

Town Hall 301 W. Main St. Carrboro, NC 27510



Meeting Agenda Board of Aldermen

Tuesday, March 21, 2017

7:30 PM

Board Chambers - Room 110

7:30-7:40

- A. POETRY READING, RESOLUTIONS, PROCLAMATIONS, AND ACKNOWLEDGEMENTS
- 1. <u>17-080</u> Earth Hour Resolution

PURPOSE: To adopt a resolution encouraging participation in Earth Hour

on March 25th

Attachments: Earth Hour Resolution 17

2. <u>17-082</u> Charges Issued to Recently Appointed Advisory Board Volunteers

<u>7:40-7:43</u>

B. ANNOUNCEMENT OF UPCOMING MEETINGS

7:43-7:55

C. REQUESTS FROM VISITORS AND SPEAKERS FROM THE FLOOR

7:55-8:00

- D. CONSENT AGENDA
- 1. <u>17-081</u> Approval of Previous Meeting Minutes of February 10, 2017,

February 28, 2017 and March 5, 2017

2. 17-077 Request to Make an Appointment to the Human Services Advisory Commission

PURPOSE: The purpose of this item is for the Mayor and Board to make

appointments to the Human Services Commission.

<u>Attachments:</u> Resolution - Human Services Commission Appointment

Karen Porter - Human Services Commission Application.pdf

3. <u>17-073</u>

Approve Text Amendment of Town Code Section 14-10(a) To Prohibit the Operation of Unmanned Aerial Vehicles on Town Property

PURPOSE: The purpose of this agenda item is for the Board of Aldermen consider updating the Town Code to prohibit operation of unmanned aerial vehicles on town property.

Attachments: Attachment 1 - Ordinance amending 14-10 drones 2-23-2017

E. PUBLIC HEARING

8:00-8:45

1. <u>17-074</u> Public Hearing on 60% Review of the Martin Luther King Jr Park Construction Design

PURPOSE: The purpose of this agenda item is to provide the Mayor, Board members and community an opportunity to review the 60% construction plans for Martin Luther King Jr Park.

Attachments: Attachment A - Resolution

Attachment B 2017.03.14 - 60% DD Plan Rendering
Attachment C Set A-2017.03.14 MLK Park 60% DD
Attachment D Set B-2017.03.14 MLK Park 60% DD
Attachment E Set C-2017.03.14 MLK Park 60% DD

8:45-9:15

2. <u>17-079</u> Consideration of Stage 2 Traffic Calming on Blueridge Road

PURPOSE: The purpose of this agenda item is for the Board of Aldermen to consider the proposed design for Stage 2 traffic calming measures on Blueridge Road.

<u>Attachments:</u> Attachment A - Resolution Blueridge Road Traffic Calming

Attachment B - Blueridge survey response summary

Attachment C - Blueridge map

Attachment D - TAB Recommendation

Attachment E - Board of Aldermen flyer

<u>9:15-9:45</u>

3. <u>17-078</u> Consideration of Stage 2 Traffic Calming on Tallyho Trail

PURPOSE: The purpose of this agenda item is for the Board of Aldermen to consider the proposed design for Stage 2 traffic calming measures on Tallyho Trail.

Attachments: Attachment A - Resolution Tallyho Trail Traffic Calming

Attachment B - Tallyho survey response summary

Attachment C - Tallyho map

Attachment D - TAB Recommendation

Attachment E - Board of Aldermen flyer

9:45-10:00

F. **OTHER MATTERS - TIME DEPENDENT - MAY BE CONTINUED TO FUTURE MEETING**

1. <u>17-054</u> Consideration of an Application for Affordable Housing Funding

from CASA

PURPOSE: The purpose of this item is for the Board to consider approving an application for funding out of the Affordable Housing Special Revenue Fund.

Attachments: Attachment A - Resolution

Attachment B- Funding Application

Attachment C- CASA Ten Year Development History

Attachment D- Qualifications of the Developer

- G. MATTERS BY BOARD MEMBERS
- H. MATTERS BY TOWN MANAGER
- I. MATTERS BY TOWN ATTORNEY

10:00-10:20

J. CLOSED SESSION - NCGS 143-318.11(a)(3)



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Agenda Item Abstract

File Number: 17-080

Agenda Date: 3/21/2017 File Type: Agendas

In Control: Board of Aldermen

Version: 1

TITLE:

Earth Hour Resolution

PURPOSE: To adopt a resolution encouraging participation in Earth Hour on March 25th

DEPARTMENT: Planning

CONTACT INFORMATION: Randy Dodd 919 918-7326

INFORMATION: Earth Hour, sponsored by World Wildlife Fund, has cemented itself as an effective and annual/ongoing voluntary environmental action, with hundreds of millions of people coming together to respond to climate change by doing something quite simple such as turning off their lights or hosting an event to help raise awareness of climate change. While the global lights out remains an impactful visual call-out, its true impact is being seen in areas and communities fighting climate change on an everyday basis. In its tenth year, Earth Hour 2016 broke records of mass participation, mobilizing a record-breaking 178 countries and territories with: over 10,000 landmarks and monuments switching off their lights; hundreds of thousands of signatures collected online for climate petitions; and enormous outreach via social media. A few examples of previous Earth Hour actions include: hundreds of millions of people became "everyday Super Heroes" for the planet (2014); the "I Will If You Will" campaign, with more than 200,000 individuals accepting a challenge, and astronaut André Kuipers observing the lights off event from the International Space Station (2012); polling in the United States showed that an estimated 90,000,000 Americans participated in "lights out", including iconic landmarks such as Mount Rushmore, the Las Vegas Strip, the Empire State Building and Niagara Falls (2010). Celebrity Earth Hour ambassadors have included South African Archbishop Desmond Tutu, former New Zealand Prime Minister Helen Clark, President of Vietnam Nguyễn Minh Triết, and London Mayor Boris Johnson. Sydney's Herald Sun equated the power savings in the Sydney central business district to "taking" 48,613 cars off the road for 1 hour." More information about Earth Hour, including how Earth Hour began, what has been accomplished, and what is in store for 2017, is available at www.earthhour.org.

FISCAL & STAFF IMPACT: There is no fiscal or staff impact.

RECOMMENDATION: It is recommended that the Board adopt the attached resolution.

A RESOLUTION FOR PARTICPATION IN EARTH HOUR ON MARCH 25th Resolution No. /2017-

WHEREAS, March 25th, 2016, 8:30-9:30 PM has been designated as "Earth Hour" by the World Wildlife Fund as a reminder that, by working together, people can make a positive impact in the fight against climate change;

WHEREAS, Carrboro is joining with others across the country and around the world to raise awareness and demonstrate commitment to addressing climate change by supporting "Earth Hour," and;

WHEREAS, "Earth Hour", the largest event of its kind in the world, involves something quite simple such as turning off lights or holding an event for one hour, and otherwise raising awareness and building a global commitment;

WHEREAS, Carrboro has joined Cities for Climate Protection; adopted a climate protection resolution and earlier this year unveiled a Community Climate Action Plan;

THEREFORE, the Carrboro Board of Aldermen, do hereby proclaim, March 25th, 2017 from 8:30 – 9:30 p.m. as "Earth Hour" in Carrboro and call upon all residents and businesses of Carrboro to join in supporting the aims and goals of this effort.

FURTHERMORE, the Carrboro Board of Aldermen, do hereby direct staff to send out a public service announcement to publicize "Earth Hour".

this 21st day of March, 2017.



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Agenda Item Abstract

File Number: 17-082

Agenda Date: 3/21/2017 File Type: Agendas

In Control: Board of Aldermen

Version: 1

Charges Issued to Recently Appointed Advisory Board Volunteers

The following charges will be issued:

1) Valerie Merriweather, Recreation and Parks Commission

2) David Gange, Economic Sustainability Commission

3) Victoria Rovine, Arts Committee

4) Danny Schuster, Appearance Committee



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Agenda Item Abstract

File Number: 17-077

Agenda Date: 3/21/2017 File Type: Agendas

In Control: Board of Aldermen

Version: 1

TITLE:

Request to Make an Appointment to the Human Services Advisory Commission

PURPOSE: The purpose of this item is for the Mayor and Board to make appointments to the Human

Services Commission.

DEPARTMENT: Town Clerk

CONTACT INFORMATION: Cathy Dorando, 918-7309

INFORMATION: The Human Services Advisory Commission currently has one vacant seat eligible for appointment. Tai Ayankoya has resigned from the Human Services Commission, creating an open seat and Karen Porter would like to be appointed. Andrea Tanner is the current chair of the Human Services Advisory Commission and has contacted the applicant to confirm interest. The applicant has also been attending the recent meetings of the Commission. The attached resolution will appoint Karen Porter to the Human Services Advisory Commission if the Board chooses.

FISCAL & STAFF IMPACT: N/A

RECOMMENDATION: It is recommended that the Mayor and Board adopt the attached resolution.

A RESOLUTION MAKING AN APPOINTMENT TO THE HUMAN SERVICES ADVISORY COMMISSION

NOW, THEREFORE, THE BOARD OF ALDERMEN OF THE TOWN OF CARRBORO APPOINTS THE FOLLOWING APPLICANT(S) TO THE HUMAN SERVICES ADVISORY COMMISSION;

Name	Term Expiration
Karen Porter	2/2021

Section 2. This resolution shall become effective upon adoption.

Catherine Dorando

From:

Catherine Dorando

Sent:

Thursday, December 08, 2016 4:04 PM

To:

Catherine Dorando

Subject:

FW: Online Form Submittal: Advisory Board Application

From: noreply@civicplus.com [mailto:noreply@civicplus.com]

Sent: Wednesday, December 07, 2016 8:08 PM

To: Catherine Dorando

Subject: Online Form Submittal: Advisory Board Application

Advisory Board Application

Name	Karen Porter
Date	12/7/2016
Address1	222 Old Fayetteville Rd
Address2	B104
City	Carrboro
State	NC
Zip	27510
Is this address located within the corporate limits of the Town of Carrboro?	Yes
Telephone	610-344-99
Email Address	Karenporteresq@gmail.com
Date of Birth	5/29/1947
Race	White
Sex	Female
Occupation	Lawyer (retired), Visiting & Adjunct Professor (in retirement)
Are you a registered Orange County Voter?	Yes

Length of Residence in Orange County	4 months
Length of Residence in the Town of Carrboro	4 months
I wish to be considered for appointment to the following committee/board(s) (Do Not Select More Than Three):	Animal Control Board of Appeals, Human Services Commission, Greenways Commission
Other (advisory board not listed):	N/A
Advisory Board Preference	Human Services 2. Animal Control Board of Appeals
*Employer/Self Employed	Not currently employed
Number of Years Employed	N/A
* Provide examples of how you are involved in the promotion of travel and tourism in the Town of Carrboro.	N/A
Community Activities/Organizational Memberships	During my 39-year legal career in Pennsylvania, I was involved in numerous civic, legal, religious, and political activities. For example: As a mother, I taught Sunday School for 13 years, developed an elementary school foreign language program, was a swimming stroke-and-turn judge for 5 years, served as a Cub Scout den leader for 5 years, and taught property law at public elementary schools for the bar association, among other activities. As a citizen, for example, I worked in the Kerry and (two) Obama presidential campaigns, founded and directed (for 12 years) the 1,000-member Chester County Peace Movement, and served on the boards of the (Philadelphia) National Conference of Christians & Jews and the ACLU, among other activities. In my profession, I wrote textbooks in my areas of expertise: business law, insurance regulation, and legal writing and oral advocacy and was Assistant Dean at Temple Law School and adjunct professor at Villanova Law School. In retirement, I have taught Anglo-American law to Russian lawyers 3 months a year (for six years) in Russia and 2 months a year to international lawyers at the University of

Delaware and one semester at Widener Law School and have taught International Communications Law to graduate students at Arcadia University. For the past 2 years I have been Clerk of the Board for Friends House Moscow (Quakers), which has involved constant evaluation of numerous grant applications for human services for Russians (funded by US, British, and German sources), making the Human Services Board position my number one choice. My 20 years at the Insurance Institute of America and previous experience as corporate counsel for Blue Cross in Philadelphia gave me a passion for healthcare and health law. Expecting future challenges to healthcare in this country, I want to turn my attention to volunteer work in providing human services, focusing on healthcare. I also love this community and want to be involved, as I always have been in the past. I moved here because my son and his wife live here, and I love it. I particularly love the Greenways, my third choice. However, for the past 12 years I have rescued homeless dogs, including several seniors (difficult to place) and am devoted to animals - my second choice. In the Animal Control slot, I could also apply my legal skills.

Experience to Aid You in Working on Advisory Boards

I think the answer above details my qualifications. I have strong legal and evaluative skills, work well with others, and care very much about my community. As a new community member, I might bring some fresh insights. I love Carrboro and want to bring my lengthy and varied experiences to help the town achieve its goals.

Reasons You Wish to be Appointed

I have spent a lot of time abroad (Russia) in the past 6 years, but I am "settling in" here and believe my country and community need me more now. My passion has been teaching future leaders (lawyers) in Russia and working with Moscow Quakers, all in an effort to help build their as-yet-to-be-developed civil society. I think my country needs me more now as our own civil society faces new challenges. Working in my local community is of great importance to me, and I think I have a lot to contribute.

Have you ever served on any Town of Carrboro Committee or Board?

No

If yes, which one(s)?

N/A

Are you currently serving on a Town Board or Committee?

No

If yes, are you applying

No

for a third consecutive term?

If yes, please describe how you meet one, or more, of the following exceptions noted below.
*Members of the Board of Adjustment,
Environmental Advisory
Board, Human Services
Advisory Commission, and Transportation
Advisory Board may be reappointed to successive terms without limitation (Sections 15-29(c), 15-45(c) 3-7(d), 3-24(c))

N/A

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Town Hall 301 W. Main St. Carrboro, NC 27510

Agenda Item Abstract

File Number: 17-073

Agenda Date: 3/21/2017 File Type: Agendas

In Control: Board of Aldermen

Version: 1

TITLE:

Approve Text Amendment of Town Code Section 14-10(a) To Prohibit the Operation of Unmanned Aerial Vehicles on Town Property

PURPOSE: The purpose of this agenda item is for the Board of Aldermen consider updating the

Town Code to prohibit operation of unmanned aerial vehicles on town property.

DEPARTMENT: Recreation and Parks

CONTACT INFORMATION: Anita Jones-McNair 919-918-7381, amcnair@townofcarrboro.org and Wendell Rodgers 919-918-7371, wrodgers@townofcarrboro.org mailto:wrodgers@townofcarrboro.org

INFORMATION: Almost weekly when staff visits Anderson Park they observe park patrons flying drones on ballfields and the large multipurpose field. During those visits staff will ask patrons to refrain from flying drones in the park. We feel updating the ordinance to specifically mention drones and posting signage will assistant in educating the public.

The code currently reads -

Section 14-10 Certain Recreational Activities Generally Prohibited (a) Subject to subsection (b), no person on town property may engage in horseback riding, hitting golf balls, model airplane flying, archery, overnight camping or other recreational activities that may tend to damage or disrupt the use of town property or pose a hazard to other occupants. (b) The provisions of subsection (a) shall not apply to persons engaged in the activities described therein while participating in events or programs authorized by the town, so long as such activities are conducted only at the locations and times authorized.

The change would reflect the following. Update is in **bold** text.

(a) Subject to subsection (b), no person on town property may engage in horseback riding, hitting golf balls, model airplane flying, **unmanned aerial vehicles (commonly referred to as "drones"**, archery, overnight camping or other recreational activities that may tend to damage or disrupt the use of town property or pose a hazard to other

Agenda Date: 3/21/2017 File Type: Agendas

In Control: Board of Aldermen

Version: 1

occupants.

FISCAL & STAFF IMPACT: Minimal staff impact associated with updating the Town Code. PW staff can create and install signage. The estimated cost for signs is \$150 for approximately 3-4 signs.

RECOMMENDATION: Staff recommends that the Board of Aldermen adopt the Town Code change provided in Attachment A.

AN ORDINANCE AMENDING TOWN CODE SECTION 14-10(a) TO PROHIBIT THE OPERATION OF UNMANNED AERIAL VEHICLES ON TOWN PROPERTY

THE BOARD OF ALDERMEN OF THE TOWN OF CARRBORO ORDAINS:

Section 1. Subparagraph (a) of Town Code Section 14-10 is amended to read as follows:

- (a) Subject to subsection (b), no person on town property may engage in horseback riding, hitting golf balls, model airplane flying, **unmanned aerial vehicles (commonly referred to as "drones"**, archery, overnight camping or other recreational activities that may tend to damage or disrupt the use of town property or pose a hazard to other occupants.
- Section 2. All provisions of any town ordinance in conflict with this ordinance are repealed.

Section 3. This ordinance shall become effective upon adoption.

The foregoing ordinance, having been submiduly adopted this day of	, and the second	he following vote and was
Ayes:		
Noes:		
Absent or Excused:		



Town Hall 301 W. Main St. Carrboro, NC 27510

Agenda Item Abstract

File Number: 17-074

Agenda Date: 3/21/2017 File Type: Agendas

In Control: Board of Aldermen

Version: 1

TITLE:

Public Hearing on 60% Review of the Martin Luther King Jr Park Construction Design

PURPOSE: The purpose of this agenda item is to provide the Mayor, Board members and community an opportunity to review the 60% construction plans for Martin Luther King Jr Park.

DEPARTMENT: Recreation and Parks

CONTACT INFORMATION: Anita Jones-McNair - 919-918-7381, amcnair@townofcarrboro.org and Wendell Rodgers - 919-918-7371, wrodgers@townofcarrboro.org mailto:wrodgers@townofcarrboro.org

INFORMATION: Staff is working with Stewart Engineering Inc. on developing the construction design for Martin Luther King Jr Park. On February 6th the 30% construction plans were presented to the Recreation and Parks Commission and community. Jennifer Wagner, Program Manager will present the 60% construction plans based on information and feedback to date. See attached documents.

FISCAL & STAFF IMPACT: Staff is currently working with Stewart Inc. on the construction drawings for the park. The approved budget is \$150,000.

RECOMMENDATION: Staff recommends that the Board of Aldermen receive the 60% construction design, accept public comment, and adopt the attached resolution.

A RESOLUTION PROVIDING FURTHER DIRECTION ON THE MARTIN LUTHER KING, JR. PARK CONSTRUCTION DESIGN PROJECT

WHEREAS, the Carrboro Board of Aldermen have reviewed the 60% construction design drawings and held a public hearing to receive comment on the proposed design.

NOW, THEREFORE BE IT RESOLVED BY THE CARRBORO BOARD OF ALDERMEN, THAT:

Section 1: Staff and the consultant are authorized to proceed with the current direction of the
plans as presented or to include the following modifications:
1

1.

2.

3.

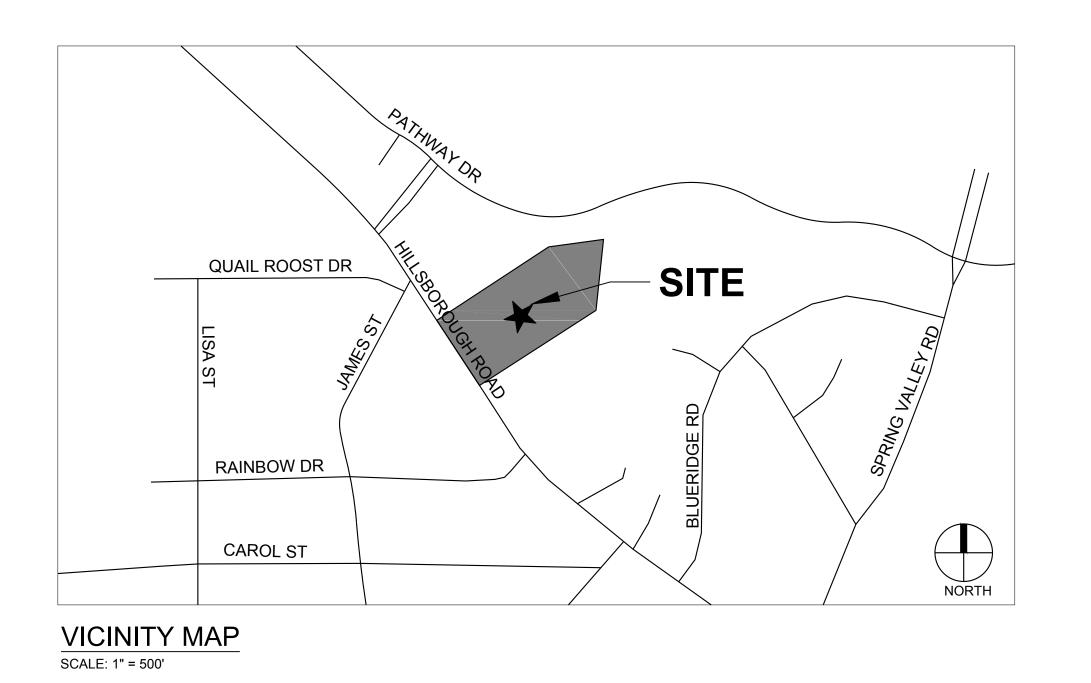
4

Section 2. This resolution becomes effective upon adoption.









MARTIN LUTHER KING, JR PARK

1120 HILLSBOROUGH RD CARRBORO, NC 27516 TOWN OF CARRBORO 60% DESIGN DEVELOPMENT OWNER REVIEW

SUMMARY INFORMATION MARTIN LUTHER KING, JR PARK PROJECT NAME: SITE ADDRESS: 1120 HILLSBOROUGH ROAD COUNTY: PARCEL PIN #: TOWN OF CARRBORO PARCEL OWNER PARCEL AREA: 10.12 Ac 6.26 Ac **CURRENT ZONING:** R-15 **EXISTING LAND USE:** PROPOSED USE: CAPE FEAR ; JORDAN LAKE (UNPROTECTED) RIVER BASIN: CONSTRUCTION TYPE: PARK MAX BUILDING HEIGHT: 35'-0" PROPOSED BUILDING HEIGHT: EXISTING IMPERVIOUS AREA: 10,197 S.F. PROPOSED IMPERVIOUS AREA: 22,053 S.F. OVERALL PARKING SUMMARY REQUIRED PARKING PROVIDED PARKING 30 TOTAL REGULAR 9'X18' SPACES HANDICAP ACCESSIBLE SPACES **BIKE PARKING** UTILITIES IMPROVEMENTS QTY PRIVATE SEWER

SHEET INDEX		
C0.00		
C1.00 EXISTING CONDITIONS PLAN		
C2.00 DEMOLITION PLAN		
C3.00		
C4.00EROSION CONTROL PLAN		
C5.00		
C9.00		
C9.10EROSION CONTROL DETAILS		
L1.00		
L2.00PLANTING DETAILS		



APPLICANT/OWNER

452 LF

403 LF 179 LF

6" SEWER SERVICE

4" WATER MAIN

8" FIRE LINE

PRIVATE WATER



PARKS AND RECREATION 301 WEST MAIN STREET CARRBORO, NC 27510 CONTACT: WENDELL RODGERS WRODGERS@TOWNOFCARRBORO.ORG

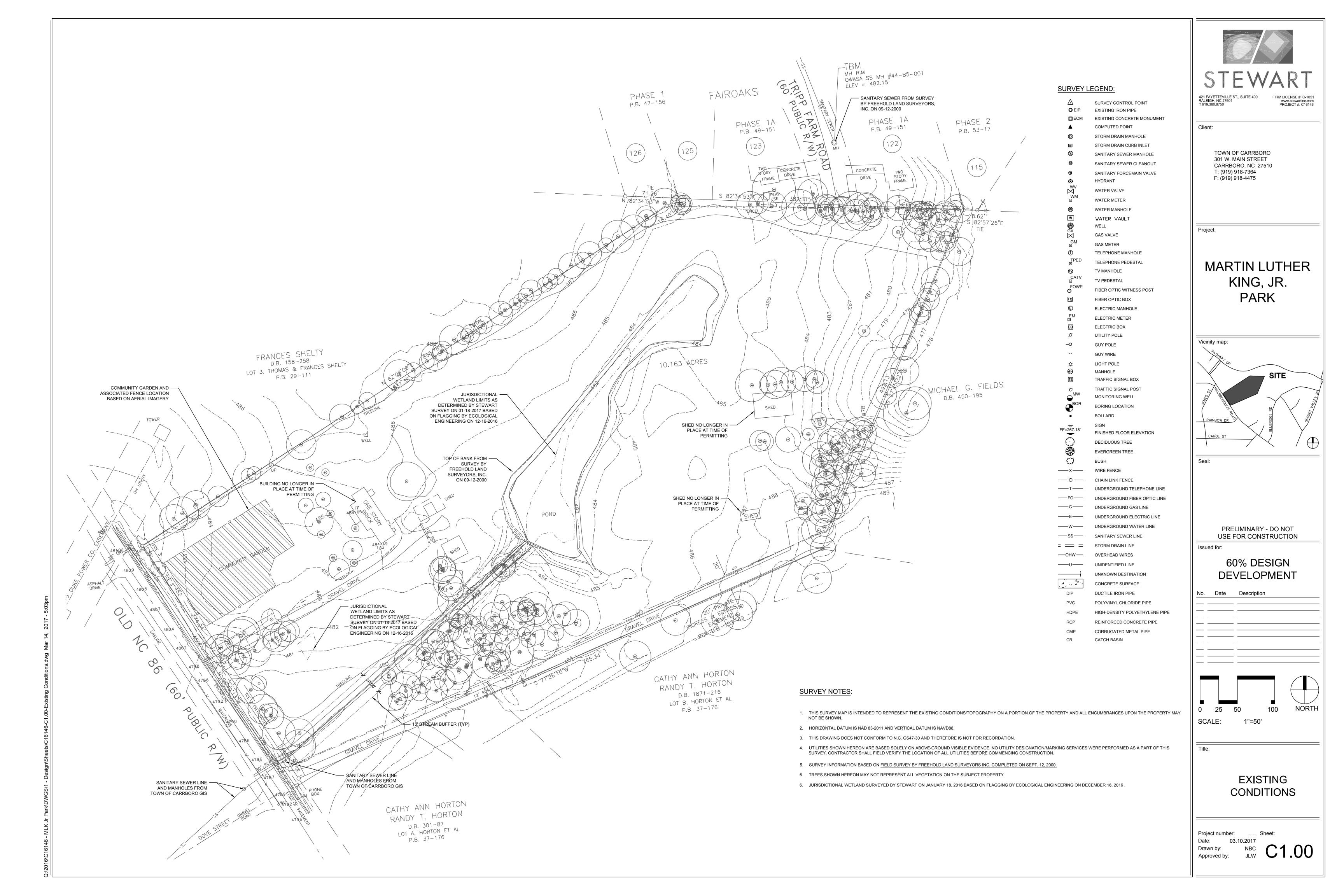
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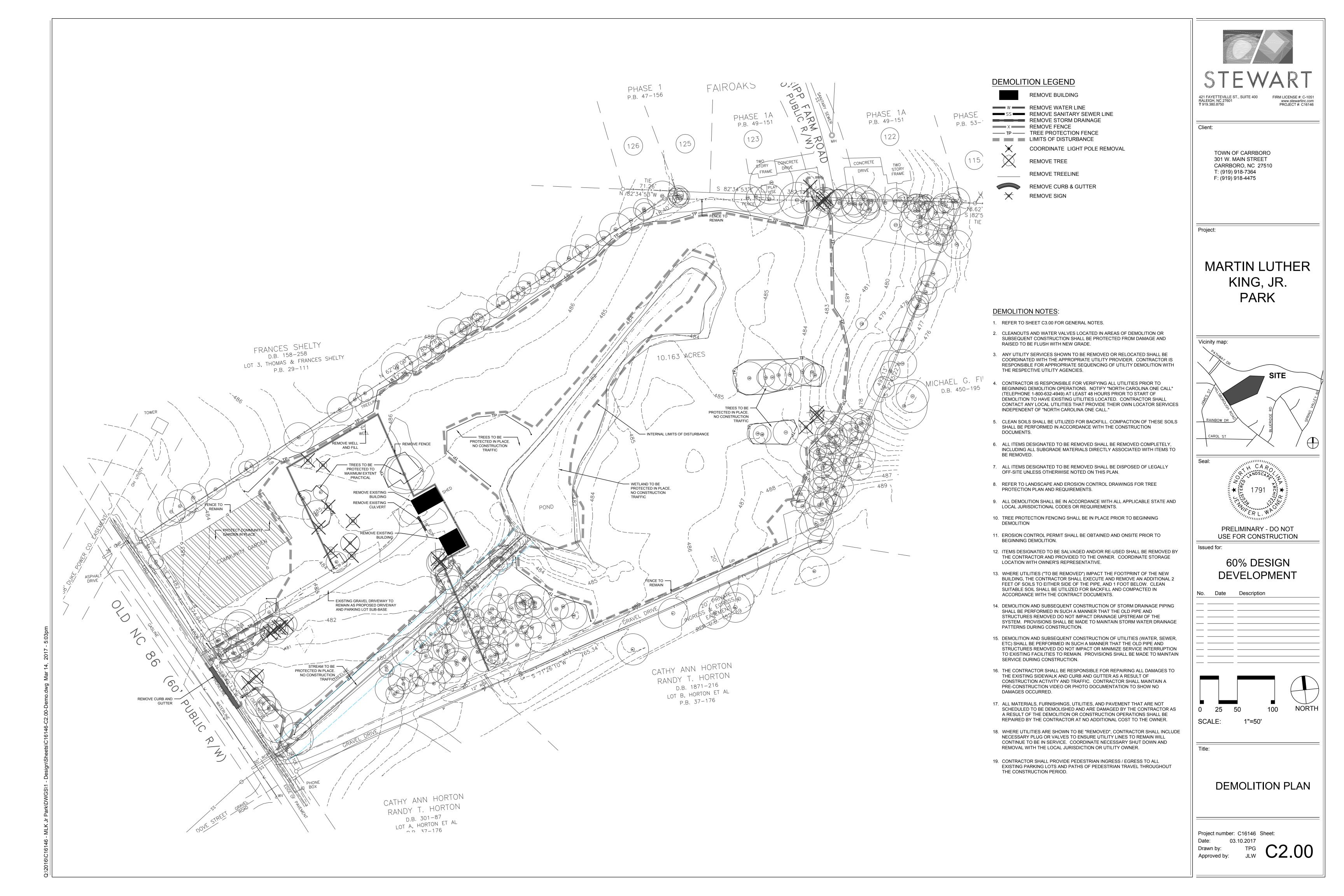


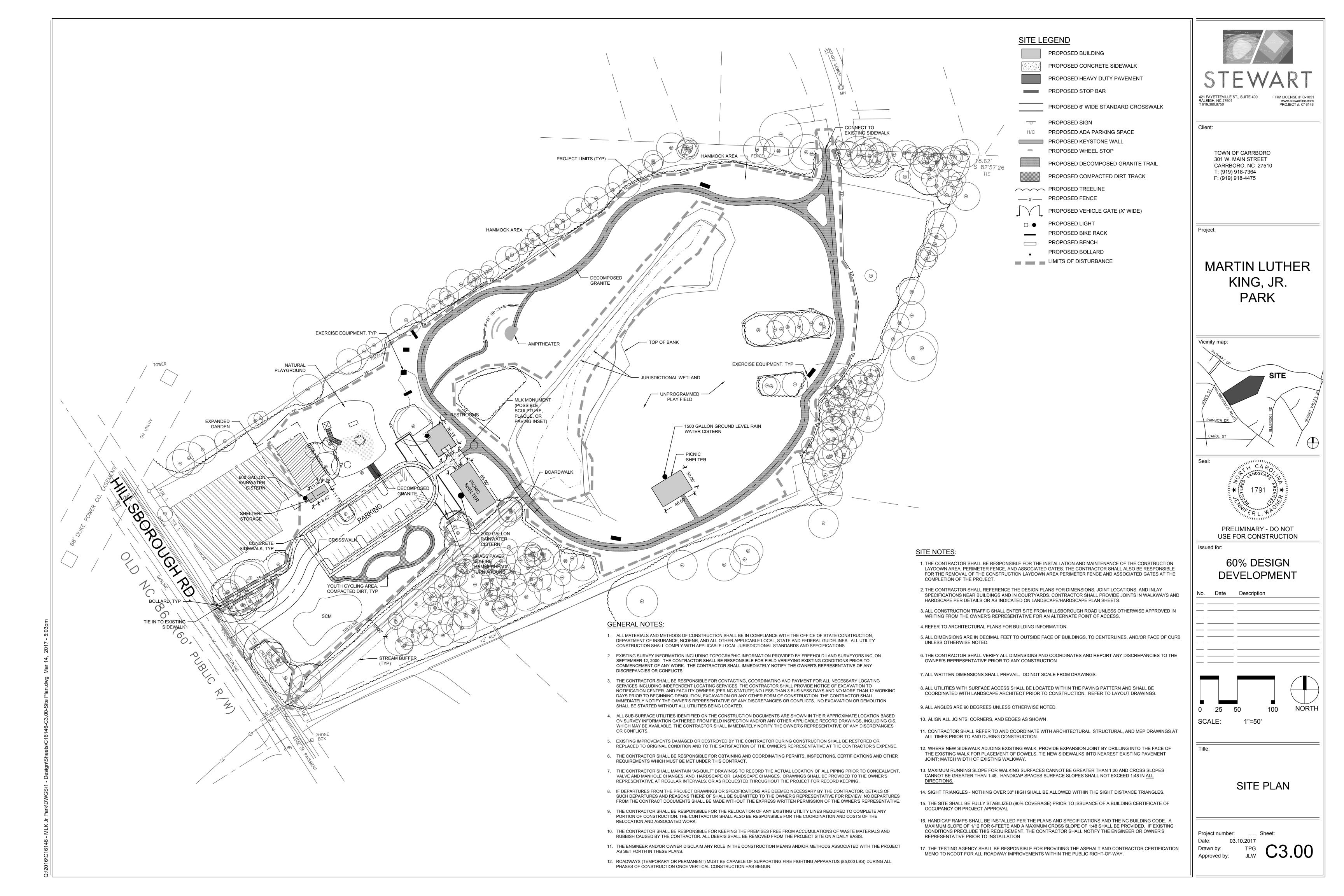
STEWART INC. - CIVIL ENGINEERING CONTACT: JOSEPH PUCKETT, PE CIVIL ENGINEER 919.866.4829 (T) 919.380.8752 (F) JPUCKETT@STEWARTINC.COM

STEWART INC. - LANDSCAPE ARCHITECTURE CONTACT: JENNIFER WAGNER, RLS PROJECT MANAGER 919.866.4739 (T) 919.380.8752 (F) JWAGNER@STEWARTINC.COM

Project number: C16146
Date: 02.27.2017
Drawn by: T. GULL
Designed by: T.GULL
Dovinionos







EROSION CONTROL NOTES:

1. REFER TO C3.00 FOR GENERAL NOTES.

- 2. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED IN BEST LOCATION BASED ON FIELD CONDITIONS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF CONSTRUCTION.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF CONSTRUCTION ENTRANCES AS NECESSARY TO PREVENT THE TRACKING OF SEDIMENT OFF-SITE. THE OWNER IS RESPONSIBLE FOR MAINTENANCE OF ALL PERMANENT EROSION CONTROL METHODS AFTER CONSTRUCTION IS COMPLETE, IF ANY PERMANENT METHODS ARE REQUIRED.
- 5. APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- 6. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR AND ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.

AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.

- 7. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE LIMITS OF DISTURBANCE (L.O.D.) SHALL BE PERMITTED. THE L.O.D. SHALL BE MAINTAINED BY THE ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
- 8. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO
- 9. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO

ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).

- 10. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT. COPIES OF THE WRITTEN INSPECTION REPORTS SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE TWICE PER WEEK AND AFTER RAINS OF GREATER THAN 0.5". RAIN GAUGE REQUIRED ON SITE.
- 11. ANY AREAS OF EXPOSED SOILS THAT WILL NOT BE DISTURBED FOR FOURTEEN DAYS SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
- 12. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN FORTY EIGHT (48) HOURS FOLLOWING A STORM EVENT.
- 13. AT NO TIME SHALL SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- 14. STABILIZED CONSTRUCTION ENTRANCES AND ROADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- 15. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE A MINIMUM THICKNESS OF 2 TO 3 INCHES.
- 16. INTERIM SLOPES MAY BE GRADED TO A MAXIMUM SLOPE OF 2:1 (HORIZONTAL: VERTICAL); CUT SLOPES SHALL BE LIMITED TO A MAXIMUM SLOPE OF 1.5:1.
- 17. THE SURFACE OF AREAS SLOPES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL THAT ARE TO RECEIVE INTERIM FILL SHALL BE PLOWED, FURROWED, TILLED OR BROKEN UP PRIOR TO PLACING FILL SO THAT FILL MATERIAL WILL BOND WITH EXISTING . " SURFACE. INTERIM FILL SHALL BE PLACED AS SPECIFIED FOR PERMANENT FILLS AND IN LIFTS NOT GREATER THAN 6".
- 18. PROVIDE DUST CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, WETTING DOWN TO CONTROL DUST ON SITE, IN ORDER TO PREVENT ANNOYANCE/AND OR DAMAGE TO ADJACENT SITES. CALCIUM CHLORIDE OR ANY OTHER CHEMICAL MATERIAL MAY NOT BE USED ON SUBGRADES OF AREAS TO BE SEEDED OR PLANTED.
- 19. SEDIMENT LADEN RUNOFF FROM EXCAVATIONS SHALL NOT BE PUMPED DIRECTLY TO STORM DRAINAGE.
- 20. INSPECTOR REFERS TO LOCAL JURISDICTIONAL (NCDENR OR LOCAL) LAND QUALITY INSPECTOR OR HIS REPRESENTATIVE. FIELD INSPECTIONS MAY REQUIRE ADDITIONAL SEDIMENTATION AND EROSION CONTROL MEASURES AS DEEMED NECESSARY BY THE
- 21. CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES SHALL CONFORM TO THE STANDARDS SET FORTH IN THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES LAND QUALITY SECTION EROSION AND SEDIMENT CONTROL PLANNING LAND DESIGN MANUAL.
- 22. NOTIFICATION OF LAND RESOURCES SEDIMENT AND EROSION CONTROL SELF-INSPECTION PROGRAM: THE PERSON RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES IS REQUIRED TO INSPECT THE PROJECT AFTER EACH PHASE OF THE PROJECT AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED IN ACCORDANCE WITH NCGS 113A-54.1 AND 15A NCAC 4B.0131 TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. THE SELF-INSPECTION REPORT FORM IS AVAILABLE AS AN EXCEL SPREADSHEET FORM HTTP://WWW.DLR.ENR.STATE.NC.US/PAGES/SEDIMENTATION_NEW.HTML

TREE PROTECTION NOTES:

- 1. TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND DISTURBANCE OR ISSUANCE OF A GRADING PERMIT. OR OBTAIN A GRADING PERMIT THEN TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND
- 2. TREE PROTECTION FENCING SHALL INCLUDE WARNING SIGNS POSTED IN BOTH ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSING/TREE PROTECTION AREA/PROHIBIDO ENTRAR / ZONA PROTECTORA PARA LOS ÁRBOLES."
- PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE LOWERING OF EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE ON THE TREE ROOTS OUTSIDE OF THE TREE SAVE AREA. THIS SHALL OCCUR AT THE SAME TIME THAT OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE.
- 4. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE
- 5. TREE PROTECTION AREA: EQUALS ONE FOOT OF RADIUS FOR EVERY INCH OF DIAMETER OF EXISTING TREES, OR SIX FOOT RADIUS, WHICHEVER IS GREATER. NO DISTURBANCE ALLOWED WITHIN THIS AREA.

SEQUENCE OF CONSTRUCTION ACTIVITIES

- 1. OBTAIN GRADING PERMIT.
- 2. DETERMINE AND MARK LIMITS OF DISTURBANCE.
- 3. A PRECONSTRUCTION CONFERENCE MUST BE HELD 48 HOURS PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES. THE EROSION CONTROL INSPECTOR, ARCHITECT, ENGINEER, AND CONTRACTOR SHALL BE PRESENT TO SATISFY REQUIREMENTS.
- 4. INSTALL CONSTRUCTION ENTRANCE, TREE PROTECTION FENCING, SILT FENCE, PERIMETER EROSION CONTROL DEVICES AND ALL REQUIRED BASINS AND TRAPS.
- 5. SCHEDULE SITE INSPECTION.
- 6. UPON APPROVAL TO PROCEED BY THE EROSION CONTROL INSPECTOR, HARVEST ANY TIMBER.
- 7. CONSTRUCT REMAINING EROSION CONTROL MEASURES AS REQUIRED.
- REMOVE AND/OR STORE TOPSOIL.
- 9. BEGIN GRADING OPERATIONS.
- 10. CLEAN SEDIMENT BASINS/TRAPS WHEN ONE-HALF FULL.
- 11. ALL STREETS SURROUNDING THE PROJECT SHALL BE KEPT CLEAN AT ALL TIMES.
- 12. PLACE TEMPORARY SEEDING ON ALL DISTURBED AREAS THAT WILL BE IDLE 14 DAYS OR LONGER.
- 13. PERMANENT SURFACE STABILIZATION SHALL BE INSTALLED FOR ALL AREAS WITHIN 14 DAYS AFTER FINAL GRADE HAS BEEN REACHED. AS NECESSARY, FERTILIZE, WATER AND RESEED AS REQUIRED TO ESTABLISH AND MAINTAIN A VIGOROUS STAND OF
- 14. AFTER COMPLETION OF CONSTRUCTION AND THE SITE IS STABILIZED, REMOVE ALL ACCUMULATED SEDIMENT FROM SEDIMENT TRAPPING MEASURES AND DISPOSE BY MEANS DEEMED ACCEPTABLE BY THE ENGINEER. SCHEDULE SITE INSPECTION. UPON APPROVAL BY THE EROSION CONTROL INSPECTOR, REMOVE TEMPORARY EROSION CONTROL MEASURES, SMOOTH AREA AND APPLY APPROPRIATE STABILIZATION.
- 15. STORMWATER PERMIT INSPECTION REPORTS SHALL BE PERFORMED BY THE CONTRACTOR UNTIL NOTIFIED OTHERWISE BY THE

- NOTES:

 1. INSPECTOR REFERS TO LOCAL JURISDICTIONAL (NCDENR OR LOCAL) LAND QUALITY INSPECTOR OR HIS REPRESENTATIVE. FIELD INSPECTIONS MAY REQUIRE ADDITIONAL SEDIMENTATION AND EROSION CONTROL MEASURES AS DEEMED NECESSARY BY THE
- CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES SHALL CONFORM TO THE STANDARDS SET FORTH IN THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES LAND QUALITY SECTION EROSION AND SEDIMENT CONTROL PLANNING LAND DESIGN MANUAL.
- 3. NOTIFICATION OF LAND RESOURCES SEDIMENT AND EROSION CONTROL SELF-INSPECTION PROGRAM: THE PERSON RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES IS REQUIRED TO INSPECT THE PROJECT AFTER EACH PHASE OF THE PROJECT AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED IN ACCORDANCE WITH NCGS 113A-54.1 AND 15A NCAC 4B.0131 TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. THE SELF-INSPECTION REPORT FORM IS AVAILABLE AS AN EXCEL SPREADSHEET FORM HTTP://WWW.DLR.ENR.STATE.NC.US/PAGES/SEDIMENTATION_NEW.HTML

TEMPORARY SEEDBED PREPARATION

- 1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL THREE INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
- 2. RIP THE ENTIRE AREA TO SIX INCHES DEEP.
- 3. REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS, LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- 4. APPLY AGRICULTURAL LIME, FERTILIZER AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE ADMIXTURE BELOW).
- 5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED FOUR TO SIX INCHES DEEP.
- 6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
- 7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- 8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
- 9. CONSULT S&EC ENVIRONMENTAL ENGINEERS ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

SEEDBED PREPARATION:

- 1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONED, 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 ALL AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW).
- 5. CONTINUE TILLAGE UNTIL A WELL PULVERIZED, FIRM, REASONABLY UNIFORM 4 TO 6 INCHES DEEP SEEDBED IS PREPARED.
- 6. SEED ON A FRESHLY PREPARED SEED BED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER
- 7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- 8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESENDING WITHIN THE PLANTING SEASON, IF POSSIBLE, IF STAND SHOULD BE OVER 60% DAMAGED , REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
- 9. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESENDING WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 50% DAMAGED , REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES AND LANDSCAPING PLANS.
- 10. SEE LANDSCAPING PLANS FOR PERMANENT SEEDING, MULCHING, AND FERTILIZING RATES. ALL AREAS NOT DESIGNATED TO RECEIVE PLANTS SHALL BE SEEDED PER THE LANDSCAPING PLANS.

ADMIXTURES

AGRICULTURAL LIMESTONE: 2 TONS/ACRE

FERTILIZER: 1,000 LBS/ACRE - 10-10-10

SUPERPHOSPHATE: 500 LBS/ACRE - 20% ANALYSIS

MULCH: 2 TONS/ACRE - SMALL GRAIN STRAW

ANCHOR: ASPHALT EMULSION AT 300 GALS/ACRE

SEEDING SCHEDULE

SHOULDERS, SI	DE DITCHES, SLOPES (Max 3:1)	
DATE	TYPE	PLANTING RATE
AUG 15 - NOV 1	TALL FESCUE	300 LBS/ACRE
NOV 1 - MAR 1	TALL FESCUE	300 LBS/ACRE
	& ABRUZZI RYE	25 LBS/ACRE
MAR 1 - APR 15	TALL FESCUE	300 LBS/ACRE
APR 15 - JUN 30	HULLED COMMON BERMUDAGRASS	25 LBS/ACRE
JUL 1 - AUG 15	TALL FESCUE AND	120 LBS/ACRE
	***BROWNTOP MILLET	35 LBS/ACRE
	***OR SORGHUM-SUDAN HYBRIDS	30 LBS/ACRE

DATE	TYPE	PLANTING RATE
MAR 1 - JUN 1	***BROWNTOP MILLET	50 LBS/ACRE
(MAR 1 - APR 15)	ADD TALL FESCUE	120 LBS/ACRE (MAR 1 - JUN 30)
	OR ADD HULLED COMMON BERMUDAGRASS	25 LBS/ACRE
JUN 1 - SEP 1	***TALL FESCUE AND	120 LBS/ACRE
	***BROWNTOP MILLET	35 LBS/ACRE
	***OR SORGHUM-SUDAN HYBRIDS	30 LBS/ACRE
SEP 1 - MAR 1	ANNUAL RYE	70 LBS/ACRE
	AND TALL FESCUE	120 LBS/ACRE (NOV 1 - MAR 1)
	ADD ABRUZZI RYE	25 LBS/ACRE `

CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

***TEMPORARY - RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12" IN HEIGHT BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.

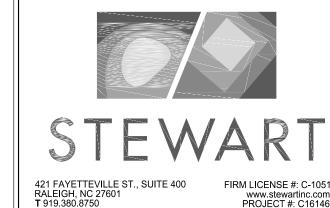
SEDIMENTATION BASIN SIZING

		BASIN GEOMOETRY								OUTLET SKIMMER CHARACTERISITCS			SURFACE AREA (SF)		VOLUME (CF)				
BASIN ID	ВОТ	ТОМ	T	OP	SUR	FACE	DAM	SIDE	STORAGE	STONE	SIDE	SKIIVIIVIE	K CHAKACI	IERISTICS	SURFACE	AREA (SF)	VOLUN	IE (CF)	DEWATERING
	WIDTH	LENGTH	WIDTH	LENGTH	WIDTH	LENGTH	HEIGHT	SLOPES	DEPTH	WIDTH	SLOPES	SIZE	HEAD	ORIFICE	REQUIRED	PROVIDED	REQUIRED	PROVIDED	TIME
															2000.00				100
Sed Basin 1	13.0 ft	38.0 ft	31.0 ft	56.0 ft	25.0 ft	50.0 ft	4.5 ft	2:1	3.0 ft	4.0 ft	2:1	3.0 in	0.3 ft	1.00 in	958	2,207.00	2,196.00	2,202.00	2 days
Sed Basin 2	13.0 ft	38.0 ft	31.0 ft	56.0 ft	25.0 ft	50.0 ft	4.5 ft	2:1	3.0 ft	4.0 ft	2:1	3.0 in	0.3 ft	0.75 in	864	1,250.00	1,980.00	2,616.00	4 days

DIVERSION DITCH SIZING

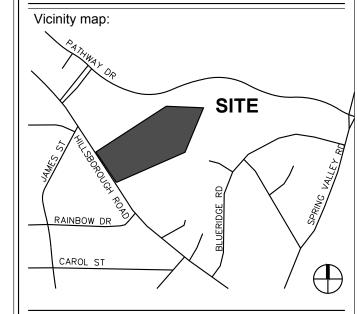
				Top Width		Channel	
Channel	Bottom Wi	dth (Y)	Sideslope (M)	(W)	Lining	Depth (FT)	Velocity
DD-01	0.00	FT	2 :1	4 FT	STRAW SINGLE NET BLANKET	0.65 FT	4.31 FT/S
DD-02	0.00	FT	2 :1	4 FT	STRAW SINGLE NET BLANKET	0.7 FT	4.42 FT/S
DD-03	0.00	FT	2 :1	4 FT	STRAW SINGLE NET BLANKET	0.65 FT	2.97 FT/S
DD-04	0.00	FT	2 :1	4 FT	STRAW SINGLE NET BLANKET	0.45 FT	3.29 FT/S

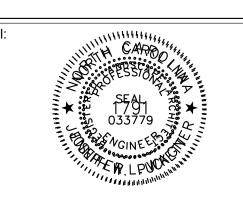
TOTAL AREA OF DISTURBANCE 5.86 AC



TOWN OF CARRBORO 301 W. MAIN STREET CARRBORO, NC 27510 T: (919) 918-7364 F: (919) 918-4475

MARTIN LUTHER





PRELIMINARY - DO NOT USE FOR CONSTRUCTION Issued for:

> 60% DESIGN DEVELOPMENT

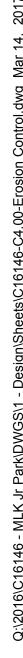
No. Date Description

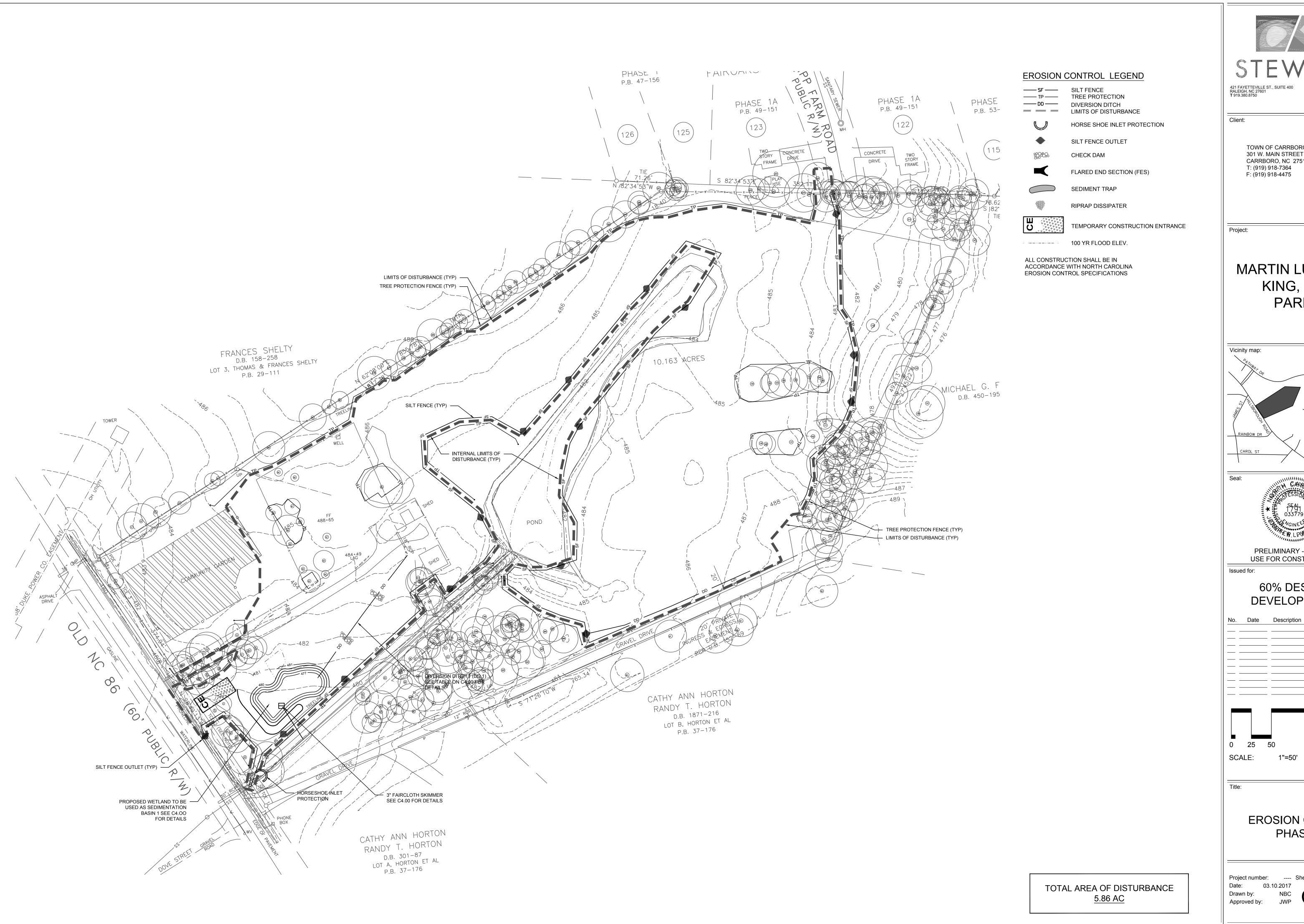
SCALE: N.T.S.

EROSION CONTROL NOTES

Project number:

Drawn by:



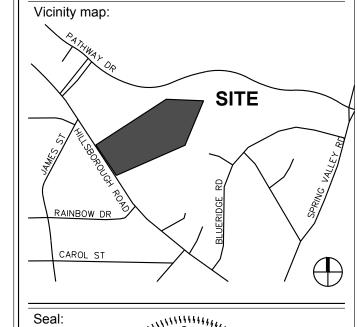




TOWN OF CARRBORO 301 W. MAIN STREET CARRBORO, NC 27510 T: (919) 918-7364 F: (919) 918-4475

Project:

MARTIN LUTHER KING, JR. PARK





PRELIMINARY - DO NOT USE FOR CONSTRUCTION

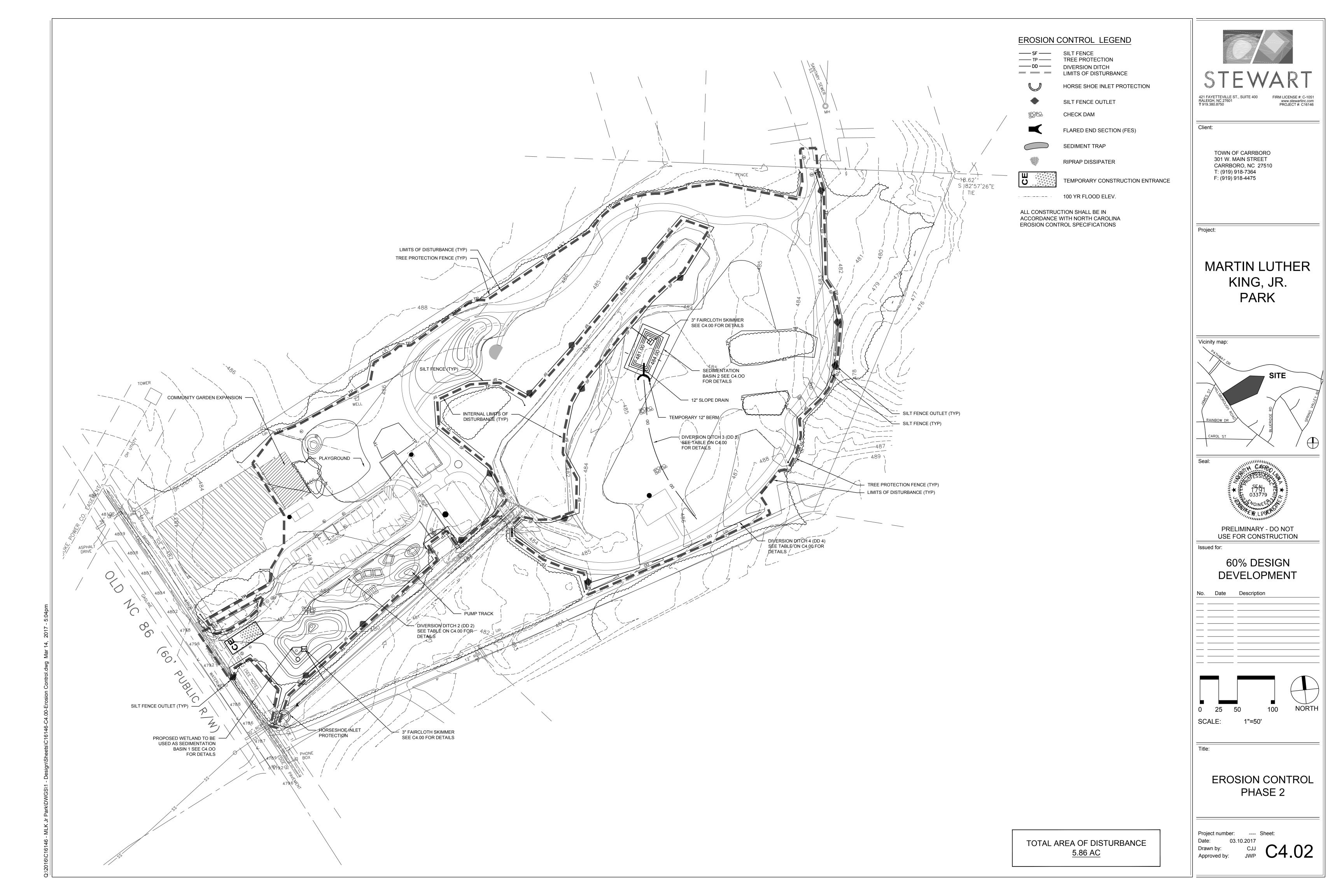
60% DESIGN **DEVELOPMENT**

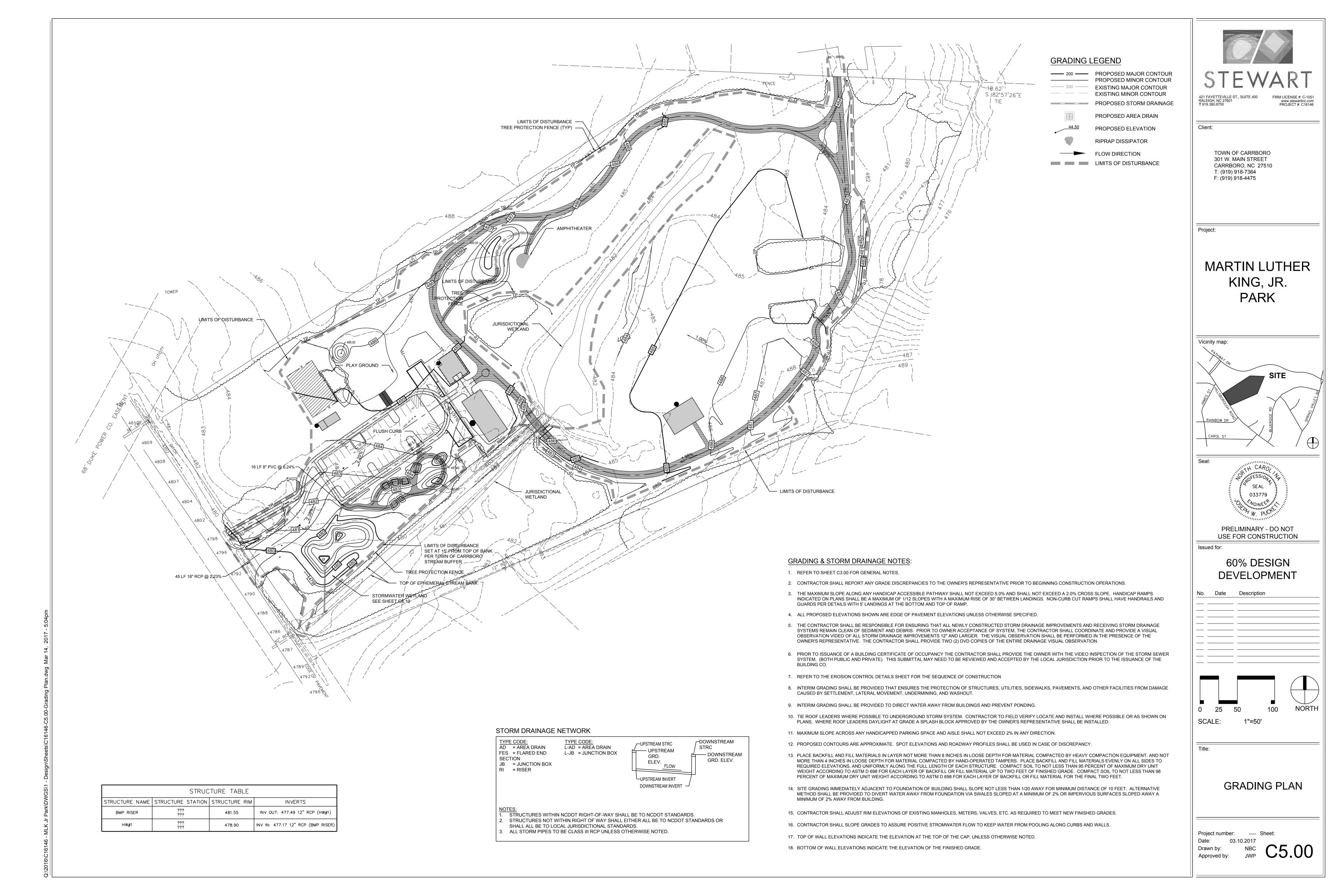


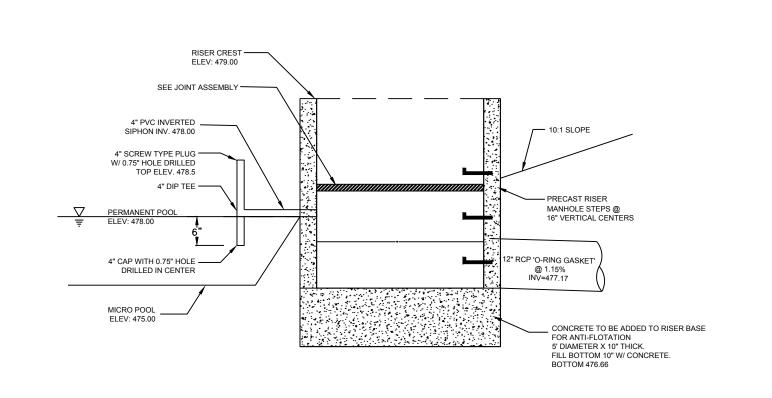
SCALE:

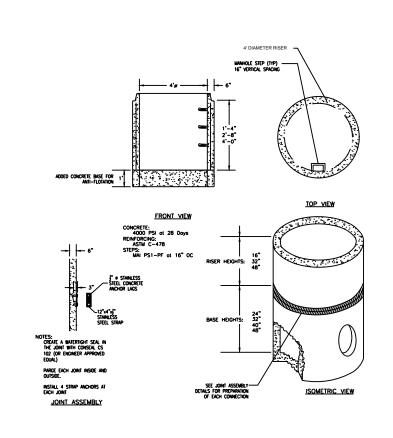
EROSION CONTRL PHASE 1

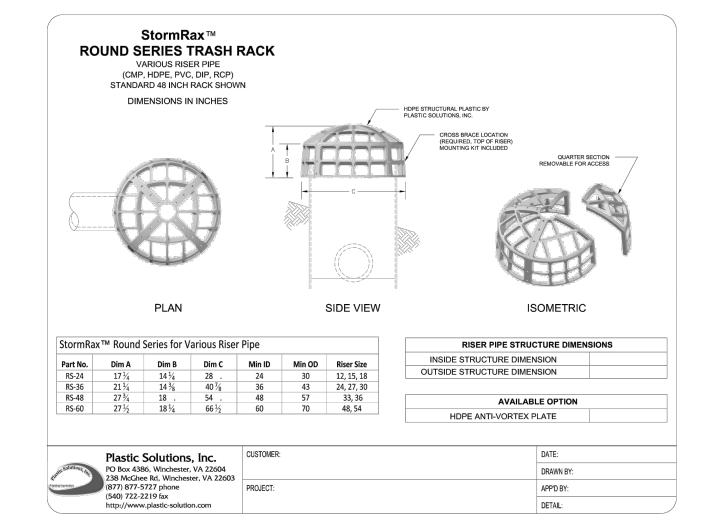
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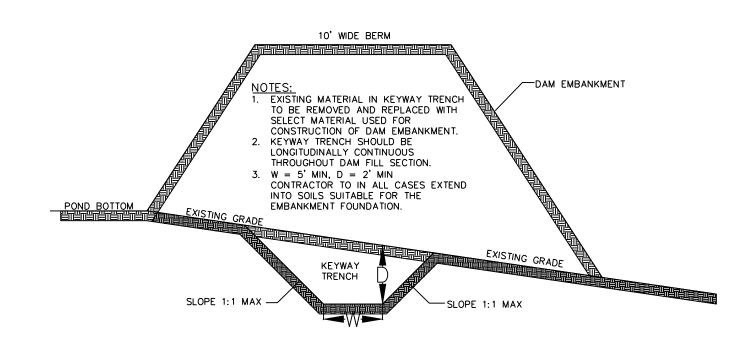


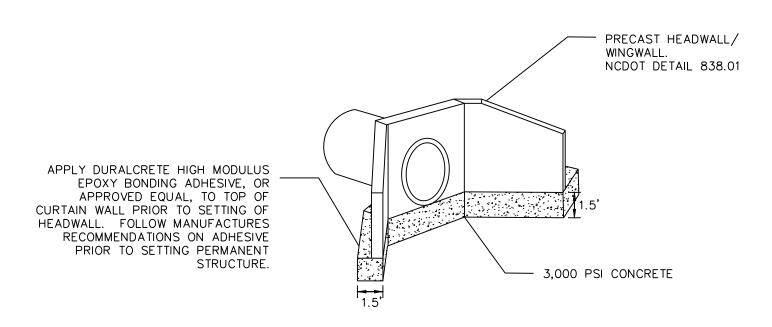










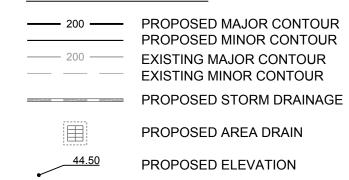




1 RISER DETAIL I
C5.11 SCALE: N.T.S.



GRADING LEGEND



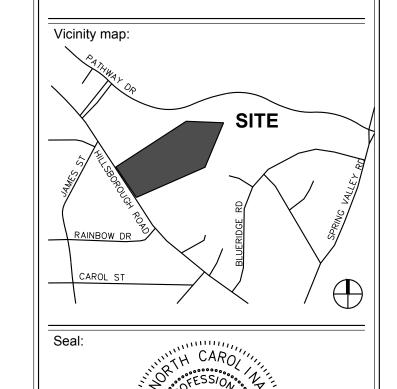
RIPRAP DISSIPATOR

FLOW DIRECTION LIMITS OF DISTURBANCE

421 FAYETTEVILLE ST., SUITE 400 RALEIGH, NC 27601 T 919.380.8750 FIRM LICENSE #: C-1051 Client: TOWN OF CARRBORO 301 W. MAIN STREET CARRBORO, NC 27510 T: (919) 918-7364 F: (919) 918-4475

Project:

MARTIN LUTHER KING, JR. PARK

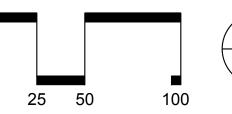


PRELIMINARY - DO NOT USE FOR CONSTRUCTION

Issued for:

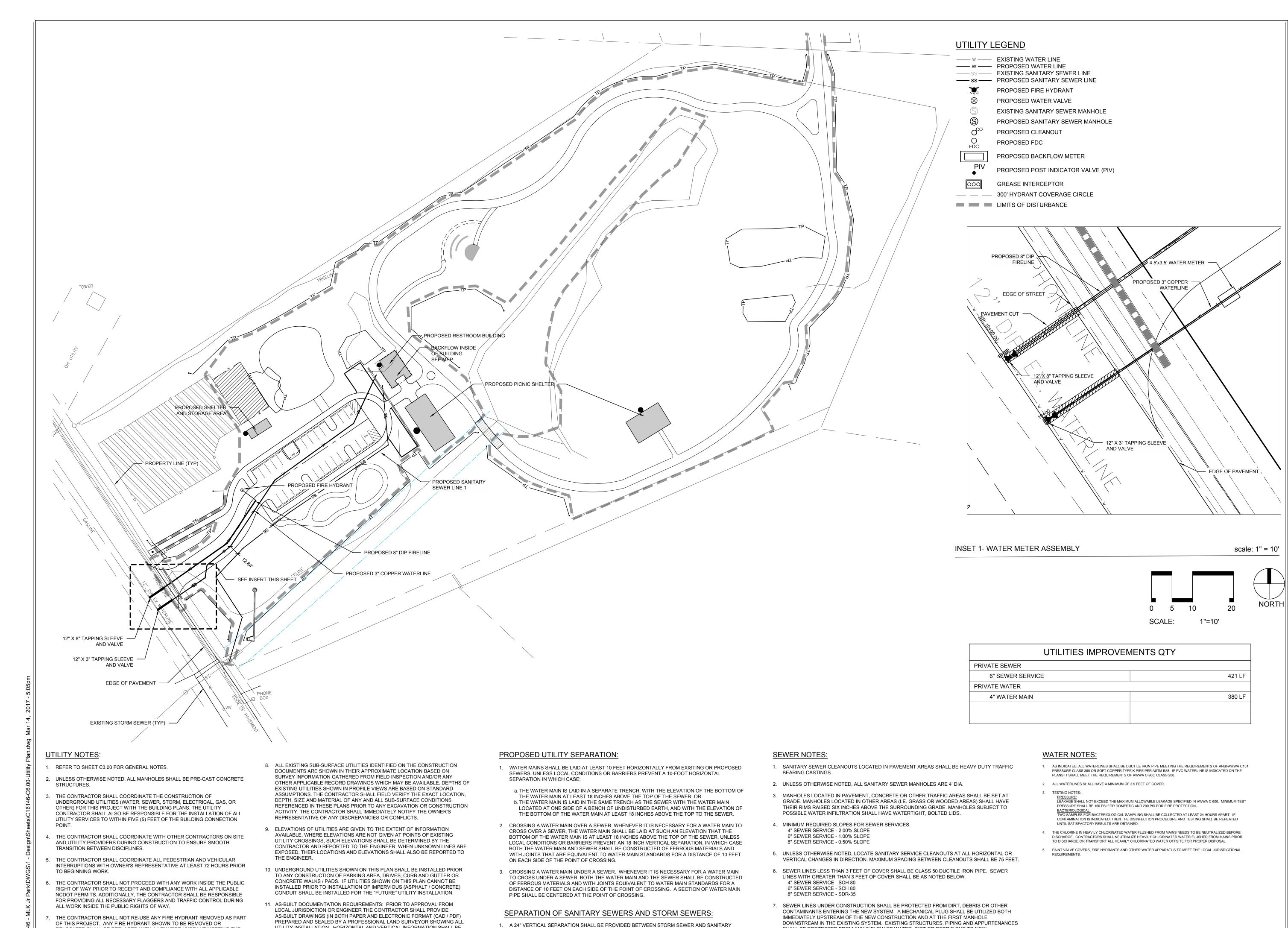
60% DESIGN DEVELOPMENT

No. Date Description



SCALE: 1"=50'

SCM DETAILS



SEWER LINES OR BOTH THE SANITARY AND THE STORM LINES SHALL BE CONSTRUCTED OF

FERROUS MATERIALS.

SHALL BE PROTECTED FROM ANY INFLOW OF WATER, DIRT OR DEBRIS DUE TO NEW

8. ALL MANHOLES COVERS SHALL BE PAINTED TO LOCAL JURISDICTIONAL REQUIREMENTS.

TO REMOVE DEBRIS AND PLUG PRIOR TO OCCUPANCY.

CONSTRUCTION CONNECTING TO OR IN THE VICINITY OF THE EXISTING SYSTEM. CONTRACTOR

UTILITY INSTALLATION. HORIZONTAL AND VERTICAL INFORMATION SHALL BE

HYDRANTS, AND OTHER APPURTENANCES.

PROVIDED FOR WATER, SEWER, STORM INCLUDING ALL STRUCTURES, VALVES,

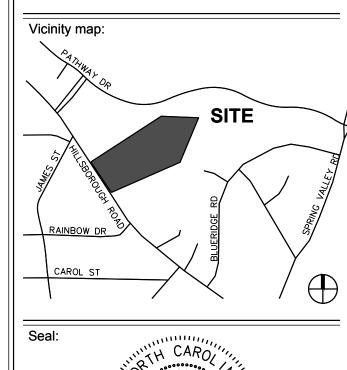
RELOCATED SHALL BE REPLACED WITH A NEW FIRE HYDRANT MEETING THE

LOCAL JURISDICTIONAL REQUIREMENTS AND STANDARDS.

STEWART www.stewartinc.com PROJECT #: C16146

> TOWN OF CARRBORO 301 W. MAIN STREET CARRBORO, NC 27510 T: (919) 918-7364 F: (919) 918-4475

MARTIN LUTHER KING, JR. **PARK**



PRELIMINARY - DO NOT

USE FOR CONSTRUCTION Issued for:

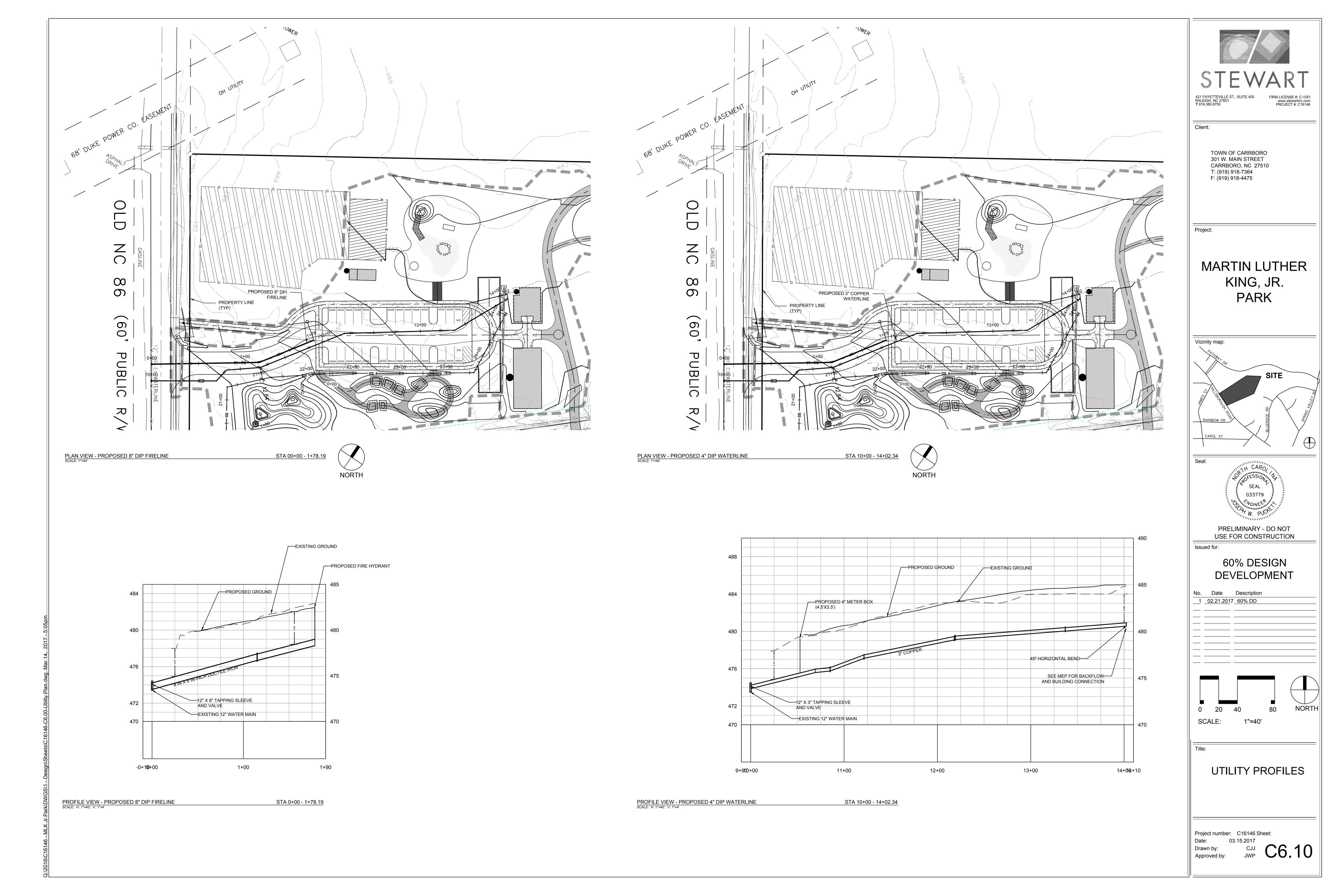
> 60% DESIGN **DEVELOPMENT**

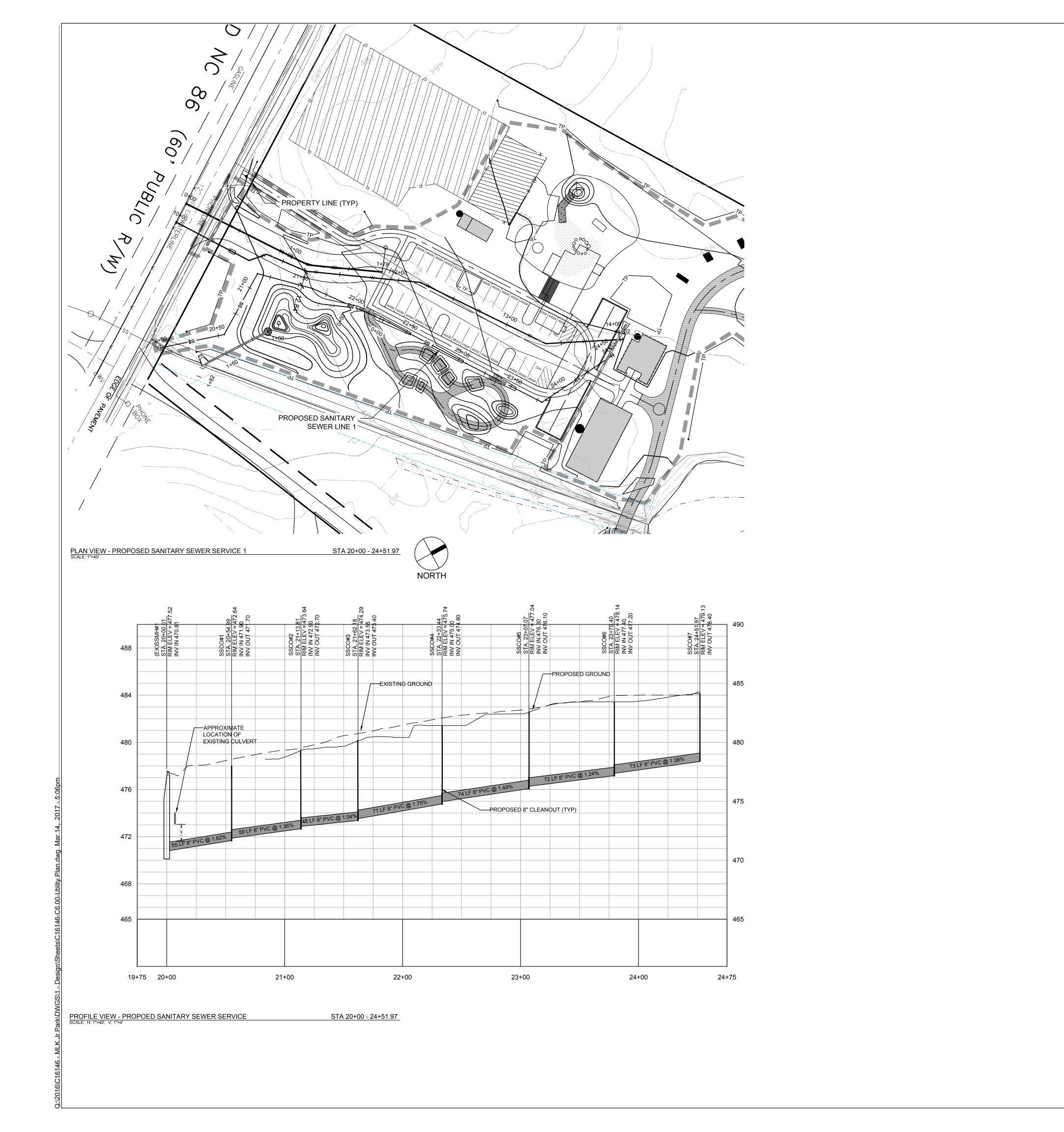
No.	Date	Description	
1	02.21.2017	60% DD	
	·		
—			

0 25 100

UTILITY PLAN

Project number: C16146 Sheet:





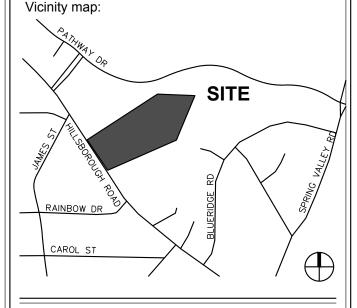


Client:

TOWN OF CARRBORO 301 W. MAIN STREET CARRBORO, NC 27510 T: (919) 918-7364 F: (919) 918-4475

Project:

MARTIN LUTHER KING, JR. PARK



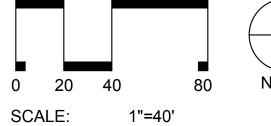
PRELIMINARY - DO NOT USE FOR CONSTRUCTION

lesued for:

No. Date Description

60% DESIGN DEVELOPMENT

1 02.21.2017 60% DD



Title:

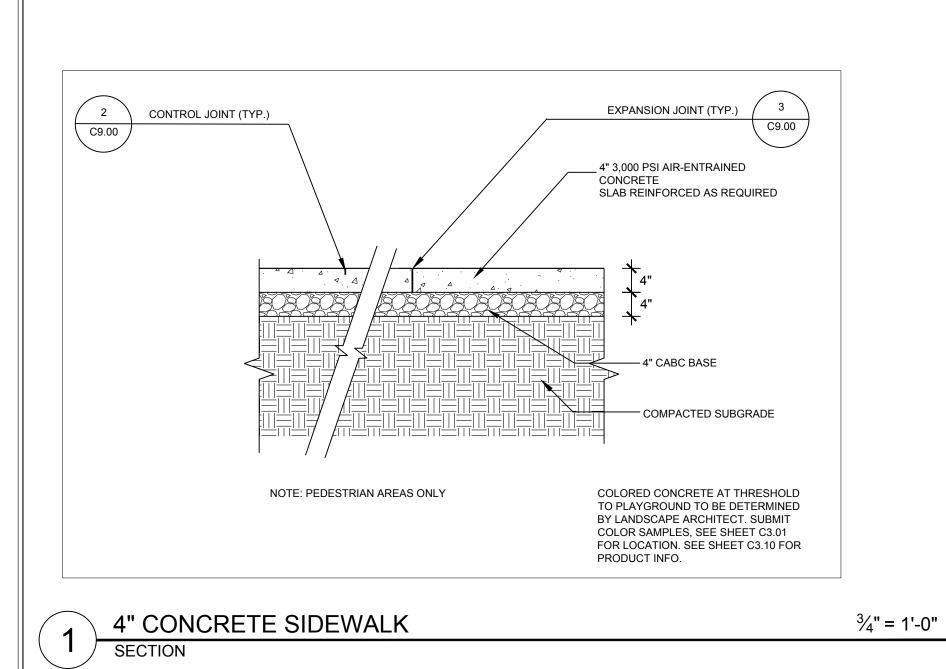
UTILITY PROFILES

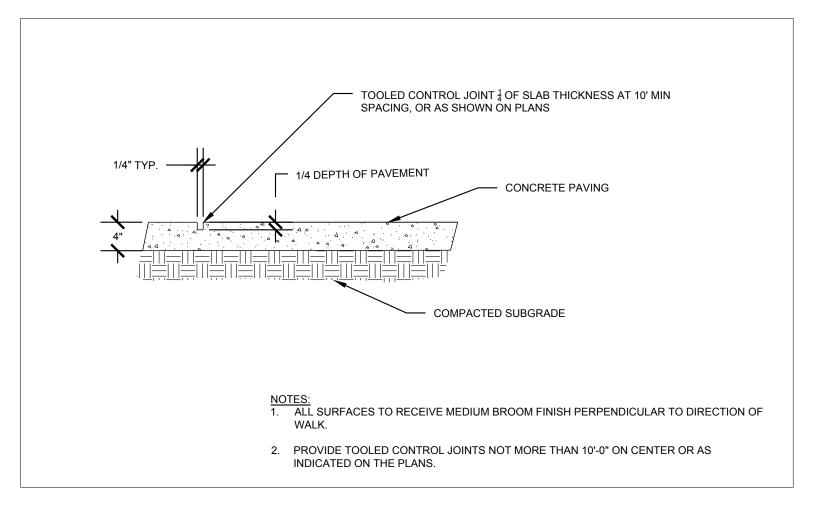
Project number: C16146 Sheet:

Date: 03.15.2017

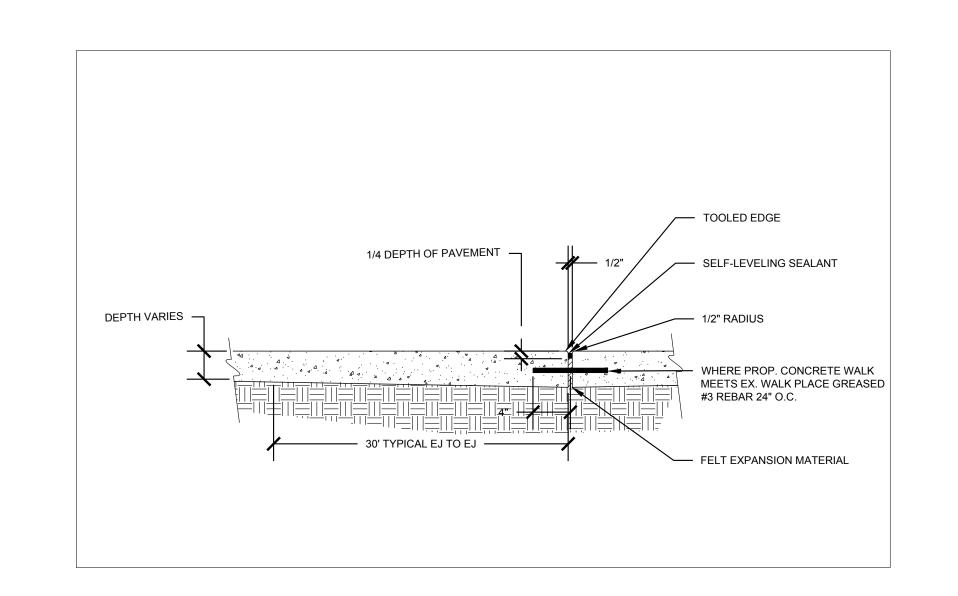
Drawn by: CJJ

Approved by: JWP



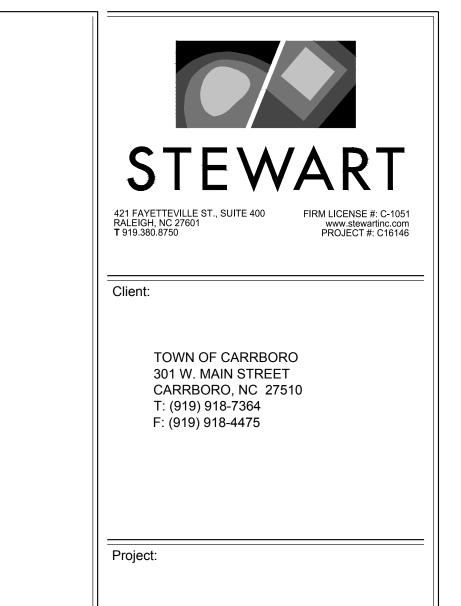


CONTROL JOINT - SIDEWALK



EXPANSION JOINT - SIDEWALK

ENGINEERED WOOD FIBER SURFACING



MARTIN LUTHER KING, JR. PARK

Vicinity map:

4" CONCRETE 4" AGGREGATE - COURSE BASE COMPACTED SUBGRADE TO 95% STANDARD PROCTOR

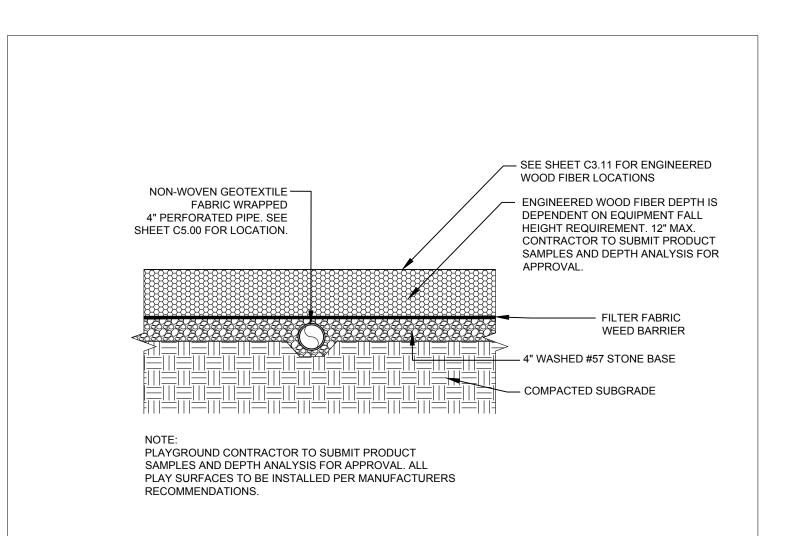
NOTE: PORTLAND CEMENT

STRENGTH OF 4000 PSI

CONCRETE TO HAVE A 28 DAY

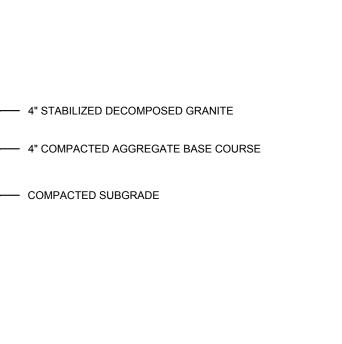
³/₄" = 1'-0"

6



Seal: PRELIMINARY - DO NOT **USE FOR CONSTRUCTION** Issued for:

60% DESIGN **DEVELOPMENT**



SURFACE COURSE

— COMPACTED ABC

PREPARED SUBGRADE

³/₄" = 1'-0"

³/₄" = 1'-0"

SURFACE INTERMDEIATE STONE

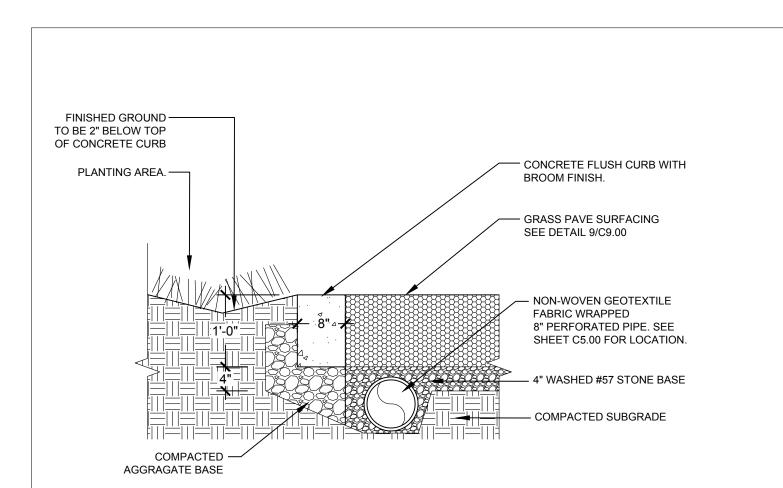
 PAVEMENT TYPE
 S9.5B
 I19.0B
 ABC

 STND. DUTY
 3"
 - 6"

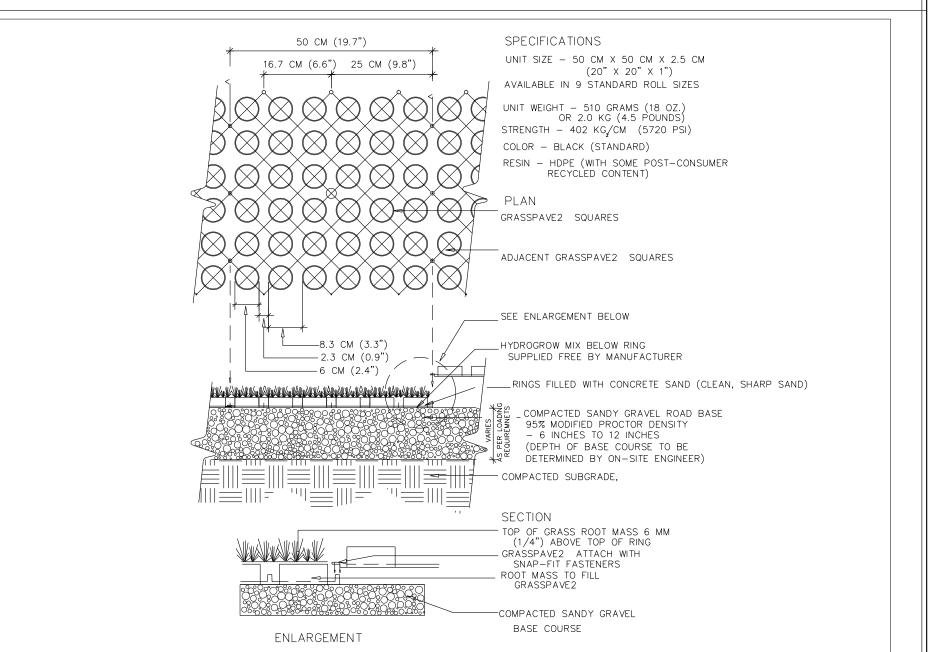
 HVY. DUTY
 2"
 2.5"
 8"

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH STABILIZER MANUFACTURER'S SPECIFICATIONS.

· INTERMEDIATE COURSE



EDGING - SIDEWALK TO ASPHALT



SITE DETAILS

Drawn by:

DECOMPOSED GRANITE PATH WITH STABILIZER

ASPHALT PAVING

CIP FLUSH CURB

³/₄" = 1'-0"

GRASS PAVE

³/₄" = 1'-0" No. Date Description

Title:

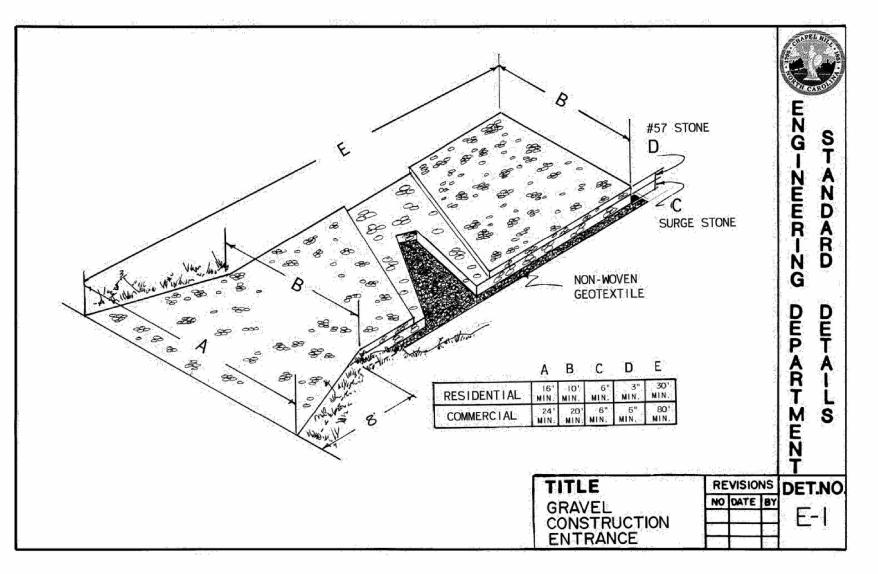
NTS

³/₄" = 1'-0"

NTS

Project number: C14020 Sheet:

Approved by:



SILT FENCE OUTLET

NTS

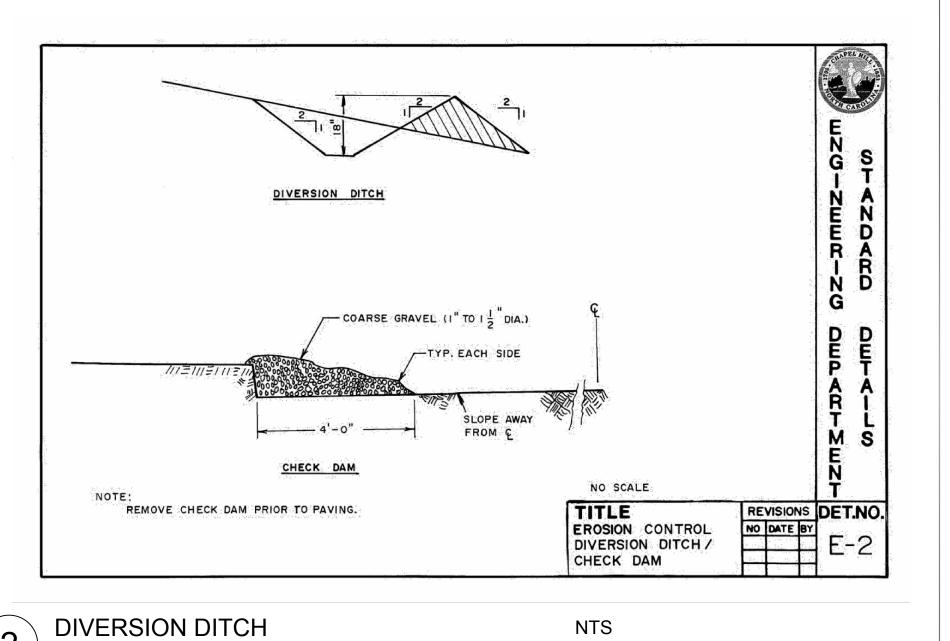
NOTE: USE SILT FENCE OUTLETS ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND THERE IS A LOW AREA. USE AS A REPAIR OF SILT FENCE FAILURES.

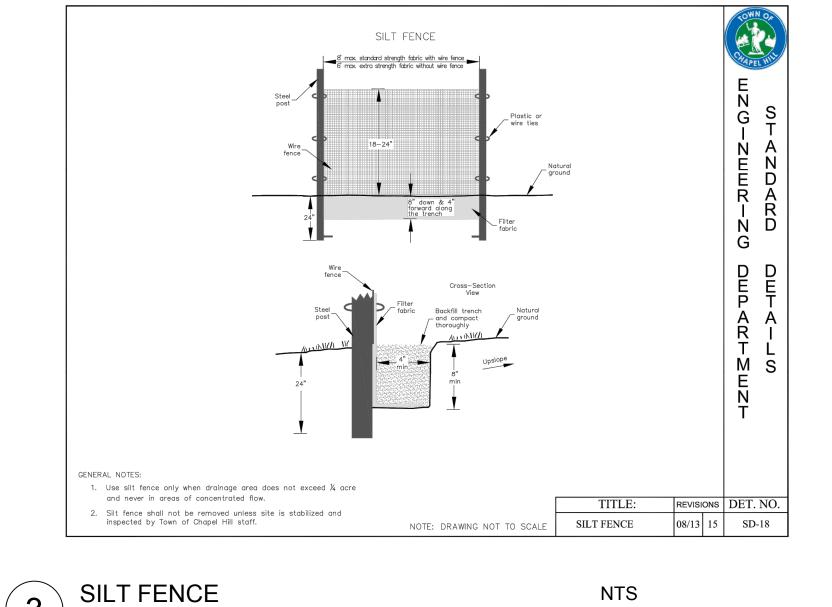
CONSTRUCTION ENTRANCE

HARDWARE CLOTH

Side View

SILT FENCE OUTLET
SECTION





-FILTER BERM SILT FENCE TIED

TYPICAL SECTION - UNREINFORCED NO SCALE TITLE

EROSION CONTROLSEDIMENT TRAP

REVISIONS DET.NO.

NO DATE BY

E-3 TYPICAL SECTION - REINFORCED

3/8" = 1'-0"

NOTE: DRAWING NOT TO SCALE SILT FENCE OUTLET 08/13 15 SD-19 NTS

SEDIMENT TRAP

MARTIN LUTHER

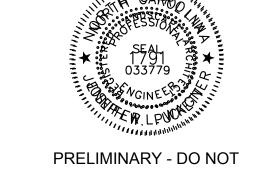
KING, JR.

PARK

TOWN OF CARRBORO 301 W. MAIN STREET

CARRBORO, NC 27510 T: (919) 918-7364

F: (919) 918-4475



USE FOR CONSTRUCTION

Seal:

Issued for:

60% DESIGN DEVELOPMENT

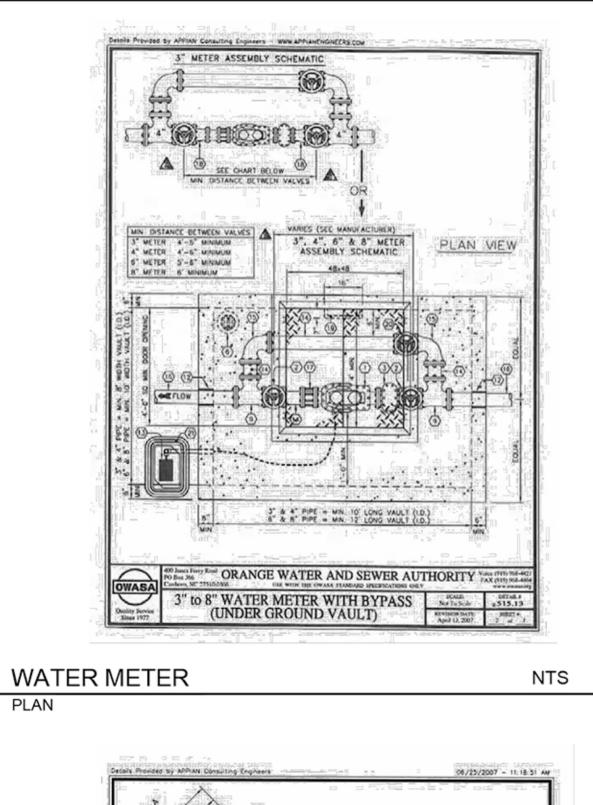
Ю.	Date	Description
_		
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SCALE: N.T.S.

EROSION CONTROL

DETAILS

Project number: C16146 Sheet: cjj C9.10



FOR ALL BEND FITTINGS

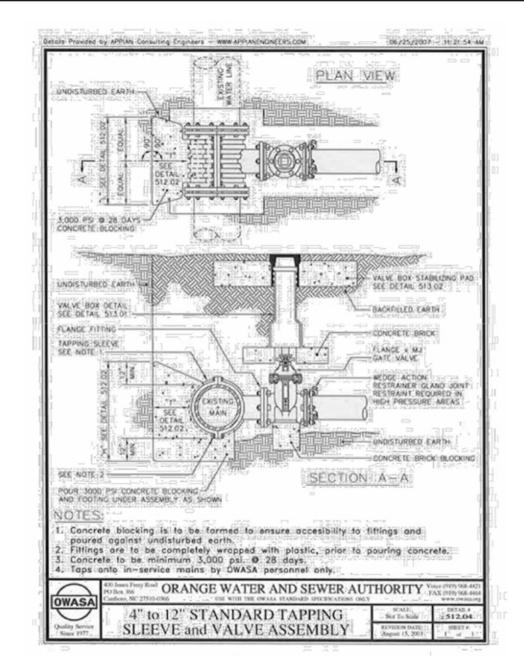
 Concrete blocking is to be formed to ensure accessibility to fittings and poured against undisturbed earth.
 Fittings are to be completely wrapped with plastic, prior to pouring concrete.
 Concrete to be minimum 3,000 psi. © 28 days. ors Ferry Road ORANGE WATER AND SEWER AUTHORITY BLOCKING DETAIL for HORIZONTAL BENDS AND TEE

BLOCKING

Details Provided by APPIAN Consulting Engineers - WWW.APPIANENCINEERS.COM - 06/25/2007 - 12 12 35 PM Foundation stone shall be required when soil conditions are unsuitable.
 An additional 1 inch depth of cushioning material will be required for each additional 2 feel of french depth in excess of 16 feet up to a maximum of 12 inches of cushioning material. ORANGE WATER AND SEWER AUTHORITY FAX (SANITARY SEWER

SANITARY SEWER BEDDING NTS

BEDDING DETAIL



TAPPING SLEEVE AND VALVE

NTS

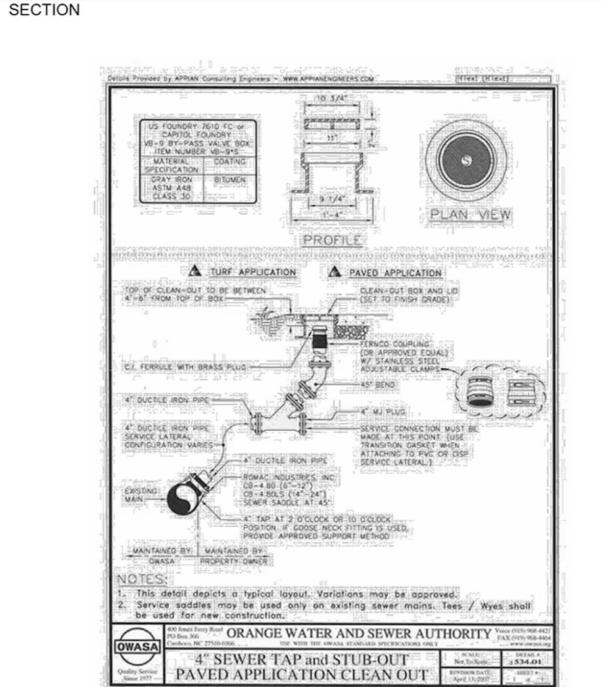
- 4 MIN OR AS SHOWN ON PLANS 2 MIN SHOULDER MECHANICAL JOINT TEE & WAIN TYPICAL EYE BOLT 1. Wedge action restrainer gland joint restraints are preferred, and may be used with the rods.
2. Hydrants to be placed with pumper nazzle tacing the street or as otherwise directed by OWASA.
3. When valve box is placed outside of pavement, provide concrete stabilization pad. (detail 513.02).
4. Minimum of (2) 3/4" diameter rods w/standard coating.
5. Where hydrant is set behind guardrait, centerline of pumper nazzle to be a minimum of 12" and a maximum of 18 above top of guardrait.
6. Fire hydrant to be alled & greased and cap to be sprayed (Non-petroleum — based) after installation.

FIRE HYDRANT NTS

or orange water and sewer authority "

TYPICAL FIRE HYDRANT

STREETS with BAR DITCH_

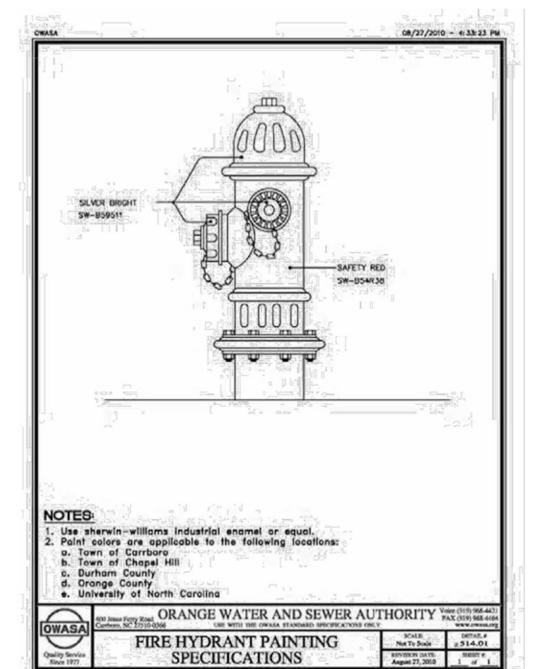


CLEANOUT

DIE Provided by APPIAN Consusing Engineers - WWW.APPIANENGINEERS COM 1. If 42" bury depth is not maintained or located in high pressure zone, a minimum of (2) 3/4" die, rods to be used for pipe thru 24" die, per joint - a minimum of (2) 1" die, rods to be used for pipe 30" & 36" die, per joint - a minimum of (2) 1 1/4" die, rods to be used for pipe 42" & 48" die, per joint (2) 1 1/4" die, rods to be used for pipe 42" & 48" die, per joint IN ORANGE WATER AND SEWER AUTHORITY STANDARD VERTICAL BEND DETAIL

WATERLINE BEND

NTS



FIREHYDRANT PAINT

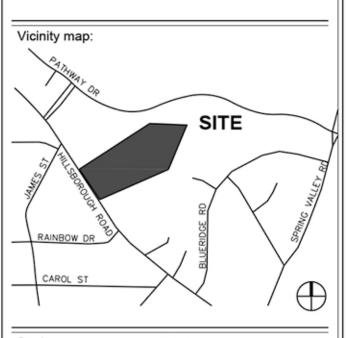
NTS

STEWART

TOWN OF CARRBORO 301 W. MAIN STREET CARRBORO, NC 27510 T: (919) 918-7364 F: (919) 918-4475

Project:

MARTIN LUTHER KING, JR. **PARK**





Issued for:

60% DESIGN **DEVELOPMENT**

No.	Date	Description
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SCALE: N.T.S.

UTILITY DETAILS

Project number: C16146 Sheet: 03.03.2017 cJJ C9.30 Drawn by: Approved by:

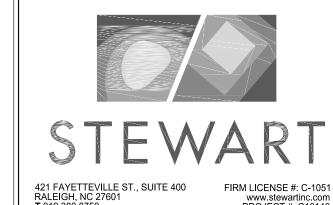
NTS

NTS



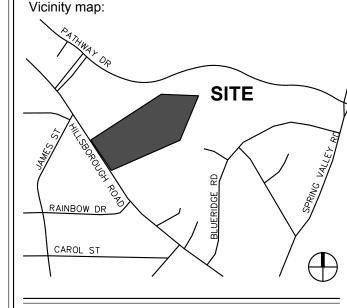
LANDSCAPING NOTES:

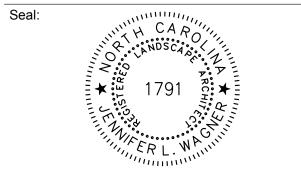
- 1. VERIFY ALL QUANTITIES AND REPORT ANY DISCREPANCIES OR INACCURACIES IN THE PLANS TO THE OWNER'S REPRESENTATIVE
- 2. LANDSCAPE WORK SHALL INCLUDE THE FURNISHING, INSTALLATION, AND WARRANTY OF ALL PLANTING MATERIALS WITHIN THE PROJECT AREA.
- 3. THE LANDSCAPE CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL EXISTING AND NEW UNDERGROUND UTILITIES PRIOR TO EXCAVATION FOR PLANTING. DAMAGES TO UTILITIES CAUSED BY
- 4. LANDSCAPING SHALL REMAIN CLEAR FROM ANY FIRE HYDRANTS
- 5. ALL TREES TO BE A MINIMUM OF 2" IN CALIPER AND MUST MEET THE AMERICAN STANDARD FOR NURSERY STOCK.
- 6. TREE PROTECTION NOTE: TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND DISTURBANCE OR ISSUANCE OF A GRADING PERMIT AND SHALL INCLUDE WARNING SIGNS POSTED IN BOTH ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSING/TREE PROTECTION AREA/PROHIBIDO ENTRAR / ZONA PROTECTORA PARA LOS ÁRBOLES."
- PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE LOWERING OF EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA.
- ROOT ZONE PROTECTION AREA: VARIES BASED ON LOCAL JURISDICTION HAVING AUTHORITY. CONTRACTOR SHALL COMPLY WITH LOCAL JURISDICTIONAL REQUIREMENTS. NO DISTURBANCE ALLOWED WITHIN THIS AREA. AREA MUST BE PROTECTED WITH BOTH TREE PROTECTION FENCING AND WARNING SIGNS.
- SEED BED PREPARATION: ALL AREAS TO BE SEEDED ARE TO BE RECEIVE A MINIMUM OF 2" OF APPROVED TOPSOIL. ALL DEBRIS, ROCKS, ETC. LARGER THAN .5" ARE TO BE REMOVED. ALL LARGE CONCENTRATIONS OF GRAVEL & DEBRIS REGARDLESS OF SIZE ARE TO BE REMOVED PRIOR TO SEEDING OR PLANTING.
- 10. ALL PLANT BED AREAS ARE TO RECEIVE A MINIMUM OF 6" OF
- 11. SOIL SHOULD BE TESTED AND AMENDED WITH LIME AND FERTILIZER FOR HARDWOOD TREES ACCORDING TO NCDA PROCEDURES. SCARIFY PLANT PIT WALLS. CONSULT LANDSCAPE ARCHITECT FOR ALTERNATE COMPLIANCE.
- 12. SHREDDED HARDWOOD MULCH 3" DEEP EXCEPT AT CROWN OF PLANT UNLESS OTHERWISE NOTED. FLARE AT CROWN SHOULD BE REVEALED. BACKFILL CONSISTS OF THOROUGHLY BROKEN UP NATIVE SOIL. TOTAL VOLUME OF BACKFILL SHOULD BE AMENDED WITH UP TO ONE THIRD PINE BARK MULCH. PIECES SHOULD BE NO LARGER THAN WHAT PASSES THROUGH A ONE INCH SCREEN. IF ADDITIONAL SOIL IS REQUIRED FOR BACKFILL DUE TO DETRIMENTAL SUBSOIL DRAINAGE CONDITIONS, USE SOIL SIMILAR TO EXISTING NATIVE SOIL. ADDITIONAL SOIL TO BE APPROVED BY LANDSCAPE ARCHITECT. MAXIMUM SAUCER HEIGHT IS 6 INCHES.
- 13. TOP OF ROOTBALL TO BE RAISED 2-3 INCHES ABOVE EXISTING
- 14. FOR B&B PLANTS, NATURAL FIBER BURLAP SHOULD BE TURNED DOWN BY 1/3 TOTAL HEIGHT OF ROOT BALL. PLASTIC FIBER BURLAP AND WIRE BASKETS SHOULD BE REMOVED TO 2/3'S OF TOTAL HEIGHT OF ROOT BALL.
- 15. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE TREE UPRIGHT AND PLUMB THROUGHOUT THE WARRANTY PERIOD. IF STABILIZATION IS NECESSARY SEE STAKING IN TREE DETAIL, ORANGE FLAGGING TAPE SHOULD BE ATTACHED TO SUPPORT WIRE. STAKING SHOULD BE REMOVED BY CONTRACTOR AT END OF ONE YEAR WARRANTY PERIOD OR AS DIRECTED BY GROUNDS
- 16. USE STANDARD "GATOR" BAGS FOR WATERING TREES IN AREAS NOT UNDER IRRIGATION. INCORPORATE TERRA-SORB (OR EQUAL) AS PER MANUFACTURERS RECOMMENDATIONS, FOR AREAS NOT
- 17. USE "BIO-BARRIER" OR EQUIVALENT ACCORDING TO MANUFACTURER'S RECOMMENDATION FOR TREES THAT WILL BE PLANTED WITHIN 10' OF PAVEMENT
- 18. LANDSCAPING/C.O. STANDARDS NOTE: ALL LANDSCAPING MUST BE IN PLACE PRIOR TO REQUEST FOR A CERTIFICATE OF
- 19. PERENNIAL SEED MIX CONTAINS THE FOLLOWING SPECIES: ACHILLEA MILLEFOLIUM, AGASTACHE FOENICULUM, ALLIUM STELLATUM, APOCYNUM CANNABINUM, ASCLEPIAS INCARNATA, ASCLEPIAS SYRIACA, ASCLEPIAS TUBEROSA, ASCLEPIAS VERTICILLATA, ASTER ERICOIDES, ASTER LAEVIS, CHAMAECRISTA FASCICULATA, COREOPSIS LANCELEOLATA, COREOPSIS PALMATA, DALEA CANDIDA, DALEA PURPUREA, ERYNGIUM YUCCIFOLIUM, HELIANTHUS PAUCIFLORUS, HELIOPSIS HELIANTHOIDES, LIASTRIS LIGULISTYLIS, MONARDA FISTULOSA, MONARDA PUNCTATA, PARTHENIUM INTEGRIFOLIUM, POTENTILLA ARGUTA, PYCNANTHEMUM VIRGINIANUM, RATIBIDA PINNATA, RUDEBECKIA HIRTA, SCROPHULARIA MARILANDICA, SOLIDAGO GRAMINIFOLIA, SOLIDAGO SPECIOSA, TRADESCANTIA OHIENSIS, VERBENA STRICTA, VERONICASTRUM VIRGINICUM, ZIZIA APTERA, ZIZIA AUREA, CEANOTHUS AMERICANUS, BOUTELOUA CURTIPENDULA ELYMUS CANADENSIS, KOELERIA MACRANTHA, SCHYZACHYRIUM SCOPARIUM, SPOROBOLUS HETEROLEPIS.
- 20. POLLINATOR SEED MIX CONTAINS THE FOLLOWING SPECIES: CHAMAECRISTA FASCICULATA, COREOPSIS LANCEOLATA, ACHILLEA MILLEFOLIUM, BIDENS ARISTOSA, GAILLARDIA PULCHELLA, ELYMUS CANADENSIS, ELYMUS VIRGINICUS, TRIPSACUM DACTYLOIDES, SORGHASTRUM NUTANS, RUDBECKIA HIRTA, SCHIZACHYRIUM SCOPARIUM, TRIDENS FLAVUS, ECHINACEA PURPUREA, SENNA HEBECARPA, HELIANTHUS ANGUSTIFOLIUS, HELIANTHUS MAXIMILIANII, MONARDA PUNCTATA, VERBENA HASTATA, ASCLEPIAS TUBEROSA, SYMPHYOTRICHUM
- 21. WETLAND SEED MIX CONTAINS THE FOLLOWING SPECIES: ELYMUS RIPARIUS, PANICUM RIGIDULUM, PANICUM DICHOTOMIFLORUM, CAREX VULPINOIDEA, PANICUM VIRGATUM, DICHANTHELIUM CLANDESTINUM, BIDENS ARISTOSA, JUNCUS EFFUSUS, POLYGONUM PENSYLVANICUM, AND SPARGANIUM AMRICANUM.



TOWN OF CARRBORO 301 W. MAIN STREET CARRBORO, NC 27510 T: (919) 918-7364 F: (919) 918-4475

MARTIN LUTHER KING, JR. **PARK**



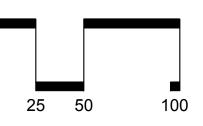


PRELIMINARY - DO NOT USE FOR CONSTRUCTION

Issued for: 60% DESIGN

DEVELOPMENT

No. Date Description

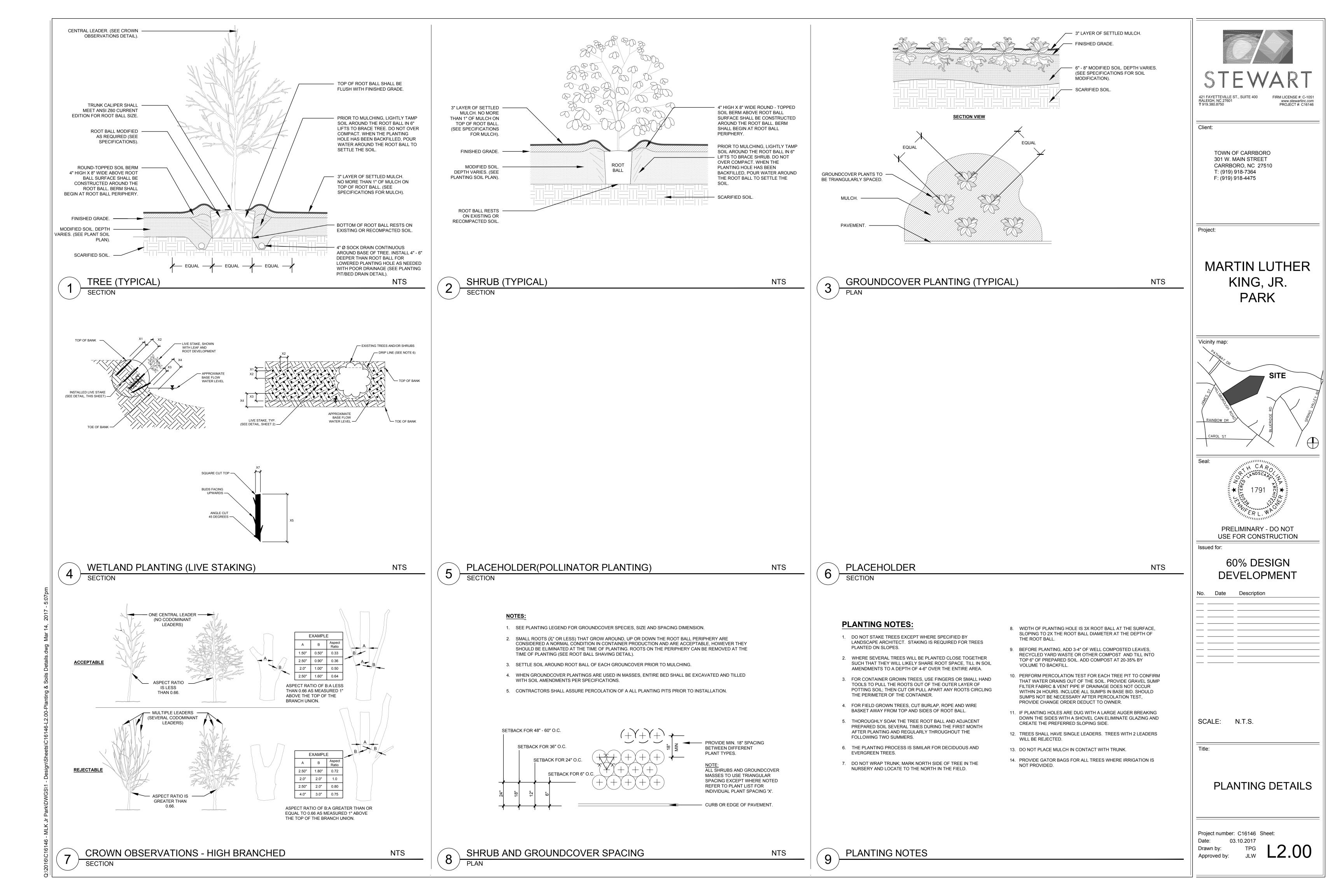


NORTH

PLANTING PLAN

Project number: C16146 Sheet:

Drawn by:





Town of Carrboro

Town Hall 301 W. Main St. Carrboro, NC 27510

Agenda Item Abstract

File Number: 17-079

Agenda Date: 3/21/2017 File Type: Agendas

In Control: Board of Aldermen

Version: 1

TITLE:

Consideration of Stage 2 Traffic Calming on Blueridge Road

PURPOSE: The purpose of this agenda item is for the Board of Aldermen to consider the proposed design

for Stage 2 traffic calming measures on Blueridge Road.

DEPARTMENT: Planning

CONTACT INFORMATION: Bergen Watterson, 919-918-7329, bwatterson@townofcarrboro.org; Tina Moon, 919-918-7325, cmailto:cmoon@townofcarrboro.org; Trish McGuire, 919-918-7327, pmcguire@townofcarrboro.org

INFORMATION: At the September 27th, 2016 meeting, the Board of Aldermen received a presentation from staff and comments from neighbors regarding traffic calming on Blueridge Road. Traffic volume, speed, and other data were collected in February 2016 and indicated that Stage 2 traffic calming measures were warranted. The Board of Aldermen directed staff to create a plan for Stage 2 traffic calming measures.

Since the September 2016 Board of Aldermen meeting, Town staff set up a table at the neighborhood potluck to discuss potential traffic calming measures and gather input. Staff created an online survey to gather input from residents who were unable to attend or did not provide comment at the potluck. A summary of responses to the paper comment cards and the online survey can be found in Attachment B.

Staff from the Planning and Public Works departments visited the site on several occasions and worked with Sungate Design to create a traffic calming plan for Blueridge Road. The plan includes two speed tables, curb extensions, road narrowing, and pavement markings. The speed tables were recommended because they are effective at lowering speeds, they have less impact on emergency access, and they can be found on other roads in the neighborhood. The curb extensions at Aberdeen Court are meant to lower the speeds of vehicles turning from Blueridge Road, where residents noted a particular speeding hazard. The road narrowing across from the Morningside intersection was proposed to slow cars at that point in the road and provide a protected area for pedestrians to walk. An illustrative map of proposed traffic calming devices can be found in Attachment C. Additional details on the proposed devices will be discussed at the meeting.

Staff recommends a pilot installation of the curb extensions and road narrowing with bollards and paint to test the effectiveness. Traffic volume and speed data will be collected again in 3-6 months after installation of

Agenda Date: 3/21/2017 File Type: Agendas

In Control: Board of Aldermen

Version: 1

traffic calming devices.

The Transportation Advisory Board received this information and heard from residents at the March 16th, 2017 meeting. Their recommendation can be found in Attachment D.

FISCAL & STAFF IMPACT: Staff is working with Sungate Design and Public Works to finalize cost estimates relating to the different traffic calming measures. This information will be available at the meeting.

RECOMMENDATION: Staff recommends that the Board of Aldermen consider the resolution in Attachment A approving the proposed traffic calming plan for Blueridge Road.

A RESOLUTION RELATING TO TRAFFIC CALMING MEASURES ON BLUERIDGE ROAD

WHEREAS, the Board of Aldermen adopted the Residential Traffic Management Plan (RTMP) in June of 1996 to provide "a process for identifying and addressing existing problems related to speeding, excessive volumes, and safety on town-maintained residential streets"; and,

WHEREAS, a valid traffic calming petition, in accordance with the RTMP, was received from residents of the Blueridge Road area in August 2015 and a traffic evaluation was completed in February 2016; and,

WHEREAS, the Transportation Advisory Board made a recommendation in September 2016, which was presented to the Board of Aldermen on September 27th, 2016; and,

WHEREAS, at this meeting the Board of Aldermen adopted a resolution recommending that a plan for Stage 2 measures be completed and presented to the Transportation Advisory Board and the Board of Aldermen; and,

WHEREAS, the Transportation Advisory Board has reviewed the aforementioned Stage 2 proposal; received feedback from neighbors; and made a recommendation to the Board of Aldermen; and,

NOW, THEREFORE BE IT RESOLVED by the Carrboro Board of Aldermen that the Board approves Stage 2 traffic calming measures on Blueridge Road as proposed in the plan.

BE IT FURTHER RESOLVED that:

[Additional guidance]	
1	
2	
3.	

This is the 21st day of March in 2017

Traffic Calming on Blueridge Road

Major Concerns

General consensus on speeding as the main issue, poses particular danger for children during PM rush hour.

Proposed Solutions

Speed tables, humps, and chokers are suggested, though no one solution is favored over all others.

CONCERNS	SUGGESTIONS	
COMMENT CARD RESPONSES		
-Walking with a child and dog-walking is often dangerous. There are a lot of kids in this neighborhood Sidewalks are ideal.	-Sidewalks -Speed humps -Communication with Spring Valley and neighborhoods nearby.	
-I think the increased number of small children on one street and everyone is a strong argument for speed controls on Blueridge.		
-I haven't had any concerns yet. We just moved in July.	-I prefer speed tables or speed humps. Other solutions may have a negative impact when I ride a bike or pull a trailer.	
-Please add speed table or hump on Blueridge Rd. This way it matches all surrounding neighborhood streets and will cut down on traffic and speeding on Blueridge.	-Speed table or bump.	
-Something needs to be done, but there don't seem to be as many speeders as beforeIf I had to choose, I'd choose speed tablesCrosswalk on Hillsborough/Greensboro.		
-Between Aberdeen and Morningside cars speed up.	-Speed humps and speed tables are my preference.	
-Speeding has waxed and waned over the last decade. It has always been a problem, and is close to a peak.	-Whatever is done on Blueridge should provide as strong of a disincentive to speed as the tables on Morningside and Spring Valley.	
-Speeding, high traffic density.	-Chokers with a walking path. They are pretty+ don't hurt the cars.	
-Traffic (after dark) with no sidewalks. Traffic is too fast. We walk our dog daily after dark.	-Chokers are attractive and less common, therefore more noticeable to car drivers.	
-@7AM & 3PM on Blueridge lots of children biking/people driving to work.	-Bumps might be okay but would like other ideas as well. Prefer to skip signs (i.e. children playing) unless they use other tactics as well.	
-Much too fast-school buses are the worst culprits.		
-Even with speed bumps- Spring Valley Rd has speeders.		
ONLINE RESPONSES		

We mainly want to get the speed down some and make drivers more considerate of walkers and kids playing. Evening commuters are an issue as that's a time when we are often in the street with our kids - bikes, skateboards etc. The sight lines on Blueridge are an issue due to the curves and hills, but slower speeds should help with that.

I hope that speed tables or the like would do the trick. A stop sign on Blueridge and Morningside might help. Speed tables might work best when situated before some of the hill crests or deepest curves in the road to slow cars down before those problem areas.

speed of car traffic. I needed to remove a tree so I could better see to back out of my driveway. drivers who show no concern for anyone in the street.

only the speed hump (2) on the lower section of blue ridge. concerned about the water drainage near 203 thus the islands will not work. stop signs at morningside blueridge and stop sign at aberdeen court and blueridge. trafffic calming signs traffic speed sign near 207 blueridge as that is the downhill lower portion of blueridge

Too fast

Bump or table. At least Two between hillsborough road and morning side

Hi Bergen, thanks for setting this up. I wrote you about Aberdeen Ct before, so I'll just copy & paste this here: Cars coming off Hillsborough onto Blueridge are usually moving fast around the wide corner. It's common for them to keep a lot of that speed to Aberdeen, and then whip around our corner still moving well above 25, right in front of our house. This is particularly true of the employees of the one business at the end of our cul de sac - they're notorious for coming in a hurry to work at various times during the day. We and the other parents on Aberdeen (there are eight kids here, among four households) often discuss it (we've spoken to the business manager as well, and they promised to ask everyone to slow down, but you know how that goes). Long story short, as you are planning the locations for the speed humps (or whichever), please consider placing one somewhere near, but before (south of), the Aberdeen intersection, to enforce that drivers coming off Hillsborough get their speed down before hooking that right.

speeding and quantity of cars at peak hours.

Based on the powerpoint you showed of various options, speed humps and/or tables look like the obvious choice. They're (presumably) faster to install, they wouldn't interfere with street parking or cyclists, and they slow traffic more effectively than the more expensive options. If they're effective on Morningside and Spring Valley, that seems like good evidence they'd work on Blueridge, too. Chicanes sound impractical for this road - you'd need so many of them. A Minicircle at the intersections seems very elaborate... and if it only reduces speeds by 11%, that's not very helpful - speeders doing 35 are now doing 31/32. Hardly seems worth it. Chokers look nice, but seem like more expensive, less effective speed bumps - and they block bikes. My feeling is: if there's already a proven approach right there in our subdivision, and it also happens to be the cheapest, easiest, and least obtrusive option, then the choice is simple. Some combination of humps and tables seems best by almost every measure.

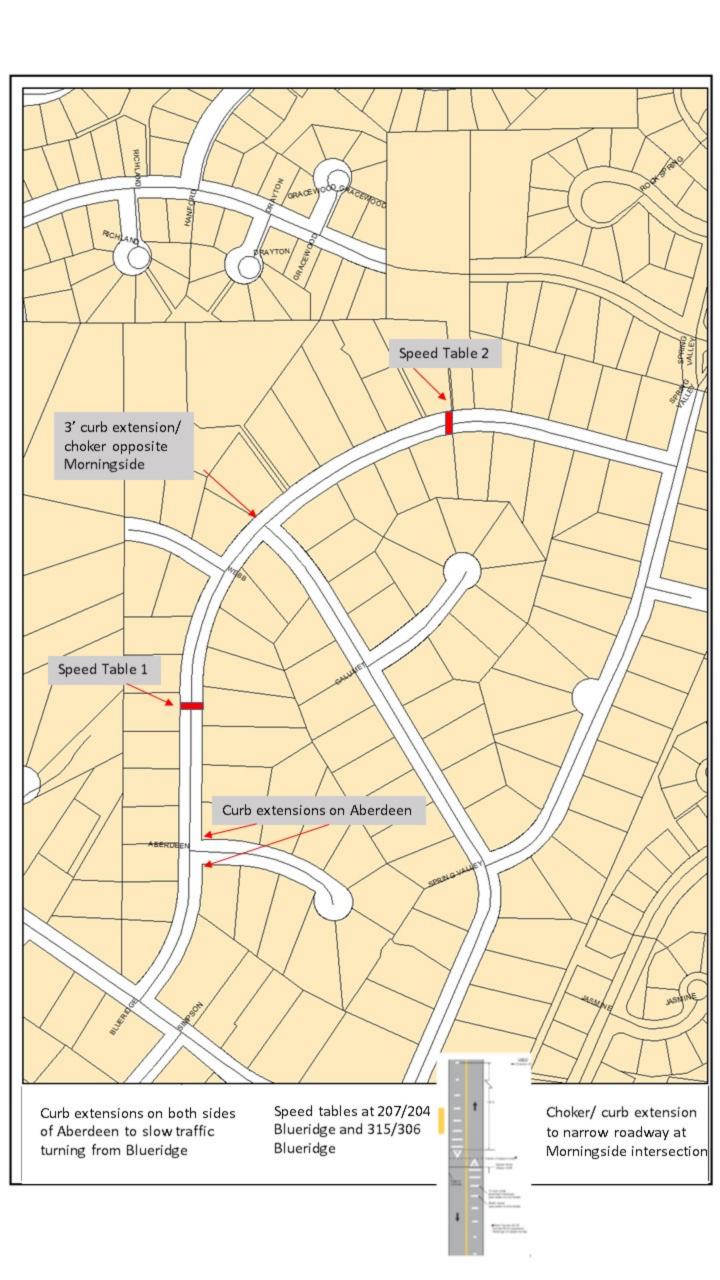
speed table or choker

Speed. One problem location is where Morningside ends at Blueridge. I propose a three (ALL WAY) way stop there. This would slow traffic at this point. During the summer months, drivers have poor visibility when turning onto Blueridge from Morningside due to the curve in both directions on Blueridge and the foliage that obscures oncoming traffic.

I would like to see sidewalks along Blueridge since there are many people who walk, jog and bike in this neighborhood. Sidewalks certainly would be less intrusive and would actually be a benefit for children and old folks who traverse this busy road. I don't like most of the calming measures but would not object to the hump or table. I would object to any traffic calming project in front of my house.

Traffic goes too fast, especially going to and from Spring Valley neighborhood (I think). There are no traffic calming measures at all on Blue Ridge. My daughter frequently plays with friends on Blue Ridge and cars just zoom by.

I am not sure what will be best-something effective but not too costly. Even a stop sign at Aberdeen would probably be helpful.





TOWN OF CARRBORO

Transportation Advisory Board

301 West Main Street, Carrboro, North Carolina 27510

THURSDAY, MARCH 16TH, 2017

Transportation Advisory Board Comments re: Traffic Calming on Blueridge Road

The Transportation Advisory Board discussed the proposed Stage 2 traffic calming measures for Blueridge Road at the March 16th, 2017 meeting. After discussing the proposed devices, survey responses, and hearing feedback from the neighbors in attendance (see following page), the TAB offers the following:

- 1) The Transportation Advisory Board recommends that the Board of Aldermen approve the plan, but allow for adjustments by the Engineer based on comments from the neighbors and feasibility of the comments.
- 2) For budgetary reasons, the final plan should include the number and type of devices that are currently proposed.

Transportation Advisory Board Chair

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Comments from Blueridge Road Residents

In attendance at TAB meeting on 3/16/2017: Jesse Cleary, Helene deFays, Josiah Egan, Gretchen Gochenauer, Bill Biggers, Dennis Efird, Anne Efird

- Mr. Efird and others would like the road narrowing device at Morningside Drive to be as wide as it can be while still allowing two-way traffic because pedestrians will walk on the inside of the curb.
- Mr. Biggers suggested moving Speed Table 1 closer to Aberdeen because cars coming off of Hillsborough Road are still speeding at that point.
- Mr. Egan shared feedback from residents on the neighborhood listserve:
 - o 7 people said they are fine with the plan
 - o 2 said they would like more information
 - o 3 did not like the 'chokers' because pedestrians would be forced into the road (Mr. Egan and Ms. deFays explained that there was confusion among neighbors about what 'chokers' really are)
 - o 1 wanted to move the speed table
 - o 1 prefers stop signs
- Mr. Biggers would like the speed limit on all residential road without sidewalks to be 15mph.
- Staff received an email from Victor Rhodes Jr. saying that he approves of the speed tables. He said that he approves of the 'choker'/road narrowing opposite Morningside as long as it does not reduce Blueridge Road to one lane (it will not).



TRAFFIC CALMING ON BLUERIDGE ROAD

Transportation Advisory Board

Thursday, March 16, 2017 7:30 p.m. Carrboro Town Hall, Room 109

Carrboro Board of Aldermen

Tuesday, March 21, 2017 7:30 p.m. Carrboro Town Hall, Board Room

Traffic Calming Devices for Blueridge Road



Speed Hump (Source: FHWA)



Choker (Source: City of Alexandria)



Town of Carrboro

Town Hall 301 W. Main St. Carrboro, NC 27510

Agenda Item Abstract

File Number: 17-078

Agenda Date: 3/21/2017 File Type: Agendas

In Control: Board of Aldermen

Version: 1

TITLE:

Consideration of Stage 2 Traffic Calming on Tallyho Trail

PURPOSE: The purpose of this agenda item is for the Board of Aldermen to consider the proposed design for Stage 2 traffic calming measures on Tallyho Trail

for Stage 2 traffic calming measures on Tallyho Trail.

DEPARTMENT: Planning

CONTACT INFORMATION: Bergen Watterson, 919-918-7329, bwatterson@townofcarrboro.org; Tina Moon, 919-918-7325, cmailto:cmoon@townofcarrboro.org; Trish McGuire, 919-918-7327, pmcguire@townofcarrboro.org

INFORMATION: At the September 27th, 2016 meeting, the Board of Aldermen received a presentation from staff and comments from neighbors regarding traffic calming on Tallyho Trail. Traffic volume, speed, and other data collected in May 2016 indicated that Stage 2 traffic calming measures were warranted. The Board of Aldermen directed staff to create a proposal for Stage 2 traffic calming measures.

Since the September 2016 Board of Aldermen meeting, Town staff held a neighborhood meeting to discuss potential traffic calming measures and gather input; sixteen residents attended. Staff created an online survey to gather input from residents who were unable to attend. A summary of responses to the meeting comment cards and the online survey can be found in **Attachment B**.

Staff from the Planning and Public Works departments visited the site on several occasions and worked with Sungate Design to create a traffic calming plan for Tallyho Trail. The plan includes three speed tables, two mini-traffic circles, pavement markings and signs instructing pedestrians to walk facing traffic. Public Works will also work with property owners to ensure vegetation is trimmed so as to not impede sight distance along the road.

Tallyho Trail is a challenging road for traffic calming. It is long, narrow, windy and somewhat hilly, creating limited sight distances in some places. The road is also used by pedestrians and bicyclists. Based on these factors, staff recommends the use of speed tables because they are effective at lowering speeds, have less impact on emergency access, and were identified as the preferred device by residents who are in favor of calming traffic. For speed tables to be most effective they should be placed not more than 500 feet from one another. As this is implausible on Tallyho Trail due to the length of the road, staff is also recommending the

Agenda Date: 3/21/2017 File Type: Agendas

In Control: Board of Aldermen

Version: 1

installation of mini-traffic circles at two intersections. Mini-traffic circles require drivers to slow down and maneuver around while paying attention to their surroundings. The 9-foot radius of the traffic circles still allows for 16-foot lanes on both sides. An illustrative map of proposed traffic calming devices can be found in **Attachment C**. Additional details on the proposed devices will be available at the meeting.

Staff recommends a pilot installation of the mini-traffic circles with bollards and paint to test the effectiveness. Traffic volume and speed data will be collected again in 6-12 months after installation of traffic calming devices, and subject to results of the data, staff will proceed with a more permanent installation.

The Transportation Advisory Board received this information and heard from residents at the March 16th, 2017 meeting. The Board's recommendation can be found in **Attachment D**.

FISCAL & STAFF IMPACT: Staff is working with Sungate Design and Public Works to finalize the cost estimates relating to the different traffic calming devices. This information will be discussed at the meeting.

RECOMMENDATION: Staff recommends that the Board of Aldermen consider the resolution in Attachment A approving the proposed traffic calming plan for Tallyho Trail.

A RESOLUTION RELATING TO TRAFFIC CALMING MEASURES ON TALLYHO TRAIL

WHEREAS, the Board of Aldermen adopted the Residential Traffic Management Plan (RTMP) in June of 1996 to provide "a process for identifying and addressing existing problems related to speeding, excessive volumes, and safety on town-maintained residential streets"; and,

WHEREAS, a valid traffic calming petition, in accordance with the RTMP, was received from residents of the Fox Meadows neighborhood in June 2013 and traffic evaluations were completed in September 2013 and May 2016; and,

WHEREAS, the Transportation Advisory Board made a recommendation in September 2016, which was presented to the Board of Aldermen on September 27th, 2016; and,

WHEREAS, at this meeting the Board of Aldermen adopted a resolution recommending that a plan for Stage 2 measures be completed and presented to the Transportation Advisory Board and the Board of Aldermen; and,

WHEREAS, the Transportation Advisory Board has reviewed the aforementioned Stage 2 proposal; received feedback from neighbors; and made a recommendation to the Board of Aldermen; and,

NOW, THEREFORE BE IT RESOLVED by the Carrboro Board of Aldermen that the Board approves Stage 2 traffic calming measures on Tallyho Trail as proposed in the plan.

BE IT FURTHER RESOLVED that:

[Addition	onal guidance]
1.	
2.	
3.	

This is the 21st day of March in 2017

Traffic Calming on Tallyho Trail

Major Concerns

- Speeding, sight lines, blind curves, and concern for pedestrians and cyclists on the road were the major concerns for Tallyho Trail.
- Most frequently cited problem area was the Lair Court and Tallyho crossing.
- Safety concerns are elevated during morning rush hour period (kids walking to school bus and people driving to work) due to relatively higher volume of traffic.

Proposed Solutions

- Speed humps are controversial solution, some are for while others are very much against the installation of speed humps.
- Debate over speed tables, traffic circles, chicanes or chokers as appropriate solutions.
- Popular suggestions also include cutting back on vegetation, road widening to allow for pedestrian and cyclists (either gravel shoulder or sidewalk), and increased signage.

CONCERNS	SUGGESTIONS		
COMMENT CARD RESPONSES			
- reflectors on side of road in the curves - flashing sign (like ped x-ings) in curves - permanent radar sign	 way outside box- but some sort of caution lights a pedestrian could trigger as they entered danger zones would also love signs to help people know what 		
- vehicles speeding around the blind curves on Tallyho — especially between Lair + Bugle - also Tallyho @ Rogers sight is impaired or vehicles going North on Rogers turning left onto Tallyho- I've experienced several close calls here approaching Rogers on Tallyho	side way the right for walkers - mini roundabout on key intersections, especially Tallyho + Lair, Tallyho + Bugle, Tallyho + Huntsman - speed tables on the straightaways between the sharp curves between Lair+ Bugle		
- sight lines on curves - not enough road to share between vehicles, pedestrians and cyclists - need more space to share the road - sight lines, cut vegetation, define shoulder,	 wider road, cut vegetation on curves opposed to numerous speed humps/tables, any solutions that reduce the width of an already slim road, any solution the prevents snow plow cut vegetation severely in S curves 		
gravel shoulders - signs to say walk facing traffic	- gravel shoulders - educate all users of the road - mini circles or tables might be best - not humps		
- being able to walk safely, especially in mornings when kids need to get to the school bus and people are driving out to get to work - school bus stops at Lair Ct- children need to either cross at blind curve or cross earlier and walk unsafely with traffic for several hundred feet	 - I like the combination of speed measurement signs between Rogers and Tallyho to slow people down before the hill - mini traffic circles - speed tables/humps - flashing lights for pedestrians at blind curves including Lair Ct - cutting back vegetation 		

	·
	- more mowing of vegetation so walkers can step off
	- Be aware of hills/ cars gaining speed as they go downhill
- speeding and blind curves	- mirrors on blind curves
	- signage? Dangerous curves, poultry crossing
	- pavement markings, reflectors
-no real problem compare to other roads I bike	- widening Tallyho
on	
-but as a recumbent bike I cannot go over speed	
humps	
-please no speed humps	
-pedestrians walking in road and possibly being	- gravel paths or areas where pedestrians can
struck	walk or step off of road
	-cut back vegetation severely
higgest concern is an earlier-	- sidewalks or shoulders on road
-biggest concern is speeding	-speed humps/tables and/or chicanes where
	speeds are higher
and a diag	-traffic circle might work well at Hunstman
-speeding	-maybe combination of traffic circle and speed
- cars moving into the opposite lane, and not	humps
slowing down, when approaching pedestrian or	
cyclist	Do NOT want 10 12 speed humps going in out
-between Lair Ct and Bugle Ct the S curve -Lair Ct. curve	-Do NOT want 10-12 speed humps going in/out of neighborhood
-do we need signage for each speed hump	-blinking signage for walkers
-uo we need signage for each speed nump	-cut back
	-do NOT want lighting
-the curve at the 1200 & 1110 feels like a	- I would prefer not to use measures that would
particularly difficult place to go walking	require street lights or that would prevent snow
- I like the idea of chicanes & chokers	plows
	ESPONSES
there are no problems	nothing should be done until they have sidewalks
·	and lights in-that is the true problem
Recently I retired and have spent a lot of time in	We don't need any traffic calming devices, there
the front yard gardening and haven't noticed	isn't a problem
speeding cars or a huge increase of traffic. While	·
there is an increase in the morning and evening,	
people are just going to and from work, nothing	
excessive.	
There are some people who are still going too	The 1400 area people tend to get rolling pretty
fast. School buses and Fedex drivers are worst	fast but where you propose to put a calmer is on
offenders. There are some who are on phones	the incline, move that 50 yards west. We only
some actually are shaving on their way to out to	need two calmers not five.
work.	
	· · · · · · · · · · · · · · · · · · ·

The road is too narrow and there is no place for pedestrians. Speed really is not the core issue here.	A sidewalk would be a fundamental solution to this problem.
The blind curves combined with the tall grass and overgrown trees make the road dangerous even at the speed limit. Tallyho will never be walkable and I think the neighbors who are complaining are trying to make us Parkside. It just isn't that kind of road although I do support measures to reduce excessive speeding. By the way, I've lived here for nearly 16 years and never heard complaints until ONE neighbor started complaining. I do feel for her and those who live on Tallyho but I wonder if this has been overblown.	I truly do not want speed bumps. They are ugly and they are permanent. However I appreciate that those who live on Tallyho are affected by speeders more than I am, so I would support low wide speed tables if they were nicely done. I only support adding the ones that are for 28-30 mph. Anything that is rated 20-25 is just going to cause drivers to constantly use their brakes to the detriment of their cars and the environment. I also only support putting in two, not four.
Fast driving	For those of us in the back of the neighborhood, we don't want to have too many speed bumps between our houses and Rogers Rd. But it is important to slow down traffic, so bumps that require slowing down are fine, as long as we don't have to slow down to ridiculously slow speeds.
Most of the school buses drive too fast. Delivery trucks speed as well. As do some of my neighbors. That said, my family of 2 adults does not experience the street traffic as dangerous. I find that paying attention while walking, driving or biking, and stepping off the side of the road, when I am a pedestrian, sufficient for safety. That said, if I were a parent, I would be concerned for the safety of my children.	I am opposed to chicanes, traffic circles, and chokers. The road is too narrow to accommodate any of these without becoming one-way. The street is too long to be made one-way in places, and still expect traffic to move well. I think these devices would also make the road more hazardous for bikes and pedestrian traffic. Given that we are considering stage 2 implementation, I would prefer speed tables. Installation at the base of hills and near blind curves would be most appropriate, as these are the places of greatest opportunity for speed-induced mishap. (Though, as a cyclist, I think I would find a speed-slowing device at the base of a hill rather dangerous!)
No concerns.	We do not feel that the traffic calming mechanisms proposed in the slideshow are needed. I have been here for 3 years and have never seen an issue with pedestrians being at risk due to traffic. Cars seem to always slow down and move to side of pedestrians. We feel that neighbors are respectful of individuals who are walking, running, with dogs, etc.
	warking, ranning, with augs, etc.
Biggest concern is pedestrian safety. Rush hour	I'm in favor of whatever the town's traffic

not a big deal	radar speed displays are effective speed tables
, and the second	OK, but do not place in front of homes
I have no concerns and I worry if you put in traffic calming measures then fire and police can't get here fast enough.	I am opposed to all of them-it is dangerous to put them in on long windy roads. Why not put in sidewalks and street lights?
When people are coming home from work seems like the worst time for traffic. At night I think people who are visiting the neighborhood do not realize that it is a residential area and they need to slow down.	sidewalks, widening the road, adding children live here signs, possibly speed bumps
Biggest concern is that there are no good places to get off the road when you're walking. There are a number of sharp curves that prevent drivers being able to readily see pedestrians. The most problematic times are in the morning and evening as residents go and come back to work.	The only way to really affect a consistent change of driver behavior is going to be with traffic calming humps. The ones that I have seen that are really annoying are in Wexford. They are too radical and numerous. The best I have seen are on Oak St in Carrboro. You have to slow to 25 but the ride over is smooth and not that noticeable at the proper speed.
Concerns: speeding; blind curves; narrow road relative to width of school buses/delivery vehicles/emergency vehicles; short sight lines; pedestrians walking in road. Problem locations: blind curves at bottom of hills (intersection with Lair Court, curve at 1300 block, curve at cutthrough to Meadow Run); entrance to neighborhood at power lines; straight stretches between these curves.	I would prefer chicanes or mini traffic circles but do not think either would work given the narrowness of the road and the lack of 4-way intersections (possible exception for traffic circle: intersection of Tallyho and Bugle Ct.). As a result I am not opposed to speed tables/humps. Location: Absent any limitations I would place them at intervals roughly corresponding to where the traffic sensors were placed (1500 block, 1400 block, 1200 block, 1000 block).
The number of people that speed. In particular, large service vehicles like UPS, USPS, FedEx, dump trucks, etc. tend to honk their horns in warning as they speed (40+ mph) down the hill at Lair Ct. and past my house. I worry that I or my daughter will be hit when backing out of my driveway. Also, my son has to walk up that hill to his bus stop. I live at 1319 Tallyho Trail.	Either the speed bumps or the speed tables. I think the road is already too narrow for the other measures. I'm not sure what the best places would be. Either at the top or the bottom of that hill near Lair Ct.
My biggest concerns are the blind curves and the elevated speeds along the long, narrow, winding length of Tallyho. My family (including my two kids) frequently bicycles to & from work and school, and we often walk the neighborhood, also. I don't trust the traffic and have had problems with drivers not being responsible around pedestrians and cyclists.	I think, based on what my neighbors have told me, that the chokers would be appropriate for our neighborhood. The chicanes require lighting, which we don't have? The number of speed bumps/humps/tables that would be needed along Tallyho seems excessive enough to anger neighbors, bus drivers, delivery people, although I wouldn't personally have issues with that solution.
People driving too fast through the curvy parts where there are often pedestrians or other	Minimal interruption preferred not a fan of speed bumps. If necessary, then a speed table or

traffic; limited sight lines around curves; too fast something more gradual, less bad for cars when around the turn to Reynard where there are you have to drive over it all the time. more kids playing near the street or walking. Chokers/chicanes preferred. Biggest concern is safety of pedestrians and of I like the idea of a combination of speed humps children walking to the school bus and crossing or tables and mini traffic circles at a couple of the road. I used to try to walk down Tallyho Trail intersections. These seem like they would slow in the morning, but there are too many cars down traffic without inconveniencing people zooming out as people try to get to work or who live at the far end too much. I also like the school. I'm especially worried about the school ideas suggested by my neighbors at the recent bus stop at Tallyho and Lair Ct because my meeting: 1) work with property owners to trim daughter has either to cross the street at a blind branches or even cut some trees to increase visibility at blind curves, 2) keep grass along sides curve or to cross farther up hill where she can see traffic coming and then walk with rather than of road mowed so it's easier for pedestrians to against traffic. step off road when a car comes, and 3) lights set up so that a pedestrian coming up to a blind curve could push a button and set off a flashing light around the curve so an approaching motorist would know to slow down and be careful. Mornings and late afternoons are probably worse 1. Sidewalks... no kidding. But these weren't an when you combine walkers with buses and cars option on the power point. 2. Speed table (s). 3. coming and going from the neighborhood. I'm Opposed to all other options. Seems the road is not denying there is a problem, but some of the way too narrow for a series of chicanes, circles, regular walkers seem overly sensitive. Even when chokers and humps seem like overkill. 4. I would I'm driving speed limit or slower, they give me defer to your traffic designers to decide best looks of disdain. I think, understandably since place to put these. there are no sidewalks, there may be an unrealistic fear of a pedestrian being hit. Thank goodness this has never happened, and of course, it would be terrible if it did, but for some, the fear of it happening seems exaggerated. I hope the speed calming measures will help with this. Speed. Delivery trucks, school buses. All poorly Tallyho Trail is already quite narrow, so I would banked curves:) be opposed to any of the options that involve further narrowing. Overall, I think the speed table is the best choice. There are several curves in the road with relatively limited lines of sight, so positioning these in the curves would be good, possibly also at the bottoms of hills. We have lived here since 1987 with two children I would prefer not to see any traffic calming growing up in the neighborhood. I personally mechanisms put on Tallyho Trail. In the 30 years haven't observed any difference in driving living here, I am unaware of any accidents that

have occurred with pedestrians or bicycle riders

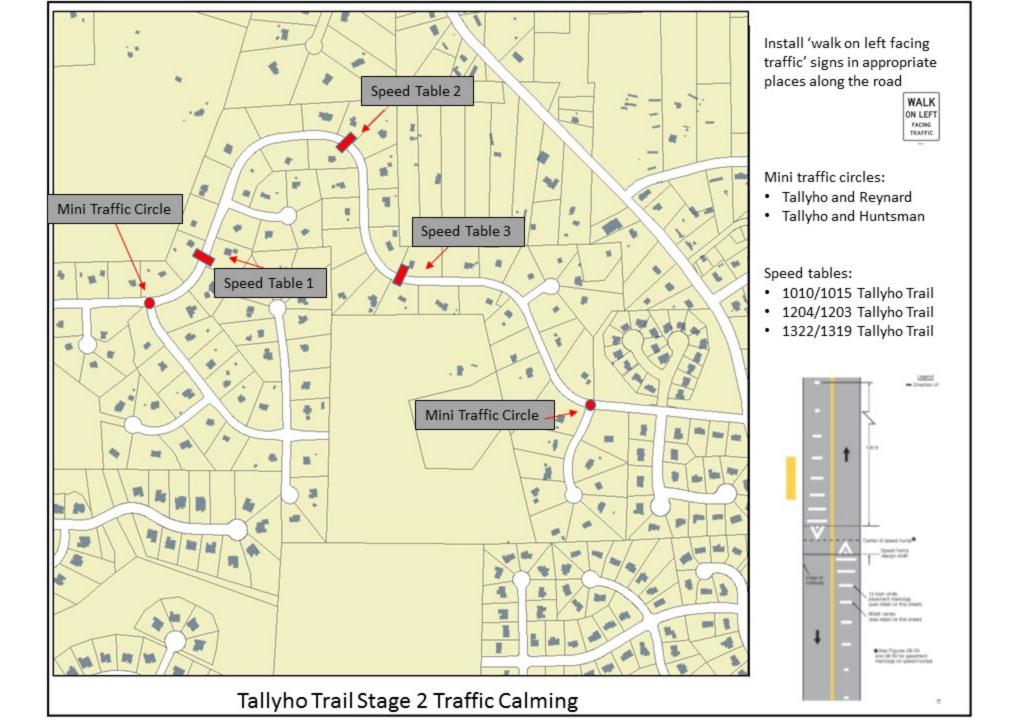
in the neighborhood, and I am both of these. The lease objectionable device would be the speed table. I strongly oppose all of the other options.

patterns in the nearly 30 years living in this

neighborhood.

Speed and safe walking areas are big issues. Any of the calming measures in the slides would Problem areas are anywhere there is a curve -be fine. I think the circles are not viable because limited visibility. the road is so narrow. Speed tables at spots where there are curves seem most economical. Too many homeowners do NOT maintain their Cut back trees esp on the hills/curves of Tallyho property, Tallyho trail is overgrown. Tr. Don't want speed tables. Didn't mind the realtime speed indicator. school bus drivers sometimes are very fast. after there is not room for any of the first three work (from 4-7) can be worse than other times. devices listed in the slideshow (chicane, mini UPS or other service vehicles are sometimes very traffic circle, choker). There could be room for fast. The sharper curves (see any overhead map, either speed hump or speed table devices. for example, near 1203, 1310, or 1522 Tallyho) tend to be blind, and so a car in each direction plus a bike or pedestrian do not mix well (traffic calming will not help that, really). Near our house, under the Duke Power lines, I don't like speed bumps, but I think a chicane there is quite a sharp curve on a hill, and people nearby might help! often drive too fast when they cannot see what is coming. Getting out of our driveway can be difficult. Because we live well away from Tallyho, I only Because the road is already so narrow, the occasionally see cars traveling dangerously fast. chicane, traffic circle or choker would be very dangerous. When I bike on Tallyho, I can build up enough speed going downhill that a speed hump could cause loss of control. Of the options presented, a speed table is probably safest for bikers and least damaging to vehicles. Speeding is the biggest concern and unsafe Speed tables are my choice. Like they have in driving (tail-gating, speeding up to register high Lake Hogan. I know that is hard for people in the speed on the speed indicator sign). Lack of back of the neighborhood who have to cross all sidewalks and street lights contributes to the of them, but speeding has been the burden of issue at dawn and dusk. All the down hill curve people in the front of the neighborhood for many spots are particular problems. We live at 1315 years. Those of us on Tallyho Trail can't even let Tallyho and are at the end of a hill AND in a our children ride bikes w/o close supervision of curve. We witness lots of speeding and conflicts going to a cul-de-sac because it is just too unsafe. between walkers and cyclists - though most have I think the chicane and choker will not work due learned to get off the road quickly. Mornings and to the limited sight lines AND the folks that will evenings are worst. School buses and visiting just be clueless and not yield so you will end up trucks often go too fast. People whose kids playing chicken. The mini traffic circle is not attend summer camp in back of neighborhood appropriate for a neighborhood with no street often fly to get to camp at 9:00 am in the lights - I would be will to bet cars would go right summer. High schoolers at lunch can also be a over it even with reflective markers. I deal with 2 traffic circles daily in my commute and that some problem. Often they may be friends of people who live in the neighborhood. People try to folks are still totally clueless about how to use swing wide to avoid walkers, but then end up them. I prefer a speed table to a speed hump so coming head to head with cars coming the other that it is a bit easier on the cars that will traverse direction due to the limited sight lines. A plan it a lot. As far as location, I suspect you have

that just involves educating people in the	studies that would address this, but need to find
neighborhood does not work as there are many	the straight sections. One near power lines, one
cars from outside of our neighborhood that	prior to curve in 1300 section, one near entrance
contribute to the problem. Traffic calming	to Fox Meadow run, one at top of that hill or
measures are a must.	within it, one on straight stretch prior to reaching
	Reynard. Would be easier to show on a map.
I prefer chicanes, chokers, and mini traffic circles	The number of speed humps/tables required and
to the speed humps and tables	the 'noisy' drawback were big deterrents
I have lived here since 1990 and have never	1)Widen Tallyho Trail, 2) keep the digital speed
heard of or seen an accident. Tallyho is by far the	sign up all the time, 3) paint speed bump lines
safest road around here. Neighbors should mow	on the street and put up signs so people think
their lawns to make it easier to walk off the road	it's a speed hump
Don't do it! It'll make the road more dangerous	Build a walking path through everyone's
than it already is	backyard. Or put in sidewalk, street lighting.
I would not have bought a home here in 2005 if I	
thought the town was going to do this	





TOWN OF CARRBORO

Transportation Advisory Board

301 West Main Street, Carrboro, North Carolina 27510

THURSDAY, MARCH 16^{TH} , 2017

Transportation Advisory Board Comments re: Traffic Calming on Tallyho Trail

The Transportation Advisory Board discussed the proposed Stage 2 traffic calming measures for Tallyho Trail at the March 16th, 2017 meeting. After discussing the proposed devices, survey responses, and hearing feedback from the neighbors in attendance (see following page), the TAB offers the following:

- 1) The Transportation Advisory Board recommends that the Board of Aldermen approve the plan, but allow for adjustments by the Engineer based on comments from the neighbors and feasibility of the comments.
- 2) For budgetary reasons, the final plan should include a total of five traffic calming devices, which can be any combination and location of speed tables and mini traffic circles that makes the most sense based on neighbor feedback and feasibility.

Transportation Advisory Board Chair

Date

Comments from Tallyho Trail Residents

In attendance at TAB meeting on 3/16/2017: Alan Pollock, Charlie Buckner, Peter Cada, Garrett Baker, Laura Wenzel, Michelle Wells, Alexandra Holod

- Mr. Pollock is opposed to the traffic circles he believes that the proposed plan should be simplified and that the speed tables suffice to slow traffic.
- Mr. Buckner, Mr. Cada and Mr. Baker are concerned about the traffic circle at Tallyho and Reynard because a school bus turns around at that intersection and the traffic circle appears to impede the flow for larger vehicles.
- Ms. Wenzel thinks the traffic circle at Reynard will help slow vehicles down, especially those that cut the corner when turning from Tallyho Trail. She also suggests that the school bus that turns around on Reynard could change its route.
- Mr. Cada suggested moving the traffic circle at Reynard to the intersection of Bugle and Tallyho because the road is straighter there and there are not as many vehicles coming from Bugle.
- Mr. Cada also suggested moving Speed Table 1 closer to Bugle so it is more visible and farther away from the traffic circle (if it stays at Reynard).
- Ms. Holod suggested moving Speed Table 3 closer to Lair Court because the
 distance between the traffic circle at Huntsman and Speed Table 3 is large. She
 pointed out that the speeding was worse closer to the front of the neighborhood
 so the traffic calming devices should be concentrated there.
- Several in attendance suggested moving the traffic circle currently at Reynard to Lair Court.
- There was mixed sentiment among residents about whether the traffic circles should be vegetated (more visible, beautiful) or be fully paved to ensure that larger vehicles can drive over them if necessary.
- The residents, except for Mr. Pollock, are generally pleased with the number and type of devices proposed, but would like to see some locations changed if feasible.
- Staff received an email from a Shane Nye on 3/17/2016 stating that he is in full support of the proposed traffic calming plan as it is.
- Ms. Wenzel would like the pedestrian education signs implemented as soon as possible and was wondering about guidelines for number and location of such signs.
 - Mr. Baker expressed concern over the number of signs and wanted to ensure that the aesthetic of the neighborhood would not be changed with a lot of signs in the right-of-way.
- Mr. Buckner was in support of residents and Town staff trimming vegetation in the right-of-way to ensure maximum sight distances along the roadway.



TRAFFIC CALMING ON TALLYO TRAIL

Transportation Advisory Board

Thursday, March 16, 2017 7:30 p.m. Carrboro Town Hall, Room 109

Carrboro Board of Aldermen

Tuesday, March 21, 2017 7:30 p.m. Carrboro Town Hall, Board Room

Traffic Calming Devices for Tallyho Trail



Speed Hump (Source: FHWA)



Mini Traffic Circle (Source: NACTO)



Town of Carrboro

Town Hall 301 W. Main St. Carrboro, NC 27510

Agenda Item Abstract

File Number: 17-054

Agenda Date: 3/21/2017 File Type: Agendas

In Control: Board of Aldermen

Version: 1

TITLE:

Consideration of an Application for Affordable Housing Funding from CASA

PURPOSE: The purpose of this item is for the Board to consider approving an application for funding out of the Affordable Housing Special Revenue Fund.

DEPARTMENT: Manager's Office, Planning

CONTACT INFORMATION: Nate Broman-Fulks, <u>nbroman-fulks@townofcarrboro.org</u> <mailto:nbroman-fulks@townofcarrboro.org, 919-918-7314; Trish McGuire, <u>pmcguire@townofcarrboro.org</u> <mailto:pmcguire@townofcarrboro.org, 919-918-7327

INFORMATION: The Town has received an affordable housing funding application from nonprofit affordable housing provider CASA. CASA is requesting a grant of \$357,208 for land banking for two contiguous properties, 802 and 806 South Merritt Mill Road in Carrboro. This cost represents approximately 16 percent of an estimated \$2.2 million. Funding is being requested from other entities, including Orange County, the North Carolina Housing Finance Agency, and the Federal Home Loan Bank. The application for Orange County funding is due March 31st and is expected to be viewed more favorably if a funding commitment is obtained from Carrboro prior to that date. The property is currently under a contract to purchase, with the current phase coming to an end in May. After that time, CASA will be required to commit funds to maintain the right to purchase through the review and permitting processes. Requested grant funds are anticipated to be needed to complete the purchase at the time of the project's approval or May 2018, whichever occurs sooner.

Project Description:

CASA is proposing to build a 16-unit development on the two Merritt Mill parcels in Carrboro. The planned development will create at least 16, and possibly up to 36, permanently affordable rental apartments. CASA specializes in providing homes for people who have critical housing needs - people with disabilities, those who are homeless, and veterans.

At least 16 units will be for households earning less than 50 percent of area median income (AMI) with a priority for people who are homeless and/or who have disabilities. All developed units will be permanently affordable. Rents will be 30 percent of a tenant's income. CASA will accept all types of rental subsidies.

The property is zoned R-7.5 and the allowable base density based on GIS information is 11 units. The

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In Control: Board of Aldermen

Version: 1

additional five units could be approved under the residential density bonus for affordable housing. A special use permit would be required for development at this level; a rezoning and likely a conditional use permit would be required if additional units are proposed. A companion project is proposed for two contiguous properties located in Chapel Hill and staff have met to explore ways to maximize the consistency and physical integration of the projects. Chapel Hill's Community Design Commission review of this adjacent project is scheduled for Tuesday, March 28th.

Staff has been exploring with CASA ways that the project, if funded and approved for construction, might express a preference for providing homes for Orange County residents or employees. The waiting list for affordable housing in Orange County currently includes 300 households. This interest has been shared with Jess Brandes, Housing Developer for CASA, who has communicated understanding willingness for the project to meet the Town's interest.

Eligibility Analysis:

The application has been reviewed in relation to the application procedures and eligibility requirements specified in the Affordable Housing Fund Guidelines. The application has found to meet all requirements.

Application Procedure	Procedure Met
1) A complete description of the project, including the proposed location;	✓
2) A discussion of how the project meets the criteria of eligible uses and eligible beneficiaries	✓
3) Who the ultimate beneficiaries will be or are intended to be;	✓
4) If appropriate, documented income data for the intended recipients.	NA

Eligibility Criteria	Requirement	**	Criteria Met
1. Who May Apply	Nonprofit or Individual	CASA	✓
Use	Established Eligible Use, or 2. Goal/Strategy of AH Plan	1. Eligible Use C: To assist in the purchase of land for conveyance to nonprofit affordable housing agencies. 2. Goal 2.1 - Increase number of permanently affordable rental units	

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In Control: Board of Aldermen

Version: 1

3. Eligible	1. Home located in Carrboro	1. Development to be located at 802 and	✓
Beneficiary	2. Owner or occupant of the	806 S Merritt Mill Road in Carrboro 2.	
	property after acquisition 3.	CASA will be the owner of the	
	Building to have an	development 3. House to remain	
	anticipated life of at least 30	affordable permanently 4. The residents	
	years 4. Household income	will have a household income of 50% AMI	
	of 60% of AMI and below	or below with priority given to persons	
		who are homeless and/or have a disability	

FISCAL & STAFF IMPACT: CASA is requesting \$357,208 for this project. The Affordable Housing Fund currently totals \$665,628. If the request were to be approved, there would be \$308,420 remaining in the fund.

RECOMMENDATION: Staff recommends the Board consider approving the application for funding. A resolution has been provided for the Board's use (Attachment A).

A RESOLUTION TO AWARD A GRANT TO CASA FROM THE AFFORDABLE HOUSING SPECIAL REVENUE FUND 3-21-2017

WHEREAS, the Board of Aldermen on, June 27, 2007, by the adoption of resolution no. 244/2006-07 created the Affordable Housing Special Revenue Fund; and

WHEREAS, the creation of the fund is another way in which the Board can advance its goal of increasing and maintaining the stock of affordable housing within the Town and its planning jurisdiction; and

WHEREAS, the Affordable Housing Special Revenue Fund was designed to provide funding for numerous affordable housing activities, include banking of land and critical home repairs for Carrboro residents without the means to do it on their own; and

WHEREAS, CASA, a nonprofit organization that works to develop and manage affordable housing, providing opportunities for successful living has requested funding from the Affordable Housing Special Revenue Fund for land banking activities on properties in the Town of Carrboro; and

WHEREAS, the total request is for \$357,208; and

WHEREAS, Town Staff has reviewed the request and determined that the affordable housing activities proposed by CASA meet the eligibility requirements of the Affordable Housing Guidelines adopted by the Town.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF ALDERMEN OF THE TOWN OF CARRBORO:

Section 1. The Board of Aldermen approves a grant award to CASA in the amount of \$357,208 from the Affordable Housing Special Revenue Fund.

Section 2. This award is made on the condition that CASA will get the necessary approval for use of the land to carry out the affordable housing activities in their proposal dated January 20, 2017. Should CASA not secure approval for use of the land to carry out the affordable housing activities as proposed, this grant award shall become null and void.

Section 3. The Board of Aldermen authorizes the Town Manager to develop and execute an agreement as necessary to carry out the Board's action, included the noted preference for housing to be provided to Orange County residents and employees.

Section 4. Within five (5) days after this resolution is adopted, the Town Clerk shall file a copy of this resolution with the Finance Director.

Section 5. This resolution shall become effective upon adoption.



January 20, 2017

Mr. Nate Broman-Fulks Assistant to the Town Manager Town of Carrboro 301 W. Main St. Carrboro, NC 27510

Dear Nate:

CASA is pleased to submit this request to the Town of Carrboro for land banking funds to support our development at Merritt Mill West. This development of 16 newly constructed units will be the single largest new construction project CASA has undertaken in our 25 year history.

We are grateful to the Town for your consideration of this request and for your commitment to affordable housing. We look forward to partnering to create 16 brand new homes for individuals who need, as we all do, the safety and stability of a permanent address.

Project Description

CASA is proposing to build a 16-unit development on Merritt Mill Road in Carrboro, and we are requesting \$357,208 from the Town of Carrboro's Affordable Housing Fund to pay for the 2.14 acres of land we are purchasing (2 adjacent lots, 802 and 806 S Merritt Mill Road). This development will create 16 permanent homes for members of our community who have critical housing needs – people with disabilities, those who are homeless and living in a tent, motel or a van, veterans who have a housing voucher but can't find a landlord who will accept it. People who know the sting of hearing "our waiting list is closed", "nothing is available", "our shelter is full."

Specifically, all units will be for households earning less than 50% of AMI with a priority for people who are homeless and/or who have disabilities. Rents will be 30% of a tenant's income. CASA will accept all types of rental subsidies. We are estimating rents for households without a housing voucher at \$150 per month, and for those with a housing voucher \$637. Utilities (electric and water) are estimated at an additional \$137 monthly cost for a one bedroom apartment.



CASA intends to begin the CUP process with Town of Carrboro Planning staff in early 2017, with the hope of undertaking construction in 2018 and project completion in 2019. Our preliminary site plan includes one 16-unit building of 1-bedroom, 1-bath apartments with associated parking.

Along with Merritt Mill West, CASA will be developing a 12-unit permanently affordable development on the Chapel Hill side of the parcel, known as Merritt Mill East, serving a similar population, likely with a focus on families.

The location of these developments are ideal. This site is 0.7 miles from downtown Carrboro, a little over 1 mile to downtown Chapel Hill, and 1.5 miles to UNC Hospital. Tenants will be right around the corner from stores and employment opportunities at the new South Green development. Around the other corner, Chapel Hill - Carrboro City Schools recently announced plans to redevelop the Lincoln Center into a bigger education campus, including a pre-K program, expanded Phoenix Academy High School, and possibly a community health clinic.

Our Request

We understand \$357,208 is an extremely significant request to the Town. We are grateful to have secured this land during a unique time for Carrboro in which you do have funds available to provide such significant support, but we are not taking that support for granted. Our total estimated development costs are nearly \$2.2 million and we're asking Carrboro for approximately 16% of that. Put another way, for every Carrboro dollar invested in Merritt Mill West, more than 5 dollars will be invested in Carrboro by other funders. We are seeking those leveraged funds from Orange County, the NC Housing Finance Agency, Federal Home Loan Bank, and community, corporate and foundation supporters. The balance will be financed through one of our banking partners.

We are making our request to Carrboro first to ask you to be our "keystone funder" – the strong center that brings together everyone else we need to make the project happen. We know from experience that a strong commitment of local dollars is critical to getting the commitments we need from others.

As we recognize that we need to obtain a Conditional Use Permit, we understand a commitment made by the Town for this funding will be a conditional commitment, pending final land-use approval.

Discussion of how the project meets the criteria of eligible uses and eligible beneficiaries

This project furthers the Town's Affordable Housing Goal 2.1: "Increase number of rental units that are permanently affordable to individuals and families earning less than 60% of AMI. 2024 goal is to have 470 affordable rental units. In 2014 there were 349 affordable rental units. This is an average annual increase of 12 units."

This project meets the eligible use C: "To assist in the purchase of land for conveyance to nonprofit affordable housing agencies. (Land Banking)"

Who are the beneficiaries?

All units will be for households earning less than 50% of AMI with a priority for people who are homeless and/ or who have disabilities. CASA has an Applicant Pool of over 300 eligible households in Orange County. The



most recent Point-in-Time Count data available (2015) of persons who are homeless in Orange County found 129 people, 19 of whom were children.

Many applicants in CASA's applicant pool are already connected to services through a government or nonprofit agency. For tenants with disabilities who are not, support services will be offered through Cardinal Innovation's network of approved behavioral health agencies. These agencies refer clients to CASA for housing by completing a rental application and providing the needed support services. CASA requests a signed Supportive Housing Referral Agreement with each application. The role of the Agreement is to ensure the applicant/tenant has access to community resources and has the support to live successfully in their permanent housing and avoid a return to homelessness. The Agreement details the expectations CASA has for what support the referring agency should provide for the tenant prior to move in, and what ongoing support should be provided during the tenant's residency in a CASA apartment.

About CASA

When CASA was created nearly 25 years ago, our express direction was to develop, own and manage rental property specifically financed for and programmatically designed to serve persons with disabilities. These persons with disabilities were disproportionally represented within the homeless community and were, and unfortunately still are, among the poorest of our neighbors. CASA's mission has grown over the years to include other households in need of high-quality, affordable rental housing including veterans and working families. CASA currently owns and operates 30 units of affordable rental housing in Carrboro: the Club Nova Apartments downtown, 3 condos in Collins Crossing, and three small units off of Hillsborough Street.

CASA's approach has always been a Housing First model – we see day in and day out the power of a permanent home to provide stability, dignity, and safety to individuals and families with complex challenges. Getting a job, accessing health care, keeping in contact with a service provider, maintaining family stability – all of these things can be next to impossible when one is homeless or at imminent risk. All are made much more achievable when one has a door to lock, a bed to sleep in, and a home address.

I want to highlight some of CASA's particularly relevant experiences and qualifications to undertake this new construction project in Carrboro:

Mission and Focus

- CASA has developed, owns and manages over 400 apartments throughout the Triangle, of which 318 are
 permanent supportive housing. Even as we grow and develop larger communities incorporating workforce
 housing, our goal continues to be to leverage those higher rents to support the inclusion of permanent
 supportive housing units.
- In 2016, CASA celebrated the grand opening of 12 newly constructed apartments in Durham, all permanent supportive housing. This project was the second phase of an apartment community specifically for veterans with disabilities. It was completed under budget and was fully pre-leased over a month ahead of opening.

Real Estate Development Experience

• CASA is a Community Housing Development Organization (CHDO) and we have a full-time Housing



Developer on staff. We are experienced in real estate development processes and activities in a variety of municipalities. Our Housing Developer, CFO and CEO have many years of experience successfully developing rental housing, including all the activities involved with that including but not limited to: buying and selling property, rezoning, site plan approval, board of adjustment approval, new construction, substantial rehabilitation, hiring and overseeing architects, civil engineers, general contractors, coordinating environmental reviews, and obtaining a wide variety of construction and permanent financing.

Financial Stability

- In the past 10 years alone, CASA has developed 299 units of housing utilizing a spectrum of funding sources exceeding \$24 million. These include the development of 10 units of PSH in Chapel Hill at Pritchard Avenue Apartments, 5 blighted and abandoned duplexes that we redeveloped into permanent homes for persons with disabilities. In addition, we've partnered with a for-profit LIHTC developer on 124 tax credit units in 2 projects. As a small and nimble private non-profit, we can put in place creative financing and utilize any number of funding sources to achieve our development goals, including private philanthropy.
- CASA is a responsible steward of the funds we receive and the properties we own. Over the last 20 years we have preserved 76 apartments, including all 30 of CASA's Carrboro units, that were developed by other non-profits and were at risk of being lost to those communities. CASA understands what is necessary for a property to be well maintained and to be able to meet its operating expenses. We budget for and fund annually necessary replacement reserves for every property, and we maintain \$450,000 of operating reserves, designated by our Board, to cover staff, overhead and operations in the event of a significant set-back. Because of our proven track record and financial stability, we are able to attract federal, state and private funding for our projects.

Our Supportive Housing Model

- CASA provides comprehensive and compassionate property management. Our Leasing Team consists of our Housing Director, Arnetta Adams-Brown, 4 Leasing Specialists and a Leasing Administrator. They accomplish all components of leasing our units, and do so with a specialized knowledge of tenants' rights, fair housing laws, and the special needs of people with disabilities.
- CASA provides 24-hour on-call maintenance performed by our Maintenance Team, which currently consists of our Facilities Director, Neil Ritter, 4 full-time and 1 part-time Maintenance Technicians, and 1 full-time Landscape Manager. Along with comprehensive maintenance services including building renovations, routine work-order repairs and preventive maintenance, staff conduct monthly indoor safety inspections of all units.
- Unique to CASA's approach is that our goal for every tenant is that they never become homeless again. We put this goal into action through proactive and compassionate property management in partnership with each tenant's Service Provider. We request that every tenant identify a Service Provider when they submit their application for PSH. The vast majority do. The Service Provider equips CASA with an additional intervention opportunity when a tenant may be experiencing a financial or behavioral health issue that is jeopardizing their housing. CASA meets routinely with tenants and their Service Providers when problems arise to coach and support tenants to make better choices in their housing and be better neighbors. The goal is to have sufficient communication and intervention early on when an issue arises, before it becomes a crisis.



- We have an Orange County applicant pool of over 300 households who have met the initial eligibility threshold for CASA's permanent supportive housing. When a CASA apartment becomes available, the full applicant pool is searched for matching applicants who are invited to complete Part II of the application process. Using this streamlined process to identify eligible tenants, we are able to maintain a 2% or lower vacancy rate.
- CASA involves the persons we serve in project planning by conducting an annual tenant survey. Additionally we typically have a member on our Board of Directors who has experienced homelessness; we are currently working to fill a vacancy in that role.

Housing Subsidies

We accept a variety of housing subsidies and effectively coordinate with multiple organizations in order to provide affordable housing for our tenants.

- Section 8 vouchers from Orange, Durham, Raleigh and Wake Housing Authorities
- Shelter Plus Care subsidies from Wake County and Cardinal Behavioral Health
- VASH vouchers in partnership with Durham VAMC and Durham and Wake Housing Authorities
- Key Subsidies through the NCHFA
- HUD-811 Housing Assistance Payments (HAP)
- Various short term assistance payments from the faith community, Alliance BHC, and service providers

Coordination and Collaboration

- CASA has been an active member of the Orange County Partnership to End Homelessness, with our COO Mary Jean Seyda serving as a past Chair, as well as an active member of the OC Affordable Housing Coalition. Additionally, CASA has been involved in the creation of the Chapel Hill Housing Strategy and the Rental Housing Strategy, and Mary Jean currently serves on Chapel Hill's Affordable Housing Advisory Board.
- CASA's 30 units in Carrboro house persons receiving services and assistance through a variety of community partners including Cardinal Innovations, the UNC Center for Excellence in Mental Health, Community Empowerment Fund, Housing for New Hope, and the IFC.

Please see our Development History (attached) and our Capacity/Qualifications (attached).

Thank you for your consideration.

Sincerely,

Debra K. King

Delu K. King

CEO



Housing Development Experience

Completed in 2016

Denson Apartments for Veterans Phase 2

- o 12-unit multi-family rental new construction project in Durham, NC
- One-bedroom units will serve persons who are homeless or who have disabilities.
 Priority for all units is veterans
- Services provided by Durham VAMC.
- Funders are City of Durham, Home Depot Foundation, private donations, and bank financing for a total project cost of \$1.5 million

• 628 W Jones Street

- o 4 one-bedroom units purchase and rehab in Raleigh
- Project serves persons under 80% of AMI
- Expected total cost of \$750,000. Funders are City of Raleigh and CASA equity.

Completed in 2015

• Sherman Avenue

- o 11 one-bedroom units purchase and rehab in Raleigh
- Project serves persons under 40% AMI with disabilities; 2 units have a homeless requirement
- Total cost of \$919,000. Funders are City of Raleigh and Wake County and reinvested HUD-SHP funds.

Sunnybrook Village

- 42-unit purchase and rehab in Raleigh; 18 2 bedrooms and 24 1-bedrooms
- Project serves households 0-80% of AMI (11 units for HH under 40% with preference for persons with disabilities; 23 units for HH below 60%; 8 units for households 60-80%)
- Total cost \$3.13 million. Funders are City of Raleigh, Wake County, North State Bank

Lockwood Village

- 60-unit tax credit development in Wilmington, NC consisting of 1 and 2 bedroom apartments developed in partnership with SNW, LLC a private development company.
- o This development has six units set aside for persons with disabilities.
- Units are for families at 60% and below area median income.
- Funders are the City of Wilmington, NCHFA-State and Federal Tax Credits, and CICCAR at \$8.3 million.

• Sunnybrook Apartments Phase 2

- o 10-unit new one-bedroom units in Raleigh
- Project serves persons who are homeless and below 40% AMI. 2 tenants must be chronically homeless and preference is for persons with disabilities. Priority for all units is veterans
- o Services provided by Durham VAMC; all units have a project-based HUD-VASH subsidy
- Total cost of the project \$1.14 million. Funders are HUD-SHP, Wake County, and the City of Raleigh

Completed in 2014

Denson Apartments for Veterans Phase 1

- o 11-unit new construction project in Durham
- One-bedroom units will serve persons who are homeless, with at least 1 unit reserved for a person who is chronically homeless. Priority for all units is veterans
- Services provided by Durham VAMC, Healing with CAARE. Supportive service dollars and operating dollars are available with the HUD award
- Funders are HUD-SHP, City of Durham, NCHFA, Home Depot Foundation, and private donations for a total project cost of \$1.49 million

Completed in 2013

Sunnybrook Apartments Phase 1

- o 10-unit new construction project creating one-bedroom units in Raleigh
- Project will serve 3 persons who are chronically homeless with disabilities and all tenants must be under 40% AMI. Priority for all units is veterans
- Services provided by Durham VAMC, Wake County LME
- Total cost of the project \$1.25 million. Funders are HUD-SHP, Wake County, and the City of Raleigh

Shirley Strobel Apartments

- Assumed ownership of a 12-unit apartment building in Durham after Next Step Housing,
 a Durham nonprofit, merged with CASA
- These efficiency apartments serve people with disabilities

Completed in 2012

Cedar Street

- o Purchase and moderate rehab of a quadraplex in downtown Cary
- Two-bedroom units serve workers earning less than 50% AMI (2 units) and 40% AMI (2 units)
- Funders are the Town of Cary with CDBG funds and Wake County with HOME funds totaling \$318,920

Completed in 2011

Club Nova Apartments

- Assumption of ownership of 24 efficiency units in downtown Carrboro
- Formerly a tax-credit property, CASA refinanced this property with a loan from the NCHFA and completed renovations totaling \$101,971.
- All 24 units have project-based Section 8 subsidy and serve persons with mental illness

• 217 W Geer Street

- Purchased and completely rehabilitated 1940s home into an apartment building comprised of 7 one and two-bedroom apartments located in downtown Durham.
- Units serve Durham's workforce households earning less than 50% of the AMI
- Funders are City of Durham through HOME and HUD-Neighborhood Stabilization Program at \$830,000.

Robertson Hill

- o A nine-unit new construction project in the City of Raleigh.
- One-bedroom units serve adults with disabilities
- Large community space with full kitchen provides ample meeting space for service providers and other groups
- Funder is HUD 811 Program at \$1.3 million.

Completed in 2010

Chrysalis Project

- Purchased and rehabbed 15 two-bedroom, 4 one-bedroom apartments and one single family home located in Orange County.
- Units serve adults of low wealth with disabilities.
- Assumed ownership of 20 units from another non-profit who ceased operation.
- Funders are Orange County and the Town of Chapel Hill at \$907,358.

George's Mews

- o Purchased and rehabbed 26 one-bedroom apartments located in Raleigh.
- It is a mixed use community with ten units set aside for adults earning less than 60% of the AMI, eight units for adults earning less than 40% of the AMI, and eight units for adults with disabilities who earn less than 30% of the AMI.
- Funders are CASA, City of Raleigh, Wake County, Community Investment Corporation of the Carolinas (CICCAR) and North Carolina Housing Finance Agency (NCHFA) at \$2.2 million.

Completed in 2009

Carlton Apartments

- o Purchased and rehabbed 4 one-bedroom apartments located near NC State's campus.
- Tenants earn below 40% of the area medium income and may have a disability.
- o Funders are the City of Raleigh and Wake County at \$293,403.

Pritchard Avenue Apartments

- Purchased and rehabbed 5 duplexes (a total of 10-1 bedroom units) located in Chapel Hill for individuals who have a disabling condition or have been homeless, earning 0 – 40% of AMI.
- o Funders are Orange County and the Town of Chapel Hill at \$1.1 million.

Salisbury Apartments

- Newly constructed 10 one bedroom apartments serving persons who are chronically homeless and have a disability.
- Funders are HUD- Supportive Housing Program (SHP) with matching funds from the City of Raleigh, Wake County, a private foundation and NCHFA at \$1.21 million.

Completed in 2008

Vesson Apartments

- o Purchased and rehabbed 10 one-bedroom apartments located in Durham
- o It is a mixed use community with 4 units set aside for persons with disabilities
- o The funder is the City of Durham at \$660,486.

Hope Crest

- Newly constructed 10 one bedroom apartments serving persons who are chronically homeless with a disability.
- Funders are HUD-SHP with matching dollars from the City of Raleigh, Wake County,
 NCHFA, and a private foundation at \$1.25 million.

• Buchanan Apartments

- Purchased and rehabbed 4 apartments for individuals with disabilities who may also be homeless.
- The funder is the City of Durham at \$326,070

Completed in 2007

Crest Commons

- Purchased and rehabbed a 19 unit complex of one bedroom apartments near NC State's campus.
- These units house individuals of low wealth, many of whom have a disability.
- o Funders are the City of Raleigh, Wake County and CASA at \$1 million.

Hester Street Apartments

- Purchased and rehabbed 8 one bedroom units for persons with a disability in Knightdale, NC.
- Funders are Wake County, CASA and the NC Mental Health Housing Trust Fund at \$616,951.
- All 8 units have project-based Section 8 subsidy

Waterbrook

- Newly constructed a 64-unit Low Income Housing Tax Credit (LIHTC) project of 1 and 2 bedroom apartments developed in partnership with SNW, LLC a private development company.
- o This development has seven units set aside for persons with disabilities.
- o All 64 units serve persons who are elderly at 40% and below area median income.
- Funders are the City of Raleigh, Wake County, NCHFA-State and Federal Tax Credits, and CICCAR at \$6.8 million.

Completed in 2006

Oak Hollow

- Newly constructed 10 two-bedroom apartments for families who are homeless and have a disability.
- Funders are HUD-SHP with matching dollars from the City of Raleigh, Wake County, NCHFA and CASA at \$1.4 million dollars.

Oak Hill

- Newly constructed 14 one-bedroom apartments for adults with disabilities.
- o Funders are HUD 811 at \$1.3 million.

Qualifications of the Developer

CASA's mission is to develop affordable housing and opportunities for successful living. CASA believes that all people, regardless of income, deserve a decent, safe place to call home and that people with disabilities should be allowed to choose where they will live just like everyone else.

CASA's mission is carried out by our 24 member staff: 22 full time and 2 part-time. CASA's employees have a mixture of housing expertise, business management backgrounds and supportive service experience. Our three-member management team is overseen by our Board of Directors. The experience and areas of focus of our management team are detailed below:

Debra King, Chief Executive Officer – Ms. King has been CASA's leader since 1995. As CEO, she oversees all our work creating high-quality homes for our neighbors in need, and ensuring that every one of our tenants has the opportunity to live successfully in their permanent home. Debra is a past Chair of the Wake County Partnership to End Homelessness. She also has her North Carolina Real Estate License.

Mary Jean Seyda, Chief Operations Officer – Ms. Seyda has been with CASA since 2001 and has an extensive background in homeless service program design, development and management. She is well versed in HUD regulations and oversees the day-to-day operations at CASA. Mary Jean is past Chair of Orange County's Partnership to End Homelessness. She is currently serving on the Town of Chapel Hill's Housing Advisory Board, to which she was appointed by Town Council.

Debbie White, Chief Financial Officer – Ms. White and her staff oversee all financial activities of our agency including a nearly \$4 million annual operating budget. She is responsible for the budgets for all CASA Programs and developments, monitors the expenditure of grant funds, and assures that CASA meets its financial obligations to funders, vendors, and tenants. Before joining CASA in 2005, Debbie spent twelve years in public accounting and has broad knowledge of accounting system design for both non-profit and for-profit entities.

Jess Brandes, Housing Developer – Ms. Brandes has a background in non-profit financial development and a Masters in City and Regional Planning. She serves as CASA's project manager, overseeing and coordinating development activity from project conception and funding through the completion of construction. Jess works closely with CEO Debra King to ensure that projects move forward on schedule and on budget while adhering to the development regulations of various municipalities, and the project requirements of various funders. She has worked at CASA since 2008. She has overseen the development of 7 rehab projects and 6 new construction projects.

Arnetta Adams-Brown, Housing Director – Ms. Adams-Brown has been with CASA since 2005 and came to us from the market-rate property management field. She supervises the leasing staff that has more than 30 years of experience leasing apartments for low-income households and working patiently with tenants who have disabilities. The leasing staff meet weekly to work on resolving tenant issues and ensuring funding and program compliance for CASA's 400+ apartments scattered throughout the

Triangle. These professionals communicate frequently with service providers to address tenant needs both before and after they are housed with the goal that every tenant remain successfully housed. Our Leasing Specialists also have experience administering rental subsidies.

Neil Ritter, Facilities Director – Mr. Ritter came to CASA in 2010 with 13 years of conventional housing experience working in both facilities maintenance and general contracting. Neil coordinates the day to day maintenance activity for CASA, supervising 4 maintenance technicians. He coordinates work orders (through Property Boss, property management software), make readies, on call, preventative maintenance, and vendors and provides input to all the property budgets. CASA's three maintenance technicians have over 40 years of experience and include a licensed NC building inspector.