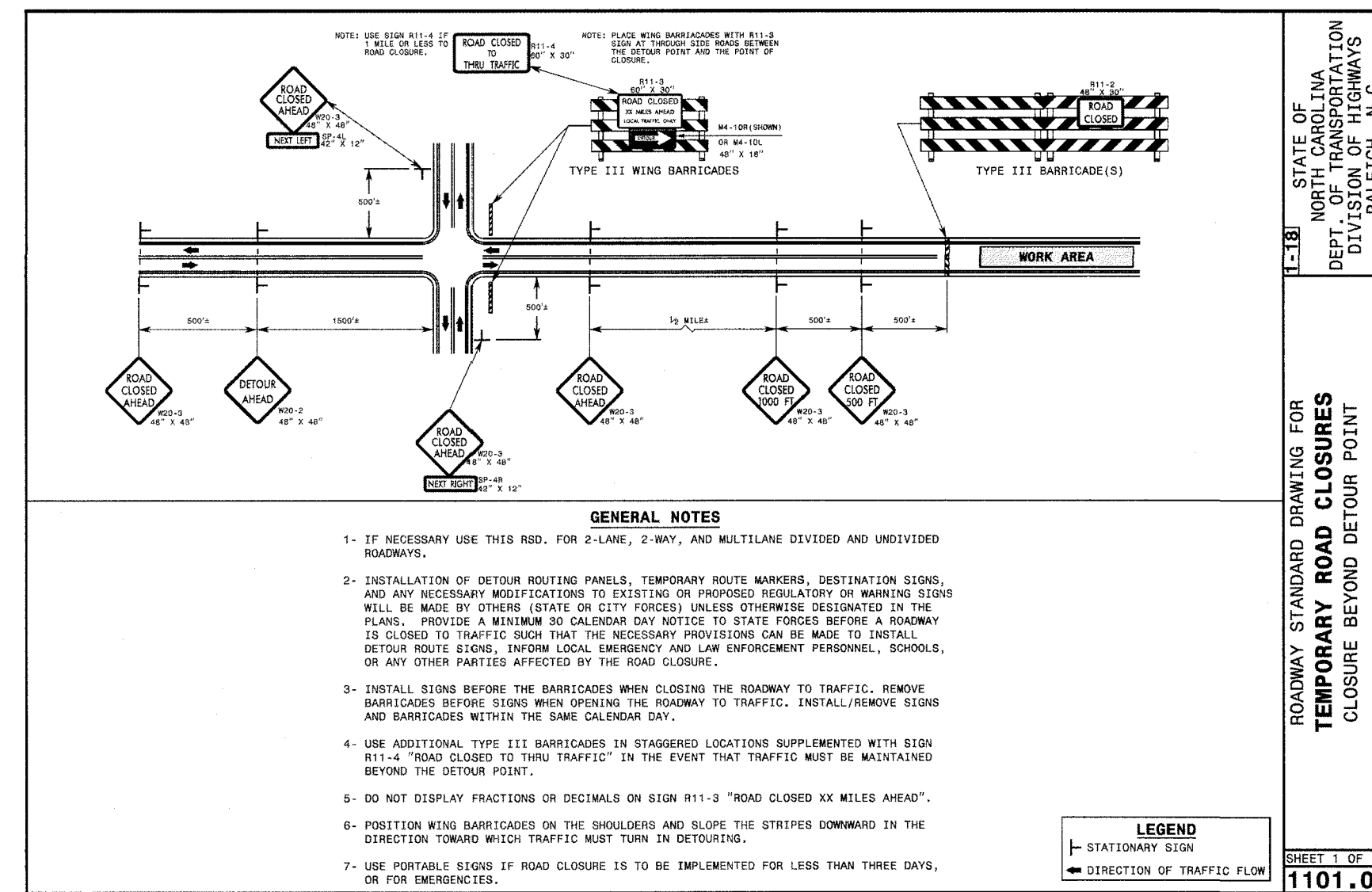
1. THE CONTRACTOR SHALL USE STAGING AREA(S) AS APPROVED BY THE CONTRACTING OFFICER. ALL EQUIPMENT SHALL BE PARKED WITHIN APPROVED STAGING AREA(S) WHEN NOT IN USE.

PROJECT SCHEDULE AND TRAFFIC CONTROL STAGING

1. THE STAGING OF CONSTRUCTION AND TRAFFIC CONTROL OUTLINED HEREIN ARE MEANT TO PROVIDE GUIDANCE TO RELATETHE MINIMUM REQUIRED TRAFFIC CONTROL FOR CONSTRUCTION OF THE PROJECT. THE ORDER AND IMPLEMENTATION OF THE STAGES OUTLINED HEREIN MAY BE MODIFIED BASED ON LOCAL NEEDS, LOGISTICS, STAGING OF MATERIALS AND EQUIPMENT, AND REQUESTS BY THE CONTRACTING OFFICER OR HIS REPRESENTATIVE. THE CONTRACTOR SHALL FULLY COORDINATE THE ORDER OF CONSTRUCTION AND REQUIREMENTS FOR ALL TRAFFIC CONTROL WITHIN THE PROJECT AREA PRIOR TO COMMENCEMENT OF ALL CONSTRUCTION ACTIVITIES.
2. CONTRACTOR SHALL ENSURE ACCESS FOR EMERGENCY SERVICE VEHICLES AT ALL TIMES AND SHALL ONLY BARRICADE THAT PORTION OF THE ROADWAY WHERE UTILITY WORK IS OCCURRING THAT DAY.
3. FOR EACH STAGE THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND SET UP THE ACTIVE WORK AREA TO MAINTAIN SAFE TRAFFIC ROUTING AND MINIMIZE DELAYS. THE CONTRACTOR SHALL SET UP TRAFFIC CONTROL FOR THE NEXT STAGE OR ACTIVE WORK AREA PRIOR TO THE RE-OPENING OF THE CURRENT WORK AREA OR INTERSECTION AND/OR PRIOR TO MOVING TO THE NEXT ACTIVE WORK AREA.
4. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL TRAFFIC CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO DETOUR SIGNAGE, AND ADVANCE WARNING SIGNS IN ACCORDANCE WITH NCDOT STANDARD DRAWINGS AND THE TRAFFIC CONTROL PLANS (TCPs) HEREIN.
5. AFTER COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL ONLY REPLACE DAMAGED PAVEMENT MARKINGS AND STREET SIGNAGE, IF NECESSARY.

LIST OF APPLICABLE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) STANDARD DRAWINGS

1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.05	WORK ZONE VEHICLE ACCESS
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUM
1135.01	CONE
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
(1200.XX)	PAVEMENT MARKINGS, MARKERS, AND DELINEATION



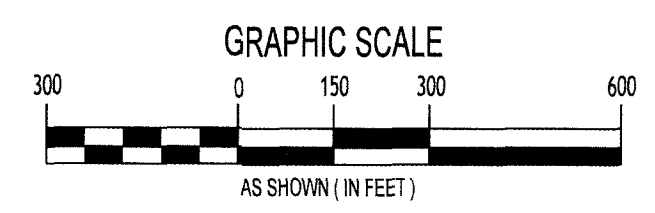
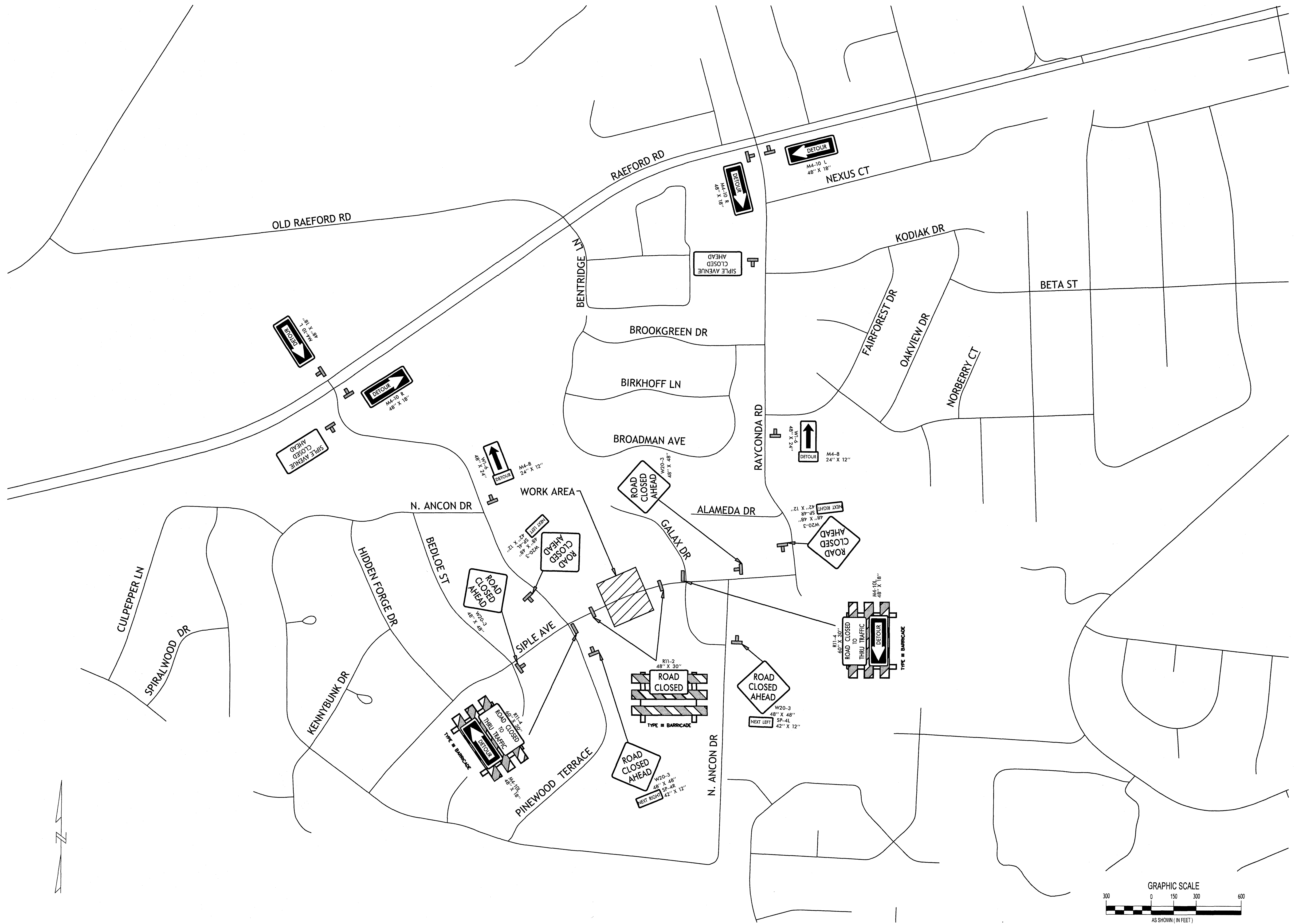
DATE: DEC. 01, 2020
 PROJECT NO.: FAY1012
 SHEET SIZE: ANSI D - 22x34
 STATUS: 100% DESIGN - ISSUED FOR CONSTRUCTION

CITY OF FAYETTEVILLE - EWP
 EWP DSR PROJECT #5038-500
 SIPLE AVENUE
 TRAFFIC CONTROL NOTES

TC-01

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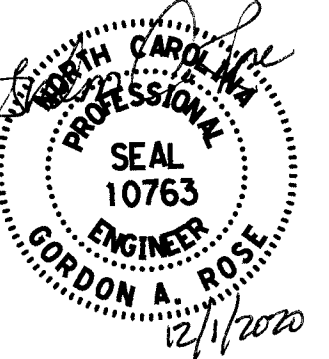
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City of
Fayetteville
North Carolina

GRADIENT
 LAND - WATER INNOVATION
 230 DONALDSON STREET, SUITE 500A
 FAYETTEVILLE, NC
 PHONE: 910.824.7751
 NC FIRM LICENSE NO. P-1875

REVISIONS:



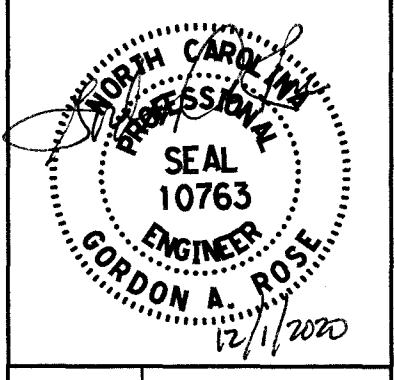
DATE: DEC. 01, 2020
 PROJECT NO.: FA11012
 SHEET SIZE: ANSI D - 22x34

STATUS:
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 ISSUED FOR
 CONSTRUCTION

CITY OF FAYETTEVILLE - EWP
 EWP DSR PROJECT #5038-500
 SIPLE AVENUE
 TRAFFIC CONTROL PLAN

TC-02

REVISIONS:



DATE: DEC. 01, 2020
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SHEET SIZE: ANSI D - 22x34
STATUS:
100% DESIGN -
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CONSTRUCTION

CITY OF FAYETTEVILLE - EWP
EWP DSR PROJECT #5038-500
SIPLE AVENUE
DETAILS

TYPICAL STORM DRAIN COMPACTION

NOTES:
1. STONE BEDDING FOR PIPE IS REQUIRED UNLESS OTHERWISE APPROVED BY CITY ENGINEER OR THEIR DESIGNEE.

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Rev. Date: 16JAN18
Not to Scale
Review Date: 01JAN19

DR-1

PRECAST CONCRETE HEADWALL SYSTEM 12" THRU 72" PIPE

GENERAL NOTES:
1. ALL CONCRETE TO BE 4000 PSI MIN.
2. REINFORCEMENT STEEL SHALL MEET ASTM 615 GRADE 60 WITH 2" MIN. CLEARANCE.
3. CHAMFER ALL EXPOSED EDGES 5/4".
4. PRECAST HEADWALL UNIT SHALL BE CAREFULLY POSITIONED ON THE PREPARED FOUNDATION AND PIPE INSTALLED TO HEADWALL OR HEADWALL END OVER PIPE AND CHECKED FOR ALIGNMENT.
5. PIPE SHALL BE GROUDED INTO HEADWALL WITH CONCRETE/STONEMATERIAL BY CONTRACTOR. SOAKING AGENT MAY BE USED IF NECESSARY.
6. CARE SHALL BE TAKEN DURING BACKFILLING AND COMPACTION TO PREVENT DAMAGE AND MAINTAIN ALIGNMENT. WORK DAMAGE TO THE UNIT MAY BE REPAIRED BY CONTRACTOR UNDER PERMIT BY ENGINEER.
7. REINFORCEMENT VARIES WITH SIZE OF UNIT.
8. VARIOUS HOLE SIZE AND SPACES AVAILABLE BY SPECIAL ORDER.
9. ALL DIMENSIONS ARE NOMINAL.

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DR-18

SIZE D	T	L	POUNDS PER FOOT	ASTM SPEC. & CLASS	OD	A	B	C	E	F	G	PLANT
42	CS 2	4'	807	ASTM C76 III IV V	52 1/2	4 1/4	46 1/2	46 1/2	4 5/16	47 3/8	46 7/8	SR
48	CS 2	4'	1018	ASTM C76 III IV V	59 1/2	4 1/4	51 1/2	52 1/2	4 5/16	53 1/8	52 7/8	SR
54	CS 2	4'	1228	ASTM C76 III IV V	66 1/2	4 1/4	57 1/2	58 1/2	4 5/16	59 1/8	58 1/8	SR
60	CS 2	4'	1468	ASTM C76 III IV V	73 1/2	4 1/4	63 1/2	64 1/2	4 5/16	65 1/8	65 1/8	SR
66	C7 1/2	8'/12"	1791	ASTM C76 III IV V	80 1/2	5	71 1/2	71 1/2	5 1/16	71 7/8	71 1/8	SR
72	C7 1/2	8'/12"	2002	ASTM C76 III IV V	87 1/2	5	77 1/2	77 1/2	5 1/16	78 1/8	77 7/8	SR

MINIMUM FILL UNDER ROADWAYS
PIPE CLASS MINIMUM FILL
CLASS III 2'
CLASS IV 1'
CLASS V 1'

FILL HEIGHT IS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE PAVEMENT STRUCTURE.

A MINIMUM OF 6" OF #57 WASHED STONE IS REQUIRED FOR ALL PIPE INSTALLATION. SEE CITY OF FAYETTEVILLE STANDARD DETAIL DR-1.

MOORED TONGUE AND GROOVE
8 FOOT LENGTH
MORTAR OF FLEXIBLE PLASTIC TYPE JOINT

SPECIFICATIONS:
ASTM C 76-LATEST
NOT REINFORCED IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS

LEFT HOLES STANDARD ON 36" AS ALLOWED PER ASTM SPECIFICATIONS

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REINFORCED CONCRETE SEWER, STORM DRAIN AND CULVERT 42" THRU 72" PIPE

Rev. Date: 16JAN18
Not to Scale
Review Date: 01JAN19

DR-19.1

SIZE D IN.	MIN. SLOPE (FT)		CLEARANCE DIST. (FT)	
	RCP	CMP	RCP	CMP
15	0.00325	0.01107	2.4	2.3
18	0.00225	0.00868	2.7	2.6
24	0.00174	0.00592	3.3	3.1
30	0.00129	0.00439	3.8	3.6
36	0.00101	0.00345	4.3	4.1
42	0.00082	0.00281	4.9	4.6
48	0.00069	0.00233	5.4	5.1

MINIMUM FILL UNDER ROADWAYS
PIPE CLASS MINIMUM FILL
CLASS III 2'
CLASS IV 1'
CLASS V 1'

FILL HEIGHT IS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE PAVEMENT STRUCTURE.

NOTES:
1. THE MAXIMUM PIPE VELOCITY SHALL NOT EXCEED 20 FT PER SEC., BUT SHALL NOT CAUSE SCOUR OR OTHER EROSION PROBLEMS IN THE RECEIVING CHANNEL.
2. SLOPES REQUIRED TO MAINTAIN MINIMUM VELOCITY OF 3 FT PER SEC. AT FULL FLOW.
3. THE MINIMUM SIZE STORM DRAIN PIPE SHALL BE 15 IN.
4. ALL STORM DRAINAGE PIPE USED WITHIN CITY RIGHT-OF-WAY SHALL BE REINFORCED CONCRETE PIPE (RCP). ALL RCP SHALL BE CLASS II OR HIGHER.
5. CLEARANCE DISTANCE IS DETERMINED FROM THE PIPE INVERT ELEVATION UP.
6. A MINIMUM OF 6" OF #57 WASHED STONE IS REQUIRED FOR ALL PIPE INSTALLATION. SEE CITY OF FAYETTEVILLE STANDARD DETAIL DR-1.

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MINIMUM SLOPE & COVER FOR STORM DRAIN AND CULVERT PIPE

Rev. Date: 16JAN18
Not to Scale
Review Date: 01JAN19

DR-19.2

HIGH HAZARD TEMPORARY SILT FENCE

GENERAL NOTES:
1. FILTER FABRIC SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
2. WHEN FILTER FABRIC IS USED WHERE SILT FENCE IS TO REMAIN FOR A PERIOD OF MORE THAN 30 DAYS.
3. STEEL POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
4. WIRE FENCING SHALL BE AT LEAST #10 GAGE WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
5. TURN SILT FENCE UP SLOPE AT ENDS.
6. WIRE MESH SHALL BE MIN. 13 GAGE WITH MAXIMUM 12" OPENINGS.
7. WIRE AND WASHED STONE IS REQUIRED TO BE SHOWN ON PLANS AT THE TOE OF SLOPES GREATER THAN 10 FEET VERTICAL (2:1 SLOPE).
8. ORANGE SAFETY FENCE IS REQUIRED AT BACK OF SILT FENCE WHEN GRADING IS ADJACENT TO CURB EDGES, STREAMS OR WELLS; THE COLOR ORANGE IS RESERVED FOR VISUAL IDENTIFICATION OF ENVIRONMENTALLY SENSITIVE AREAS.
9. ORANGE AREA CAN NOT BE GREATER THAN 1/4 ACRE PER 100 FT OF FENCE.
10. SLOPE LENGTHS CAN NOT EXCEED CRITERIA SHOWN IN TABLE 6.62A NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
11. DO NOT INSTALL SEDIMENT FENCE ACROSS STREAMS, DITCHES, WATERWAYS OR OTHER AREAS OF CONCENTRATED FLOW.

MAINTENANCE NOTES:
1. FILTER BARRIERS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST ONCE DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

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EC-5

	WARMER SEASON	COOL SEASON
SEEDING MIXTURE	100 lbs/acre of tall fescue 25 lbs/acre of german millet 25 lbs/acre of buffed bermuda	100 lbs/acre of tall fescue 30 lbs/acre of wheat 25 lbs/acre of unthatched bermuda
SEEDING DATES	March 15 - September 15	September 15 - March 15
SEEDING AMENDMENTS	Apply lime and fertilizer per soil tests, or 4000 lbs/acre limestone and 1000 lbs/acre 10-10-10 fertilizer.	Apply lime and fertilizer per soil tests, or 4000 lbs/acre limestone and 1000 lbs/acre 10-10-10 fertilizer.

STABILIZATION TIMEFRAMES

SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES, SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES

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PERMANENT SEEDING SCHEDULE

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EC-7

	EARLY SUMMER SEASON	FALL/WINTER SEASON
SEEDING MIXTURE	40 lbs/acre of German millet 80 lbs/acre of tall fescue	120 lbs/acre Rye (grass) 80 lbs/acre tall fescue
SEEDING DATES	May 1 - August 15	October 25 - December 30
SEEDING AMENDMENTS	Refer/fertilize if growth is not fully adequate. Apply 4000 lbs/acre straw or equivalent hydroseeding.	Between December 30 - February 15, add 50 lbs/acre of annual Kabe lespedeza. Apply 4000 lbs/acre straw or equivalent hydroseeding.
SEEDING AMENDMENTS	Apply lime and fertilizer per soil tests, or 2000 lbs/acre limestone and 750 lbs/acre 10-10-10 fertilizer.	Apply lime and fertilizer per soil tests, or 2000 lbs/acre limestone and 750 lbs/acre 10-10-10 fertilizer.

TEMPORARY SEEDING SCHEDULE (SEASONAL)

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EC-8

GRADE RING

HEIGHT	WEIGHT (LBS)
4"	200
6"	300

TRANSITION SLAB
WT = 4,300 LBS.

FLAT TOP
WT = 5,100 LBS.

RISER SECTION

HEIGHT	WEIGHT (LBS)
1.00' RISER	1,500
1.25' RISER	2,300
2.00' RISER	3,000
2.67' RISER	4,500
3.00' RISER	4,800
4.00' RISER	6,700
5.00' RISER	7,700
6.00' RISER	9,200
6.67' RISER	10,750

DOGHOUSE RISER SECTION

STANDARD BASE SECTION

HEIGHT	WEIGHT (LBS)
2.00' BASE	6,200
2.50' BASE	7,000
2.67' BASE	7,300
3.50' BASE	8,500
4.00' BASE	9,300
5.00' BASE	10,800
6.00' BASE	12,400
6.67' BASE	13,400

EXTENDED BASE SECTION

HEIGHT	WEIGHT (LBS)
2.00' BASE	7,400
2.50' BASE	8,200
2.67' BASE	8,400
3.50' BASE	9,700
4.00' BASE	10,500
5.00' BASE	12,000
6.00' BASE	13,800
6.67' BASE	14,600

GENERAL DESIGN NOTES:

- STRENGTH DESIGN METHOD IN ACCORDANCE WITH (I.A.W.) ACI 318.
- APPLICABLE DESIGN DOCUMENTS (CURRENT EDITIONS):
 - ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (MAIN DESIGN SPECIFICATION)
 - ASTM C890 STANDARD PRACTICE FOR MINIMUM STRUCTURAL LOADING FOR MONOLITHIC OR SECTIONAL PRECAST CONCRETE WATER AND WASTEWATER STRUCTURES (LOADING SPECIFICATION)
 - ASTM C478 STANDARD SPECIFICATION FOR PRECAST MANHOLES (PRODUCT SPECIFICATION)
- PRECAST RATED FOR H20-44 TRUCK LIVE LOAD W/ IMPACT I.A.W. ASTM C296.
- MAX DEPTH TO INVERT OF MANHOLE (I.E. FLOOR) = 30'
- LATERAL DESIGN PRESSURES (AS APPLICABLE TO DESIGN):
 - EQUIV. 0.07' SOIL FLUID PRESSURE = 47 PSF
 - EQUIV. SATURATED SOIL FLUID PRESSURE = 86 PSF
 - HYDROSTATIC WATER PRESSURE = 92.4 PSF
 - LIVE LOAD SURCHARGE = 80 PSF
- DESIGN CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS = 4,000 PSI (MIN)
- REINFORCEMENT:
 - CARBON STEEL DEFORMED BARS, ASTM A615, fy = 60KSI (MIN)
 - WELDED WIRE REINFORCEMENT (PLAN), ASTM A1028, fy = 60KSI (MIN)
 - WELDED WIRE REINFORCEMENT (ELEV), ASTM A1028, fy = 70KSI (MIN)
- JOINT SEALANT (PER CONTRACT SPECIFICATIONS):
 - CS-102 CONSEAL, BUTYL RUBBER SEALANT (OR EQUIV.) I.A.W. ASTM C977 AND ASTM C296.
 - CS-210 CONSEAL EXTERIOR JOINT WRAP (OR EQUIV.) I.A.W. ASTM C977 AND ASTM C296.
 - CS-60 CONSEAL LIQUID BUTYL PRIMER (OR EQUIV.) AS NEEDED.
- COPOLYMER POLY PROPYLENE STEEL REINFORCED STEPS I.A.W. ASTM C478 SPACED 16" O.C.
- OPENINGS CAST OR CORED IN MANHOLE TO DEFLECTIONS AND ELEVATIONS SPECIFIED ON CONTRACT DRAWINGS. MAX HOLE SIZE IS 84" (48" DIA).
- PRECAST INVERT PROVIDED UPON REQUEST. MIN 2" PER FT BENCH SLOPE FROM SPRINGLINE.

JOINT DETAIL
SCALE: 1" = 1'-0"

Oldcastle Precast
100 PRODUCT RD., HUNTERDON, NJ 08832
800-368-7629
WWW.OLDCASTLEPRECAST.COM

6" DIAMETER MANHOLE SUBMITTAL LAYOUT

DATE	SALES	DRAWN	CHECKED	CHECKED	SALES ORDER
10/27/17	648012017	REVISED	REVISED	REVISED	REVISED

ROADWAY STANDARD DRAWING FOR SPECIAL STILLING BASIN

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

SHEET 1 OF 1
1630.06

NOTES

USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE.
PROVIDE STABILIZED OUTLET TO STREAM BANK. WOOD PALLETS MAY BE USED IN LIEU OF STONE AND GEOTEXTILE AS DIRECTED. A SUFFICIENT NUMBER OF PALLETS MUST BE PROVIDED TO ELEVATE THE ENTIRE SPECIAL STILLING BASIN ABOVE NATURAL GROUND.

NOT TO SCALE

ROADWAY STANDARD DRAWING FOR TEMPORARY ROCK SEDIMENT DAM TYPE A

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

SHEET 1 OF 1
1634.01

NOTES

USE CLASS I RIP RAP FOR STRUCTURAL STONE.
USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE.
INSTALL 3 COIR FIBER Baffles ON UPSTREAM SIDE OF SEDIMENT DAM IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1640.01.

ROADWAY STANDARD DRAWING FOR TEMPORARY ROCK SILT CHECK TYPE A

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

SHEET 1 OF 1
1633.01

NOTES

USE CLASS B EROSION CONTROL STONE FOR STRUCTURAL STONE.
USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE.

HARDWARE CLOTH & GRAVEL INLET PROTECTION USE:
A TEMPORARY MEASURE OF WIRE-MESH HARDWARE CLOTH AROUND STEEL POSTS SUPPORTING WASHED STONE PLACED AROUND THE OPENING OF A DROP INLET. THIS TYPE OF PROTECTION IS USED TO PREVENT SEDIMENT FROM ENTERING YARD INLETS DURING CONSTRUCTION. REFER TO SECTION 6.51 OF THE NCDENR EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.

HARDWARE CLOTH & GRAVEL INLET PROTECTION MAINTENANCE:
INSPECT INLETS DAILY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.

HARDWARE CLOTH & GRAVEL INLET PROTECTION
NOT TO SCALE