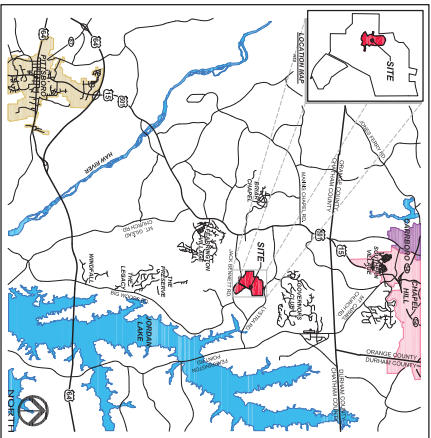


CONSTRUCTION PLANS FOR WESTFALL PHASE 2A

CHATHAM COUNTY, NORTH CAROLINA
APRIL 12, 2013
REVISED: MAY 20, 2013



VICINITY MAP
NTS

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EXISTING CONDITIONS PLAN	2
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PHASE 1 EROSION CONTROL PLAN	4A
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GENERAL NOTES

- EXISTING UNDERGROUND STRUCTURES AND UTILITIES SHOWN ARE BASED ON FIELD SURVEYS AND BEST AVAILABLE RECORDED DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL UTILITIES, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL AT 1-800-333-4444.
- ALL WATER UTILITY CONSTRUCTION SHALL CONFORM TO THE CHATHAM COUNTY STANDARDS AND SPECIFICATIONS.
- ALL SANITARY SEWER UTILITY CONSTRUCTION SHALL CONFORM TO AQUA OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
- THE SUBJECT PROPERTY IS LOCATED IN A FLOOD HAZARD AREA PER FEMA FIRM 15050C0010. THE CONTRACTOR SHALL VERIFY THE FLOOD HAZARD ZONING AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- SOIL RESPONSES SHALL BE OBTAINED AND REPORTED BEFORE CONSTRUCTION IS TO BEGIN. ANY TESTING IS SCHEDULED ON BEFORE ANY PILE IS COVERED.



301 GLENWOOD AVE, SUITE 220
RALEIGH, NC 27603
PHONE: 919-367-8790
www.cegroupinc.com

PROPERTY OWNER
WESTFALL ASSOCIATES, LLC.
140 DOWNVIEW COURT
COLUMBIAN DRIVE
CONTRACT: COLINDR DIVISION
PHONE: (919) 463-8940 EXT. 104

NO.	REVISIONS	DATE
3	REVISED PER CHATHAM CO. PUBLIC WATER COMMENTS.	05/20/13
2	WATER REV. PER CHATHAM CO. PUBLIC WORKS REVIEW.	05/06/13
1	REVISED PER AQUA OF NC COMMENTS.	04/22/13

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Professional Seal
15/04/13
SEAL
1888

WESTFALL SUBDIVISION
PHASE 2A CONSTRUCTION PLANS
COVER
WILLIAMS TOWNSHIP
CHATHAM COUNTY, NORTH CAROLINA

Scale: _____
Date: APRIL 12, 2013
Checked by: ACS
Drawn by: ALP
Project No: 800-12
Contract Title: Westfall Subdivision Construction Plans

FINAL DRAWINGS
FOR REGULATORY
REVIEW ONLY
NOT RELEASED
FOR CONSTRUCTION





GENERAL NOTES

1. EXISTING UNDERGROUND STRUCTURES AND UTILITIES SHOWN ARE BASED ON FIELD SURVEYS AND BEST AVAILABLE RECORDED DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO STARTING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
2. THE CONTRACTOR SHALL CALL AT LEAST 48 HOURS PRIOR TO ANY DIGGING.
3. ALL WATER UTILITY CONSTRUCTION SHALL CONFORM TO THE CHATHAM COUNTY STANDARDS AND SPECIFICATIONS.
4. ALL SANITARY SEWER UTILITY CONSTRUCTION SHALL CONFORM TO ADOA OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
5. THE SUBJECT PROPERTY IS LOCATED IN A 100' HAZARDOUS AREA PER FEMA FIRM PANEL 9799 MAP NUMBER 97099900A, DATED FEBRUARY 2, 2007.
6. ADOA PERSONNEL SHALL BE NOTIFIED 48 HOURS BEFORE CONSTRUCTIONS IS TO BEGIN. ANY TESTING IS SCHEDULED ON BEFORE ANY PIPE IS COVERED.

SITE DATA

PROPERTY AREA - 108.44 ACRES
 PROJECT AREA - 26.58 ACRES
 PIN - 97-065-08-020
 ZONED R-1 (VI) CUP for PRD
 STEEP SLOPES AREA PER CHATHAM COUNTY GIS
 PROPOSED DISTURBED LIMITS



STOP
 BEFORE YOU DIG CALL
 THE NC ONE CALL CENTER
 1-800-325-4049
 IT'S THE LAW!

FINAL DRAWINGS
 FOR REGULATORY
 REVIEW ONLY
 NOT RELEASED
 FOR CONSTRUCTION



60° 30' 0 90° 120°
 SCALE: 1" = 60'

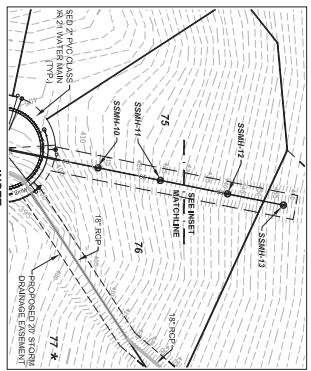
NO.	REVISIONS	DATE
3	REVISED PER CHATHAM CO. PUBLIC WORKS COMMENTS.	05/20/13
2	WATER REV. PER CHATHAM CO. PUBLIC WORKS REVIEW.	05/06/13
1	REVISED PER AQA OF NC COMMENTS.	04/22/13

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**WESTFALL SUBDIVISION
 PHASE 2A CONSTRUCTION PLANS
 EXISTING CONDITIONS PLAN**
 WILLIAMS TOWNSHIP
 CHATHAM COUNTY, NORTH CAROLINA

Sheet No: **2**
 OF 2
 Date: APRIL 12, 2012
 Scale: 1" = 60'
 ACS
 Checked: AJF
 Project: 800-1-2
 Computer this sheet: 800-7-XXXX-1-27-12-04-13



LEGEND

- ◆ FIRE HYDRANT
- 2" WATER MAIN
- 6" WATER MAIN
- SEWER FORCE MAIN
- REINFORCED CONCRETE PIPE STORM DRAINAGE
- RISER / YARD INLET
- CURB INLET
- ▶ FLARED END SECTION
- ◻ AIR RELEASE VALVE
- WATER SERVICE
- REDUCER
- WATER SERVICE
- SEWER SERVICE
- SSWM SANITARY SEWER MANHOLE
- PLUG / END CAP

GENERAL NOTES

- EXISTING UNDERGROUND UTILITIES SHOWN ON THIS DRAWING ARE BASED ON FIELD SURVEYS AND BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL AT 1-800-4-A-SHARE.
- ALL WATER UTILITY CONSTRUCTION SHALL CONFORM TO THE CHATHAM COUNTY STANDARDS AND SPECIFICATIONS.
- ALL SANITARY SEWER UTILITY CONSTRUCTION SHALL CONFORM TO AQA OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
- THE SUBJECT PROPERTY IS LOCATED IN A FLOOD HAZARD AREA. PER FEMA FIRM 19010-0101, THE SUBJECT PROPERTY IS LOCATED IN A FLOOD HAZARD AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS TO BEGIN ANY STRUCTURE IS SCHEDULED OR BEFORE ANY FLOODING.

NOTES

- ANY LOT WHICH CONNECTS TO THE SANITARY SEWER SHALL AGENCY SERVICE CONNECTION WILL REQUIRE A SEWER BACKWATER VALVE IF THE FINISHED FLOOR ELEVATION IS LOWER THAN THE UPSTREAM MANHOLE RIM ELEVATION.
- DEPENDING UPON FINAL PLOT LOTS MAY REQUIRE INDIVIDUAL GROUND PUMP STATION INSTALLATION AND CONNECTION TO DOWNSTREAM SEWER LINE.
- REFER TO ROADWAY PLAN / PROFILES FOR DETAILED UTILITY INFORMATION.

FINAL DRAWINGS
FOR REGULATORY
REVIEW ONLY
NOT RELEASED
FOR CONSTRUCTION

STOP!
BEFORE YOU DIG CALL
THE NC ONE CALL CENTER
AT 1-800-4-A-SHARE
IT'S THE LAW!

NORTH

Scale: 1" = 60'

Scale: 1" = 60'

Scale: 1" = 60'

Scale: 1" = 60'

NO.	REVISIONS	DATE
4	REVISED PER CHATHAM CO. PUBLIC WORKS COMMENTS	05/20/13
3	WATER REV. PER CHATHAM CO. PUBLIC WORKS REVIEW	05/08/13
2	MISC. REVISIONS TO WATER AND STORM SER.	04/22/13
1	REVISED PER AQA OF NC COMMENTS.	04/22/13

CE GROUP

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FLOOR
RALEIGH NC 27603
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FAX: 919-272-0222

www.cegroupinc.com

License # C-1739

SEALS

1888

1888

WESTFALL SUBDIVISION
PHASE 2A CONSTRUCTION PLANS
OVERALL UTILITY PLAN
WILLIAMS TOWNSHIP
CHATHAM COUNTY, NORTH CAROLINA

Sheet No: **3** OF 1

Scale: 1" = 60'

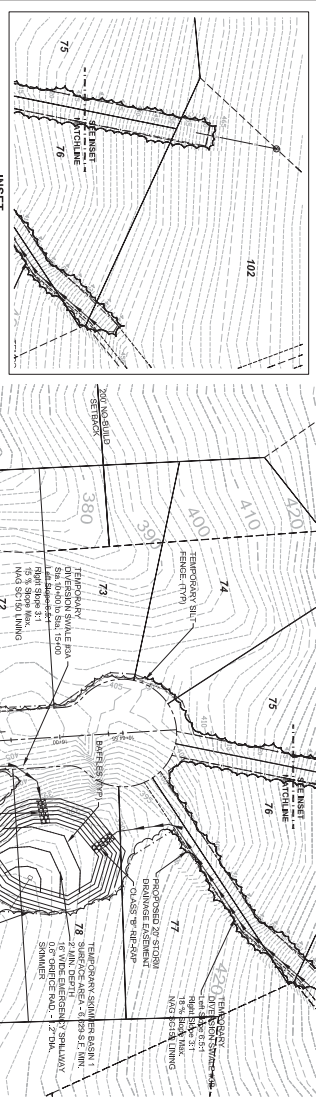
Date: APRIL 12, 2013

Drawn: ACS

Checked: AJF

Project: 800-12

Computer File Name: 800-12 Westfall Subdiv



EROSION CONTROL NOTES

1. EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL THE EROSION CONTROL AREA IS FULLY RESTORED TO ORIGINAL OR BETTER CONDITION. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL EROSION CONTROL MEASURES AND MATERIALS USED. RECORDS SHALL BE MADE AVAILABLE TO THE ENGINEER FOR REVIEW AT ANY TIME. EROSION CONTROL SHALL BE REMOVED OR REPAIRED IMMEDIATELY UPON COMPLETION OF THE PROJECT.

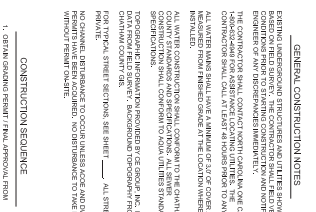
2. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE CHATHAM COUNTY EROSION CONTROL MANUAL AND ALL APPLICABLE REGULATIONS. THE CHATHAM COUNTY EROSION CONTROL MANUAL IS AVAILABLE AT: www.chathamcountync.gov/planning/erosion-control-manual

3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES. EROSION CONTROL MEASURES SHALL NOT BE INSTALLED OR MAINTAINED IN SUCH A MANNER AS TO OBSTRUCT ACCESS TO ANY ADJACENT PROPERTY.

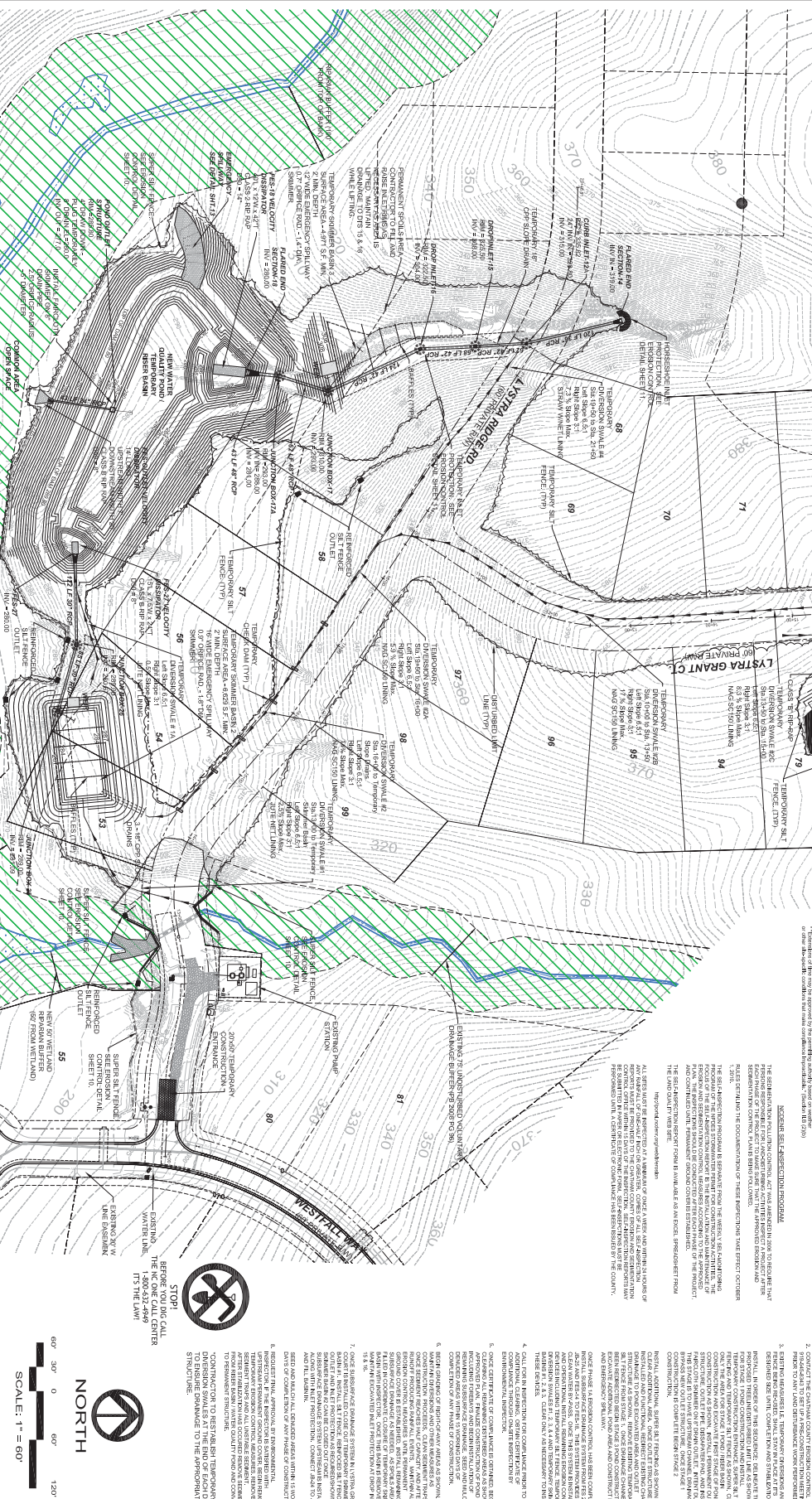
4. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL THE EROSION CONTROL AREA IS FULLY RESTORED TO ORIGINAL OR BETTER CONDITION.

5. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL THE EROSION CONTROL AREA IS FULLY RESTORED TO ORIGINAL OR BETTER CONDITION.

GROUND STABILIZATION	STABILIZATION METHOD	DESCRIPTION	PERCENTAGE
HYDROSEEDING	50/50	50% TURF TILES AND 50% HYDROSEEDING	75%
	75/25	75% TURF TILES AND 25% HYDROSEEDING	75%
CONCRETE CURB	14/99	14" HIGH CONCRETE CURB WITH 99% POLYMER	75%
	18/99	18" HIGH CONCRETE CURB WITH 99% POLYMER	75%
	24/99	24" HIGH CONCRETE CURB WITH 99% POLYMER	75%



- GENERAL CONSTRUCTION NOTES**
- EXISTING AND PROPOSED UTILITY LINES AND LOTS SHALL BE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITY LINES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL UTILITY LINES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES.
 - ALL UTILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL THE EROSION CONTROL AREA IS FULLY RESTORED TO ORIGINAL OR BETTER CONDITION.
 - THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES. EROSION CONTROL MEASURES SHALL NOT BE INSTALLED OR MAINTAINED IN SUCH A MANNER AS TO OBSTRUCT ACCESS TO ANY ADJACENT PROPERTY.
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 - THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES. EROSION CONTROL MEASURES SHALL NOT BE INSTALLED OR MAINTAINED IN SUCH A MANNER AS TO OBSTRUCT ACCESS TO ANY ADJACENT PROPERTY.



STOP!
BEFORE YOU CALL
THE NC ONE CALL CENTER
FOR YOUR UTILITY LINES,
IT'S THE LAW!

NORTH

SCALE: 1" = 80'

WESTFALL SUBDIVISION
PHASE 2A CONSTRUCTION PLANS
PHASE 1 EROSION CONTROL PLAN
WILLIAMS TOWNSHIP
CHATHAM COUNTY, NORTH CAROLINA

CE GROUP
301 GLENWOOD AVE 200
RALEIGH, NC 27603
PHONE: 919.327.0022
WWW.CEGROUP.COM

License # C-1739

NO.	REVISIONS	DATE
1	REVISION PER CHATHAM CO. PUBLIC WORKS COMMENTS	08/25/13
2	REVISION PER CHATHAM CO. PUBLIC WORKS COMMENTS	05/20/13
3	WATER REV. PER CHATHAM CO. PUBLIC WORKS REVIEW	05/08/13

Sheet No. 4

Scale: 1" = 80'

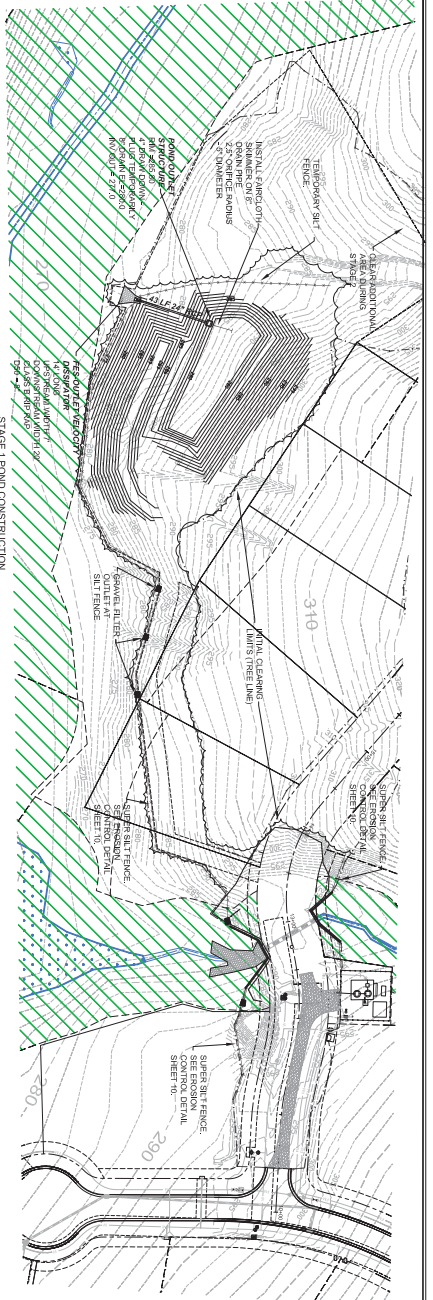
Date: APRIL 12, 2013

Drawn: ACS

Checked: ALP

Project: 800-12

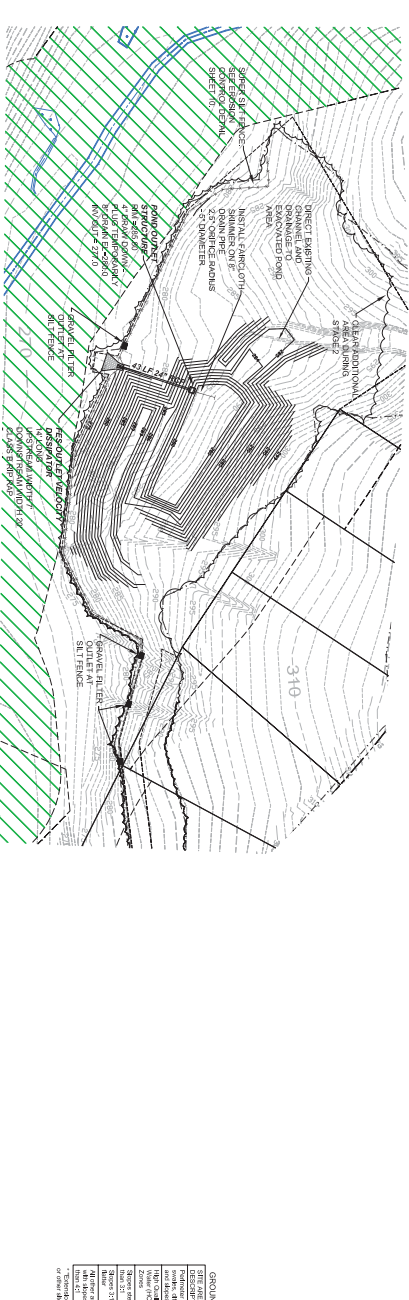
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- EROSION CONTROL LEGEND**
- TEMPORARY TRENDLINE
 - TEMPORARY DAM BREASTWORK
 - TEMPORARY DAM BREASTWORK
 - TEMPORARY SILT FENCE
 - TEMPORARY STAKE CHECK DAM
 - TEMPORARY TRAP AND TRAP
 - TEMPORARY SILT FENCE
 - TEMPORARY SILT PROTECTION
 - LIMIT OF DISTURBANCE
 - LINE LINE

EROSION CONTROL NOTES

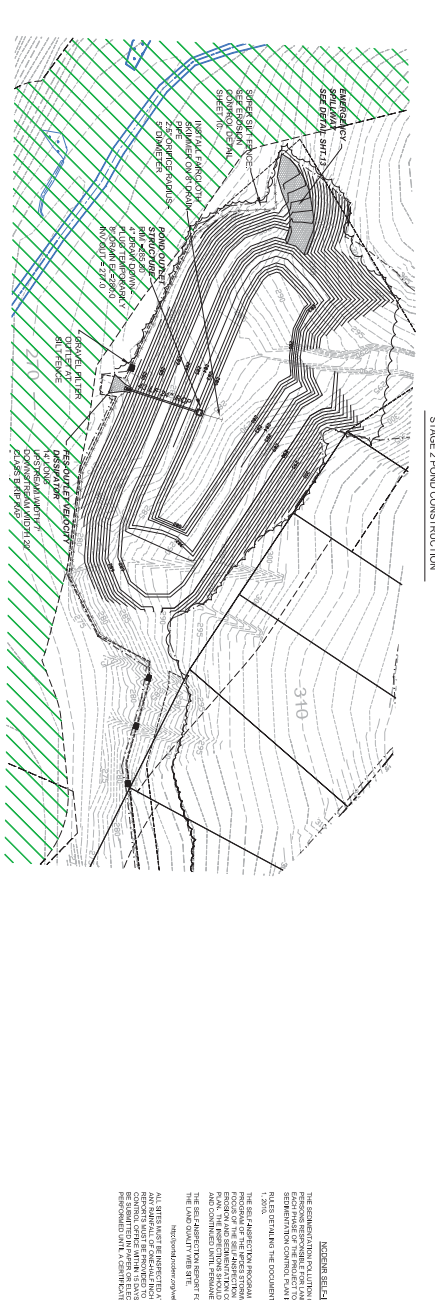
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
- STAKE CHECK DAMS SHALL BE CONSTRUCTED TO WITHSTAND THE DESIGN FLOOD FLOW AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. STAKE CHECK DAMS SHALL BE CONSTRUCTED TO WITHSTAND THE DESIGN FLOOD FLOW AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
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GROUND STABILIZATION

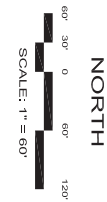
PROPOSED AREA	STABILIZATION METHOD	STABILIZATION TIME	STABILIZATION COST
1. 7' x 7' x 7' (ft)	None	None	None
2. 7' x 7' x 7' (ft)	None	None	None
3. 7' x 7' x 7' (ft)	None	None	None
4. 7' x 7' x 7' (ft)	None	None	None
5. 7' x 7' x 7' (ft)	None	None	None
6. 7' x 7' x 7' (ft)	None	None	None

GENERAL CONSTRUCTION NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
- STAKE CHECK DAMS SHALL BE CONSTRUCTED TO WITHSTAND THE DESIGN FLOOD FLOW AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
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STOP!
NO CONSTRUCTION BEYOND THIS POINT
SEE SLOPE DETAIL SHEET NO. 301-11-001
FOR THE EXACT LOCATION OF THIS SIGN.



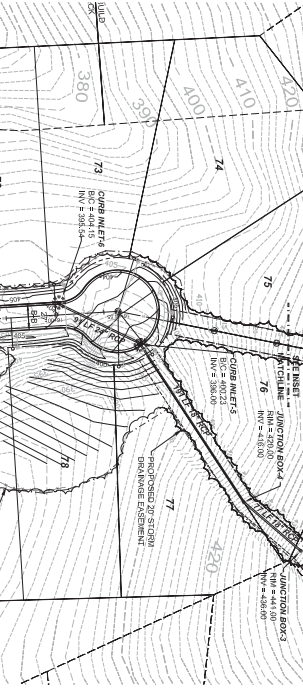
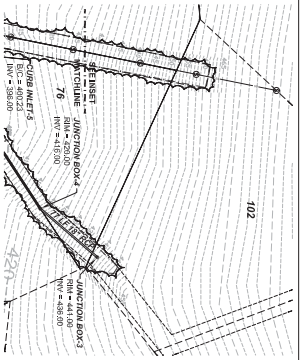
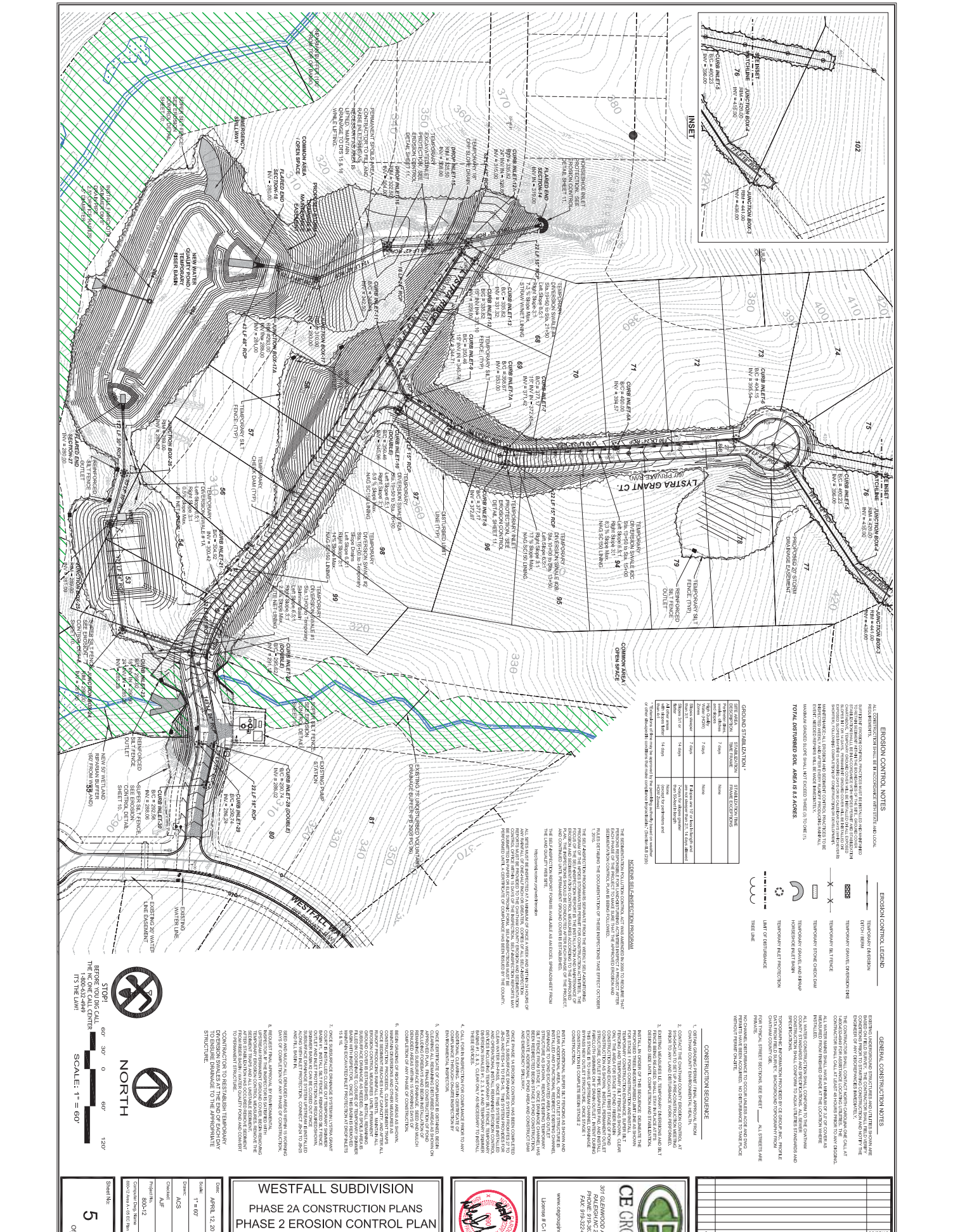
NO.	REVISIONS	DATE
1	WATER REV. PER CHATHAM CO. PUBLIC WORKS REVIEW.	05/08/13
2	REVISED PER CHATHAM CO. PUBLIC WORKS COMMENTS.	05/20/13
3	REVISED PER CHATHAM CO. EIC COMMENTS.	06/25/13

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www.cegroupinc.com
License # C-1739



WESTFALL SUBDIVISION
PHASE 2A CONSTRUCTION PLANS
PHASE 1A EROSION CONTROL PLAN
WILLIAMS TOWNSHIP
CHATHAM COUNTY, NORTH CAROLINA

DATE	SCALE	PROJECT	CLIENT
APRIL 12, 2013	1" = 50'	WESTFALL SUBDIVISION	WESTFALL SUBDIVISION
PROJECT NO.	4A		



GROUND STABILIZATION

SIZE AREA	STABILIZATION TYPE	STABILIZATION TIME
Project Area	7.850	None
Non-Project Area	7.850	None
Total	15.700	None
Notes	1. All areas are 1/2" or less than 1/2" in depth and 1/2" or less than 1/2" in width.	
Notes	2. All areas are 1/2" or less than 1/2" in depth and 1/2" or less than 1/2" in width.	
Notes	3. All areas are 1/2" or less than 1/2" in depth and 1/2" or less than 1/2" in width.	
Notes	4. All areas are 1/2" or less than 1/2" in depth and 1/2" or less than 1/2" in width.	
Notes	5. All areas are 1/2" or less than 1/2" in depth and 1/2" or less than 1/2" in width.	
Notes	6. All areas are 1/2" or less than 1/2" in depth and 1/2" or less than 1/2" in width.	
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Notes	8. All areas are 1/2" or less than 1/2" in depth and 1/2" or less than 1/2" in width.	
Notes	9. All areas are 1/2" or less than 1/2" in depth and 1/2" or less than 1/2" in width.	
Notes	10. All areas are 1/2" or less than 1/2" in depth and 1/2" or less than 1/2" in width.	

EROSION CONTROL LEGEND

	TEMPORARY EROSION CONTROL
	TEMPORARY SILT FENCE
	TEMPORARY SILT FENCE WITH CHECK DAM
	TEMPORARY SILT FENCE WITH CHECK DAM AND CHECK DAM
	TEMPORARY SILT FENCE WITH CHECK DAM AND CHECK DAM AND CHECK DAM
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GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES UNLESS OTHERWISE NOTED.

3. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES UNLESS OTHERWISE NOTED.

4. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES UNLESS OTHERWISE NOTED.

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8. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES UNLESS OTHERWISE NOTED.

9. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES UNLESS OTHERWISE NOTED.

10. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES UNLESS OTHERWISE NOTED.

CONSTRUCTION SCHEDULE

NO.	REVISIONS	DATE
1	REVISED PER CHATHAM CO. PUBLIC WORKS COMMENTS	05/20/13
2	REVISED PER CHATHAM CO. PUBLIC WORKS COMMENTS	05/20/13
3	REVISED PER CHATHAM CO. PUBLIC WORKS COMMENTS	05/20/13
4	REVISED PER CHATHAM CO. PUBLIC WORKS COMMENTS	05/20/13
5	REVISED PER CHATHAM CO. PUBLIC WORKS COMMENTS	05/20/13

DATE: APRIL 12, 2013

SCALE: 1" = 60'

CHATHAM COUNTY

WESTFALL SUBDIVISION

PHASE 2A CONSTRUCTION PLANS

PHASE 2 EROSION CONTROL PLAN

WILLIAMS TOWNSHIP

CHATHAM COUNTY, NORTH CAROLINA

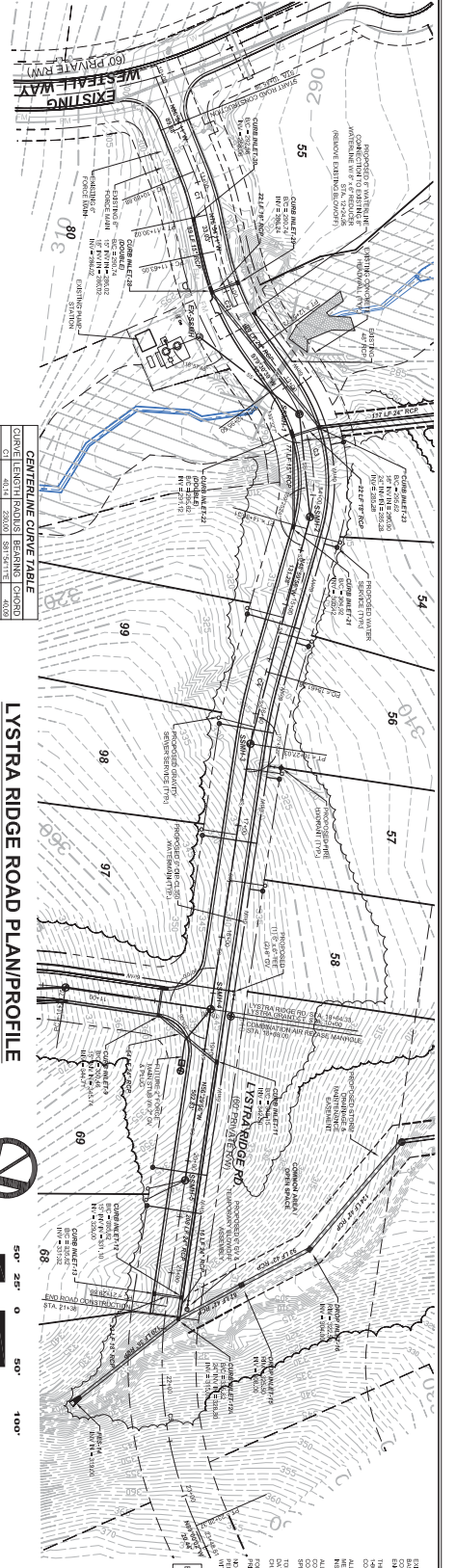


STOP! BEFORE YOU CALL THE WORK CALL CENTER IT'S THE LAW!

SCALE: 1" = 60'

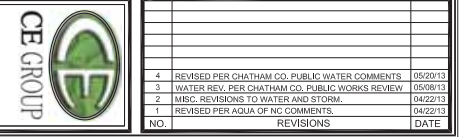
NORTH

5 OF 1



CURVE LENGTH BEGINS CHORD

Curve	Station	Length	PC	PT	PI	EA	EB	EC
C1	273.00	100.00	273.00	283.00	278.00	1.00%	1.00%	1.00%
C2	283.00	100.00	283.00	293.00	288.00	1.00%	1.00%	1.00%
C3	293.00	100.00	293.00	303.00	298.00	1.00%	1.00%	1.00%



LYSTRA RIDGE ROAD PLAN/PROFILE
 HORIZONTAL SCALE 1"=50'
 VERTICAL SCALE 1"=5'

GENERAL CONSTRUCTION NOTES

1. ALL WATER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CHATHAM COUNTY PUBLIC WATER DEPARTMENT'S STANDARDS AND SPECIFICATIONS FOR WATER MAINS.
2. ALL WATER MAINS SHALL BE 18" DIA. UNLESS OTHERWISE NOTED.
3. ALL WATER MAINS SHALL BE 15' DEEP UNLESS OTHERWISE NOTED.
4. ALL WATER MAINS SHALL BE 15' DEEP UNLESS OTHERWISE NOTED.
5. ALL WATER MAINS SHALL BE 15' DEEP UNLESS OTHERWISE NOTED.

FINAL DRAWINGS FOR REGULATORY REVIEW ONLY NOT RELEASED FOR CONSTRUCTION

CE GROUP
 301 GLENWOOD AVE 2ND
 FAYETTEVILLE, NC 28530
 PHONE: 919-327-0222

WESTFALL SUBDIVISION
 PHASE 2A CONSTRUCTION PLANS
 LYSTRA RIDGE RD PLAN/PROFILE
 WILLIAMS TOWNSHIP
 CHATHAM COUNTY, NORTH CAROLINA

Scale: 1" = 50'
 Date: APRIL 12, 2013
 Checked: ACS
 Drawn: ALP
 Project: 800-1-2
 Computer File Name: 800-1-2-13-01.dwg
 Sheet No: 6 OF 1

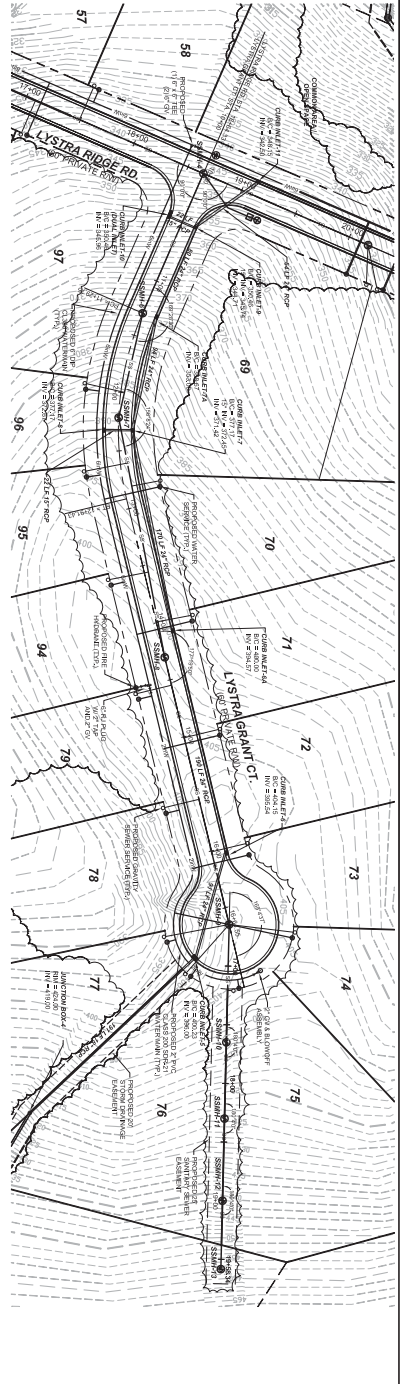
NO.	REVISIONS	DATE
4	REVISED PER CHATHAM CO. PUBLIC WATER COMMENTS	05/20/13
3	WATER REV. PER CHATHAM CO. PUBLIC WORKS REVIEW	05/08/13
2	MISC. REVISIONS TO WATER AND STORM	04/22/13
1	REVISED PER AQUA OF NC COMMENTS	04/22/13

STOP! NO CONSTRUCTION

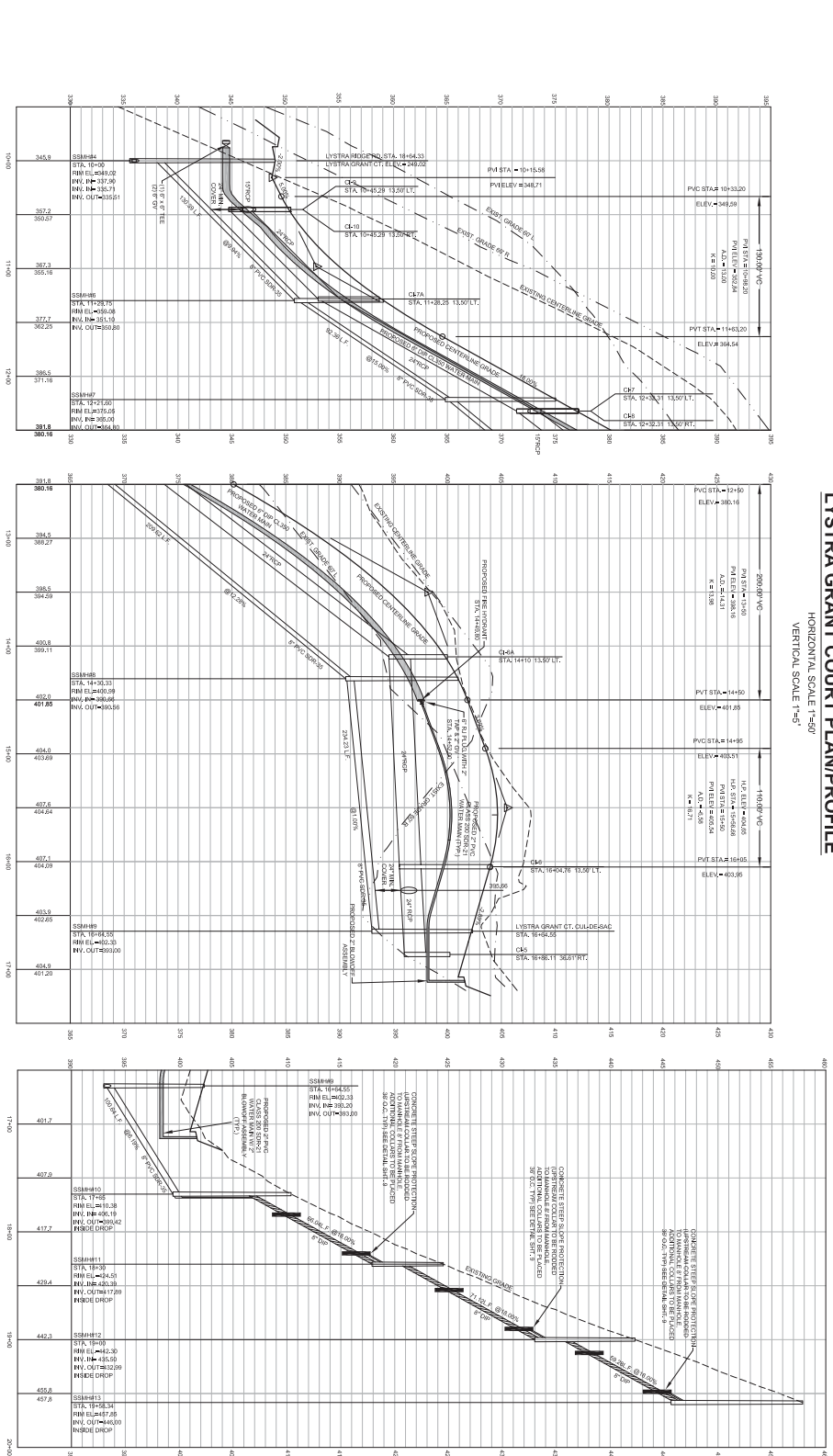
APPROXIMATE LOCATION OF THE CHATHAM COUNTY CENTER IS SHOWN BY THE LINES

NORTH

SCALE: 1" = 50'



LYSTRA GRANT COURT PLAN/PROFILE
HORIZONTAL SCALE 1"=50'
VERTICAL SCALE 1"=5'



GENERAL CONSTRUCTION NOTES:

EXISTING UNDERGROUND UTILITIES ARE SHOWN BY THE DASHED LINES AND THE PROPOSED UNDERGROUND UTILITIES ARE SHOWN BY THE SOLID LINES. THE LOCATION OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.

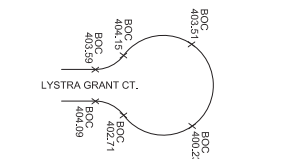
ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CHATHAM COUNTY PUBLIC WORKS DEPARTMENT'S STANDARD SPECIFICATIONS FOR ROAD AND STORM DRAINAGE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.

ALL STREETS ARE TO BE CONSTRUCTED TO OCCUPY THE FULL WIDTH OF THE RIGHT-OF-WAY. ALL STREETS ARE TO BE CONSTRUCTED TO OCCUPY THE FULL WIDTH OF THE RIGHT-OF-WAY.

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NO.	REVISIONS	DATE



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Scale: 1" = 50'

Drawn: ACS

Checked: AJF

Project: 800-1-2

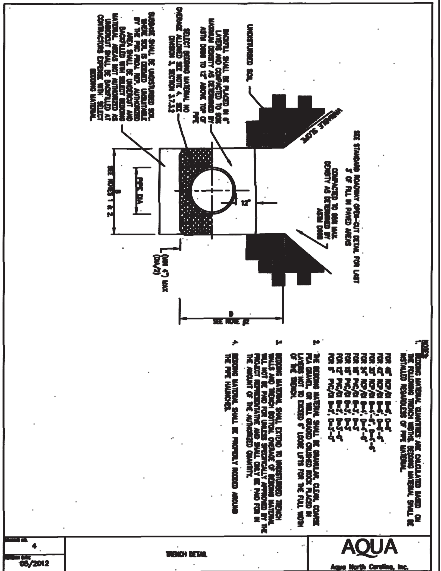
Sheet No: 7

Date: APRIL 12, 2013

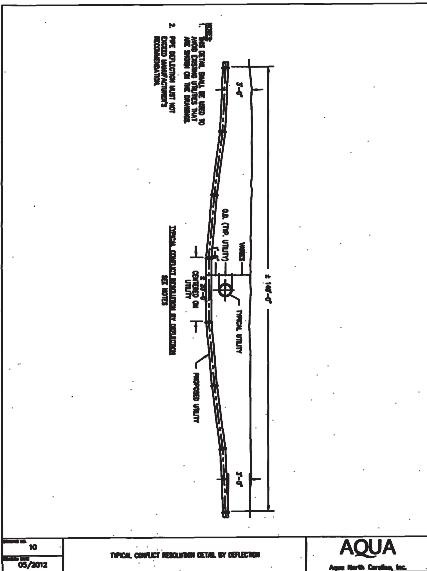
WESTFALL SUBDIVISION
PHASE 2A CONSTRUCTION PLANS
LYSTRA GRANT CT PLAN/PROFILE
WILLIAMS TOWNSHIP
CHATHAM COUNTY, NORTH CAROLINA

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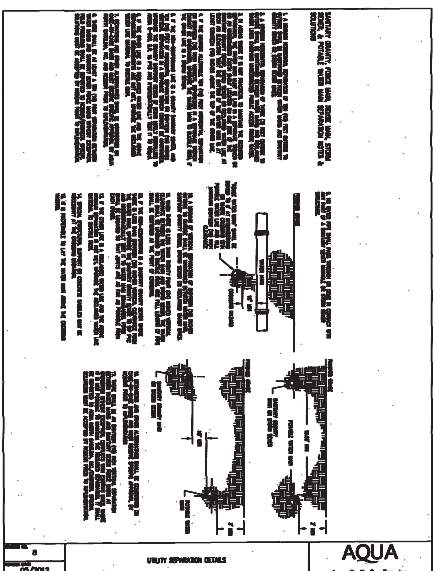
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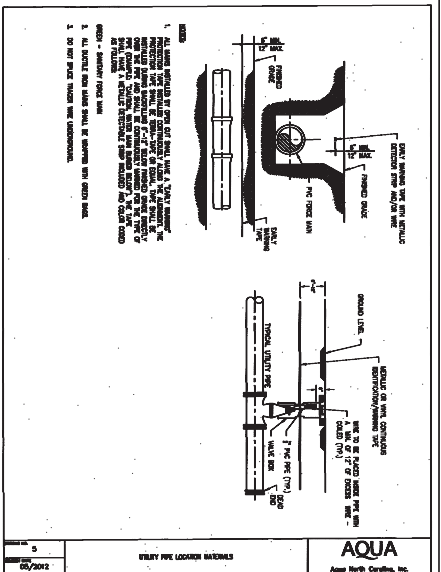
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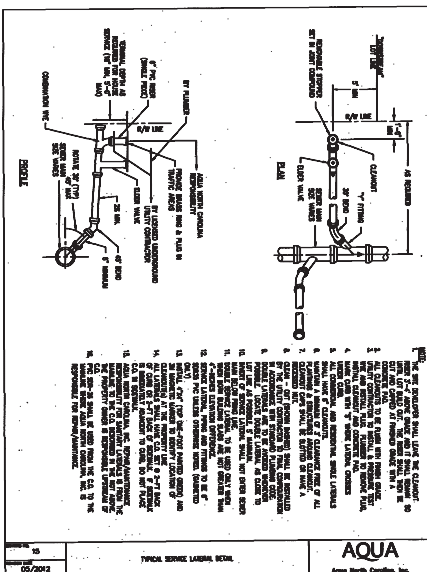
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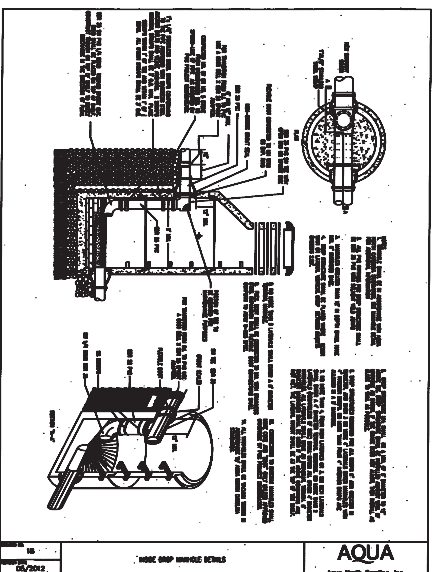
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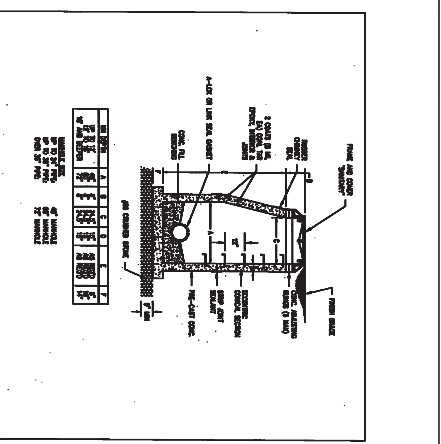
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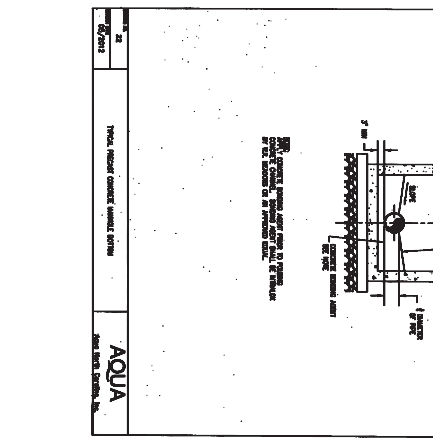
05/2012 AQUA Aqua North Carolina, Inc.



05/2012 AQUA Aqua North Carolina, Inc.



05/2012 AQUA Aqua North Carolina, Inc.



05/2012 AQUA Aqua North Carolina, Inc.

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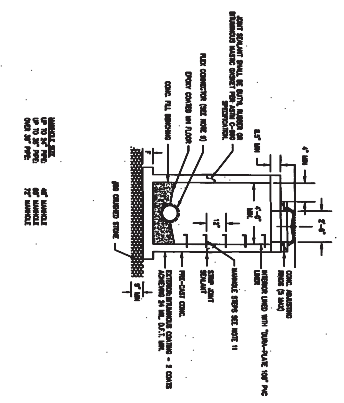
FINAL DRAWINGS
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 REVIEW ONLY
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 FOR CONSTRUCTION

WESTFALL SUBDIVISION
 PHASE 2A CONSTRUCTION PLANS
 SEWER DETAILS
 WILLIAMS TOWNSHIP
 CHATHAM COUNTY, NORTH CAROLINA

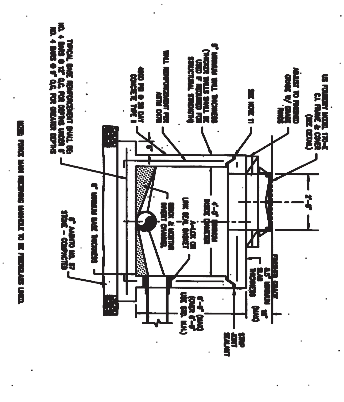


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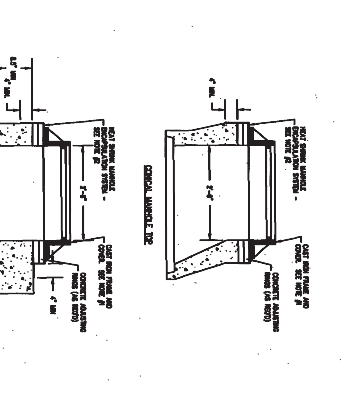
NO.	REVISIONS	DATE
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1	REVISED PER AQUA OF NC COMMENTS.	04/22/13



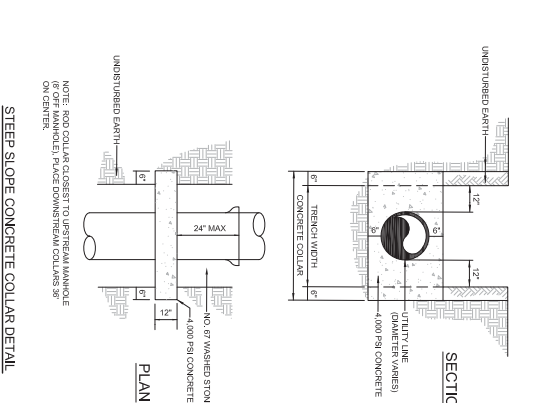
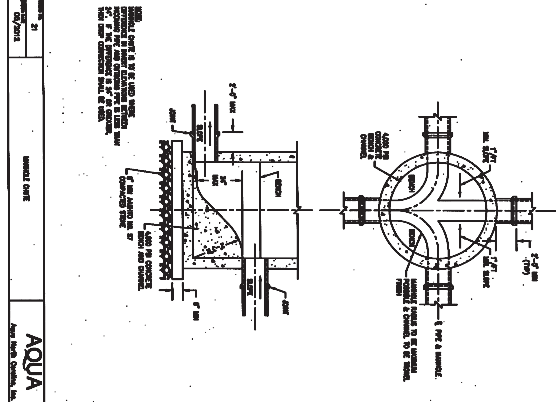
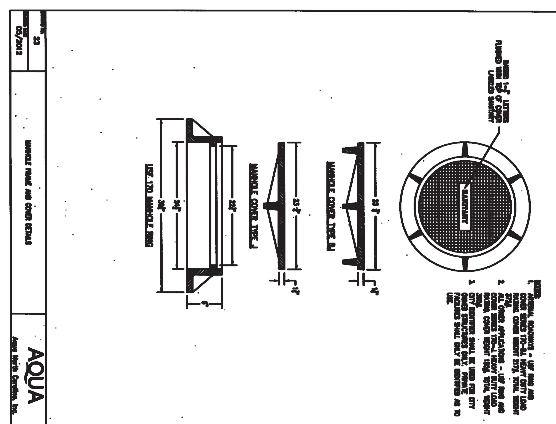
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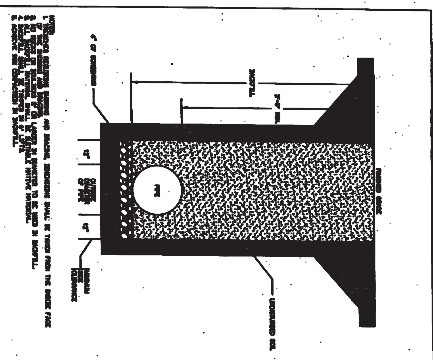
WESTFALL SUBDIVISION
 PHASE 2A CONSTRUCTION PLANS
 SEWER DETAILS
 WILLIAMS TOWNSHIP
 CHATHAM COUNTY, NORTH CAROLINA



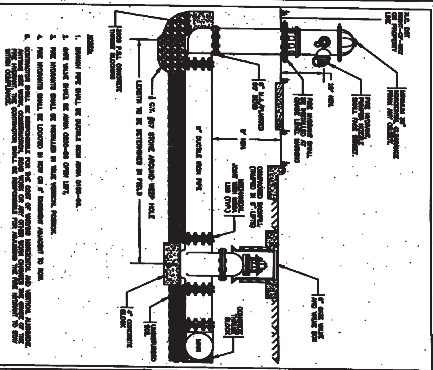
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 FAX: 919-877-8022
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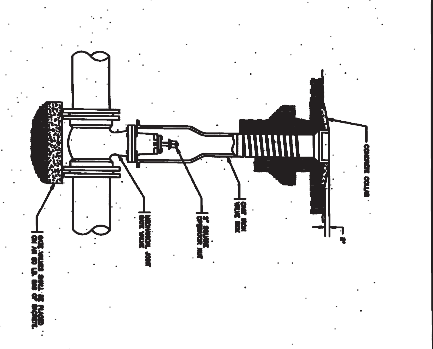
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 Checked: AJP
 Project: 800-12
 Computer File Name: 800-12\WVA - 2A 300 Sewer Detail.dwg



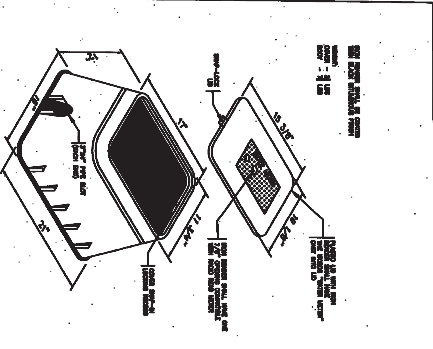
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 SHALL BE SET 1" ABOVE FINISHED GRADE.



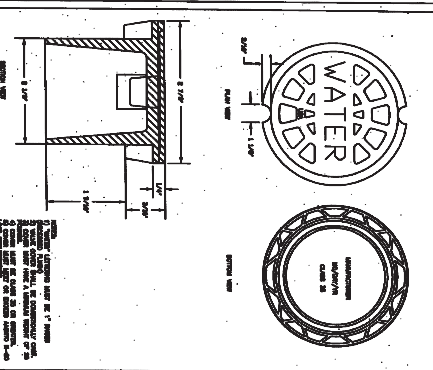
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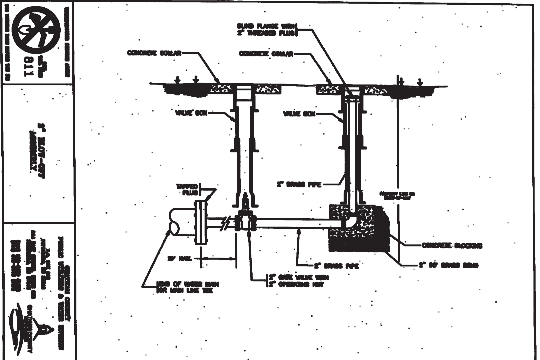
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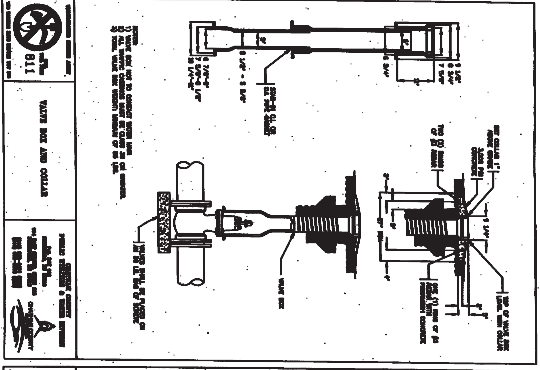
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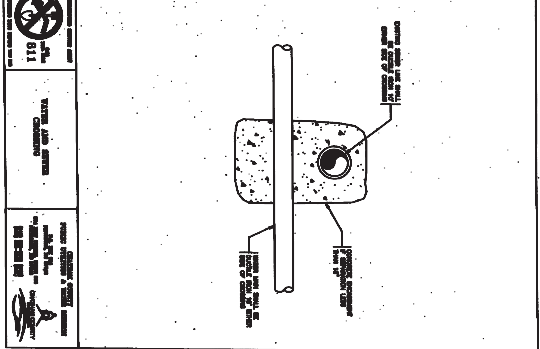
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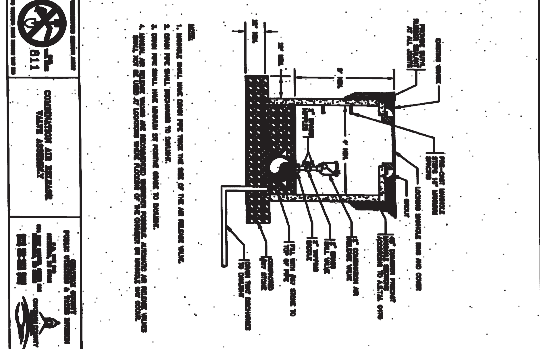
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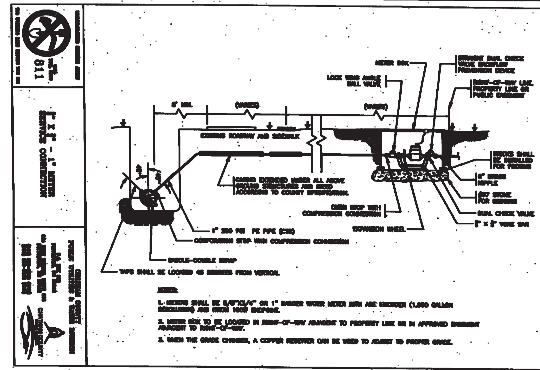
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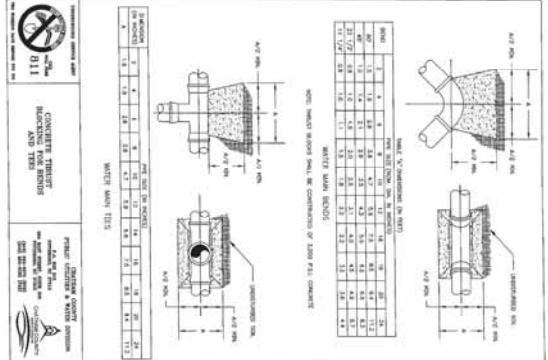
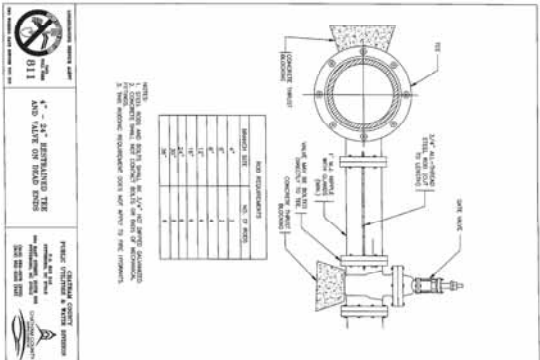
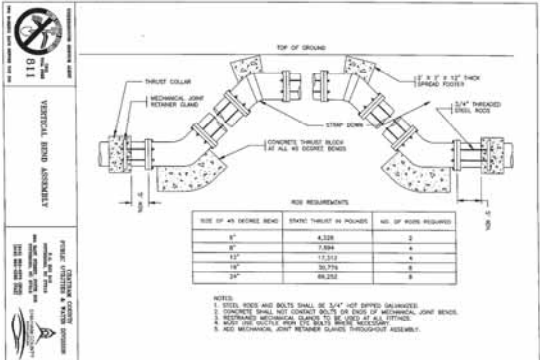
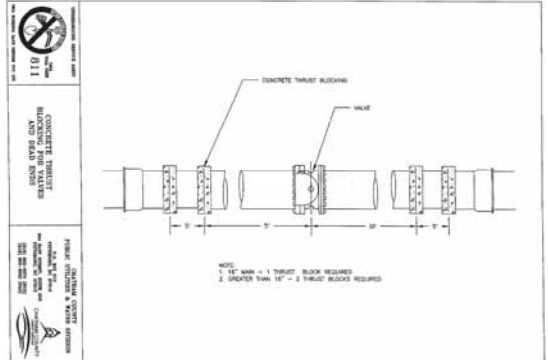
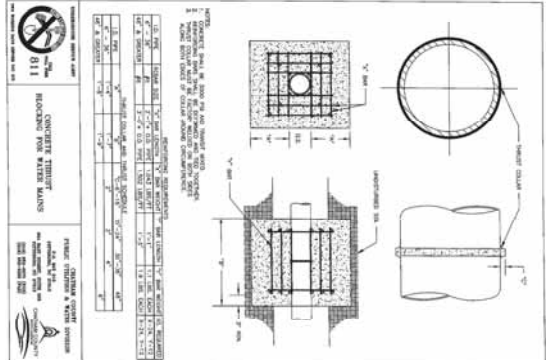
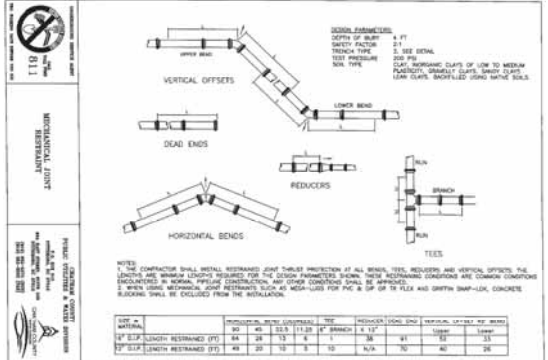
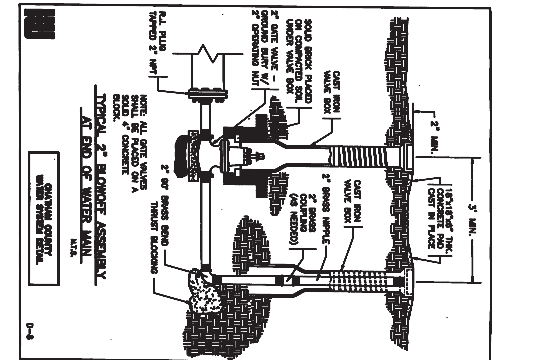
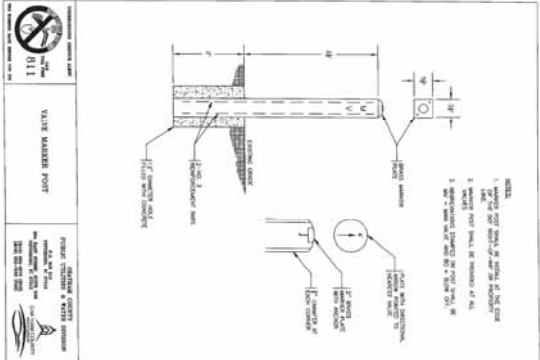
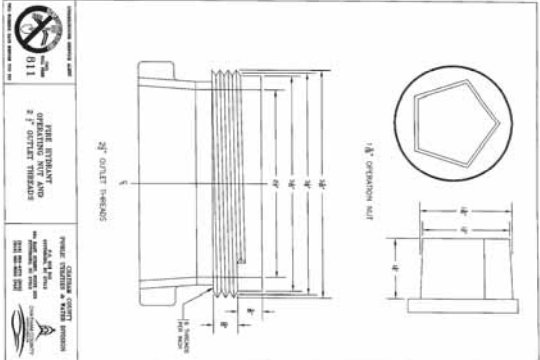
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WESTFALL SUBDIVISION
 PHASE 2A CONSTRUCTION PLANS
 WATER DETAILS
 WILLIAMS TOWNSHIP
 CHATHAM COUNTY, NORTH CAROLINA

Sheet No. **10** OF **1**
 Date: APRIL 12, 2013
 Client: NTS
 Designer: ACS
 Checker: AJP
 Project: 800-12
 Computer File Name: 800-12-13-01-01-01.dwg
 Plot Date: 04/12/2013 11:59:17 AM

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SECTION: RISING MAINS FOR HORIZONTAL WATER PIPE BENDS

TABLE 1: RISING MAINS FOR HORIZONTAL WATER PIPE BENDS

PIPE SIZE	MINIMUM RISING MAINS	MAXIMUM RISING MAINS
12" DIA	12"	18"
15" DIA	15"	21"
18" DIA	18"	24"
21" DIA	21"	27"
24" DIA	24"	30"
30" DIA	30"	36"
36" DIA	36"	42"
42" DIA	42"	48"
48" DIA	48"	54"
54" DIA	54"	60"
60" DIA	60"	66"
72" DIA	72"	78"
84" DIA	84"	90"
96" DIA	96"	102"
108" DIA	108"	114"
120" DIA	120"	126"

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Sheet No: 11 OF 1

DATE: APRIL 12, 2013
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 PHASE 2A CONSTRUCTION PLANS
 WATER DETAILS
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Sheeted Preparation:

1. Check and confirm that the sheet piling has been installed in accordance with the contract documents.
2. Check and confirm that the sheet piling has been installed in accordance with the contract documents.
3. Check and confirm that the sheet piling has been installed in accordance with the contract documents.
4. Check and confirm that the sheet piling has been installed in accordance with the contract documents.
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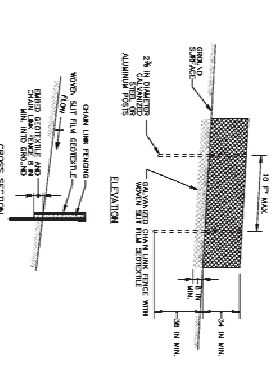
Sheeting Schedule

Item	Quantity	Unit	Material
Sheet Piling	100	Linear Feet	Sheet Piling
Sheet Piling	100	Linear Feet	Sheet Piling
Sheet Piling	100	Linear Feet	Sheet Piling
Sheet Piling	100	Linear Feet	Sheet Piling
Sheet Piling	100	Linear Feet	Sheet Piling
Sheet Piling	100	Linear Feet	Sheet Piling
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Sheet Piling	100	Linear Feet	Sheet Piling

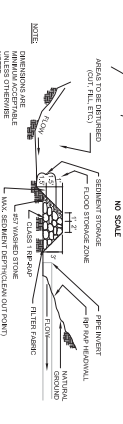
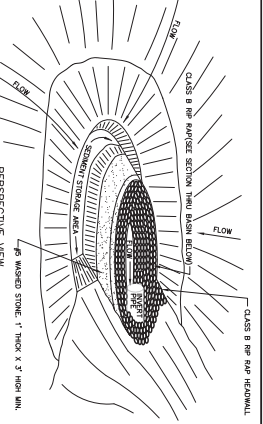
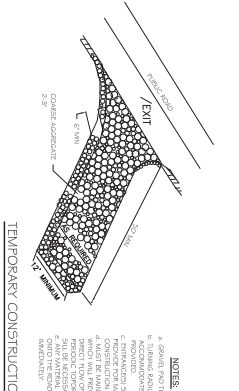
PERMANENCE

Item	Quantity	Unit	Material
Sheet Piling	100	Linear Feet	Sheet Piling
Sheet Piling	100	Linear Feet	Sheet Piling
Sheet Piling	100	Linear Feet	Sheet Piling
Sheet Piling	100	Linear Feet	Sheet Piling
Sheet Piling	100	Linear Feet	Sheet Piling
Sheet Piling	100	Linear Feet	Sheet Piling
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Sheet Piling	100	Linear Feet	Sheet Piling
Sheet Piling	100	Linear Feet	Sheet Piling

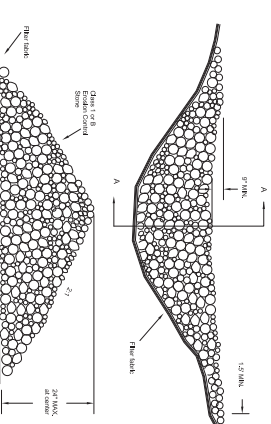
Consult with the Engineer for any additional information or clarification regarding the sheet piling. The sheet piling shall be installed in accordance with the contract documents and the approved construction details. Consult the Engineer for any additional information or clarification regarding the sheet piling.



- CONSTRUCTION SPECIFICATIONS**
1. The sheet piling shall be installed in accordance with the contract documents.
 2. The sheet piling shall be installed in accordance with the contract documents.
 3. The sheet piling shall be installed in accordance with the contract documents.
 4. The sheet piling shall be installed in accordance with the contract documents.
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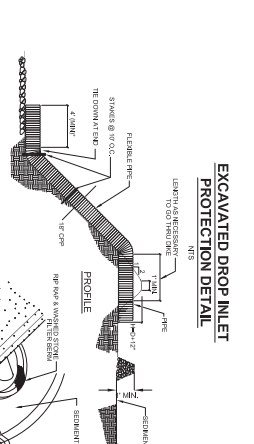
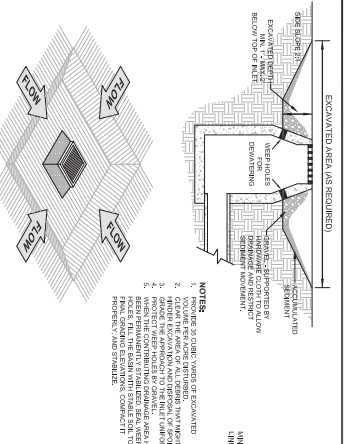


- GRAVEL & RIPRAP HORSESHOE INLET BASIN**
- MAINTENANCE:**
1. The basin shall be inspected at least once a week and after each significant rain event.
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 3. The basin shall be inspected at least once a week and after each significant rain event.
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 8. The basin shall be inspected at least once a week and after each significant rain event.
 9. The basin shall be inspected at least once a week and after each significant rain event.
 10. The basin shall be inspected at least once a week and after each significant rain event.

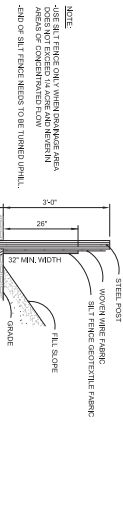
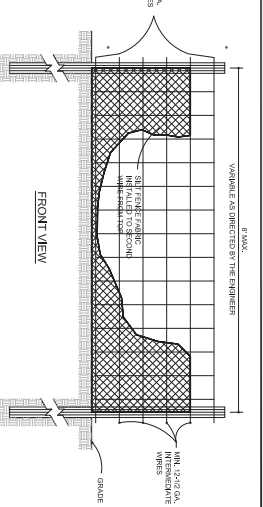
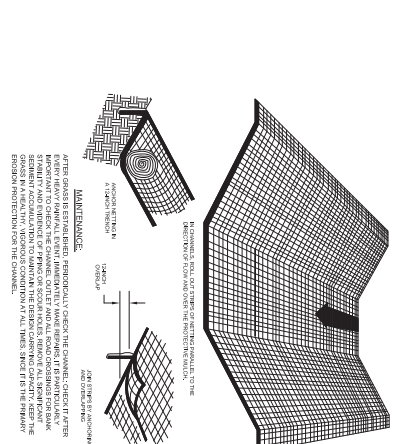


- STONE CHECK DAM**
- MAINTENANCE:**
1. The dam shall be inspected at least once a week and after each significant rain event.
 2. The dam shall be inspected at least once a week and after each significant rain event.
 3. The dam shall be inspected at least once a week and after each significant rain event.
 4. The dam shall be inspected at least once a week and after each significant rain event.
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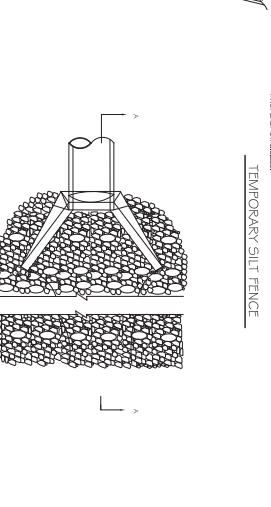
- TEMPORARY CONSTRUCTION ENTRANCE**
- MAINTENANCE:**
1. The entrance shall be inspected at least once a week and after each significant rain event.
 2. The entrance shall be inspected at least once a week and after each significant rain event.
 3. The entrance shall be inspected at least once a week and after each significant rain event.
 4. The entrance shall be inspected at least once a week and after each significant rain event.
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 9. The entrance shall be inspected at least once a week and after each significant rain event.
 10. The entrance shall be inspected at least once a week and after each significant rain event.



- TEMPORARY FLEXIBLE PIPE SLOPE DRAIN**
- MAINTENANCE:**
1. The drain shall be inspected at least once a week and after each significant rain event.
 2. The drain shall be inspected at least once a week and after each significant rain event.
 3. The drain shall be inspected at least once a week and after each significant rain event.
 4. The drain shall be inspected at least once a week and after each significant rain event.
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 9. The drain shall be inspected at least once a week and after each significant rain event.
 10. The drain shall be inspected at least once a week and after each significant rain event.



- TEMPORARY SILT FENCE**
- MAINTENANCE:**
1. The fence shall be inspected at least once a week and after each significant rain event.
 2. The fence shall be inspected at least once a week and after each significant rain event.
 3. The fence shall be inspected at least once a week and after each significant rain event.
 4. The fence shall be inspected at least once a week and after each significant rain event.
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 8. The fence shall be inspected at least once a week and after each significant rain event.
 9. The fence shall be inspected at least once a week and after each significant rain event.
 10. The fence shall be inspected at least once a week and after each significant rain event.



- OUTLET PROTECTION FOR DEFINED CHANNEL**
- MAINTENANCE:**
1. The protection shall be inspected at least once a week and after each significant rain event.
 2. The protection shall be inspected at least once a week and after each significant rain event.
 3. The protection shall be inspected at least once a week and after each significant rain event.
 4. The protection shall be inspected at least once a week and after each significant rain event.
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REVISIONS

No.	REVISIONS	DATE
1	1 WATER REV, PER CHATHAM CO. PUBLIC WORKS REVIEW.	05/08/13
2	2 REVISED PER CHATHAM CO. PUBLIC WATER COMMENTS.	05/20/13
3	3 REVISED PER CHATHAM CO. EIC COMMENTS.	06/25/13

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WESTFALL SUBDIVISION
PHASE 2A CONSTRUCTION PLANS
EROSION CONTROL DETAILS
 WILLIAMS TOWNSHIP
 CHATHAM COUNTY, NORTH CAROLINA

Sheet No. **12** OF 1

DATE: APRIL 12, 2013

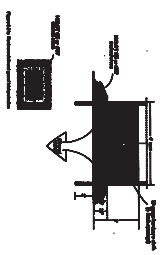
CONTRACT: ACS

PROJECT: ALP

PROJECT NO.: 800-12

CONTRACT NO.: 11172000000000000000

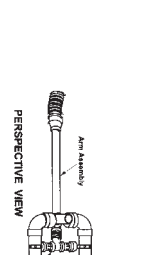
STOP! BEFORE YOU DIG CALL THE 800-CALL CENTER IT'S THE LAW!



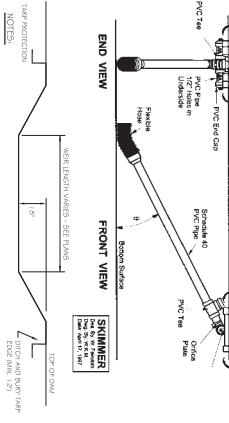
MAINTENANCE
 1. REMOVE DEBRIS FROM THE GRATE AND CURB AFTER EVERY RAINFALL EVENT.
 2. REMOVE DEBRIS FROM THE GRATE AND CURB AFTER EVERY RAINFALL EVENT.
 3. REMOVE DEBRIS FROM THE GRATE AND CURB AFTER EVERY RAINFALL EVENT.
 4. REMOVE DEBRIS FROM THE GRATE AND CURB AFTER EVERY RAINFALL EVENT.
 5. REMOVE DEBRIS FROM THE GRATE AND CURB AFTER EVERY RAINFALL EVENT.



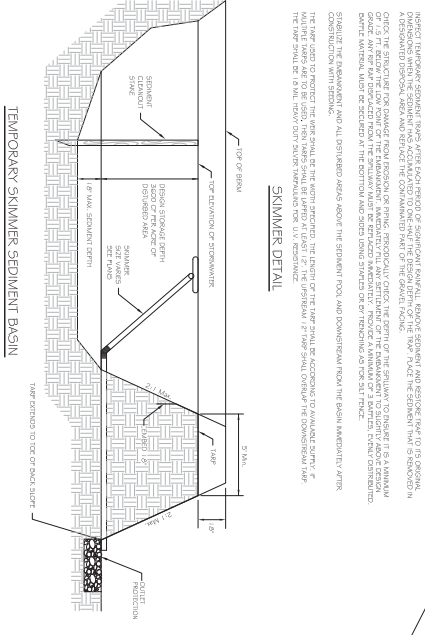
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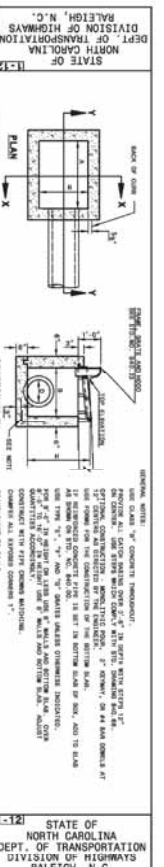
MAINTENANCE
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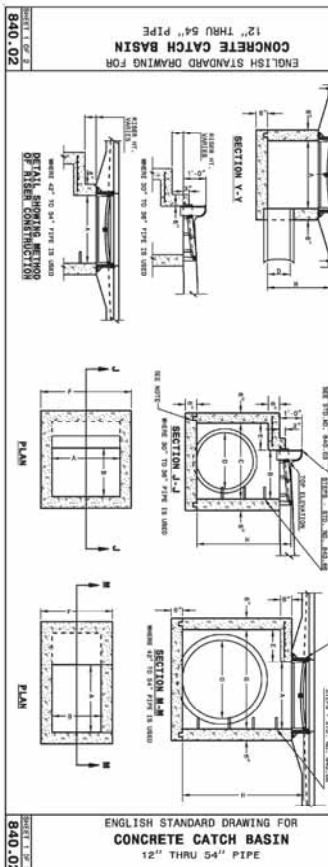
NOTES
 1. USE FOR SKIMMER AREAS.
 2. USE FOR SKIMMER AREAS.
 3. USE FOR SKIMMER AREAS.



MAINTENANCE
 1. REMOVE DEBRIS FROM THE GRATE AND CURB AFTER EVERY RAINFALL EVENT.
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 5. REMOVE DEBRIS FROM THE GRATE AND CURB AFTER EVERY RAINFALL EVENT.



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

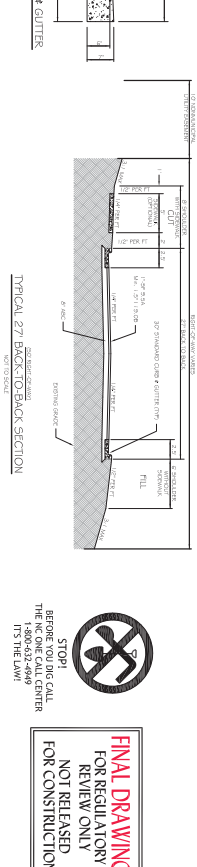


STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR CONCRETE CATCH BASIN 12" THRU 54" PIPE

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

ITEM	DESCRIPTION	QUANTITY	UNIT	REMARKS
1	CONCRETE CATCH BASIN	1	EA	
2	CONCRETE CURB	1	EA	
3	CONCRETE APRON	1	EA	
4	CONCRETE SKIMMER	1	EA	
5	CONCRETE DIVERSION DIKE	1	EA	
6	CONCRETE DIVERSION BERMS/DITCH	1	EA	
7	CONCRETE SKIMMER SEDIMENT BASIN	1	EA	



ENGLISH STANDARD DRAWING FOR CONCRETE CATCH BASIN 12" THRU 54" PIPE

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

NO.	REVISIONS	DATE
2	REVISED PER CHATHAM CO. PUBLIC WATER COMMENTS	05/20/13
1	WATER REV. PER CHATHAM CO. PUBLIC WORKS REVIEW	05/08/13

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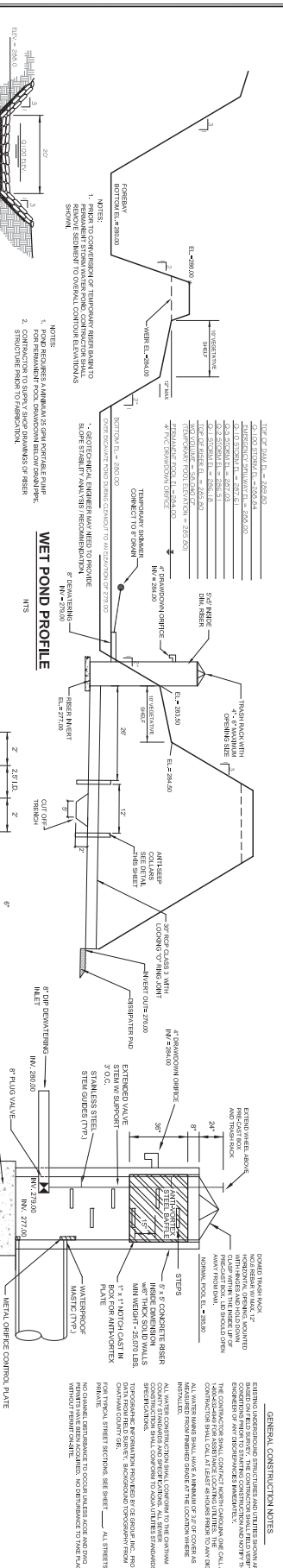


WESTFALL SUBDIVISION
 PHASE 2A CONSTRUCTION PLANS
 EROSION CONTROL DETAILS
 WILLIAMS TOWNSHIP
 CHATHAM COUNTY, NORTH CAROLINA

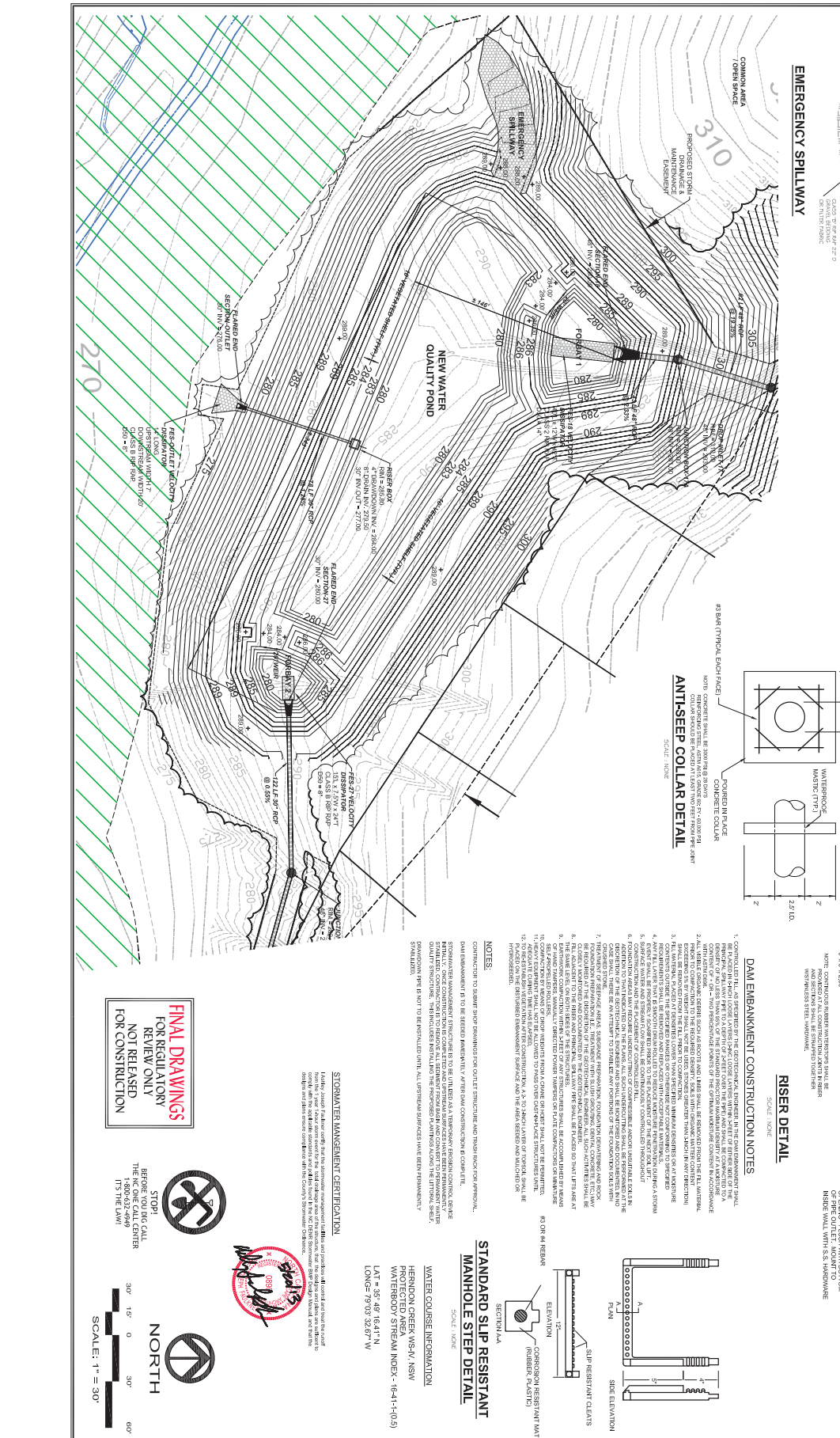
Sheet No: **13**
 OF 1
 Date: April 12, 2013
 Drawn: ACS
 Checked: AJF
 Project: 800-12
 Computer File Name: 800-12-13.dwg
 Plot Date: 04/12/2013 11:51:14 AM

FINAL DRAWINGS
 FOR REGULATORY
 REVIEW ONLY
 NOT RELEASED
 FOR CONSTRUCTION





NO.	REVISIONS	DATE
2	REVISED PER CHATHAM CO. PUBLIC WATER COMMENTS	05/20/13
1	WATER REV. PER CHATHAM CO. PUBLIC WORKS REVIEW	05/08/13



EMERGENCY SPILLWAY

NOTES:

1. POND REQUIRED AS MINIMUM AS PER PORTABLE PUMP.
2. CONSTRUCTION SHALL BE COMPLETED PRIOR TO FABRICATION.

WET POND PROFILE

NOTES:

1. POND REQUIRED AS MINIMUM AS PER PORTABLE PUMP.
2. CONSTRUCTION SHALL BE COMPLETED PRIOR TO FABRICATION.

RISER DETAIL

NOTES:

1. CONSTRUCTION SHALL BE COMPLETED PRIOR TO FABRICATION.
2. CONSTRUCTION SHALL BE COMPLETED PRIOR TO FABRICATION.

ANTISLEEP COLLAR DETAIL

NOTES:

1. CONSTRUCTION SHALL BE COMPLETED PRIOR TO FABRICATION.
2. CONSTRUCTION SHALL BE COMPLETED PRIOR TO FABRICATION.

STANDARD SLIP RESISTANT MANHOLE STEP DETAIL

NOTES:

1. CONSTRUCTION SHALL BE COMPLETED PRIOR TO FABRICATION.
2. CONSTRUCTION SHALL BE COMPLETED PRIOR TO FABRICATION.

GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CHATHAM COUNTY SPECIFICATIONS FOR CONSTRUCTION.
2. ALL CONSTRUCTION SHALL BE COMPLETED PRIOR TO FABRICATION.
3. ALL CONSTRUCTION SHALL BE COMPLETED PRIOR TO FABRICATION.
4. ALL CONSTRUCTION SHALL BE COMPLETED PRIOR TO FABRICATION.
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FINAL DRAWINGS FOR REGULATORY REVIEW ONLY NOT RELEASED FOR CONSTRUCTION

STOP! BEFORE YOU CALL THE NC ONE CALL CENTER ITS THE LAW!

STORMWATER MANAGEMENT CERTIFICATION

WATER COURSE INFORMATION
HERNIMON CREEK WSW/ NSW
PROTECTED AREA
WATERBODIES STREAM INDEX - (641-1405)
LAT = 35° 47' 16.41"N
LONG = 79° 03' 26.87"W

WESTFALL SUBDIVISION
PHASE 2A CONSTRUCTION PLANS
STORMWATER POND PLAN & DETAILS
WILLIAMS TOWNSHIP
CHATHAM COUNTY, NORTH CAROLINA

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RALEIGH, NC 27603
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Sheet No: **14** OF 14

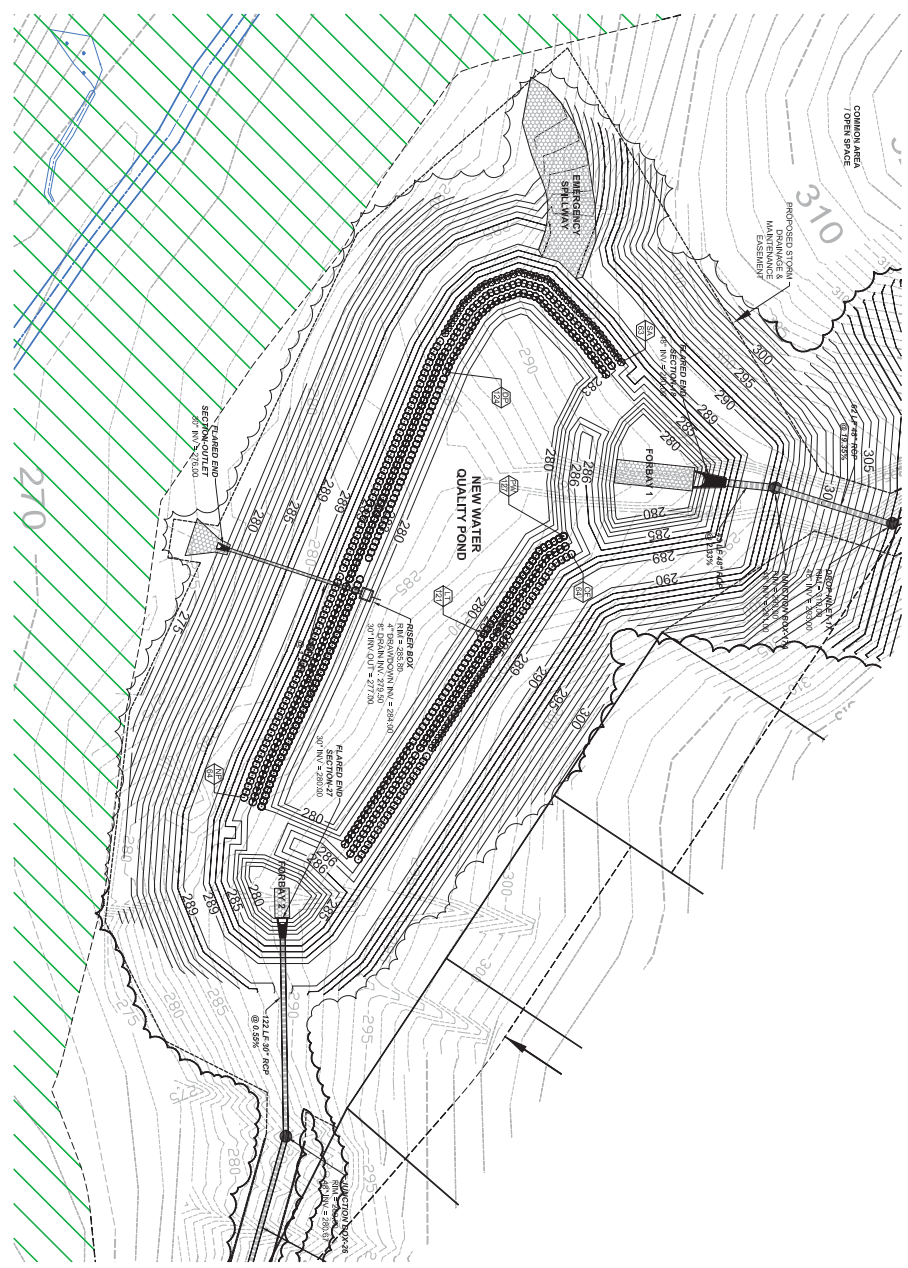
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Date: APRIL 30, 2013
Checked: ACS
Drawn: AJP
Project: 800-12
Computer File Name: 800-12.dwg
Date Plotted: 11:28am 04/30/13

PLANT LIST

SWM.	QUANT.	BOTANICAL NAME	COMMON NAME	HT.	ROOT	REMARKS
WETLAND PLANTINGS						
SA	63	HIBISCUS COCCINEUS 'ALBA'	WHITE ROSE HIBISCUS	4'-6"	3" O.C. SHIMMY AND	
CF	64	LOBELIA COPINULATA	COMMON LOBELIA	4'-6"	3" O.C. SHIMMY AND	
NP	64	SALICORNIA BALSAMIFERA	SALICORNIA BALSAMIFERA	4'-6"	3" O.C. SHIMMY AND	
NP	128	SCOTTDONIA VITIFOLIA	SCOTTDONIA VITIFOLIA	4'-6"	3" O.C. SHIMMY AND	
PM	128	SCOTTDONIA VITIFOLIA	SCOTTDONIA VITIFOLIA	4'-6"	3" O.C. SHIMMY AND	
UV	128	SCOTTDONIA VITIFOLIA	SCOTTDONIA VITIFOLIA	4'-6"	3" O.C. SHIMMY AND	

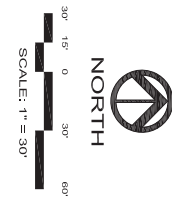
PLANTING NOTES:
 LANDSCAPE CONTRACTOR SHALL PROVIDE PLANT MATERIAL FOR APPROVAL PRIOR TO INSTALLATION OF MATERIAL. TO PROVIDE SOURCE OF PLANT MATERIAL AND LOCATION FOR WETLAND PLANTINGS. SEE SHEET "SILVER CITY, NC".
 A MINIMUM TWO-YEAR WARRANTY PERIOD SHALL BE PROVIDED FOR PLANT SURVIVAL AND REPLACEMENT AT THE END OF THE WARRANTY PERIOD. PLANTS THAT DO NOT SURVIVE MUST BE REPLACED.

GENERAL CONSTRUCTION NOTES:
 EXISTING TO BE REMOVED SHALL BE INDICATED BY DASHED LINES. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CHATHAM COUNTY PUBLIC WORKS DEPARTMENT. ALL WATER MAINS SHALL HAVE A MINIMUM OF 3" OF COVER AS REQUIRED. ALL WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE CHATHAM COUNTY PUBLIC WORKS DEPARTMENT. ALL WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE CHATHAM COUNTY PUBLIC WORKS DEPARTMENT. ALL WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE CHATHAM COUNTY PUBLIC WORKS DEPARTMENT.



STOP
 APPROXIMATE TO THE DATE
 THE DATE OF THE CENTER
 1-800-522-6649
 IT'S THE LAW!

FINAL DRAWINGS
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 FOR CONSTRUCTION



NO.	REVISIONS	DATE
2	REVISED PER CHATHAM CO. PUBLIC WATER COMMENTS	05/20/13
1	WATER REV. PER CHATHAM CO. PUBLIC WORKS REVIEW	05/08/13

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Westfall
 2013

WESTFALL SUBDIVISION
 PHASE 2A CONSTRUCTION PLANS
 STORMWATER POND PLANTING PLAN
 WILLIAMS TOWNSHIP
 CHATHAM COUNTY, NORTH CAROLINA

Sheet No: **15**
 OF 15
 Date: APRIL 12, 2013
 Scale: 1" = 30'
 Check: ACS
 Drawn: AJF
 Project: 800-12
 Computer File Name: 800-12\WMA - 13 Storm Pond Plan 1.dwg