



## CITY OF HAVELOCK

Post Office Box 368  
Havelock, NC 28532

### INVITATION TO BID

Pursuant to North Carolina General Statutes §143-131, the City of Havelock invites informal bids on the following:

Bids must be submitted in accordance with the attached specifications. Bids must include an itemized schedule (including quantity, unit price and total) for each work element. Bids can be submitted by mail, email, fax or hand delivered. Cover sheets, envelopes, etc. should be clearly marked with the words:

#### *“City of Havelock, Stormwater System Repairs”*

**Address Bids to:**                    **Lee Tillman, Director of Finance**  
                                                 **City of Havelock**  
                                                 **P.O. Box 368**  
                                                 **1 Governmental Ave.**  
                                                 **Havelock, NC 28532**  
                                                 **Fax 252-447-0126**  
                                                 **Email: Ltillman@havelocknc.us**

Bids will be accepted until **2:00 PM (EST) on Thursday, November 16, 2017** at which time they will be reviewed in the office of the City Finance Director. Quotes are not subject to public inspection until the contract is awarded. The bids are good for 75 days after opening.

**Bidders are cautioned not to submit bids until the proposed requirements and specifications have been carefully examined. It will be considered that bidders will have satisfied themselves as to the accuracy of the specifications. No proposal will be considered unless prices are submitted for all items requested in any section. The City reserves the right to change the amount of quantities.**

The names of certain brands or makes denote quality standard in the article desired, but do not restrict bidders to the specific brand, make or manufacturer named. They are meant to convey to prospective bidders the general style, type, character and quality of the article desired.

The successful bidder on all construction contracts will be required to conduct the operation in accordance with all Federal, State, and Municipal health and safety rules, regulations and laws applicable to the operation. The successful bidder may be asked to provide the City with a copy of the company's safety plan prior to commencing work. For all projects over \$30,000, a general contractor's license must be furnished to the City if applicable.



## CITY OF HAVELOCK

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Havelock, NC 28532

**N.C.G.S. (North Carolina General Statutes), specifically §160A-20.1(b), prohibit the City from entering into contracts with contractors and subcontractors who have not complied with the requirement of Article 2 of Chapter 64. The Contractor shall submit the E-Verify Affidavit, located in the Bid Proposal section, with their bid. Bids that do not include this Affidavit will be considered non-responsive.**

N.C.G.S 147-86.55-69 requires certification for bids with a North Carolina Local Government. The certification is required at the time when a bid is submitted. N.C.G.S 147-86.55-69 requires that contractors with a North Carolina Local Government must not utilize any subcontractor found on the State Treasurer's Final Divestment List. The State Treasurer's Final Divestment List can be found on the State Treasurer's website at the address [www.nctreasurers.com/Iran](http://www.nctreasurers.com/Iran) and will be updated every 180 days.

The City of Havelock reserves the right to reject any or all proposals and to purchase items from the state contract in the efforts to award the contract to the bidder it deems to be for the best interest of the City.

This institution is an equal opportunity provider, and employer.

### **Contact person(s) for information on this bid:**

For questions in regards to the bid specifications, the City requires and only responds to questions submitted in writing and sent via email to: [Ltillman@havelocknc.us](mailto:Ltillman@havelocknc.us) AND cc: [Asmith@havelocknc.us](mailto:Asmith@havelocknc.us)

Questions must be received by **12:00 PM (EST) on Wednesday, November 8, 2017**. If questions are received, the City will respond no later than **5:00 PM (EST) on Thursday, November 9, 2017**.

Today is October 23, 2017.

CITY OF HAVELOCK

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Lee W. Tillman  
Finance Director



**STATE OF NORTH CAROLINA  
AFFIDAVIT  
CITY OF HAVELOCK**

I, \_\_\_\_\_ (the individual attesting below), being duly authorized by and on behalf of \_\_\_\_\_ (the entity hereinafter "Employer") after first being duly sworn hereby swears or affirms as follows:

1. Employer understands that E-Verify is the federal E-Verify program operated by the United States Department of Homeland Security and other federal agencies, or any successor or equivalent program used to verify the work authorization of newly hired employees pursuant to federal law in accordance with NCGS §64-25(5).
2. Employer understands that Employers Must Use E-Verify. Each employer, after hiring an employee to work in the United States, shall verify the work authorization of employee through E-Verify in accordance with NCGS §64-26(a).
3. Employer is a person, business entity, or other organization that transacts business in the State and that employs 25 or more employees in this State. (mark Yes or No)
  - a. YES \_\_\_\_\_, or
  - b. NO \_\_\_\_\_
4. Employer's subcontractors comply with E-Verify, and if Employer is the winning bidder on this project Employer will ensure compliance with E-Verify by any subcontractors subsequently hired by Employer.

This \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Signature of Affiant  
Print or Type Name: \_\_\_\_\_

State of North Carolina County of \_\_\_\_\_

Signed and sworn to (or affirmed) before me, this the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Signature of Notary                      Printed Name of Notary

My Commission Expires: \_\_\_\_\_

## Bid Sheet

Devonshire Dr: \_\_\_\_\_ Gray Fox Rd: \_\_\_\_\_

South Forest Dr: \_\_\_\_\_ Lee Dr: \_\_\_\_\_

Cougar Place: \_\_\_\_\_ Rose St: \_\_\_\_\_

Coyote Trail: \_\_\_\_\_ Tall Pine Rd: \_\_\_\_\_

Total Cost to City: \_\_\_\_\_

Bids must include an itemized schedule by quantity, unit price and total for each work element.

Company Name: \_\_\_\_\_

Company Address: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

NC Contractor's License Type and Number \_\_\_\_\_

Number of Addendums Acknowledged (circle one): N/A 1 2 3 4

As of the date listed below, the vendor or bidder listed above is compliant with the Iran Divestment Act - N.C.G.S. 147-86.55-69.

Authorized Signature: \_\_\_\_\_

Print Name of Authorized Signature: \_\_\_\_\_

Title: \_\_\_\_\_

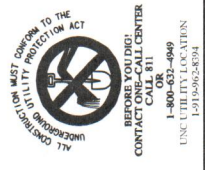
**Address Bid to:**

Lee Tillman, Director of Finance  
City of Havelock  
P.O. Drawer 368  
1 Governmental Avenue  
Havelock, NC 28532

**Please indicate the Bid name on the outside of the envelope.**

**City of Havelock**  
**Stormwater System Repairs**  
**Scope of Work**

Per the attached drawings and technical notes, the City of Havelock is soliciting bids for various Stormwater System Repairs. It is the City's intention to award this IFB package as 1 project with multiple locations; however, the City reserves the right to award specific portions to the same contractor.



DATE: OCTOBER 2017  
HAZEN NO.: 30906-006  
CONTRACT NO.:  
DRAWING NUMBER:  
G-1

**SEEDING SCHEDULE**

SEED MIXTURE	PLANTING SEASON	LINE*	SEED FERTILIZER*	SEED MULCH**	TOPDRESSING (LB/AC)*	COMMENTS
P	FEB 15 - APRIL 30 SEPT 1 - OCT 31	4000	150	4000	7000-1000 OF 10-10-10 OR 60 OF NITROGEN	OVERSEED WITH TYPE P SEED MIXTURE DURING NEXT PLANTING SEASON
TW	JAN 1 - JAN 31	2000	170	750	4000	OVERSEED WITH TYPE P SEED MIXTURE DURING NEXT PLANTING SEASON
TS	MAY 1 - AUGUST 15	2000	40	750	4000	OVERSEED WITH TYPE P SEED MIXTURE DURING NEXT PLANTING SEASON
TF	AUG 15 - DEC 31	2000	120	1,000	4000 60 OF NITROGEN IN MARCH	OVERSEED WITH TYPE P SEED MIXTURE DURING NEXT PLANTING SEASON

\* LINE SHALL BE IDENTIFIED BY NUMBER AND SHALL BE OPEN WITHIN 15 DAYS AFTER THE DATE OF APPLICATION. APPLICATION RATES AND/OR CHEMICAL ANALYSIS SHALL BE CONFIRMED OR ESTABLISHED BY SOIL TEST.  
\*\* FERTILIZER SHALL BE 10-10-10 ANALYSIS.  
\*\*\* SEED MIXTURES TO BE USED ON THE PROJECT SHALL BE AS FOLLOWS:

- P - 150 KW-31 TALL FESCUE
- TF - TEMPORARY FALL SEEDING (LB/AC)  
120 RYE (GRAIN)  
40 GERMAN BEAR, OR BROWN TOP WILLET
- TS - TEMPORARY SUMMER SEEDING (LB/AC)  
120 RYE (GRAIN)

**PLANT SCHEDULE**

PLANT TYPE	SYMBOL	BOTANICAL NAME	COMMON NAME	QTY.	CALIBER	HEIGHT/SPACING
SHRUBS	(Symbol)	PRODRONDRON CAROLINIANUM	CAROLINA PRODRONDRON	9	3 CAL.	3'-6" HIGH / 5' SPACING
	(Symbol)	VACCINIUM ANGLUSTICOLM	LOWBUSH BLUEBERRY	28	3 CAL.	1'-2" HIGH / 2' SPACING
	(Symbol)	HYDRANGEA QUERCIFOLIA	OKALEAF HYDRANGEA	9	3 CAL.	6-8" HIGH / 4' SPACING
	(Symbol)	KALNIA LATIFOLIA	MOUNTAIN LAUREL	7	3 CAL.	4'-10" / 5' SPACING
PERENNIAL	(Symbol)	MULHBERGIA CAPILLARIS	PURPLE MOULY GRASS	63	1 CAL.	2'-3" HIGH / 2' SPACING

NOTES:  
1. THE HEIGHT OF ALL SHRUBS SHALL BE 15' MIN. AT THE TIME OF PLANTING.

**CONSTRUCTION SEQUENCE:**

1. IF DISTURBED AREAS EXIST, THE CONTRACTOR SHALL DESIGN AND IMPLEMENT THE REQUIREMENTS OF THE STATE APPROVED EROSION CONTROL PLAN AND THE NORTH CAROLINA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL NOTIFY THE STATE AND QUALITY SECTION AT (919) 791-4200 TO SCHEDULE A PRE-CONSTRUCTION MEETING. ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH THE EROSION CONTROL PLAN AND THE NCDHEM REGULATIONS. THE CONTRACTOR SHALL MAINTAIN A RECORD OF ALL EROSION CONTROL ACTIVITIES.
2. INSTALL ALL TEMPORARY EROSION CONTROL MEASURES AS REQUIRED. NO CONSTRUCTION OR LAND DISTURBANCE ACTIVITIES MAY BEGIN UNTIL ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES HAVE BEEN INSTALLED. MEASURES SHALL BE MAINTAINED FOR INSTALLATION OF EROSION CONTROL MEASURES.
3. ONCE ALL TEMPORARY EROSION CONTROL MEASURES HAVE BEEN INSTALLED, THE SITE SHALL BE CLEANED AND GRUBBED, AS REQUIRED, WITHIN THE LIMITS OF DISTURBANCE (LOD) SHOWN ON THE CONTRACT DRAWINGS. ACTIVITIES SHALL NOT BE CONDUCTED UNTIL THE EROSION CONTROL MEASURES HAVE BEEN APPROVED BY THE ENGINEER AND OWNER. ALL ACTIVITIES SHALL BE COMPLETED WITHIN SIX (6) MONTHS OF NOTICE TO PROCEED.
4. ALL PIPE WORK SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD PRACTICES. ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED TO THE ORIGINAL GRADE. ALL TRENCHES SHALL BE INSTALLED ON ONE SIDE OF THE TRENCH. TRENCHES SHALL BE BACKFILLED AND COMPACTED TO THE ORIGINAL GRADE. ALL TRENCHES SHALL BE INSTALLED WITH SHOULDER MEASURES IF APPROPRIATE.
5. TEMPORARY SEEDING MEASURES SHALL BE EMPLOYED AS SOON AS PRACTICABLE ON DISTURBED AREAS BUT IN ANY EVENT WITHIN FOURTEEN (14) DAYS. DISTURBED SLOPES STEEPER THAN 3:1 SHALL BE TEMPORARILY SEEDED WITH SEVEN (7) DAYS AFTER THE COMPLETION OF CONSTRUCTION. DISTURBED AREAS WITH SLOPES FLATTER THAN 3:1 SHALL BE TEMPORARILY SEEDED WITHIN FOURTEEN (14) DAYS UNLESS SLOPE LENGTH IS GREATER THAN 50 FEET. ALL CUT AND FILL AREAS SHALL BE SEEDED WITHIN SEVEN (7) DAYS OF COMPLETION OF CONSTRUCTION. SEEDING SHALL BE CONDUCTED AT OPTIMUM GERMINATION SEASONS OR WHEN UNFAVORABLE WEATHER CONDITIONS PREVENT ESTABLISHMENT OF VEGETATIVE GROUND COVER. GRADED SLOPES AND FILLS SHALL BE PROTECTED WITH A ROLET EROSION CONTROL PRODUCT.
6. STORM DRAINAGE INLETS AND OUTLETS SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES AT ALL TIMES.
7. GRADING MAY BEGIN.
8. UPON COMPLETION OF FINAL GRADING, PERMANENT SEEDING AND MATING SHALL BE APPLIED ON ALL DISTURBED AREAS. VEGETATIVE GROUND COVER SHALL BE APPLIED ON ALL DISTURBED AREAS PER SEEDING SCHEDULE.
9. ONCE PERMANENT STABILIZATION HAS OCCURRED, AND APPROVAL OF THE STATE LAND USE DIVISION HAS BEEN OBTAINED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EROSION CONTROL MEASURES. MEASURES SHALL BE REMOVED TO ORIGINAL OR BETTER CONDITION AND SEEDED, MULCHED, AND FERTILIZED.

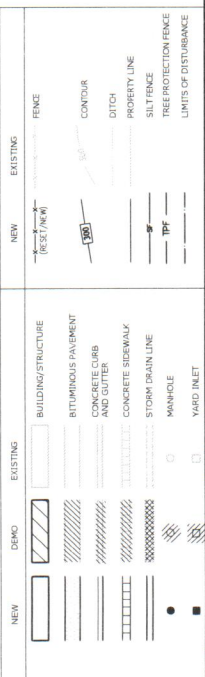
**EROSION CONTROL:**

1. CONSTRUCTION OF EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE ANY LAND CLEARING OR DISTURBANCE ACTIVITIES BEGIN.
2. A RAIN GAUGE SHALL BE MAINTAINED IN GOOD WORKING ORDER ON THE SITE UNLESS ANOTHER RAIN-GAUGING DEVICE HAS BEEN APPROVED BY THE NC DEPARTMENT OF TRANSPORTATION AND TRAVEL. THE CONTRACTOR SHALL MAINTAIN THE RAIN GAUGE THROUGHOUT THE PROJECT AND SHALL PROVIDE A RECORD OF ALL RAINFALL MEASUREMENTS TO THE ENGINEER AND OWNER. THE RAIN GAUGE SHALL BE INSTALLED AS NEAR AS POSSIBLE TO THE DISTURBED AREA.
3. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF ANY WEATHER EVENT. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL INSPECTIONS AND REPAIRS AS NECESSARY. SEE STANDARD DETAILS ON CONTRACT SHEETS DS-05 FOR SPECIFIC MAINTENANCE REQUIREMENTS FOR EACH EROSION CONTROL MEASURE. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL INSPECTIONS AND REPAIRS AS NECESSARY. SEE STANDARD DETAILS ON CONTRACT SHEETS DS-05 FOR SPECIFIC MAINTENANCE REQUIREMENTS FOR EACH EROSION CONTROL MEASURE. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL INSPECTIONS AND REPAIRS AS NECESSARY. SEE STANDARD DETAILS ON CONTRACT SHEETS DS-05 FOR SPECIFIC MAINTENANCE REQUIREMENTS FOR EACH EROSION CONTROL MEASURE.
4. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF ANY WEATHER EVENT. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL INSPECTIONS AND REPAIRS AS NECESSARY. SEE STANDARD DETAILS ON CONTRACT SHEETS DS-05 FOR SPECIFIC MAINTENANCE REQUIREMENTS FOR EACH EROSION CONTROL MEASURE. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL INSPECTIONS AND REPAIRS AS NECESSARY. SEE STANDARD DETAILS ON CONTRACT SHEETS DS-05 FOR SPECIFIC MAINTENANCE REQUIREMENTS FOR EACH EROSION CONTROL MEASURE.
5. EROSION CONTROL MEASURES SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN VOLUME OF SEDIMENT IS HALF FULL. REMOVED SEDIMENT SHALL BE PLACED IN A CONTAINER AND TRANSPORTED TO AN APPROPRIATE DISPOSAL SITE. ALL REMOVED SEDIMENT WILL BE LEGALLY DISPOSED OF OFF-SITE AT NO ADDITIONAL COST TO THE OWNER.
6. ALL EXCESS SOIL RESULTING FROM EARTHWORK OPERATIONS MAY BE TEMPORARILY STOCKPILED AREAS SHALL BE WITHIN THE LOD AS SHOWN ON THE DRAWINGS. AND SURFACE WATER UNLESS IT CAN BE SHOWN THAT NO OTHER ALTERNATIVES ARE AVAILABLE. ALL EXCESS SOIL SHALL BE STORED IN A CONTAINER AND TRANSPORTED TO AN APPROPRIATE DISPOSAL SITE. ALL EXCESS SOIL SHALL BE STORED IN A CONTAINER AND TRANSPORTED TO AN APPROPRIATE DISPOSAL SITE.
7. ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ENTIRE SITE IS RESTORED TO ORIGINAL OR BETTER CONDITION. ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ENTIRE SITE IS RESTORED TO ORIGINAL OR BETTER CONDITION.
8. STAGING/LAYDOWN AREAS INCLUDING DITCHES/SWALES, STAGING/LAYDOWN AREAS INCLUDING DITCHES/SWALES, STAGING/LAYDOWN AREAS INCLUDING DITCHES/SWALES, STAGING/LAYDOWN AREAS INCLUDING DITCHES/SWALES.
9. ALL HAZARDOUS MATERIALS AND OTHER HAZARDOUS DEBRIS SHALL BE ADEQUATELY PROTECTED AND SECURED TO PREVENT POLLUTION OF THE SITE.
10. BEFORE ANY EXCAVATION OPERATIONS AND BULKY CLEANUP OPERATIONS SHALL BE PERFORMED IN COMPLIANCE WITH THE SPECIFICATIONS AND TO THE SATISFACTION OF THE OWNER/ENGINEER.
11. EXCESS/UNSUITABLE SOIL TO BE REMOVED FROM SITE BY CONTRACTOR. PRIOR TO BEGINNING OF EXCAVATION OPERATIONS, CONTRACTORS OFF-SITE SEDIMENT CONTROL MEASURES MUST BE APPROVED BY NCDHEM PRIOR TO SOIL DISPOSAL.
12. ALL EROSION AND SEDIMENTATION CONTROL SHALL BE IMPLEMENTED BEFORE COVER STABILIZATION HAS BEEN ESTABLISHED.
13. THERE IS NO PAY ITEM FOR OVERSEEING AND SEPARATE PAYMENT WILL BE MADE FOR Dewatering. ANY Dewatering of the trench or excavation area required is the responsibility of the contractor and shall be incidental to the unit price bid for the pipe.
14. THE CONTRACTOR SHALL RECORD AND SUPPLY TO THE ENGINEER THE FOLLOWING INFORMATION:  
14.A. THE LOCATION OF ALL UTILITIES CROSSED AND THE NEW LOCATION AND DEPTH OF ALL RELOCATED AND/OR ADJUSTED UTILITIES.

**NOTIFICATION OF LAND RESOURCES SEDIMENT AND EROSION CONTROL SELF-INSPECTION PROGRAM**

THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THE CONTRACTOR TO CONDUCT A SELF-INSPECTION PROGRAM TO VERIFY THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. THE CONTRACTOR SHALL CONDUCT A SELF-INSPECTION PROGRAM TO VERIFY THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. THE CONTRACTOR SHALL CONDUCT A SELF-INSPECTION PROGRAM TO VERIFY THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED.

**SYMBOLS**



PROJECT ENGINEER	H.T. TANT
DESIGNED BY	M. SANTOWASSO
DRAWN BY	P. SELLISER
CHECKED BY	M. SANTOWASSO
DATE	10/17/17
SCALE	AS SHOWN
DATE	10/17/17
SCALE	AS SHOWN

HAZEN AND SAWYER  
4611 HAZEN DRIVE, SUITE 500  
RALEIGH, NORTH CAROLINA 27607  
LICENSE NO.: C-3381

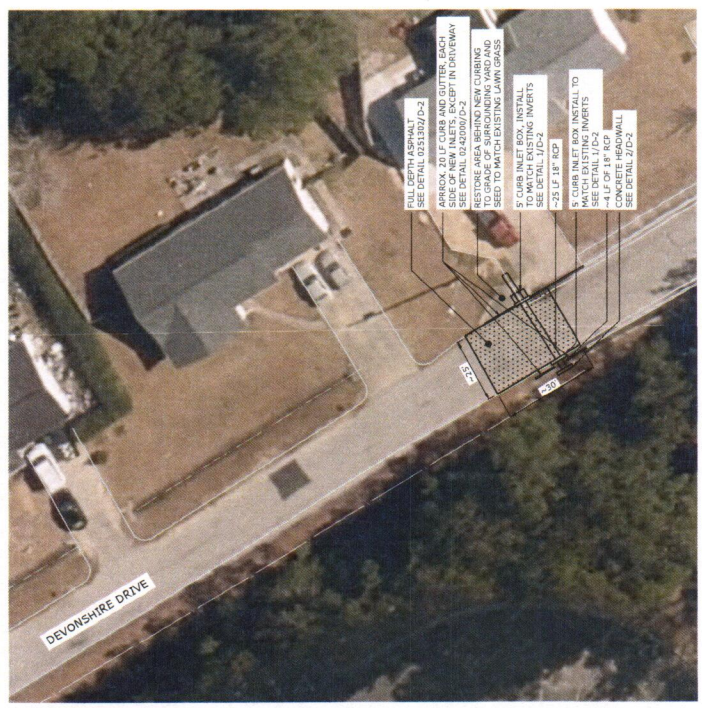
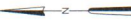
**CITY OF HAVELock**  
HAVELock, NORTH CAROLINA

**DEVONSHIRE DRIVE**  
GENERAL NOTES AND  
EROSION CONTROL NOTES

**STORMWATER SYSTEM REPAIRS**

**NOTES:**

1. CONTRACTOR SHALL COORDINATE WITH CITY OF HAVELOCK ON ROAD CLOSURES, DETOURS, ETC. AS NECESSARY TO COMPLETE WORK.
2. CONTRACTOR SHALL REPAIR AND REPLACE TO EXISTING CONDITIONS ALL UTILITIES, STRUCTURES, FENCES, ETC. AS MAY BE DAMAGED BY CONSTRUCTION ACTIVITIES.
3. SEE NOTES ON G-1 FOR OTHER PROJECT CONDITIONS.



**PLAN**  
SCALE: 1" = 20'



**DEMOLITION PLAN**  
SCALE: 1" = 20'



BEFORE YOU DIG!  
CALL 811  
1-800-482-4949  
UNC UTILITY LOCATION  
1-877-666-8894



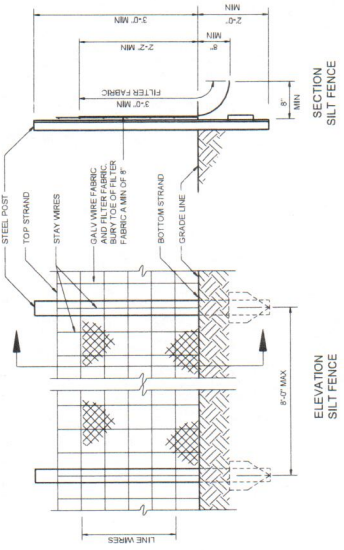
DATE: OCTOBER 2017  
HAZEN NO.: 30906-006  
CONTRACT NO.:  
DRAWING NUMBER:  
C-1

DEVONSHIRE DRIVE  
STORM DRAINAGE AND PAVEMENT REPAIR

CITY OF HAVELOCK  
HAVELOCK, NORTH CAROLINA  
STORMWATER SYSTEM REPAIRS

**Hazen**  
HAZEN AND SAWYER, SUITE 500  
4011 WEST WILSON ROAD  
RALEIGH, NORTH CAROLINA 27607  
LICENSE NO.: C-0381

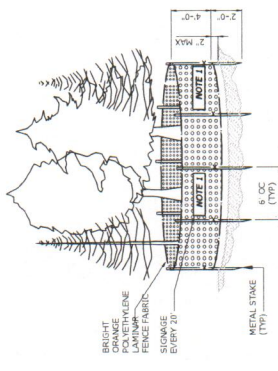
PROJECT ENGINEER	H.T. TANT
DESIGNED BY	M. SANTOWASSO
DRAWN BY	P. SELLSER
CHECKED BY	M. SANTOWASSO
DATE	DATE
ISSUED FOR	BY



SECTION SILT FENCE

- NOTE
- EXTRA STRENGTH FILTER FABRIC AS APPROVED BY THE DISTRICT ENGINEER DOES NOT REQUIRE METAL SUPPORT POSTS.
  - FILTER FABRIC SHALL BE WIRED DIRECTLY TO POST.

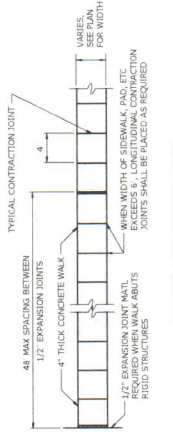
0227000



- NOTE 1. SIGNAGE SHALL BE PROVIDED WITH ALL FENCING AND SHALL STATE "STAY OUT", "NO TRUCKS", "TREE SAFE", AND "SAVE AN ARBO" IN ALL LOCATIONS WHERE SIGNAGE IS POSTED.

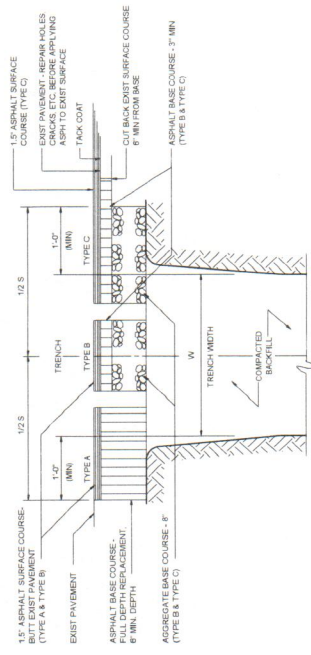
TREE PROTECTION FENCE

NOT TO SCALE



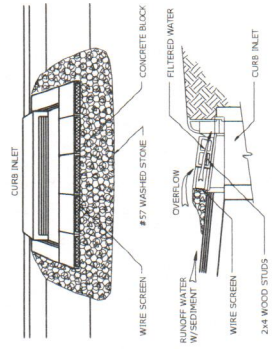
TYPICAL CONCRETE WALKWAY

0245000



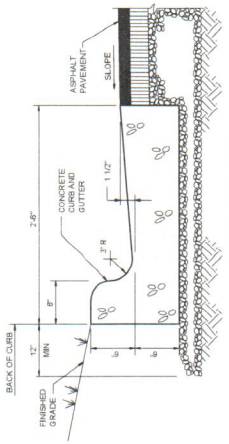
TYPICAL PAVEMENT REPLACEMENT

0251302



CURB INLET SEDIMENT CONTROL

0227002



CURB AND GUTTER

0242000

DATE	OCTOBER 2017
HAZEN NO.	30906-006
CONTRACT NO.	
WORKING NUMBER	

DEVONSHIRE DRIVE  
STANDARD DETAILS

CITY OF HAVELock  
HAVELock, NORTH CAROLINA  
STORMWATER SYSTEM REPAIRS

**Hazen**  
HAZEN AND SAWYER  
401 H. WEST SAVANNAH SUITE 500  
RALEIGH, NORTH CAROLINA 27607  
LICENSE NO. : C-0381

PROJECT ENGINEER	H.T. TANT
DESIGNED BY	M. SANTOMASSO
DRAWN BY	P. SELISKER
CHECKED BY	M. SANTOMASSO
DATE	0 1/2 1

REV	BY	DATE	DESCRIPTION



DATE: OCTOBER 2017  
 HAZEN NO.: 30906-006  
 CONTRACT NO.:  
 DRAWING NUMBER  
 D-2

DEVONSHIRE DRIVE  
 STANDARD DETAILS

CITY OF HAVELock  
 HAVELock, NORTH CAROLINA  
 STORMWATER SYSTEM REPAIRS

HAZEN AND SAWYER  
 4011 WESTCHASE BOULEVARD, SUITE 500  
 RALEIGH, NORTH CAROLINA 27607  
 LICENSE NO.: C-0081

SECTION  
 0260101

PIPE HEADWALL  
 DETAIL 2  
 NTS D-2

D	H	L	W	APPROX. WEIGHT LBS
18"	3'-2"	9'-6"	2'-0"	4,760
24"	3'-8"	11'-6"	2'-4"	6,620
30"	4'-2"	13'-6"	2'-8"	8,780
36"	4'-8"	15'-6"	3'-0"	11,240
42"	5'-2"	17'-6"	3'-4"	13,990

NOTES:  
 1. 8" UNLESS OTHERWISE ORDERED.  
 2. SPECIFY PIPE SIZE AND TYPE WHEN ORDERING.



TYPICAL CURB INLET INSTALLATION  
 DETAIL 1  
 NTS D-2



TYPICAL TRENCH  
 0222107



CONCRETE ARCH  
 (SEE NOTE 1)  
 0222105



PLAN  
 0260100



SECTION  
 0260101

TRENCH EXCAVATION LIMITS	W	W	W
INTERNAL	MIN.	MAX.	MIN.
4'-0"	3'-0"	3'-0"	2'-0"
6'-0"	5'-0"	5'-0"	4'-0"
8'-0"	7'-0"	7'-0"	6'-0"
10'-0"	9'-0"	9'-0"	8'-0"
12'-0"	11'-0"	11'-0"	10'-0"
14'-0"	13'-0"	13'-0"	12'-0"
16'-0"	15'-0"	15'-0"	14'-0"
18'-0"	17'-0"	17'-0"	16'-0"
20'-0"	19'-0"	19'-0"	18'-0"
22'-0"	21'-0"	21'-0"	20'-0"
24'-0"	23'-0"	23'-0"	22'-0"
26'-0"	25'-0"	25'-0"	24'-0"
28'-0"	27'-0"	27'-0"	26'-0"
30'-0"	29'-0"	29'-0"	28'-0"
32'-0"	31'-0"	31'-0"	30'-0"
34'-0"	33'-0"	33'-0"	32'-0"
36'-0"	35'-0"	35'-0"	34'-0"
38'-0"	37'-0"	37'-0"	36'-0"
40'-0"	39'-0"	39'-0"	38'-0"
42'-0"	41'-0"	41'-0"	40'-0"
44'-0"	43'-0"	43'-0"	42'-0"
46'-0"	45'-0"	45'-0"	44'-0"
48'-0"	47'-0"	47'-0"	46'-0"
50'-0"	49'-0"	49'-0"	48'-0"
52'-0"	51'-0"	51'-0"	50'-0"
54'-0"	53'-0"	53'-0"	52'-0"
56'-0"	55'-0"	55'-0"	54'-0"
58'-0"	57'-0"	57'-0"	56'-0"
60'-0"	59'-0"	59'-0"	58'-0"
62'-0"	61'-0"	61'-0"	60'-0"
64'-0"	63'-0"	63'-0"	62'-0"
66'-0"	65'-0"	65'-0"	64'-0"
68'-0"	67'-0"	67'-0"	66'-0"
70'-0"	69'-0"	69'-0"	68'-0"
72'-0"	71'-0"	71'-0"	70'-0"
74'-0"	73'-0"	73'-0"	72'-0"
76'-0"	75'-0"	75'-0"	74'-0"
78'-0"	77'-0"	77'-0"	76'-0"
80'-0"	79'-0"	79'-0"	78'-0"
82'-0"	81'-0"	81'-0"	80'-0"
84'-0"	83'-0"	83'-0"	82'-0"
86'-0"	85'-0"	85'-0"	84'-0"
88'-0"	87'-0"	87'-0"	86'-0"
90'-0"	89'-0"	89'-0"	88'-0"
92'-0"	91'-0"	91'-0"	90'-0"
94'-0"	93'-0"	93'-0"	92'-0"
96'-0"	95'-0"	95'-0"	94'-0"
98'-0"	97'-0"	97'-0"	96'-0"
100'-0"	99'-0"	99'-0"	98'-0"

NOTE: SEE 02210 THROUGH 022107 FOR TRENCH REPAIR DETAILS



TYPICAL TRENCH  
 0222107



CONCRETE ARCH  
 (SEE NOTE 1)  
 0222105



PLAN  
 0260100



SECTION  
 0260101

PROJECT ENGINEER	H.T. TANT	Value
DESIGNED BY:	Value	
DRAWN BY:	Value	
CHECKED BY:	Value	
DATE:	Value	

1. 8" UNLESS OTHERWISE ORDERED.  
 2. SPECIFY PIPE SIZE AND TYPE WHEN ORDERING.



TYPICAL CURB INLET INSTALLATION  
 DETAIL 1  
 NTS D-2



TYPICAL TRENCH  
 0222107



CONCRETE ARCH  
 (SEE NOTE 1)  
 0222105



PLAN  
 0260100



SECTION  
 0260101

TRENCH EXCAVATION LIMITS	W	W	W
INTERNAL	MIN.	MAX.	MIN.
4'-0"	3'-0"	3'-0"	2'-0"
6'-0"	5'-0"	5'-0"	4'-0"
8'-0"	7'-0"	7'-0"	6'-0"
10'-0"	9'-0"	9'-0"	8'-0"
12'-0"	11'-0"	11'-0"	10'-0"
14'-0"	13'-0"	13'-0"	12'-0"
16'-0"	15'-0"	15'-0"	14'-0"
18'-0"	17'-0"	17'-0"	16'-0"
20'-0"	19'-0"	19'-0"	18'-0"
22'-0"	21'-0"	21'-0"	20'-0"
24'-0"	23'-0"	23'-0"	22'-0"
26'-0"	25'-0"	25'-0"	24'-0"
28'-0"	27'-0"	27'-0"	26'-0"
30'-0"	29'-0"	29'-0"	28'-0"
32'-0"	31'-0"	31'-0"	30'-0"
34'-0"	33'-0"	33'-0"	32'-0"
36'-0"	35'-0"	35'-0"	34'-0"
38'-0"	37'-0"	37'-0"	36'-0"
40'-0"	39'-0"	39'-0"	38'-0"
42'-0"	41'-0"	41'-0"	40'-0"
44'-0"	43'-0"	43'-0"	42'-0"
46'-0"	45'-0"	45'-0"	44'-0"
48'-0"	47'-0"	47'-0"	46'-0"
50'-0"	49'-0"	49'-0"	48'-0"
52'-0"	51'-0"	51'-0"	50'-0"
54'-0"	53'-0"	53'-0"	52'-0"
56'-0"	55'-0"	55'-0"	54'-0"
58'-0"	57'-0"	57'-0"	56'-0"
60'-0"	59'-0"	59'-0"	58'-0"
62'-0"	61'-0"	61'-0"	60'-0"
64'-0"	63'-0"	63'-0"	62'-0"
66'-0"	65'-0"	65'-0"	64'-0"
68'-0"	67'-0"	67'-0"	66'-0"
70'-0"	69'-0"	69'-0"	68'-0"
72'-0"	71'-0"	71'-0"	70'-0"
74'-0"	73'-0"	73'-0"	72'-0"
76'-0"	75'-0"	75'-0"	74'-0"
78'-0"	77'-0"	77'-0"	76'-0"
80'-0"	79'-0"	79'-0"	78'-0"
82'-0"	81'-0"	81'-0"	80'-0"
84'-0"	83'-0"	83'-0"	82'-0"
86'-0"	85'-0"	85'-0"	84'-0"
88'-0"	87'-0"	87'-0"	86'-0"
90'-0"	89'-0"	89'-0"	88'-0"
92'-0"	91'-0"	91'-0"	90'-0"
94'-0"	93'-0"	93'-0"	92'-0"
96'-0"	95'-0"	95'-0"	94'-0"
98'-0"	97'-0"	97'-0"	96'-0"
100'-0"	99'-0"	99'-0"	98'-0"

NOTE: SEE 02210 THROUGH 022107 FOR TRENCH REPAIR DETAILS



TYPICAL TRENCH  
 0222107



CONCRETE ARCH  
 (SEE NOTE 1)  
 0222105



PLAN  
 0260100



SECTION  
 0260101

PROJECT ENGINEER	H.T. TANT	Value
DESIGNED BY:	Value	
DRAWN BY:	Value	
CHECKED BY:	Value	
DATE:	Value	

1. 8" UNLESS OTHERWISE ORDERED.  
 2. SPECIFY PIPE SIZE AND TYPE WHEN ORDERING.



TYPICAL CURB INLET INSTALLATION  
 DETAIL 1  
 NTS D-2



TYPICAL TRENCH  
 0222107



CONCRETE ARCH  
 (SEE NOTE 1)  
 0222105



PLAN  
 0260100



SECTION  
 0260101

TRENCH EXCAVATION LIMITS	W	W	W
INTERNAL	MIN.	MAX.	MIN.
4'-0"	3'-0"	3'-0"	2'-0"
6'-0"	5'-0"	5'-0"	4'-0"
8'-0"	7'-0"	7'-0"	6'-0"
10'-0"	9'-0"	9'-0"	8'-0"
12'-0"	11'-0"	11'-0"	10'-0"
14'-0"	13'-0"	13'-0"	12'-0"
16'-0"	15'-0"	15'-0"	14'-0"
18'-0"	17'-0"	17'-0"	16'-0"
20'-0"	19'-0"	19'-0"	18'-0"
22'-0"	21'-0"	21'-0"	20'-0"
24'-0"	23'-0"	23'-0"	22'-0"
26'-0"	25'-0"	25'-0"	24'-0"
28'-0"	27'-0"	27'-0"	26'-0"
30'-0"	29'-0"	29'-0"	28'-0"
32'-0"	31'-0"	31'-0"	30'-0"
34'-0"	33'-0"	33'-0"	32'-0"
36'-0"	35'-0"	35'-0"	34'-0"
38'-0"	37'-0"	37'-0"	36'-0"
40'-0"	39'-0"	39'-0"	38'-0"
42'-0"	41'-0"	41'-0"	40'-0"
44'-0"	43'-0"	43'-0"	42'-0"
46'-0"	45'-0"	45'-0"	44'-0"
48'-0"	47'-0"	47'-0"	46'-0"
50'-0"	49'-0"	49'-0"	48'-0"
52'-0"	51'-0"	51'-0"	50'-0"
54'-0"	53'-0"	53'-0"	52'-0"
56'-0"	55'-0"	55'-0"	54'-0"
58'-0"	57'-0"	57'-0"	56'-0"
60'-0"	59'-0"	59'-0"	58'-0"
62'-0"	61'-0"	61'-0"	60'-0"
64'-0"	63'-0"	63'-0"	62'-0"
66'-0"	65'-0"	65'-0"	64'-0"
68'-0"	67'-0"	67'-0"	66'-0"
70'-0"	69'-0"	69'-0"	68'-0"
72'-0"	71'-0"	71'-0"	70'-0"
74'-0"	73'-0"	73'-0"	72'-0"
76'-0"	75'-0"	75'-0"	74'-0"
78'-0"	77'-0"	77'-0"	76'-0"
80'-0"	79'-0"	79'-0"	78'-0"
82'-0"	81'-0"	81'-0"	80'-0"
84'-0"	83'-0"	83'-0"	82'-0"
86'-0"	85'-0"	85'-0"	84'-0"
88'-0"	87'-0"	87'-0"	86'-0"
90'-0"	89'-0"	89'-0"	88'-0"
92'-0"	91'-0"	91'-0"	90'-0"
94'-0"	93'-0"	93'-0"	92'-0"
96'-0"	95'-0"	95'-0"	94'-0"
98'-0"	97'-0"	97'-0"	96'-0"
100'-0"	99'-0"	99'-0"	98'-0"

NOTE: SEE 02210 THROUGH 022107 FOR TRENCH REPAIR DETAILS



TYPICAL TRENCH  
 0222107



CONCRETE ARCH  
 (SEE NOTE 1)  
 0222105



PLAN  
 0260100



SECTION  
 0260101

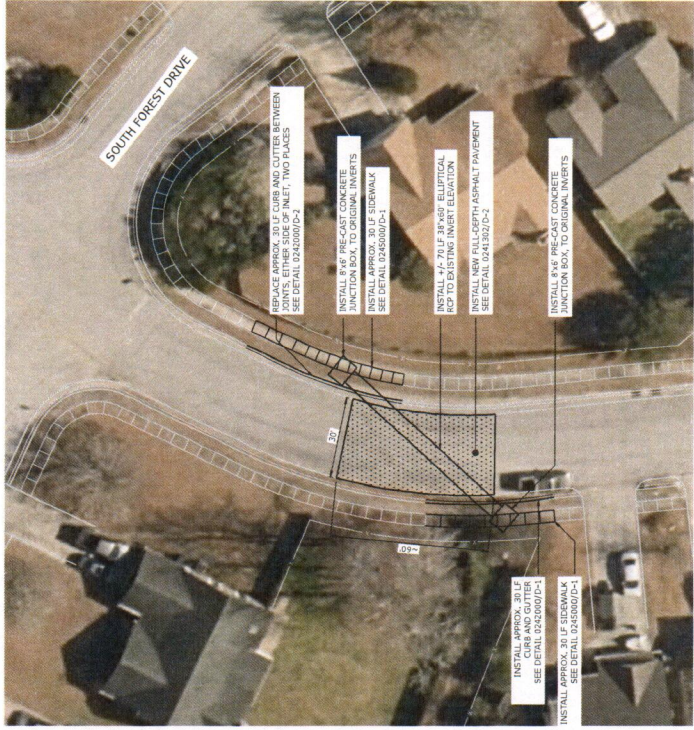
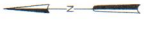
PROJECT ENGINEER	H.T. TANT	Value
DESIGNED BY:	Value	
DRAWN BY:	Value	
CHECKED BY:	Value	
DATE:	Value	

1. 8" UNLESS OTHERWISE ORDERED.  
 2. SPECIFY PIPE SIZE AND TYPE WHEN ORDERING.

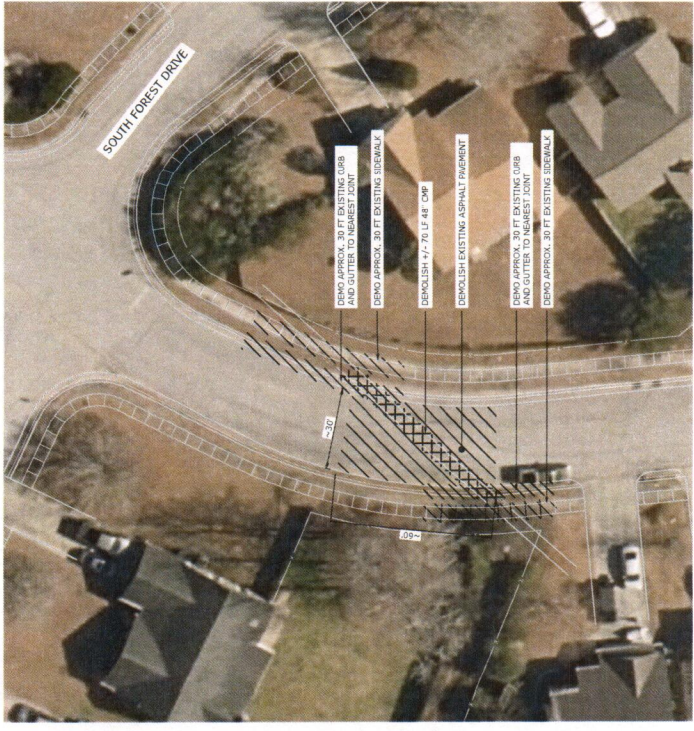


TYPICAL CURB INLET INSTALLATION  
 DETAIL 1

- NOTES:**
1. CONTRACTORS SHALL COORDINATE WITH CITY OF HAVELOCK ON ROAD CLOSURES, DETOURS, ETC. AS NECESSARY TO COMPLETE WORK.
  2. CONTRACTORS SHALL VERIFY ALL EXISTING OR BETTER CONDITION ALL DRIVEWAYS, MAILBOXES, FENCES, ETC. AS THEY MAY BE DAMAGED BY CONSTRUCTION ACTIVITIES.
  3. SEE NOTES ON G-1 FOR OTHER PROJECT CONDITIONS.



**PLAN**  
SCALE: 1" = 20'



**DEMOLITION PLAN**  
SCALE: 1" = 20'



SCALE: 1" = 20'



BEFORE YOU DIG!  
CONTACT ONE-CALL CENTER  
800-4-A-DAWN  
1-800-432-4949  
ENC UTILITY LOCATION  
1-877-868-6894

DATE:	OCTOBER 2017
HAZEN NO.:	30905-006
CONTRACT NO.:	
DRAWING NUMBER:	C-1

**SOUTH FOREST DRIVE**  
**STORM DRAINAGE AND PAVEMENT REPAIR**

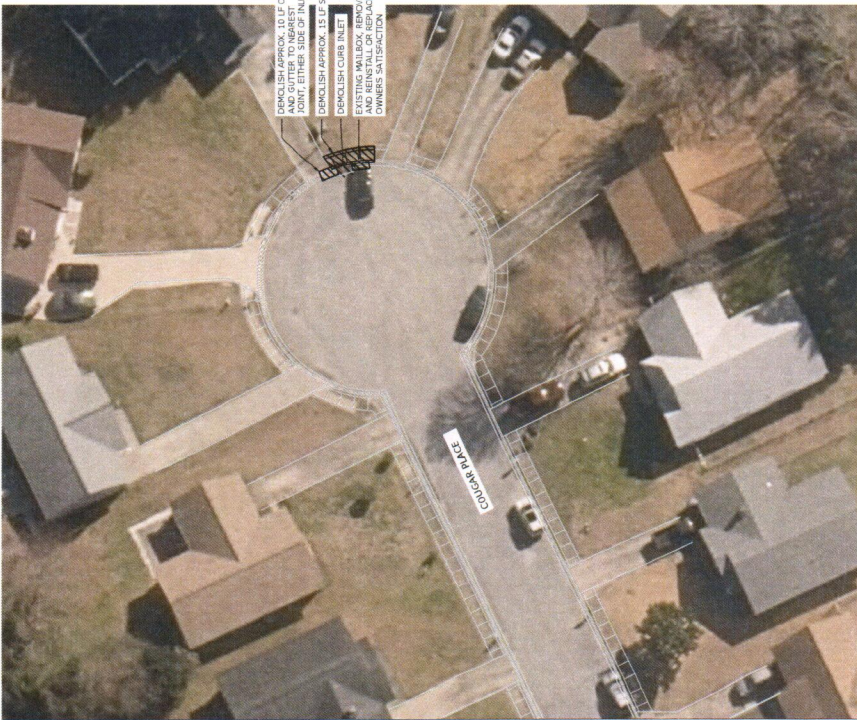
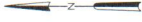
**CITY OF HAVELOCK**  
**HAVELOCK, NORTH CAROLINA**  
**STORMWATER SYSTEM REPAIRS**

**Hazen**  
HAZEN AND SAWYER  
4011 WESTCHASE BOULEVARD, SUITE 500  
RALEIGH, NORTH CAROLINA 27607  
LICENSE NO.: C-0381

PROJECT ENGINEER:	H.T. TANT
DESIGNED BY:	M. SANTOWASSO
DRAWN BY:	P. BELISKER
CHECKED BY:	M. SANTOWASSO
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	1" = 20'
ISSUED FOR:	
DATE:	
BY:	
REV:	

**NOTES:**

1. CONTRACTORS SHALL COORDINATE WITH CITY OF HAVELOCK ON POLE LOCATIONS, DETOURS, ETC. AS NECESSARY TO COMPLETE WORK.
2. CONTRACTORS SHALL BE RESPONSIBLE FOR RESTORING OR BETTER CONDITION, ALL DRIVEWAYS, WALKWAYS, FENCES, ETC. AS MAY BE DAMAGED BY CONSTRUCTION ACTIVITIES.
3. SEE NOTES ON G-1 FOR OTHER PROJECT CONDITIONS



PLAN  
SCALE: 1" = 20'

DEMOLITION PLAN  
SCALE: 1" = 20'



BEFORE YOU DIG!  
CONTACT ONE-CALL CENTER  
CALL 811  
OR  
1-800-632-6949

UNC UTILITY LOCATION  
1019-9654004

DATE: OCTOBER 2017

HAZEN NO.: 30906-006

CONTRACT NO.:

DRAWING NUMBER:

C-1

COUGAR PLACE  
STORM DRAINAGE AND  
PAVEMENT REPAIR

CITY OF HAVELOCK  
HAVELOCK, NORTH CAROLINA  
STORMWATER SYSTEM REPAIRS

HAZEN AND SAWYER  
4011 WESTCHASE BOULEVARD, SUITE 500  
RALEIGH, NORTH CAROLINA 27607  
LICENSE NO.: C0881

PROJECT ENGINEER:	H.T. TANT
DESIGNED BY:	P. SELISKER
DRAWN BY:	P. SELISKER
CHECKED BY:	M. SANTOWASSO
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	1/10"
ISSUED FOR:	DATE: 10/17/17
REV:	BY:

**NOTES:**

1. REMOVE EXISTING TREES/VEGETATION AND RESTORE TO ORIGINAL CONDITION. ALL EXISTING TREES WITH TEMPORARY COLLAR BRASS CONTROL MAT (TCM) WITH MINIMUM SHEAR STRESS OF 2 LB/FT<sup>2</sup>.
2. CONTRACTOR SHALL COORDINATE ACCESS TO CHANNEL AND SCOPE OF WORK WITH CITY OF HAVELOCK AND CITY OF HAVELOCK SHALL COORDINATE WITH CITY OF HAVELOCK ON ROAD CLOSURES, DETOURS, ETC. AS NECESSARY TO COMPLETE WORK.
3. CONTRACTOR SHALL CONSIDER THE IMPACT OF HAVELOCK ON ROAD CLOSURES, DETOURS, ETC. AS NECESSARY TO COMPLETE WORK.
4. CONTRACTOR SHALL REPAIR AND REPLACE TO EXISTING CONDITIONS ALL UTILITIES, FENCES, ETC. THAT MAY BE DAMAGED BY CONSTRUCTION ACTIVITIES.
5. SEE NOTES ON C-1 FOR OTHER PROJECT CONDITIONS



PLAN  
SCALE: 1" = 20'



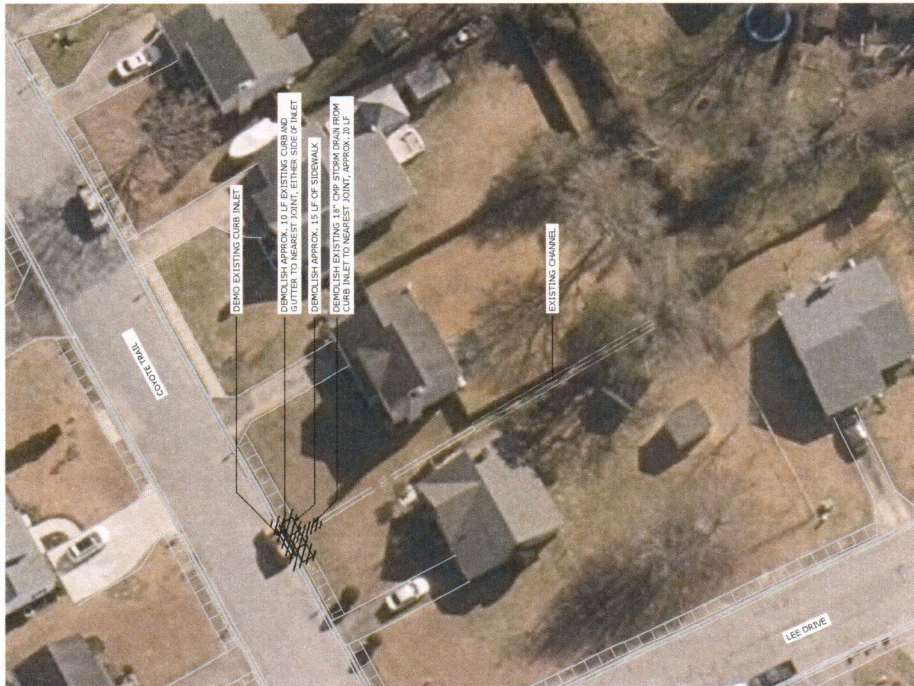
CONTACT ONE-CALL CENTER  
811  
OR  
1-800-632-4969  
UNIT UTILITY LOCATION  
251 PARRISH BL

DATE:	OCTOBER 2017
PROJECT NO.:	30906-006
CONTRACT NO.:	
DRAWING NUMBER:	C-1

COYOTE TRAIL  
STORM DRAINAGE AND PAVEMENT REPAIR

CITY OF HAVELOCK  
HAVELOCK, NORTH CAROLINA  
STORMWATER SYSTEM REPAIRS

Hazen  
HAZEN AND SAWYER  
4011 WESTCHASE BOULEVARD, SUITE 500  
RALEIGH, NORTH CAROLINA 27607  
LICENSE NO.: 3-C0094



DEMOLITION PLAN  
SCALE: 1" = 20'

PROJECT ENGINEER:	H.T. TANT	
DESIGNED BY:	M. SANTOWASSO	
DRAWN BY:	P. SELISKER	
CHECKED BY:	M. SANTOWASSO	
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	1" = 20'	
REV	DATE	BY
1		XX
2		XX

- NOTES:**
1. CONTRACTORS SHALL COORDINATE WITH CITY OF HAVELOCK ON ROAD CLOSURES, DETOURS, ETC AS NECESSARY TO COMPLETE WORK. REFERENCE TO BE MADE TO THE DRAWING FOR THE EXISTING CONDITION OR BETTER. ALL DRIVEWAYS, MAILBOXES, FENCES, ETC. AS MAY BE DAMAGED BY CONSTRUCTION ACTIVITIES.
  2. SEE NOTES ON G-1 FOR OTHER PROJECT CONDITIONS



**PLAN**  
SCALE: 1" = 20'



**DEMOLITION PLAN**  
SCALE: 1" = 20'



BEFORE YOU DIG  
CONTACT ONE-CALL CENTER  
1-800-632-0949  
UNC UTILITY LOCATION  
19150562004



DATE: OCTOBER 2017  
HAZEN NO.: 30906-006  
CONTRACT NO.:  
DRAWING NUMBER:  
C-1

GRAY FOX ROAD  
STORM DRAINAGE AND  
PAVEMENT REPAIR

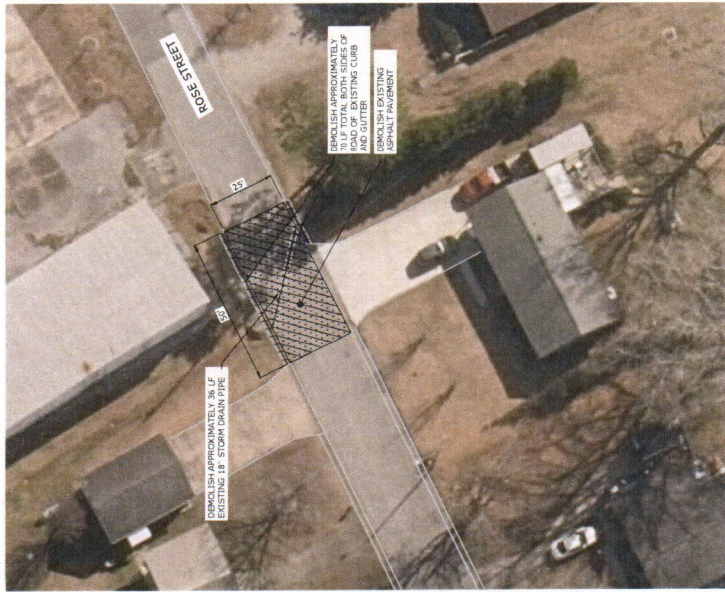
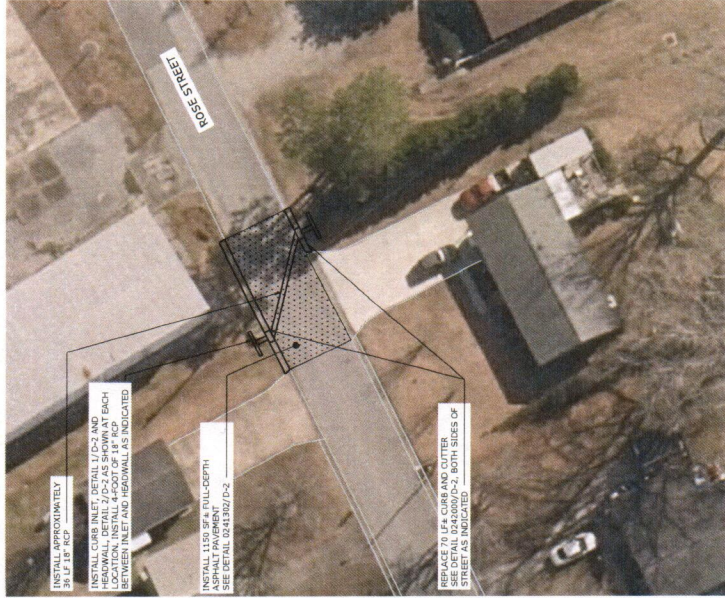
CITY OF HAVELOCK  
HAVELOCK, NORTH CAROLINA  
STORMWATER SYSTEM REPAIRS

**Hazen**  
HAZEN AND SAWYER  
4011 WESTCHASE BOULEVARD, SUITE 500  
RALEIGH, NORTH CAROLINA 27607  
LICENSE NO.: C-9381

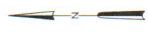
PROJECT ENGINEER:	H. T. TANT
DESIGNED BY:	M. SANTOWASSO
DRAWN BY:	P. SELISKER
CHECKED BY:	M. SANTOWASSO
IF THIS DRAWING IS NOT MEASURED, THEN DRAWING IS NOT TO FULL SCALE	1/2" = 1'

REV	ISSUED FOR	DATE	BY





- NOTES:**
1. CONTRACTOR SHALL COORDINATE WITH CITY OF HAYLOCK ON ROAD CLOSURES, DETOURS, ETC. AS NECESSARY TO COMPLETE WORK.
  2. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.
  3. SEE NOTES ON G-1 FOR OTHER PROJECT CONDITIONS.



**PLAN**  
SCALE: 1" = 20'

**DEMOLITION PLAN**  
SCALE: 1" = 20'



BEFORE YOU DIG!  
CONTACT ONE-CALL CENTER  
CALL 811  
1-800-632-0949  
UNC UTILITY LOCATION  
1-811-556-6894



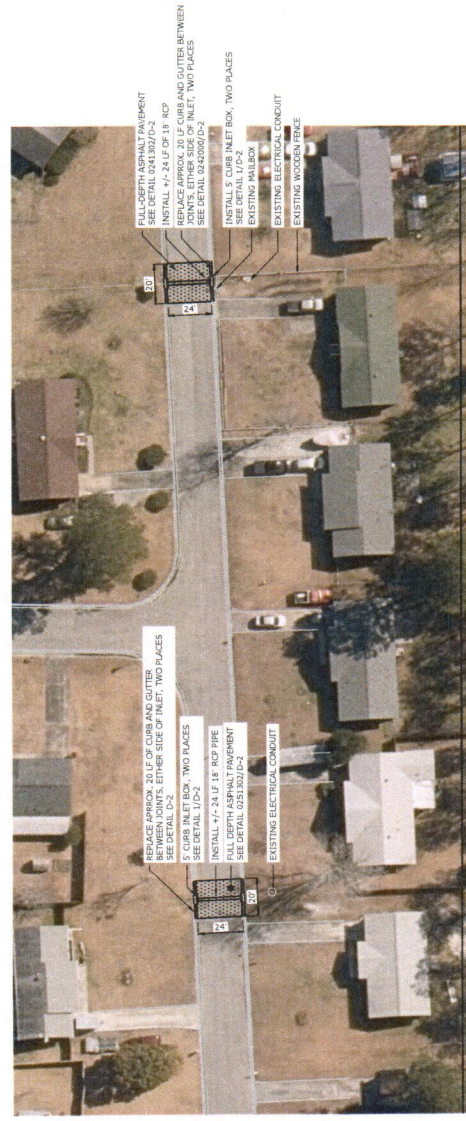
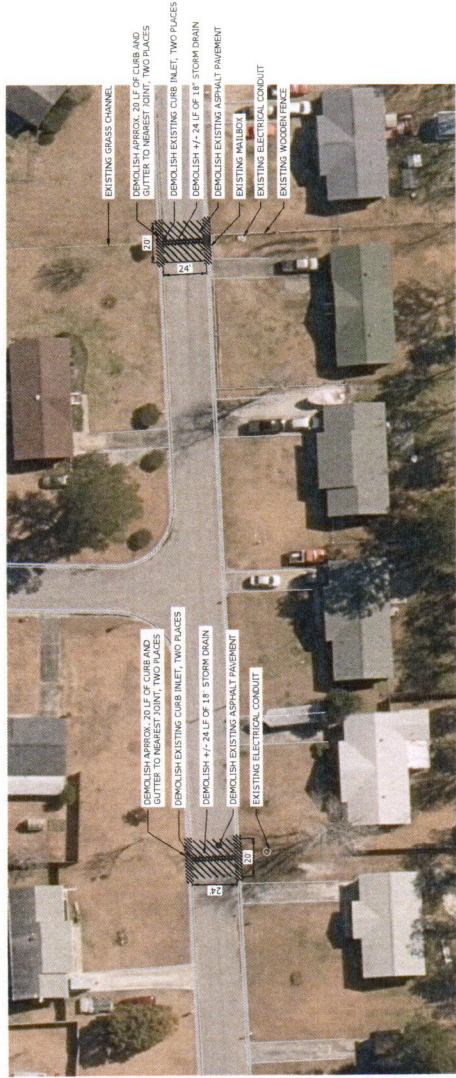
DATE:	OCTOBER 2017
HAZEN NO.:	30906-006
CONTRACT NO.:	
DRAWING NUMBER:	
	C-1

ROSE STREET  
STORM DRAINAGE AND  
PAVEMENT REPAIR

CITY OF HAYLOCK  
HAYLOCK, NORTH CAROLINA  
STORMWATER SYSTEM REPAIRS

**Hazen**  
HAZEN AND SAWYER  
4011 WESTCHASE BOULEVARD, SUITE 500  
RALEIGH, NORTH CAROLINA 27607  
LICENSE NO.: C-0381

DESIGNED BY:	H. T. TANT
DRAWN BY:	M. SANTOWASSO
CHECKED BY:	P. SELLSKER
DATE:	10/12/17
ISSUED FOR:	
BY:	
DATE:	
REVISION:	

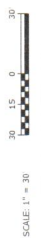


- NOTES:**
1. CONTRACTOR SHALL COORDINATE WITH CITY OF HAVELOCK TO DEMOLISH CURBS, DRIVEWAYS, ETC. AS NECESSARY TO COMPLETE WORK.
  2. CONTRACTOR SHALL REPAIR AND REPLACE ALL DRIVEWAYS, MAILBOXES, FENCES, ETC. TO EXISTING OR BETTER CONDITIONS. ANY DAMAGE TO EXISTING UTILITIES MAY BE DAMAGED BY CONSTRUCTION ACTIVITIES.
  3. SEE NOTES ON G-1 FOR OTHER PROJECT CONDITIONS.



**BEFORE YOU DIG!  
CONTACT ONE-CALL CENTER  
800-4-A-UTILITY**

1-800-632-9999  
TOLL FREE  
1-800-4-A-UTILITY



DATE:	OCTOBER 2017
HAZEN NO.:	30906-006
CONTRACT NO.:	
DRAWING NUMBER:	C-1

**TALL PINE ROAD  
STORM DRAINAGE AND  
PAVEMENT REPAIR**

**CITY OF HAVELOCK  
HAVELOCK, NORTH CAROLINA**

**STORMWATER SYSTEM REPAIRS**



PROJECT ENGINEER:	H.T. TANT
DESIGNED BY:	M. SANTOWASSO
DRAWN BY:	P. SELISKER
CHECKED BY:	M. SANTOWASSO
IF THIS IS A REVISION, MEASURE IT, THEN DRAWING IS NOT TO FULL SCALE	0 / 1/2 / 1
ISSUED FOR:	BY
DATE:	

**DEMOLITION PLAN**  
SCALE: 1" = 30'

**PLAN**  
SCALE: 1" = 30'