

**SITE DATA:**

1. OWNER:  
PACIFIC BEACH CONSTRUCTION, LLC  
PO BOX 116  
BARCO, NC 27917

DEVELOPER:  
BOSWOOD ESTATES, LLC  
PO BOX 116  
BARCO, NC 27917  
252-453-4300

2. SITE INFORMATION  
PIN: 00600005380000  
D.B. 1566 PG. 733  
ZONING: GB (GENERAL BUSINESS)

TOTAL PARCEL AREA: 28.94 AC  
AREA OUTSIDE CMA JURISDICTION: 20.51 AC  
UPLAND AREA: 16.28 AC  
WETLAND AREA: 10.66 AC

OPEN SPACE REQUIRED: 30%  
OPEN SPACE PROVIDED: 41%  
1.54 AC BUFFERS TO BE OWNED BY HOA  
9.51 AC 404 WETLANDS TO BE DEDICATED TO NON-PROFIT  
REMAINING SUBDIVISION AREA = 17.43 AC

PROPOSED STREETS: DODSON DRIVE 50' RW 1,048 LF  
MATHIAS COURT 50' RW 150 LF

EXISTING USE: VACANT/AGRICULTURAL  
PROPOSED USE: RESIDENTIAL

3. TOTAL NUMBER OF LOTS = 14  
PHASE 1: LOTS 1-8  
PHASE 2: LOTS 9-14  
SMALLEST LOT = 0.91 AC  
LOT AREA = 13.22 AC  
RW AREA = 1.44 AC  
TYPE B AESTHETIC BUFFER AREA: 0.64 AC  
MAJOR ARTERIAL BUFFER AREA: 0.37 AC  
AGRICULTURAL BUFFER AREA: 0.53 AC

4. MINIMUM BUILDING SETBACKS:  
FRONT: 25' (BASED ON EASEMENT)  
SIDE: 15' (ZONING)  
SIDE (CORNER): 25' (BASED ON EASEMENT)  
REAR: 25' (ZONING)  
(30' MAJOR ARTERIAL SETBACK ALONG US HWY 168)

5. EASEMENTS:  
10' ALONG SIDE PROPERTY LINES  
25' ALONG REAR PROPERTY LINES  
25' DRAINAGE, LANDSCAPE, & PEDESTRIAN EASEMENT  
ALONG RIGHT OF WAY  
EASEMENTS EXCEEDING THESE ARE AS NOTED

6. SITE IS LOCATED IN FLOOD ZONE "X", "SHADED X", & AE(4)" AS SHOWN ON F.I.R.M. PANEL 372098800K, DATED DECEMBER 21, 2018. FLOOD ZONES SUBJECT TO CHANGE BY FEMA.

7. THE MAXIMUM BUILT UPON AREA PER LOT PER NCDEQ STORMWATER MANAGEMENT PERMIT: 8,000 SF

THE MAXIMUM BUILT UPON AREA FOR EACH LOT IS 8,000 SF. THE ALLOTTED AMOUNT INCLUDES ANY BUILT-UPON AREA CONSTRUCTED WITHIN THE LOTS PROPERTY LINES AND THAT PORTION OF THE RIGHT-OF-WAY BETWEEN THE FRONT PROPERTY LINE AND THE BACK OF CURB. BUILT-UPON AREA INCLUDES, BUT IS NOT LIMITED TO, STRUCTURES, ASPHALT, GRAVEL, CONCRETE, BRICK, STONE, SLATE, OR SIMILAR MATERIAL, BUT DOES NOT INCLUDE RAISED OPEN WOOD DECKING OR THE WATER SURFACE OF SWIMMING POOLS.

COVERAGE CALCULATIONS:  
LOT COVERAGE: 112,000 SF (14.75%)  
ASPHALT: 31,016 SF (4.09%)  
CONCRETE: 10,119 SF (1.34%)  
TOTAL: 153,194 SF (20.18%)  
(PERCENTAGE BASED ON 17.43 ACRES REMAINING AFTER DEDICATION OF WETLANDS TO NON-PROFIT)

8. ANY FILL BROUGHT ON SITE SHALL BE FROM AN APPROVED SITE/MINE. ANY MATERIAL REMOVED FROM THE SITE SHALL BE DISPOSED OF IN A SINGLE APPROVED LOCATION.
9. DISTURBED AREAS SHALL BE MANAGED AND MAINTAINED IN ACCORDANCE WITH NCDEQ REGULATIONS. DISTURBED AREA WILL NOT EXCEED 16.4 ACRES.
10. EXISTING CONDITIONS DATA IS BASED UPON A TOPOGRAPHIC SITE SURVEY PERFORMED BY THE TIMMONS GROUP IN DECEMBER 2019.
11. WETLANDS SHOWN HEREON DELINEATED BY ATLANTIC ENVIRONMENTAL CONSULTANTS, LLC ON FEBRUARY 4, 2020. U.S. ARMY CORPS OF ENGINEERS APPROVED DELINEATION ON SITE FEBRUARY 4, 2020. JD LETTER ISSUED MARCH 25, 2020.
12. ELEVATION INFORMATION SHOWN HEREON IS NAVD 1988 DATUM AND DERIVED FROM LEICA RTK NETWORK.
13. ACCESS TO CORNER LOTS (10 & 14) SHALL BE FROM MATHIAS COURT.
14. NO STREET LIGHTING IS PROPOSED.
15. RECREATION & PARK AREA DEDICATION: 14 LOTS X 0.0255 AC/LOT = 0.36 AC. PAYMENT IN LIEU OF DEDICATION IS PROPOSED DUE TO SIZE.
16. STREET INTERCONNECTIVITY INDEX CALCULATION: NUMBER OF LINKS = 3  
NUMBER OF NODES = 2  
CONNECTIVITY INDEX = 3/2 = 1.50  
(FOR GB, MIN. INDEX SCORE REQ'D = 1.40)
17. NO DISTURBANCE IS PROPOSED WITHIN WETLANDS OR CMAA AEC.
18. NO SHORELINE IMPROVEMENTS ARE PROPOSED.

**APPROVAL CERTIFICATE**

I HEREBY CERTIFY THAT THE SUBDIVISION SHOWN ON THIS PLAT IS IN ALL RESPECTS IN COMPLIANCE WITH THE CURRITUCK COUNTY UNIFIED DEVELOPMENT ORDINANCE AND, THEREFORE, THIS PLAT HAS BEEN APPROVED BY THE CURRITUCK COUNTY TECHNICAL REVIEW COMMITTEE AND SIGNED BY THE ADMINISTRATOR, SUBJECT TO ITS BEING RECORDED IN THE CURRITUCK COUNTY REGISTRY WITHIN 90 DAYS OF THE DATE BELOW.

DATE \_\_\_\_\_ ADMINISTRATOR \_\_\_\_\_

**ENVIRONMENTAL CONCERN CERTIFICATE**

THIS SUBDIVISION (OR PORTIONS THEREOF) IS LOCATED WITHIN AN AREA OF ENVIRONMENTAL CONCERN.

DATE \_\_\_\_\_ LOCAL PERMIT OFFICER \_\_\_\_\_

**IMPROVEMENTS CERTIFICATE**

I HEREBY CERTIFY THAT ALL IMPROVEMENTS REQUIRED BY THE CURRITUCK COUNTY UNIFIED DEVELOPMENT ORDINANCE HAVE BEEN INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS PREPARED BY THE TIMMONS GROUP, AND SAID IMPROVEMENTS COMPLY WITH CURRITUCK COUNTY SPECIFICATIONS.

DATE \_\_\_\_\_ REGISTERED LAND SURVEYOR/ENGINEER \_\_\_\_\_

REGISTRATION NUMBER \_\_\_\_\_

**OWNERSHIP AND DEDICATION CERTIFICATE**

I HEREBY CERTIFY THAT I AM THE OWNER OF THE PROPERTY DESCRIBED HEREON, WHICH PROPERTY IS LOCATED WITHIN THE SUBDIVISION JURISDICTION OF CURRITUCK COUNTY, THAT I HEREBY FREELY ADOPT THIS PLAT OF SUBDIVISION AND DEDICATE TO PUBLIC USE ALL AREA SHOWN ON THIS PLAT AS STREETS, UTILITIES, ALLEYS, WALKS, RECREATION AND PARKS, OPEN SPACE AND EASEMENTS, EXCEPT THOSE SPECIFICALLY INDICATED AS PRIVATE AND THAT I WILL MAINTAIN ALL SUCH AREAS UNTIL THE OFFER OF DEDICATION IS ACCEPTED BY THE APPROPRIATE PUBLIC AUTHORITY OR HOME OWNERS' ASSOCIATION. ALL PROPERTY SHOWN ON THIS PLAT AS DEDICATED FOR A PUBLIC USE SHALL BE DEEMED TO BE DEDICATED FOR ANY OTHER PUBLIC USE AUTHORIZED BY LAW WHEN SUCH USE IS APPROVED BY THE APPROPRIATE PUBLIC AUTHORITY IN THE PUBLIC INTEREST.

DATE \_\_\_\_\_ OWNER \_\_\_\_\_

I, \_\_\_\_\_, A NOTARY PUBLIC OF \_\_\_\_\_ COUNTY,

NORTH CAROLINA, DO HEREBY CERTIFY THAT PERSONALLY APPEARED BEFORE ME THIS DATE AND ACKNOWLEDGED THE DUE EXECUTION OF THE FOREGOING CERTIFICATE.  
WITNESS MY HAND AND OFFICIAL SEAL THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_

NOTARY PUBLIC \_\_\_\_\_

MY COMMISSION EXPIRES \_\_\_\_\_

**PUBLIC STREETS DIVISION OF HIGHWAY DISTRICT ENGINEER CERTIFICATE**

I HEREBY CERTIFY THAT THE PUBLIC STREETS SHOWN ON THIS PLAT ARE INTENDED FOR DEDICATION AND HAVE BEEN DESIGNED OR COMPLETED IN ACCORDANCE WITH AT LEAST THE MINIMUM SPECIFICATIONS AND STANDARDS OF THE NC DEPARTMENT OF TRANSPORTATION FOR ACCEPTANCE OF SUBDIVISION STREETS ON THE NC HIGHWAY SYSTEM FOR MAINTENANCE.

DATE \_\_\_\_\_ OWNER \_\_\_\_\_

**ADJACENT ACTIVE FARMLAND STATEMENT**

AS OF THE RECORDED DATE OF THIS PLAT, SOME PORTIONS OF THIS DEVELOPMENT ADJOIN LAND USED FOR ACTIVE AGRICULTURE PURPOSES THAT IS ANTICIPATED TO GENERATE NOISE, LIGHT, DUST, OR VIBRATION AS PART OF ITS NORMAL OPERATION.

**AIRPORT OVERLAY DISTRICT STATEMENT**

ALL OR A PORTION OF THIS PROPERTY LIES WITHIN THE AIRPORT OVERLAY DISTRICT. PERSONS ON THE PREMISES MAY BE EXPOSED TO NOISE AND OTHER EFFECTS AS MAY BE INHERENT IN AIRPORT OPERATIONS. CURRITUCK COUNTY HAS PLACED CERTAIN RESTRICTIONS ON DEVELOPMENT AND USE OF PROPERTY WITHIN THIS OVERLAY.

**EASEMENT ESTABLISHMENT STATEMENT**

A 10 FOOT EASEMENT FOR UTILITIES AND DRAINAGE ALONG REAR AND SIDE PROPERTY LINES AND A 25 FOOT EASEMENT ALONG THE FRONT PROPERTY LINE IS HEREBY ESTABLISHED.

**FLOODWAY/FLOODPLAIN STATEMENT**

USE OF LAND WITHIN A FLOODWAY OR FLOODPLAIN IS SUBSTANTIALLY RESTRICTED BY CHAPTER 7 OF THE CURRITUCK COUNTY UNIFIED DEVELOPMENT ORDINANCE.

**INTERCONNECTIVITY STATEMENT**

THIS SUBDIVISION CONTAINS A RIGHT-OF-WAY THAT IS PLATTED WITH THE INTENT OF BEING EXTENDED AND CONTINUED TO AND FROM ADJOINING PROPERTIES. ACCESS WITHIN THE RIGHT-OF-WAY FOR STREETS AND UTILITIES SHALL NOT BE RESTRICTED.

**PUBLIC DEDICATION OF RECREATION AND PARK AREA STATEMENT**

A PAYMENT-IN-LIEU OF RECREATION AND PARK AREA DEDICATION HAS BEEN PROVIDED IN ACCORDANCE WITH THE CURRITUCK COUNTY UNIFIED DEVELOPMENT ORDINANCE. PAYMENTS-IN-LIEU RECEIVED BY THE COUNTY SHALL BE USED ONLY FOR THE ACQUISITION OR DEVELOPMENT OF RECREATION AND PARK AREAS, AND OPEN SPACE SITES CONSISTENT WITH THE REQUIREMENTS OF NORTH CAROLINA GENERAL STATUTES SECTION 153A-331.

**STORMWATER STATEMENT**

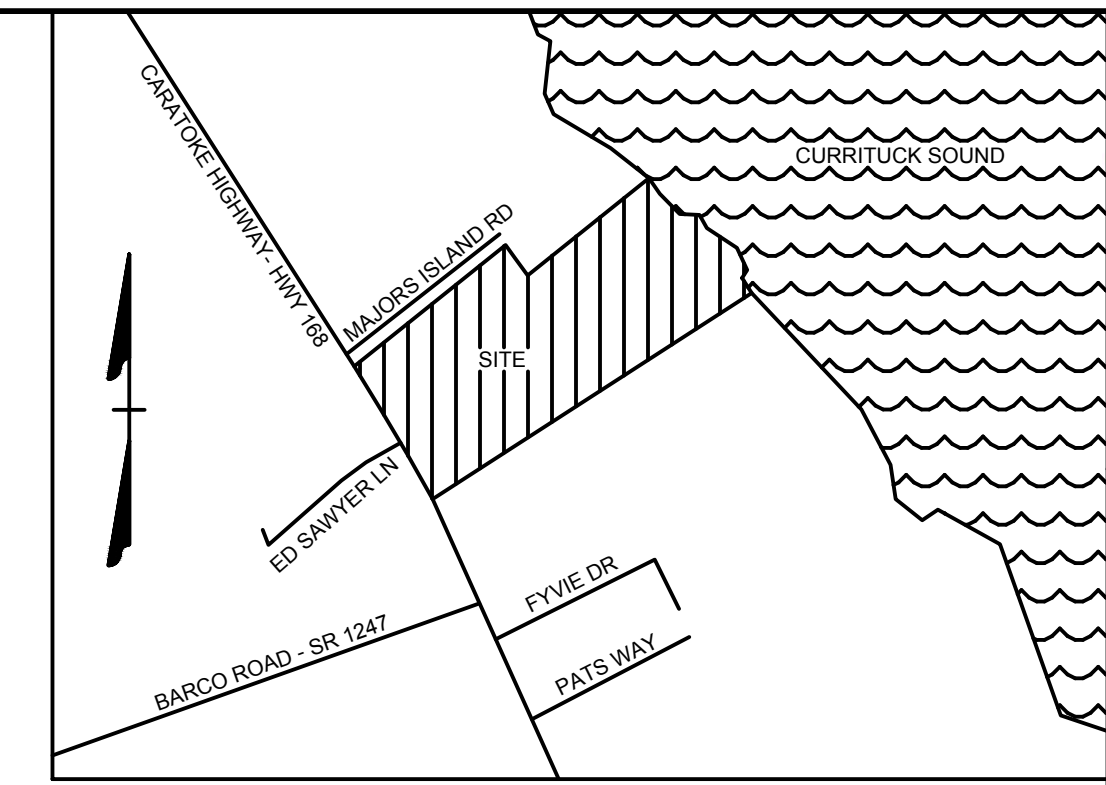
NO MORE THAN 8,000 SF OF ANY LOT SHALL BE COVERED BY IMPERVIOUS STRUCTURES AND MATERIALS, INCLUDING ASPHALT, GRAVEL, CONCRETE, BRICK, STONE, SLATE, OR SIMILAR MATERIAL, NOT INCLUDING WOOD DECKING OR THE WATER SURFACE OF SWIMMING POOLS. THIS COVENANT IS INTENDED TO ENSURE COMPLIANCE WITH THE STORMWATER PERMIT NUMBER ISSUED BY THE STATE OF NORTH CAROLINA. THE COVENANT MAY NOT BE CHANGED OR DELETED WITHOUT THE CONSENT OF THE STATE. FILLING IN OR PIPING OF ANY VEGETATIVE CONVEYANCES (DITCHES, SWALES, ETC.) ASSOCIATED WITH THIS DEVELOPMENT, EXCEPT FOR AVERAGE DRIVEWAY CROSSINGS, IS STRICTLY PROHIBITED BY ANY PERSON. THE LOT COVERAGE ALLOWANCE PROVIDED IN THE CURRITUCK COUNTY UNIFIED DEVELOPMENT ORDINANCE MAY BE DIFFERENT THAN THE NC STATE STORMWATER PERMIT. THE MOST RESTRICTIVE LOT COVERAGE SHALL APPLY.

**WETLANDS STATEMENT**

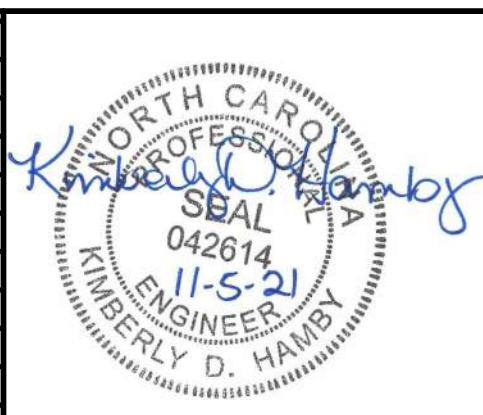
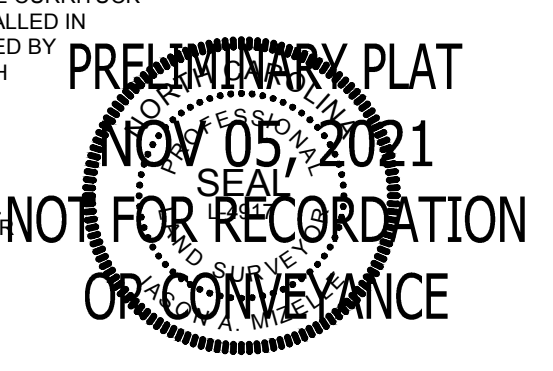
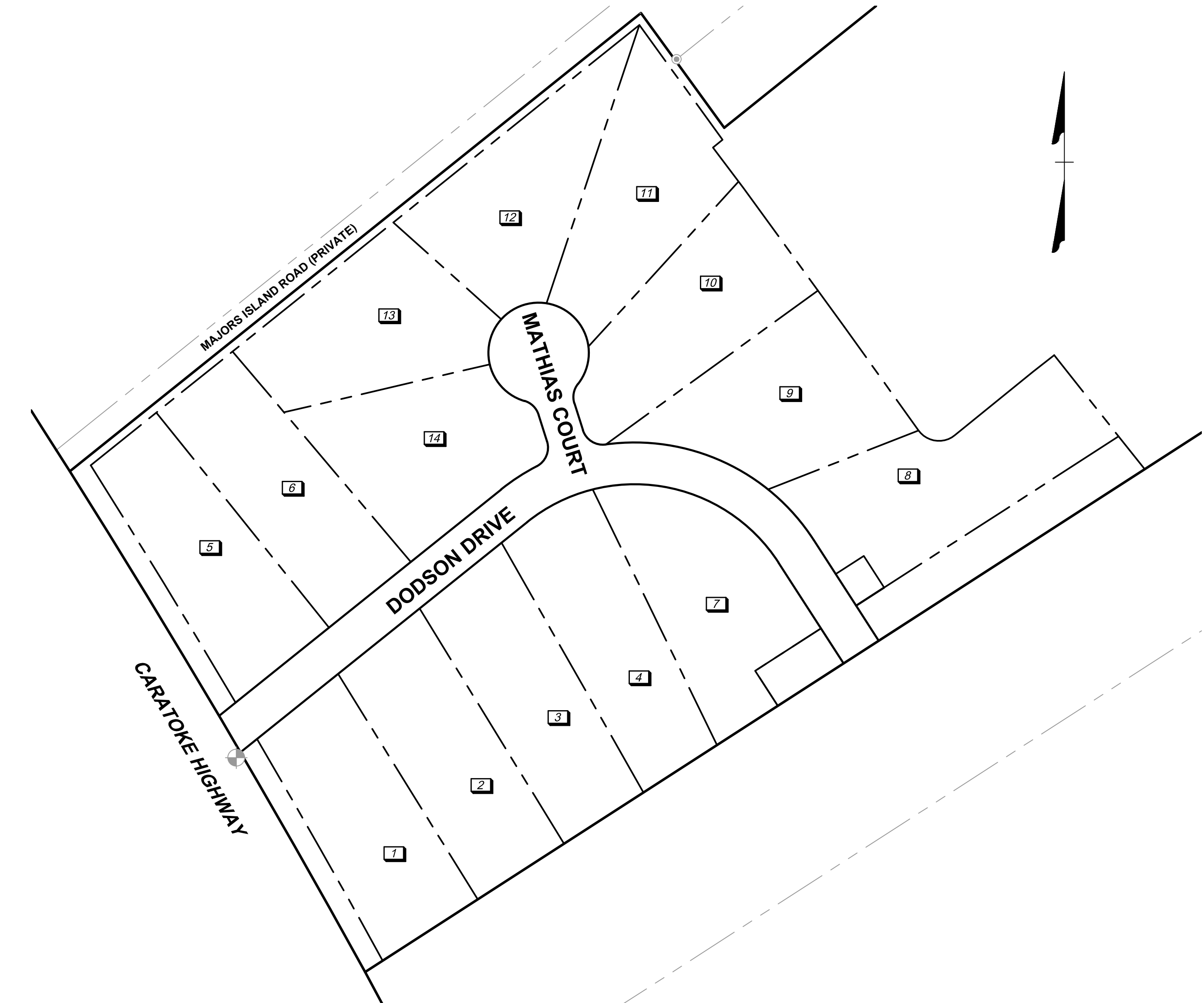
PROPERTY ON THIS PLAT MAY CONTAIN 404 WETLANDS AND MAY REQUIRE U.S. CORP OF ENGINEERS APPROVAL PRIOR TO DEVELOPMENT OF THE PROPERTY.

**PROPERTY ADDRESSES**

- LOT 1: 100 DODSON DR  
LOT 2: 102 DODSON DR  
LOT 3: 104 DODSON DR  
LOT 4: 106 DODSON DR  
LOT 5: 101 DODSON DR  
LOT 6: 103 DODSON DR  
LOT 7: 108 DODSON DR  
LOT 8: 111 DODSON DR  
LOT 9: 109 DODSON DR  
LOT 10: 100 MATHIAS CT  
LOT 11: 102 MATHIAS CT  
LOT 12: 104 MATHIAS CT  
LOT 13: 103 MATHIAS CT  
LOT 14: 101 MATHIAS CT



**VICINITY MAP**  
NO SCALE



THIS DRAWING PREPARED AT THE  
**ELIZABETH CITY OFFICE**  
1805 West City Drive, Unit E | Elizabeth City, NC 27909  
TEL 252.621.3030 FAX 252.621.0974 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

DATE	REVISION DESCRIPTION
11/05/2021	REVISIONS PER TRC COMMENTS

DATE	11/10/2020
DRAWN BY	JHS
DESIGNED BY	JAM
CHECKED BY	JAM
SCALE	N/A

**TIMMONS GROUP**  
NORTH CAROLINA LICENSE NO. C-1652

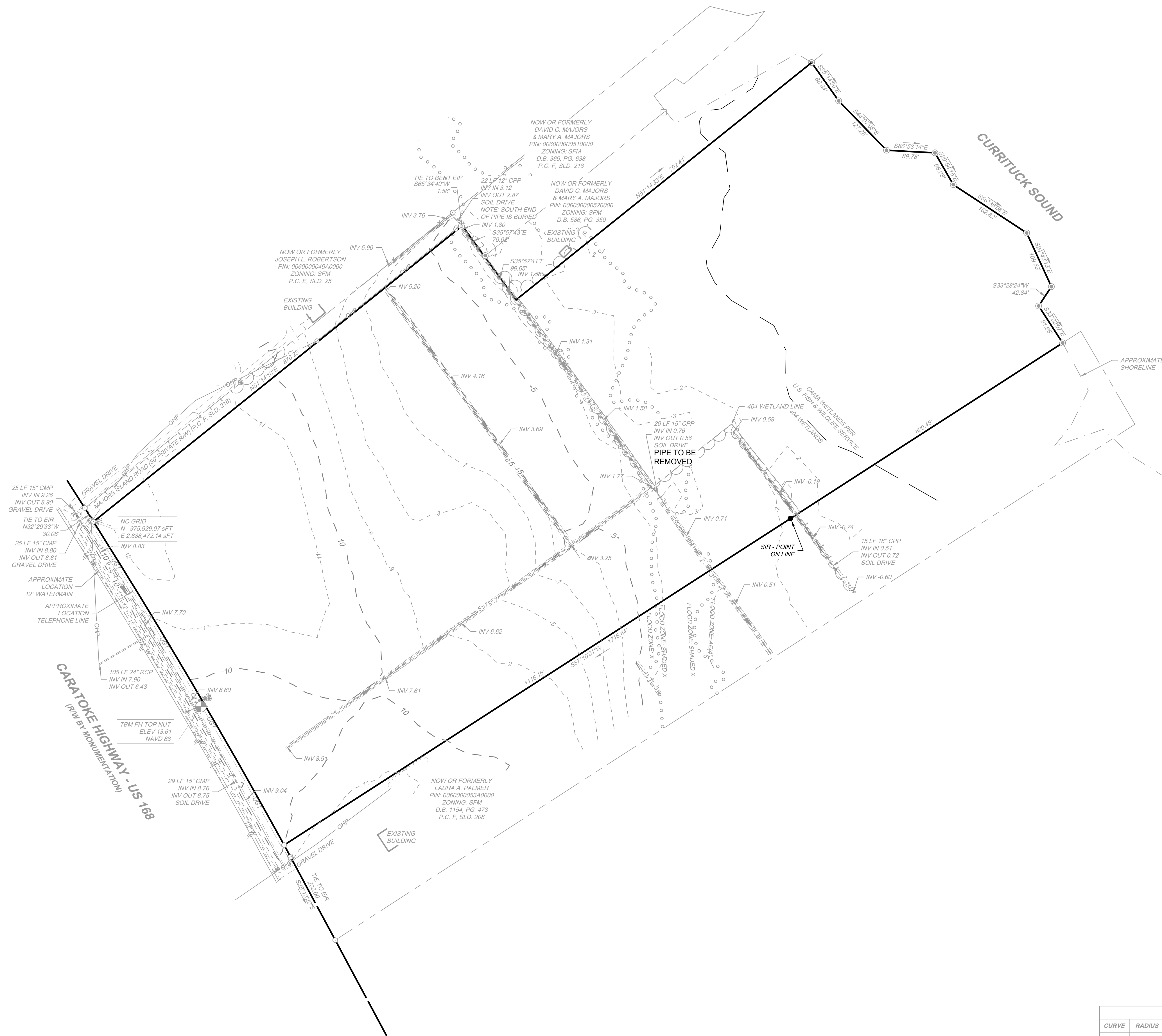
**BOSWOOD ESTATES CONSTRUCTION DRAWINGS**  
CRAWFORD TOWNSHIP - CURRITUCK COUNTY - NORTH CAROLINA

**COVER SHEET**

JOB NO.	44845
SHEET NO.	C0.0

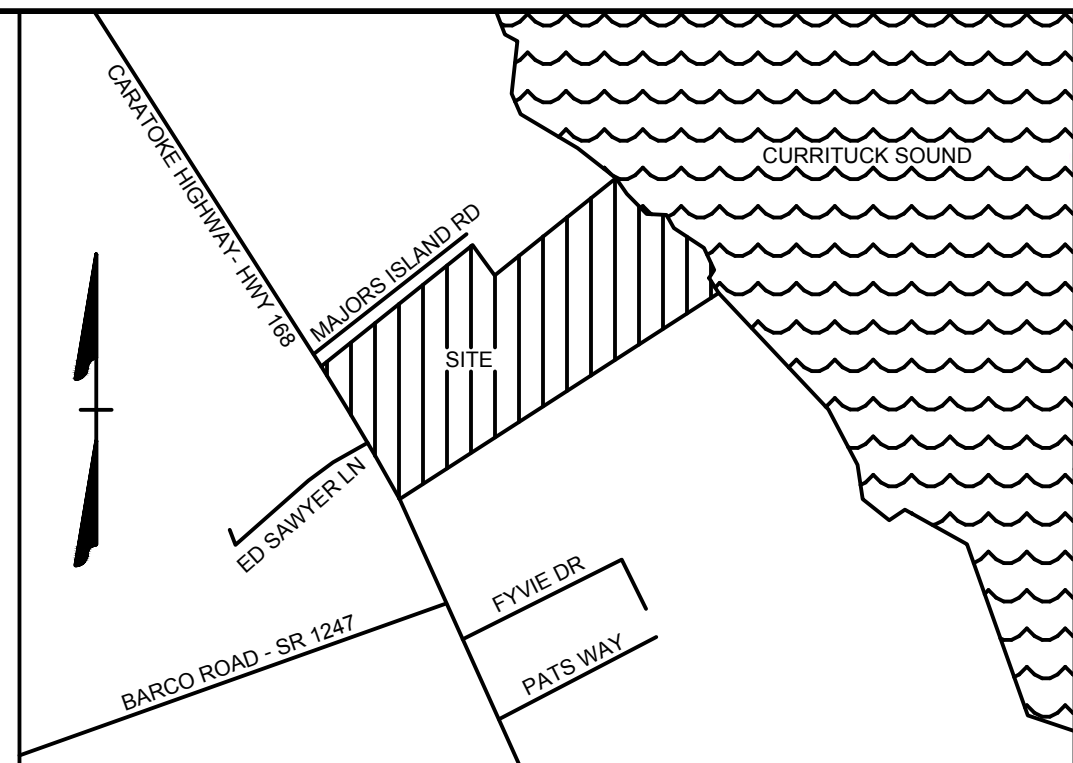
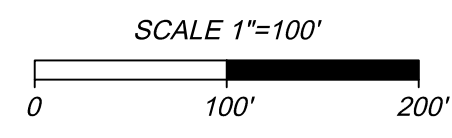


S:\10944445 - Boswood Estates - Mathias Property - Barco, NC\DWG\Sheet\CD4446C - C1.0 - EXIST COND.dwg | Printed on 11/05/2021 9:10 AM | by Kim Hamby

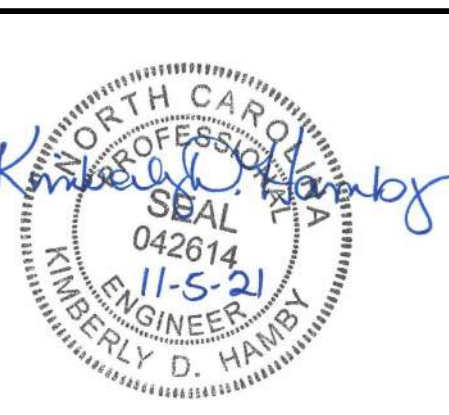


CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
C1	11539.16'	695.78'	347.99'	3°27'17"	N30°31'05"W	695.67'

- LEGEND**
- BENCHMARK
  - EXISTING IRON PIPE (EIP)
  - EXISTING IRON REBAR (EIR)
  - SET IRON REBAR (SIR)
  - CALCULATED POINT
  - EXISTING FIRE HYDRANT
  - EXISTING WATER VALVE
  - EXISTING WATER METER
  - EXISTING SIGN / MARKER
  - EXISTING UTILITY POLE
  - EXISTING GUY WIRE
  - EXISTING TELEPHONE PEDESTAL
  - EXISTING MAILBOX
  - EXISTING BOLLARD
  - PROPERTY BOUNDARY LINES
  - PROPERTY EXTENSION LINES
  - RIGHT OF WAY LINES
  - EXISTING EDGE OF PAVEMENT
  - EXISTING TELEPHONE LINE (UGT)
  - 
  - EXISTING OVERHEAD POWER (OHP)
  - EXISTING CENTER OF DITCH
  - EXISTING TOP OF BANK
  - EXISTING STORM PIPE
  - EXISTING APPROXIMATE SHORELINE
  - EXISTING FENCE
  - EXISTING MAJOR CONTOUR
  - EXISTING MINOR CONTOUR
  - FEMA FLOOD ZONE
  - 404 WETLAND LINE
  - SOILS LINE
  - CAMA LINE
  - SHRUB LINE
  - TREELINE



VICINITY MAP  
NO SCALE



THIS DRAWING PREPARED AT THE  
**ELIZABETH CITY OFFICE**  
1805 West City Drive, Unit E | Elizabeth City, NC 27909  
TEL 252.621.3030 FAX 252.621.6974 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

DATE	REVISION DESCRIPTION
11/05/2021	REVISIONS PER TRC COMMENTS

DATE	11/10/2020
DRAWN BY	JHS/BCD
DESIGNED BY	NA
CHECKED BY	JAM/KDH
SCALE	1" = 100'

**TIMMONS GROUP**  
NORTH CAROLINA LICENSE NO. C-1652

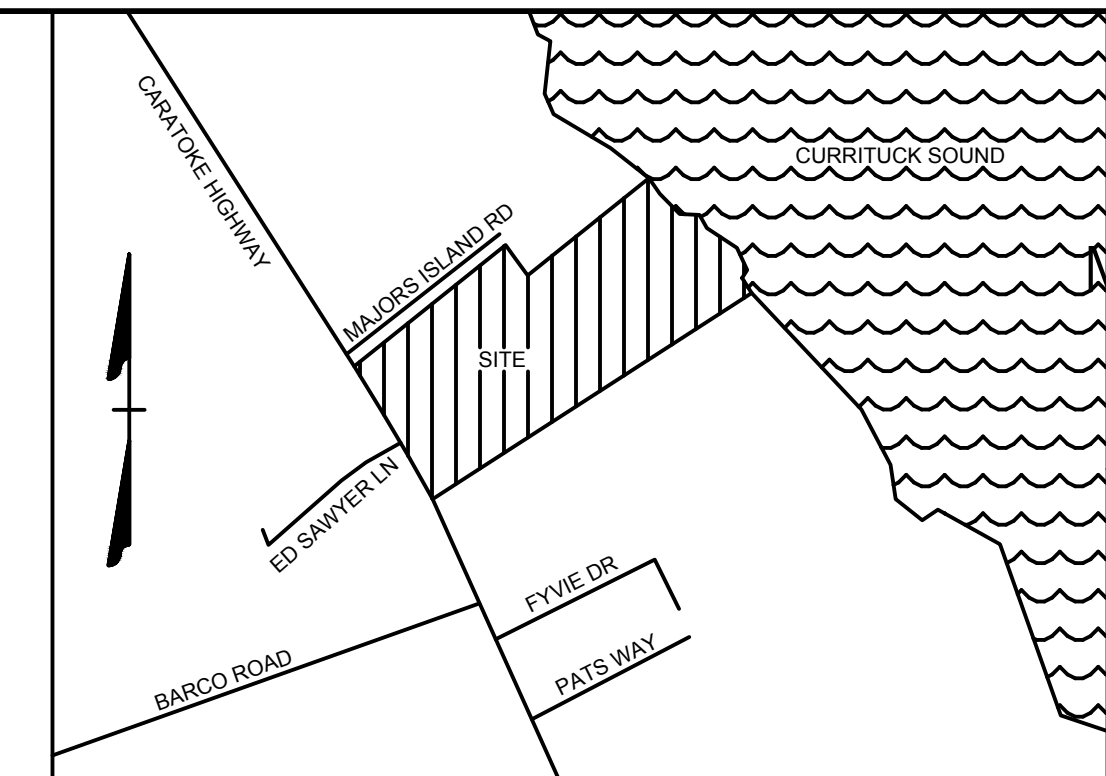
**BOSWOOD ESTATES CONSTRUCTION DRAWINGS**  
CRAWFORD TOWNSHIP - CURRITUCK COUNTY - NORTH CAROLINA

**EXISTING CONDITIONS**

JOB NO.	44845
SHEET NO.	C1.0

These plans and associated documents are the exclusive property of TIMMONS GROUP and may not be reproduced, in whole or in part and shall not be used for any purpose whatsoever, inclusive, but not limited to construction, bidding, and/or construction staking without the express written consent of TIMMONS GROUP.

PRELIMINARY PLAT  
NOV 05, 2021  
NOT FOR RECORDATION  
OR CONVEYANCE



VICINITY MAP  
NO SCALE

THIS DRAWING PREPARED AT THE  
**ELIZABETH CITY OFFICE**  
1805 West City Drive, Unit E | Elizabeth City, NC 27909  
TEL 252.621.3030 FAX 252.622.0574 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

DATE  
11/10/2020  
DRAWN BY  
JHS/BCD  
DESIGNED BY  
JAM  
CHECKED BY  
JAM  
SCALE  
1" = 100'

**TIMMONS GROUP**  
NORTH CAROLINA LICENSE NO. C-1652

BOSWOOD ESTATES CONSTRUCTION DRAWINGS  
CRAWFORD TOWNSHIP - CURRITUCK COUNTY - NORTH CAROLINA  
PRELIMINARY PLAT & BUFFERING PLAN

JOB NO.  
44845  
SHEET NO.  
C2.0

**BUFFERING REQUIREMENTS**

**TYPE B, OPTION 1: 702 LF PROPOSED (25' WIDE)\***

CANOPY TREES: 8 ACI PER 100 LF = 56 ACI REQUIRED  
UNDERSTORY TREES: 10 ACI PER 100 LF = 70 ACI REQUIRED  
SHRUBS: 15 SHRUBS PER 100 LF = 105 SHRUBS REQUIRED

**TYPE B, OPTION 2: 1020 LF PROPOSED (10' WIDE)**

CANOPY TREES: 2 ACI PER 100 LF = 20 ACI REQUIRED  
UNDERSTORY TREES: 14 ACI PER 100 LF = 143 ACI REQUIRED  
SHRUBS: 20 SHRUBS PER 100 LF = 204 SHRUBS REQUIRED

**MAJOR ARTERIAL SCREENING: 645 LF (25' WIDE)**

CANOPY TREES: 6 ACI PER 100 LF = 39 ACI REQUIRED  
UNDERSTORY TREES: 3 ACI PER 100 LF = 19 ACI REQUIRED  
SHRUBS: 5 SHRUBS PER 100 LF = 32 SHRUBS REQUIRED

**AGRICULTURAL BUFFER: 472 LF (50' WIDE)**

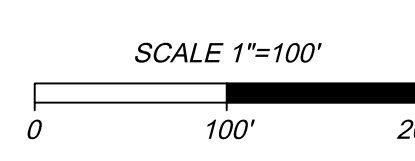
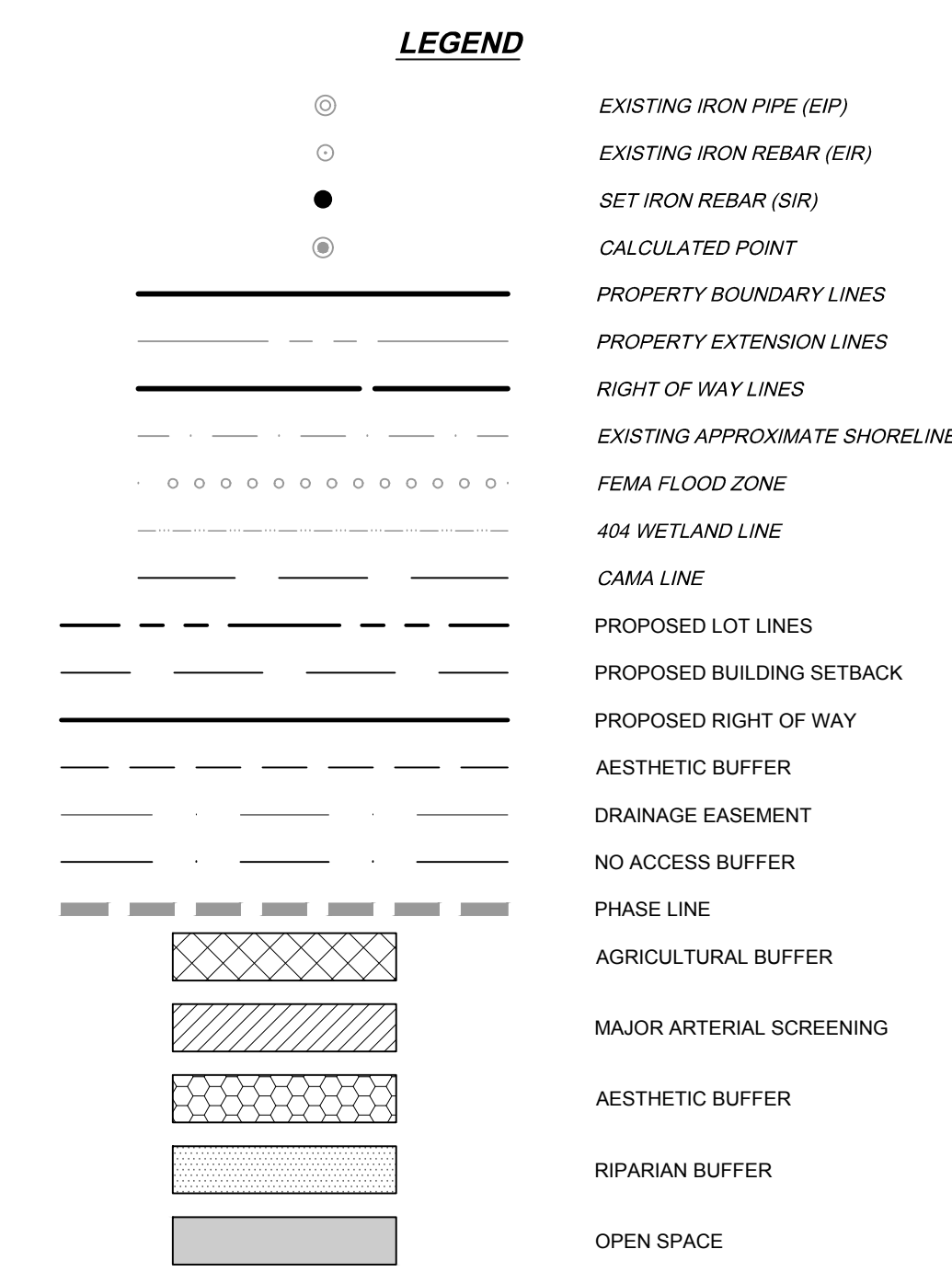
14 TREES (HARDWOOD/EVERGREEN MIX) PER 100 LF = 19 TREES REQUIRED

ACI = AGGREGATE CALIPER INCHES

\*AREA OF PROPOSED TYPE B, OPTION 1 BUFFER IS LOCATED IN WETLANDS.

NOTE: ACTUAL LANDSCAPE MATERIALS TO BE USED SHALL BE SUBMITTED TO PLANNING FOR APPROVAL PRIOR TO INSTALLATION.

\*\*SEE SHEET C2.1 FOR ADDITIONAL LANDSCAPE BUFFER INFORMATION.

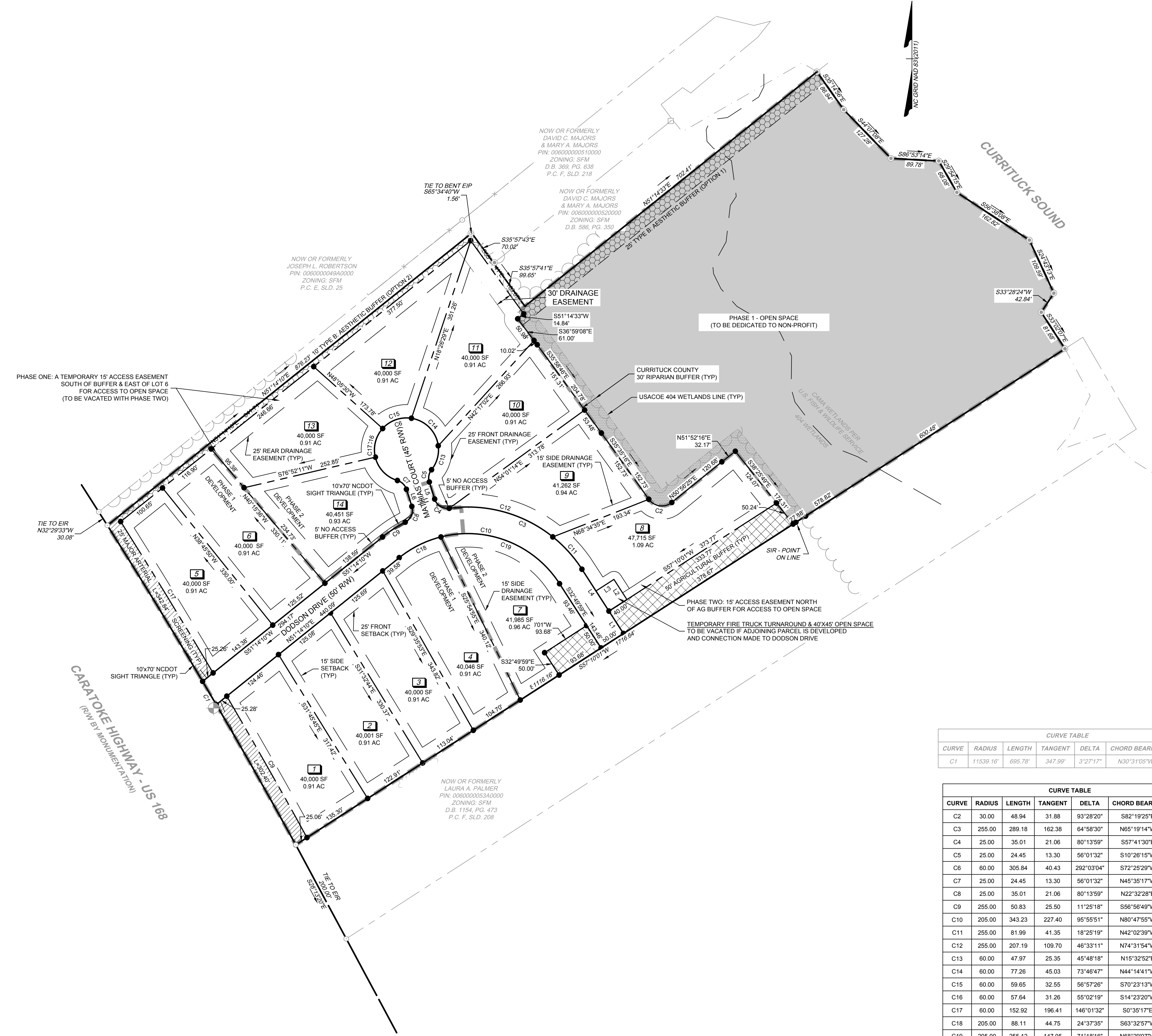


CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
C1	11539.16'	695.78'	347.99'	3°27'17"	N00°3'10'S°W	695.67'

CURVE TABLE

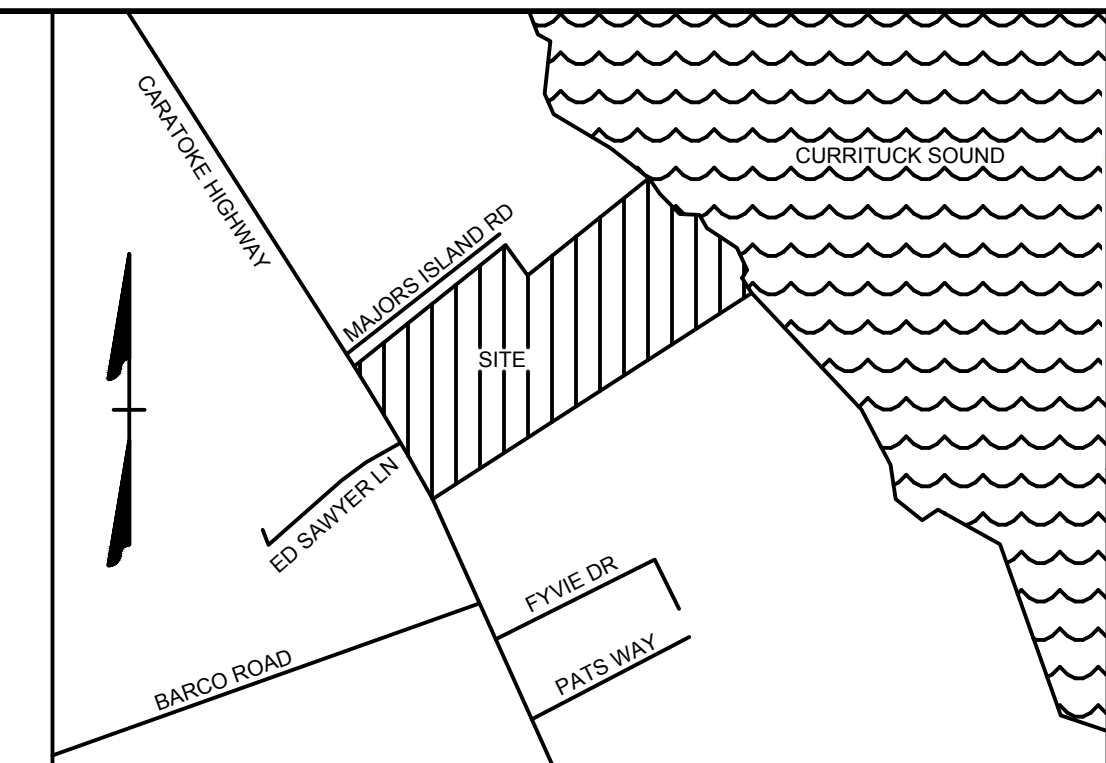
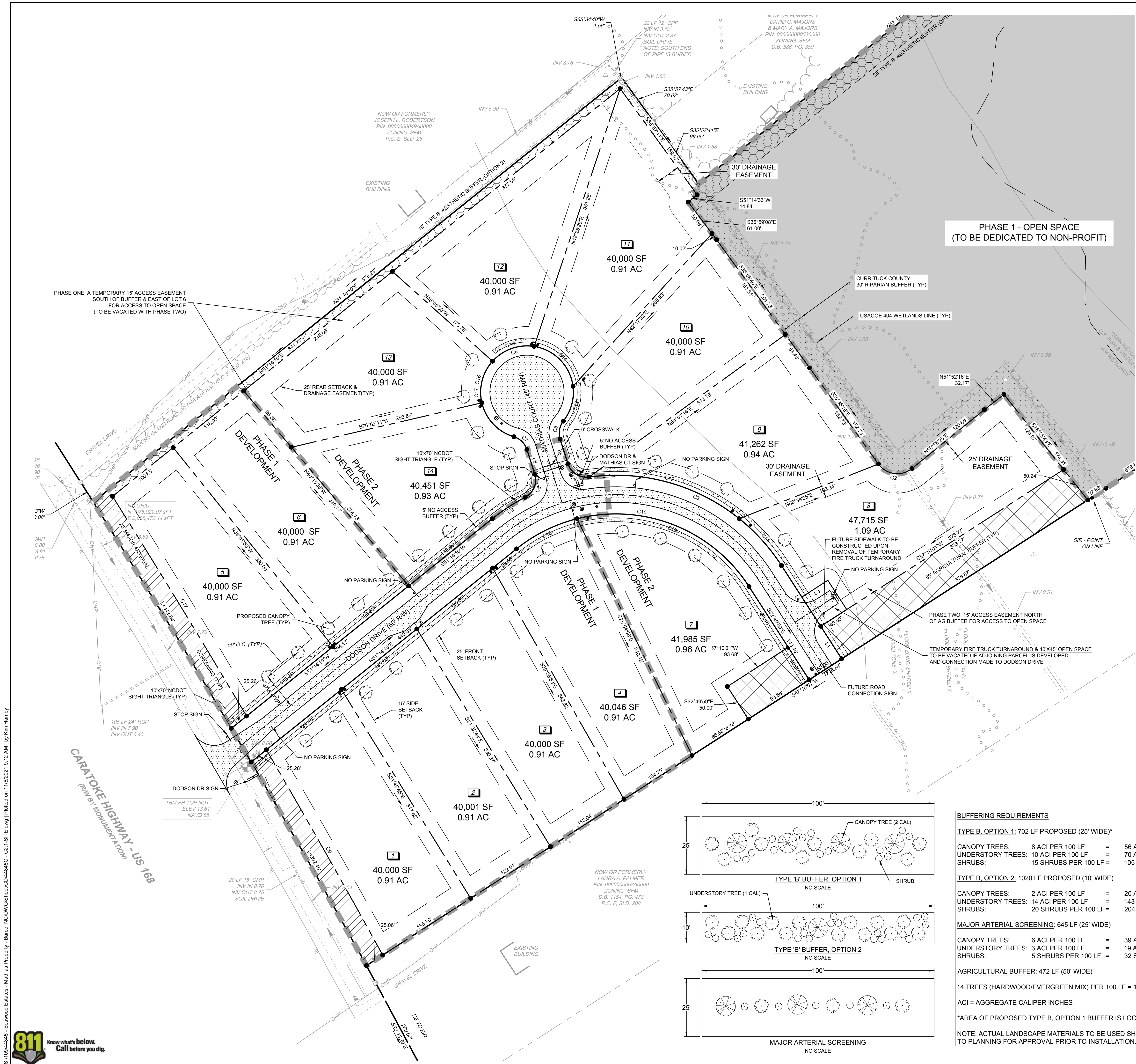
CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
C2	30.00	48.94	31.88	93°28'20"	S82°19'25"E	43.69
C3	255.00	289.18	162.38	64°58'30"	N65°19'14"W	273.93
C4	25.00	35.01	21.06	80°13'59"	S57°41'30"E	32.22
C5	25.00	24.45	13.30	56°01'32"	S10°26'15"W	23.48
C6	60.00	305.84	40.43	292°03'04"	S72°25'29"W	67.06
C7	25.00	24.45	13.30	56°01'32"	N45°35'17"W	23.48
C8	25.00	35.01	21.06	80°13'59"	N22°32'28"E	32.22
C9	255.00	50.83	25.50	11°25'18"	S56°56'49"W	50.75
C10	205.00	343.23	227.40	95°55'51"	N80°47'55"W	304.52
C11	255.00	81.99	41.35	18°25'19"	N42°02'39"W	81.64
C12	255.00	207.19	109.70	46°33'11"	N74°31'54"W	201.54
C13	60.00	47.97	25.35	45°48'18"	N15°32'52"E	46.70
C14	60.00	77.26	45.03	73°46'47"	N44°14'41"W	72.03
C15	60.00	59.65	32.55	56°57'26"	S70°23'13"W	57.22
C16	60.00	57.64	31.26	55°02'19"	S14°23'20"W	55.45
C17	60.00	152.92	196.41	146°01'32"	S0°35'17"E	114.76
C18	205.00	88.11	44.75	24°37'35"	S63°32'57"W	87.43
C19	205.00	255.12	147.05	71°18'16"	N68°29'07"W	238.97



S:\10944845 - Boswood Estates - Mathias Property - Barco, NC\DWG\Sheet\C2.0.dwg | Plotted on 11/05/2021 9:11 AM | by Kim Hanmy



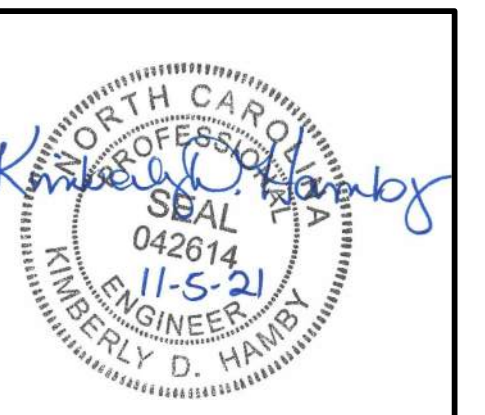
These plans and associated documents are the exclusive property of TIMMONS GROUP and may not be reproduced in whole or in part and shall not be used for any purpose whatsoever, inclusive, but not limited to construction, bidding, and/or construction staking without the express written consent of TIMMONS GROUP.



**VICINITY MAP**  
NO SCALE

**LEGEND**

	BENCHMARK
	EXISTING IRON PIPE (EIP)
	EXISTING IRON REBAR (EIR)
	SET IRON REBAR (SIR)
	CALCULATED POINT
	EXISTING FIRE HYDRANT
	EXISTING WATER VALVE
	EXISTING WATER METER
	EXISTING SIGN / MARKER
	EXISTING UTILITY POLE
	EXISTING GUY WIRE
	EXISTING TELEPHONE PEDESTAL
	EXISTING MAILBOX
	EXISTING BOLLARD
	PROPOSED WATER METER
	PROPOSED WATER VALVES
	PROPOSED FIRE HYDRANT
	PROPERTY BOUNDARY LINES
	PROPERTY EXTENSION LINES
	RIGHT OF WAY LINES
	EXISTING EDGE OF PAVEMENT
	EXISTING CENTER OF DITCH
	EXISTING TOP OF BANK
	EXISTING STORM PIPE
	EXISTING APPROXIMATE SHORELINE
	EXISTING FENCE
	FEMA FLOOD ZONE
	404 WETLAND LINE
	SOILS LINE
	CANA LINE
	SHRUB LINE
	TREE LINE
	PROPOSED LOT LINES
	PROPOSED BUILDING SETBACK
	PROPOSED RIGHT OF WAY
	ROAD CENTERLINE
	AESTHETIC BUFFER
	DRAINAGE EASEMENT
	NO ACCESS BUFFER
	PHASE LINE
	AGRICULTURAL BUFFER
	MAJOR ARTERIAL SCREENING
	AESTHETIC BUFFER
	RIPARIAN BUFFER
	PROPOSED CANOPY TREE
	PROPOSED CONCRETE
	PROPOSED ASPHALT
	OPEN SPACE



THIS DRAWING PREPARED AT THE  
**ELIZABETH CITY OFFICE**  
 1805 West City Drive, Unit E | Elizabeth City, NC 27909  
 TEL 252.621.3030 FAX 252.392.0574 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

DATE	REVISIONS	DESCRIPTION
11/05/2021	1	REVISIONS PER TRC COMMENTS

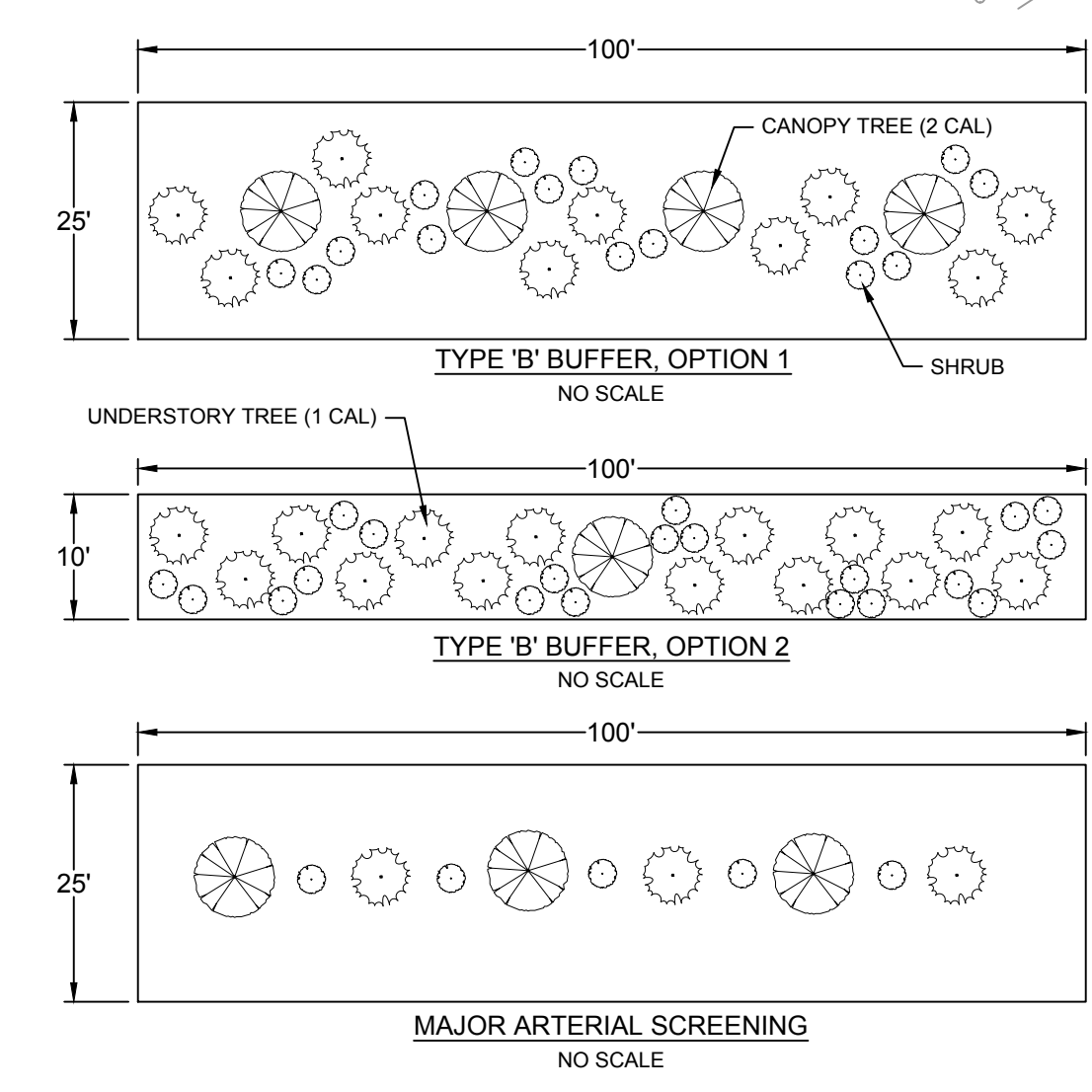
DATE	11/10/2020
DRAWN BY	BCD
DESIGNED BY	KDH
CHECKED BY	KDH
SCALE	1" = 60'

**TIMMONS GROUP**  
 NORTH CAROLINA LICENSE NO. C-1652

**BOSWOOD ESTATES CONSTRUCTION DRAWINGS**  
 CRAWFORD TOWNSHIP - CURRITUCK COUNTY - NORTH CAROLINA

**SITE PLAN**

JOB NO. 44845  
 SHEET NO. C2.1



**BUFFERING REQUIREMENTS**

**TYPE B, OPTION 1: 702 LF PROPOSED (25' WIDE)\***

CANOPY TREES:	8 ACI PER 100 LF	=	56 ACI REQUIRED
UNDERSTORY TREES:	10 ACI PER 100 LF	=	70 ACI REQUIRED
SHRUBS:	15 SHRUBS PER 100 LF	=	105 SHRUBS REQUIRED

**TYPE B, OPTION 2: 1020 LF PROPOSED (10' WIDE)**

CANOPY TREES:	2 ACI PER 100 LF	=	20 ACI REQUIRED
UNDERSTORY TREES:	14 ACI PER 100 LF	=	143 ACI REQUIRED
SHRUBS:	20 SHRUBS PER 100 LF	=	204 SHRUBS REQUIRED

**MAJOR ARTERIAL SCREENING: 645 LF (25' WIDE)**

CANOPY TREES:	6 ACI PER 100 LF	=	39 ACI REQUIRED
UNDERSTORY TREES:	3 ACI PER 100 LF	=	19 ACI REQUIRED
SHRUBS:	5 SHRUBS PER 100 LF	=	32 SHRUBS REQUIRED

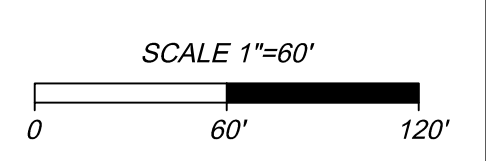
**AGRICULTURAL BUFFER: 472 LF (50' WIDE)**

14 TREES (HARDWOOD/EVERGREEN MIX) PER 100 LF = 19 TREES REQUIRED

ACI = AGGREGATE CALIPER INCHES

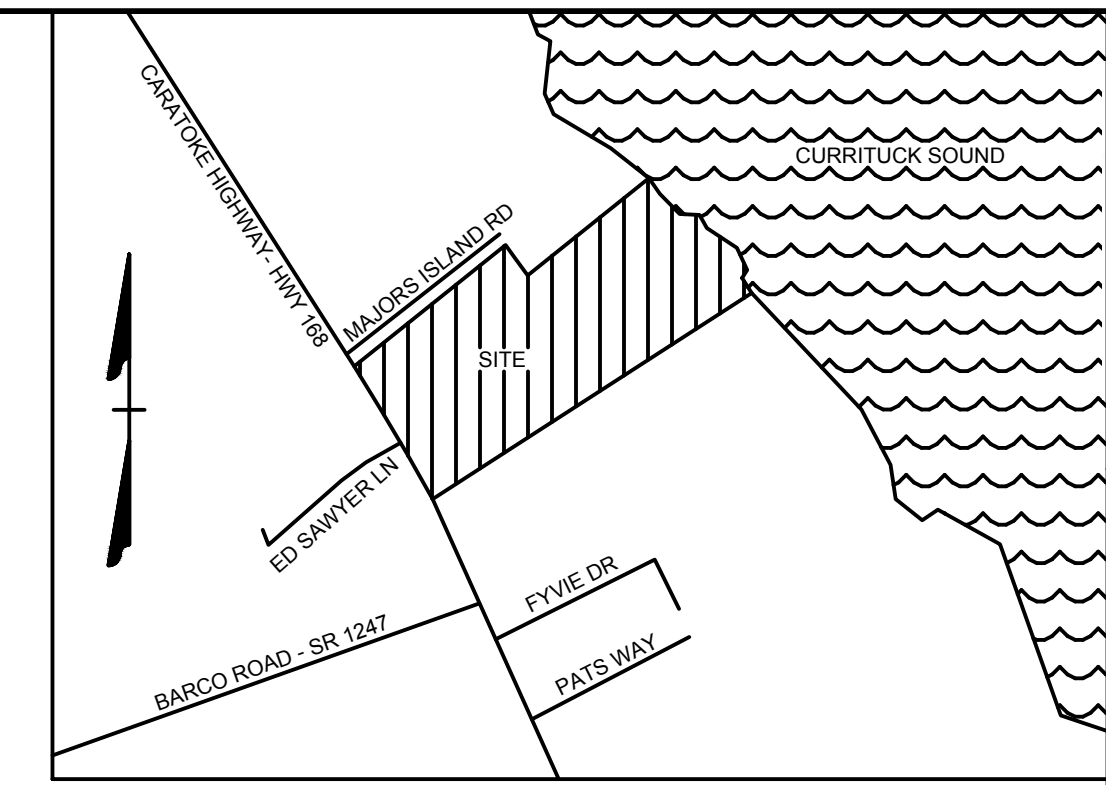
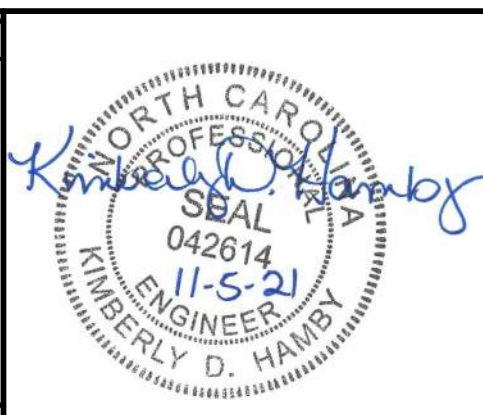
\*AREA OF PROPOSED TYPE B, OPTION 1 BUFFER IS LOCATED IN WETLANDS.

NOTE: ACTUAL LANDSCAPE MATERIALS TO BE USED SHALL BE SUBMITTED TO PLANNING FOR APPROVAL PRIOR TO INSTALLATION.



S:\10944445 - Boswood Estates - Mathias Property - Barco, NC\DWG\Sheet\C2.dwg | Plotted on 11/05/2021 9:12 AM | by Kim Hamby

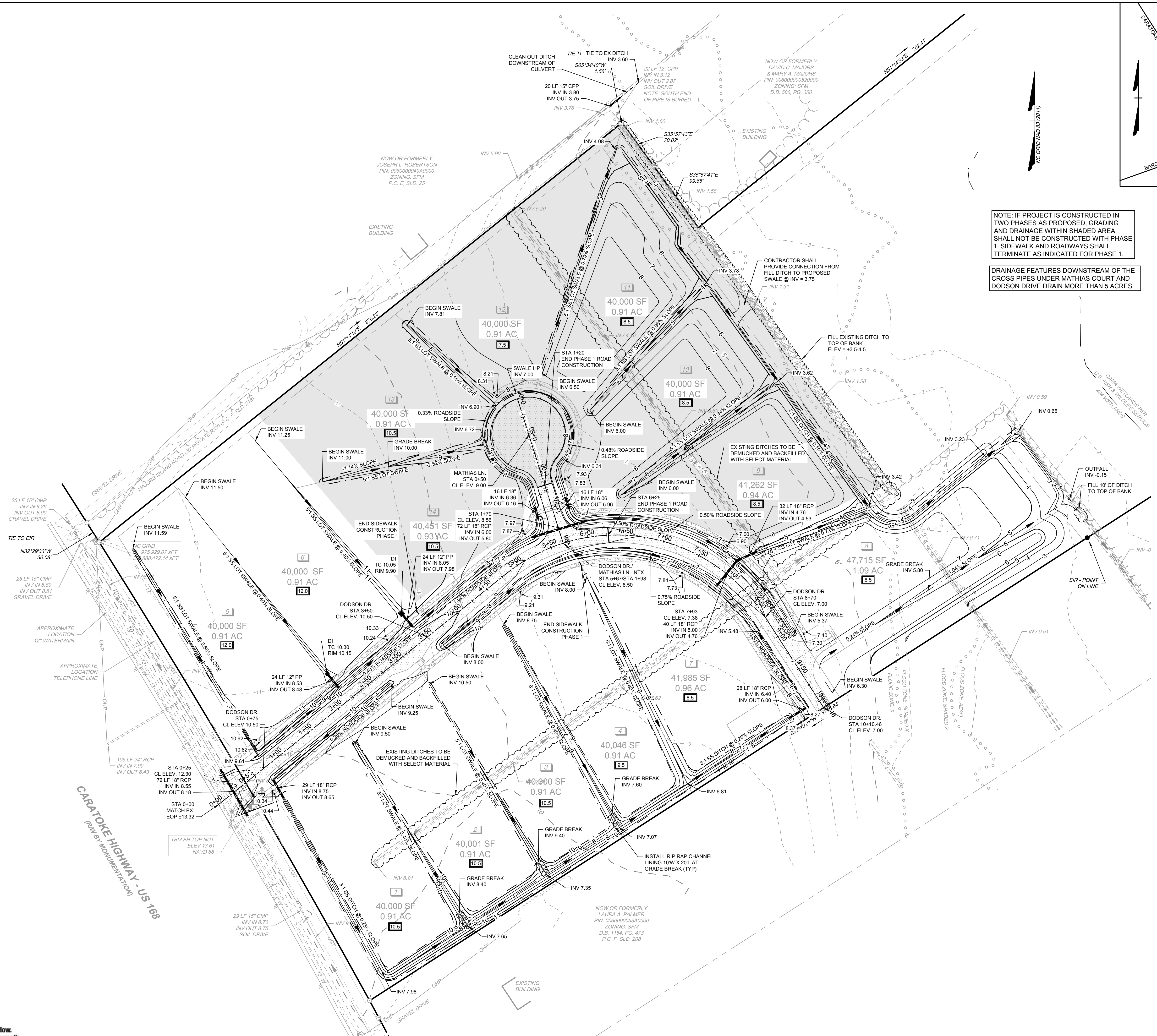




VICINITY MAP  
NO SCALE

NOTE: IF PROJECT IS CONSTRUCTED IN TWO PHASES AS PROPOSED, GRADING AND DRAINAGE WITHIN SHADED AREA SHALL NOT BE CONSTRUCTED WITH PHASE 1. SIDEWALK AND ROADWAYS SHALL TERMINATE AS INDICATED FOR PHASE 1.

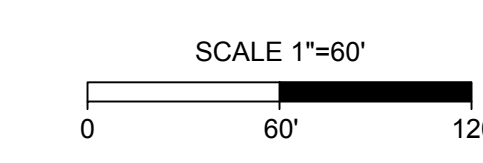
DRAINAGE FEATURES DOWNSTREAM OF THE CROSS PIPES UNDER MATHIAS COURT AND DODSON DRIVE DRAIN MORE THAN 5 ACRES.



LEGEND

- BENCHMARK
- EXISTING IRON PIPE (EIP)
- EXISTING IRON REBAR (EIR)
- SET IRON REBAR (SIR)
- CALCULATED POINT
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING SIGN / MARKER
- EXISTING UTILITY POLE
- EXISTING GUY WIRE
- EXISTING TELEPHONE PEDESTAL
- EXISTING MAILBOX
- EXISTING BOLLARD
- PROPERTY BOUNDARY LINES
- PROPERTY EXTENSION LINES
- RIGHT OF WAY LINES
- EXISTING EDGE OF PAVEMENT
- EXISTING TELEPHONE LINE
- EXISTING WATERLINE
- EXISTING OVERHEAD POWER
- EXISTING CENTER OF DITCH
- EXISTING TOP OF BANK
- EXISTING STORM PIPE
- EXISTING APPROXIMATE SHORELINE
- EXISTING FENCE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- FEMA FLOOD ZONE
- 404 WETLAND LINE
- CAMA LINE
- TREE LINE
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED TOP OF BANK LINE
- PROPOSED DITCH CENTER LINE
- PROPOSED STORM PIPE
- BUILDING PAD ELEVATION
- PHASE 2 DRAINAGE WORK

NOTE: FINISHED FLOOR ELEVATIONS OF HOMES SHALL BE 18" MINIMUM ABOVE BUILDING PAD ELEVATION. SEE DETAIL SHEET C5.0



THIS DRAWING PREPARED AT THE  
**ELIZABETH CITY OFFICE**  
1805 West City Drive, Unit E | Elizabeth City, NC 27909  
TEL 252.621.3030 FAX 252.392.0974 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

DATE	REVISIONS PER TRC COMMENTS
11/02/2021	
11/10/2020	

DESIGNED BY	BCD
CHECKED BY	KDH
SCALE	1" = 60'

# TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

## BOSWOOD ESTATES CONSTRUCTION DRAWINGS

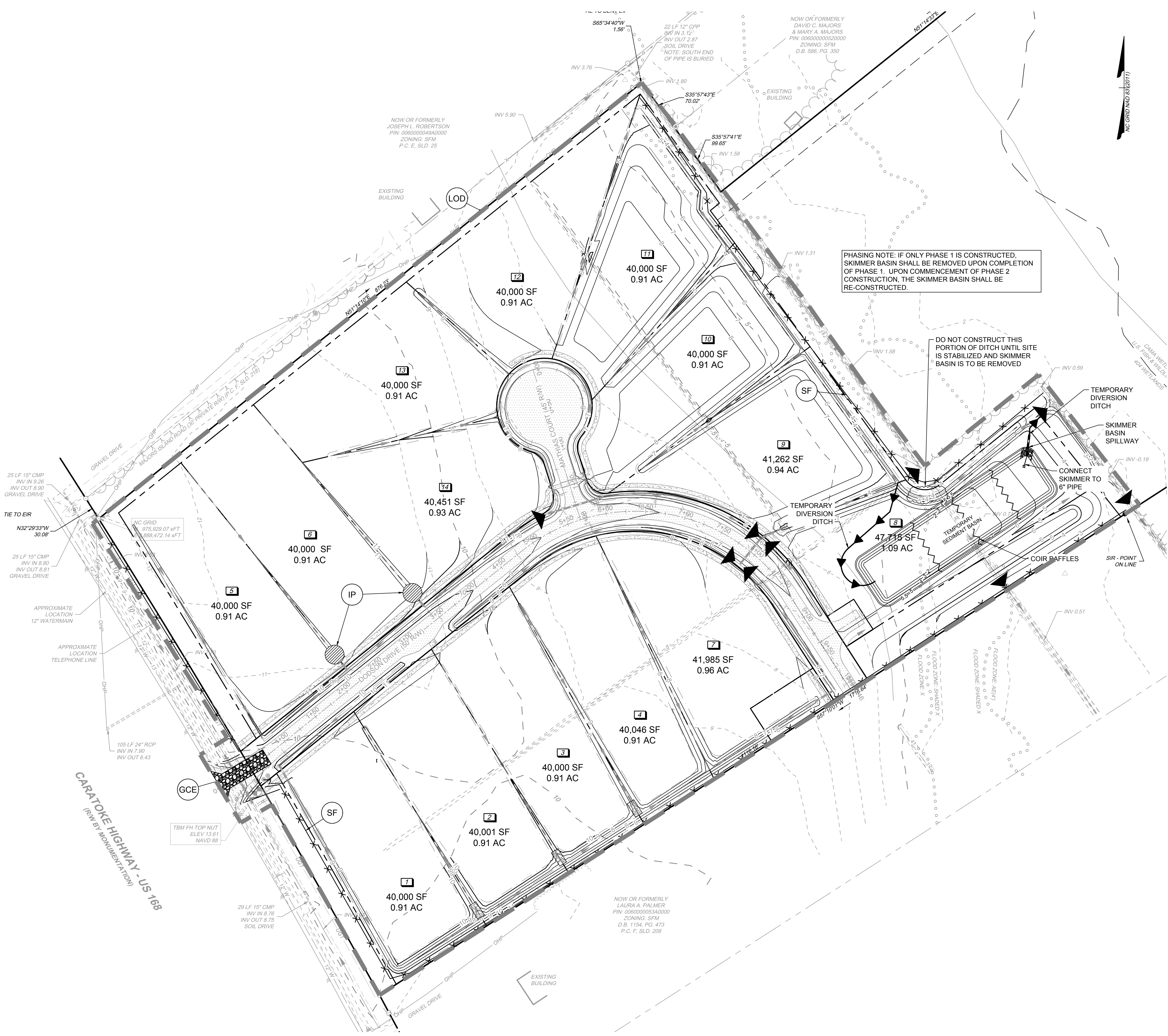
CRAWFORD TOWNSHIP - CURRITUCK COUNTY - NORTH CAROLINA

### GRADING & DRAINAGE PLAN

JOB NO.	44845
SHEET NO.	C3.0

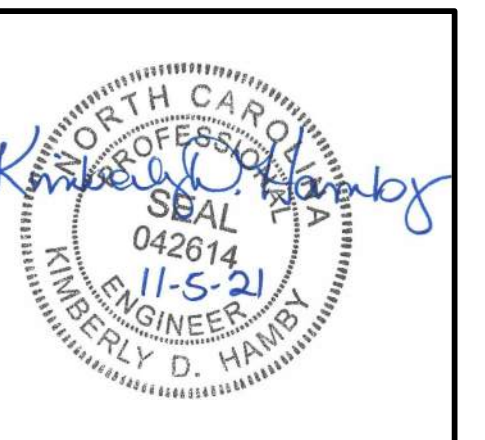
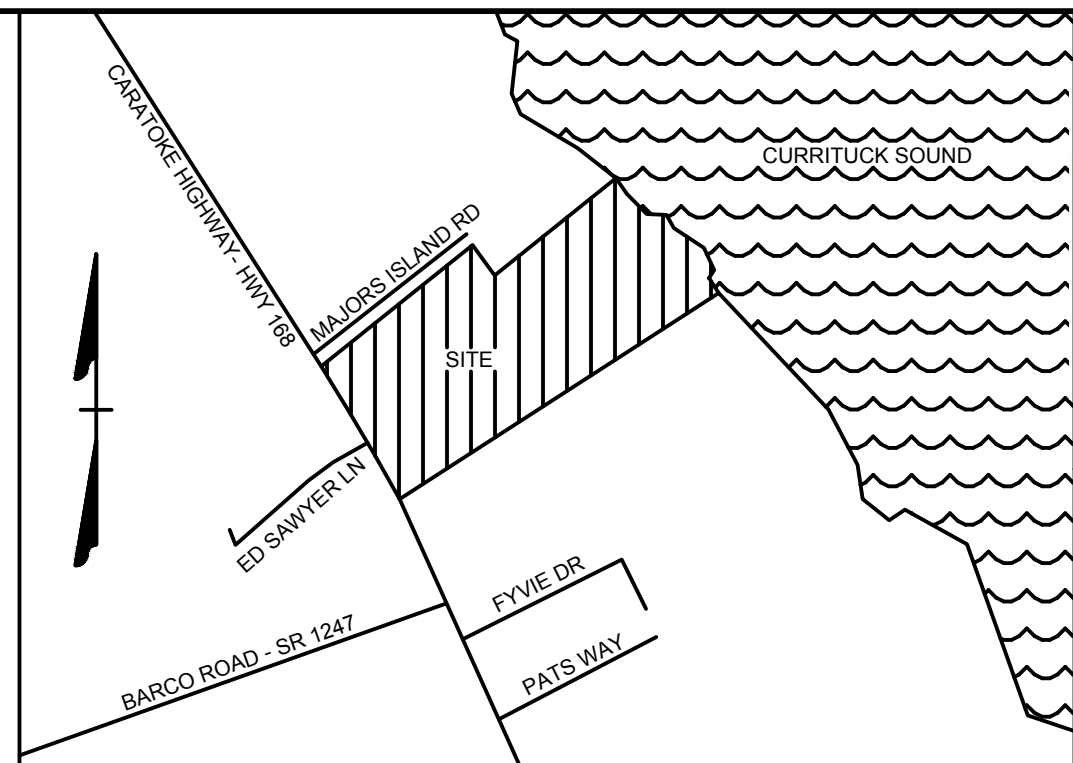
These plans and associated documents are the exclusive property of TIMMONS GROUP and may not be reproduced in whole or in part and shall not be used for any purpose whatsoever, inclusive, but not limited to construction, bidding, and/or construction staking without the express written consent of TIMMONS GROUP.





**LEGEND**

(LOD)		LIMIT OF DISTURBANCE
(GCE)		TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
(SF)		SILT FENCE
		STONE CHECK DAM
		RIP RAP
(IP)		INLET PROTECTION
		COIR BAFFLES
		DIVERSION DITCH



THIS DRAWING PREPARED AT THE  
**ELIZABETH CITY OFFICE**  
1805 West City Drive, Unit E | Elizabeth City, NC 27909  
TEL 252.621.3030 FAX 252.621.0974 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

DATE	REVISIONS PER TRC COMMENTS
11/05/2021	

DATE	11/10/2020
DESIGNED BY	BCD
CHECKED BY	KDH
SCALE	1" = 60'

**TIMMONS GROUP**  
NORTH CAROLINA LICENSE NO. C-1652

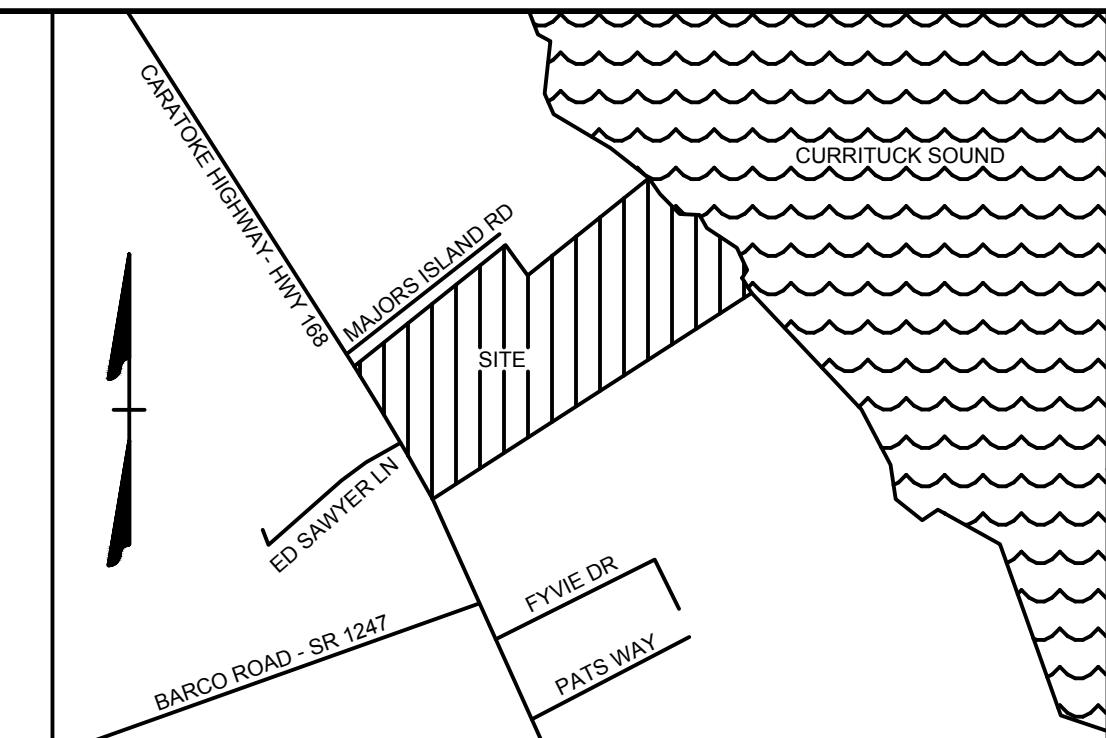
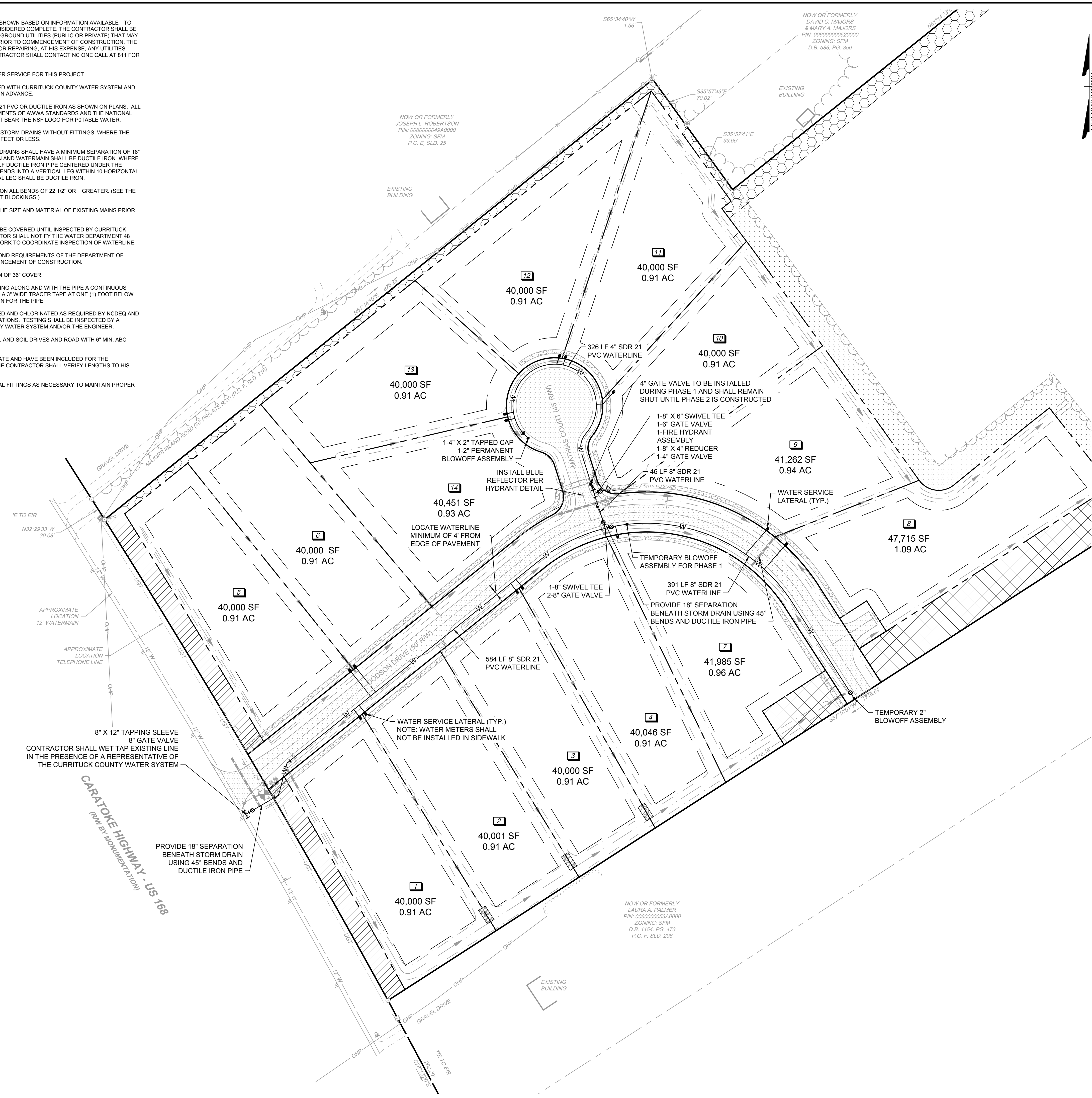
**BOSWOOD ESTATES CONSTRUCTION DRAWINGS**  
CRAWFORD TOWNSHIP - CURRITUCK COUNTY - NORTH CAROLINA

**EROSION & SEDIMENTATION CONTROL PLAN**

JOB NO.	44845
SHEET NO.	C3.1

These plans and associated documents are the exclusive property of TIMMONS GROUP and may not be reproduced in whole or in part and shall not be used for any purpose whatsoever, inclusive, but not limited to construction, bidding, and/or construction staking without the express written consent of TIMMONS GROUP.

- WATERMAIN NOTES:**
- EXISTING UNDERGROUND UTILITIES ARE SHOWN BASED ON INFORMATION AVAILABLE TO THE ENGINEER AND SHOULD NOT BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES (PUBLIC OR PRIVATE) THAT MAY EXIST IN THE AREA OF CONSTRUCTION PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT HIS EXPENSE, ANY UTILITIES DAMAGED DURING CONSTRUCTION. CONTRACTOR SHALL CONTACT NC ONE CALL AT 811 FOR UTILITY LOCATION.
  - CURRITUCK COUNTY WILL PROVIDE WATER SERVICE FOR THIS PROJECT.
  - ALL INSPECTIONS SHALL BE COORDINATED WITH CURRITUCK COUNTY WATER SYSTEM AND THE ENGINEER A MINIMUM OF 48 HOURS IN ADVANCE.
  - ALL WATERMAINS SHALL BE EITHER SDR 21 PVC OR DUCTILE IRON AS SHOWN ON PLANS. ALL PIPE SHALL COMPLY WITH THE REQUIREMENTS OF ANWA STANDARDS AND THE NATIONAL SANITATION FOUNDATION. ALL PIPE MUST BEAR THE NSF LOGO FOR POTABLE WATER.
  - WATERMAINS MAY BE INSTALLED UNDER STORM DRAINS WITHOUT FITTINGS, WHERE THE CHANGE IN VERTICAL ELEVATION IS TWO FEET OR LESS.
  - WATERMAINS INSTALLED UNDER STORM DRAINS SHALL HAVE A MINIMUM SEPARATION OF 18" BETWEEN WATERMAIN AND STORM DRAIN AND WATERMAIN SHALL BE DUCTILE IRON. WHERE PRACTICAL, INSTALL A FULL JOINT OF 20 LF DUCTILE IRON PIPE CENTERED UNDER THE STORM DRAIN. WHERE THE WATERLINE BENDS INTO A VERTICAL LEG WITHIN 10 HORIZONTAL FEET OF THE STORM DRAIN, THE VERTICAL LEG SHALL BE DUCTILE IRON.
  - THRUST BLOCKING SHALL BE INSTALLED ON ALL BENDS OF 22 1/2" OR GREATER. (SEE THE SPECIFICATIONS AND DETAILS ON THRUST BLOCKINGS.)
  - THE CONTRACTOR SHALL FIELD VERIFY THE SIZE AND MATERIAL OF EXISTING MAINS PRIOR TO ORDERING MATERIALS.
  - DURING CONSTRUCTION, NO PIPE SHALL BE COVERED UNTIL INSPECTED BY CURRITUCK COUNTY WATER SYSTEM. THE CONTRACTOR SHALL NOTIFY THE WATER DEPARTMENT 48 HOURS PRIOR TO COMMENCEMENT OF WORK TO COORDINATE INSPECTION OF WATERLINE.
  - THE CONTRACTOR SHALL SATISFY ALL BOND REQUIREMENTS OF THE DEPARTMENT OF TRANSPORTATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
  - ALL WATERMAINS SHALL HAVE A MINIMUM OF 36" COVER.
  - ALL PIPES AND SERVICES TO HAVE RUNNING ALONG AND WITH THE PIPE A CONTINUOUS LENGTH OF #12 SOLID COPPER WIRE AND A 3" WIDE TRACER TAPE AT ONE (1) FOOT BELOW THE FINISHED GRADE OF THE EXCAVATION FOR THE PIPE.
  - WATERLINES SHALL BE PRESSURE TESTED AND CHLORINATED AS REQUIRED BY NCDEQ AND AS DETAILED IN THE COUNTY'S SPECIFICATIONS. TESTING SHALL BE INSPECTED BY A REPRESENTATIVE OF CURRITUCK COUNTY WATER SYSTEM AND/OR THE ENGINEER.
  - CONTRACTOR SHALL REPAIR ALL GRAVEL AND SOIL DRIVES AND ROAD WITH 6" MIN. ABC STONE.
  - LENGTHS OF WATERLINE ARE APPROXIMATE AND HAVE BEEN INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY LENGTHS TO HIS SATISFACTION.
  - CONTRACTOR SHALL PROVIDE ADDITIONAL FITTINGS AS NECESSARY TO MAINTAIN PROPER ALIGNMENT AND COVER.

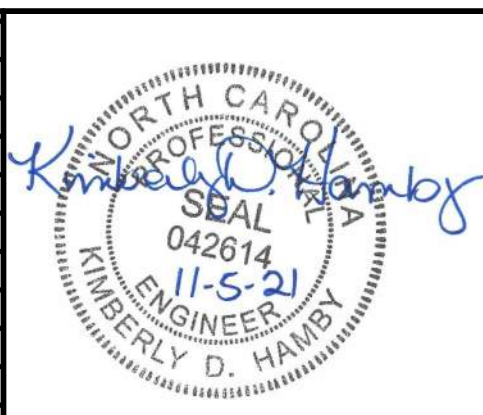


**VICINITY MAP**  
NO SCALE

**LEGEND**

	BENCHMARK
	EXISTING IRON PIPE (EIP)
	EXISTING IRON REBAR (EIR)
	SET IRON REBAR (SIR)
	CALCULATED POINT
	EXISTING FIRE HYDRANT
	EXISTING WATER VALVE
	EXISTING WATER METER
	EXISTING SIGN/MARKER
	EXISTING UTILITY POLE
	EXISTING GUY WIRE
	EXISTING TELEPHONE PEDESTAL
	EXISTING MAILBOX
	EXISTING BOLLARD
	WATER METER
	WATER VALVE
	PROPOSED FIRE HYDRANT
	PROPERTY BOUNDARY LINES
	PROPERTY EXTENSION LINES
	RIGHT OF WAY LINES
	EXISTING EDGE OF PAVEMENT
	EXISTING TELEPHONE LINE
	EXISTING WATERLINE
	EXISTING OVERHEAD POWER
	EXISTING CENTER OF DITCH
	EXISTING TOP OF BANK
	EXISTING STORM PIPE
	EXISTING APPROXIMATE SHORELINE
	EXISTING FENCE
	FEMA FLOOD ZONE
	404 WETLAND LINE
	SOILS LINE
	CAMA LINE
	SHRUB LINE
	TREE LINE
	PROPOSED LOT LINES
	PROPOSED BUILDING SETBACK
	PROPOSED RIGHT OF WAY
	ROAD CENTERLINE
	AESTHETIC BUFFER
	DRAINAGE EASEMENT
	NO ACCESS BUFFER
	PHASE LINE
	PROPOSED TOP OF BANK LINE
	PROPOSED DITCH CENTERLINE
	PROPOSED STORM PIPE
	PROPOSED WATERMAIN
	AGRICULTURAL BUFFER
	MAJOR ARTERIAL SCREENING
	AESTHETIC BUFFER
	RIPARIAN BUFFER
	PROPOSED CANOPY TREE
	PROPOSED CONCRETE
	PROPOSED ASPHALT

SCALE 1" = 60'  
0 60' 120'



THIS DRAWING PREPARED AT THE  
**ELIZABETH CITY OFFICE**  
1805 West City Drive, Unit E | Elizabeth City, NC 27909  
TEL 252.621.3030 FAX 252.621.0974 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

DATE	REVISIONS PER TRC COMMENTS
11/09/2021	

DATE	11/10/2020
DRAWN BY	BCD
DESIGNED BY	KDH
CHECKED BY	KDH
SCALE	1" = 60'

**TIMMONS GROUP**  
NORTH CAROLINA LICENSE NO. C-1652

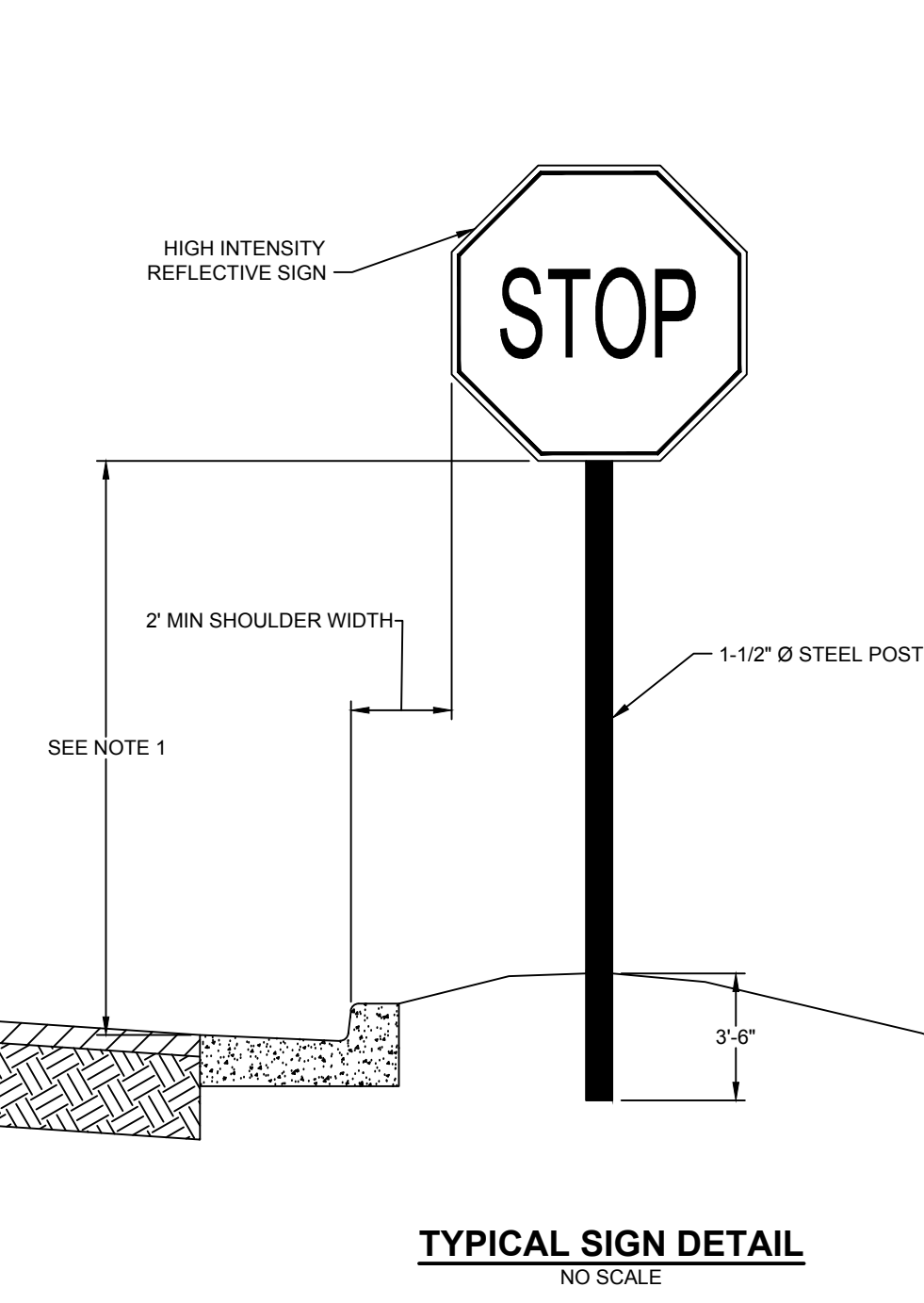
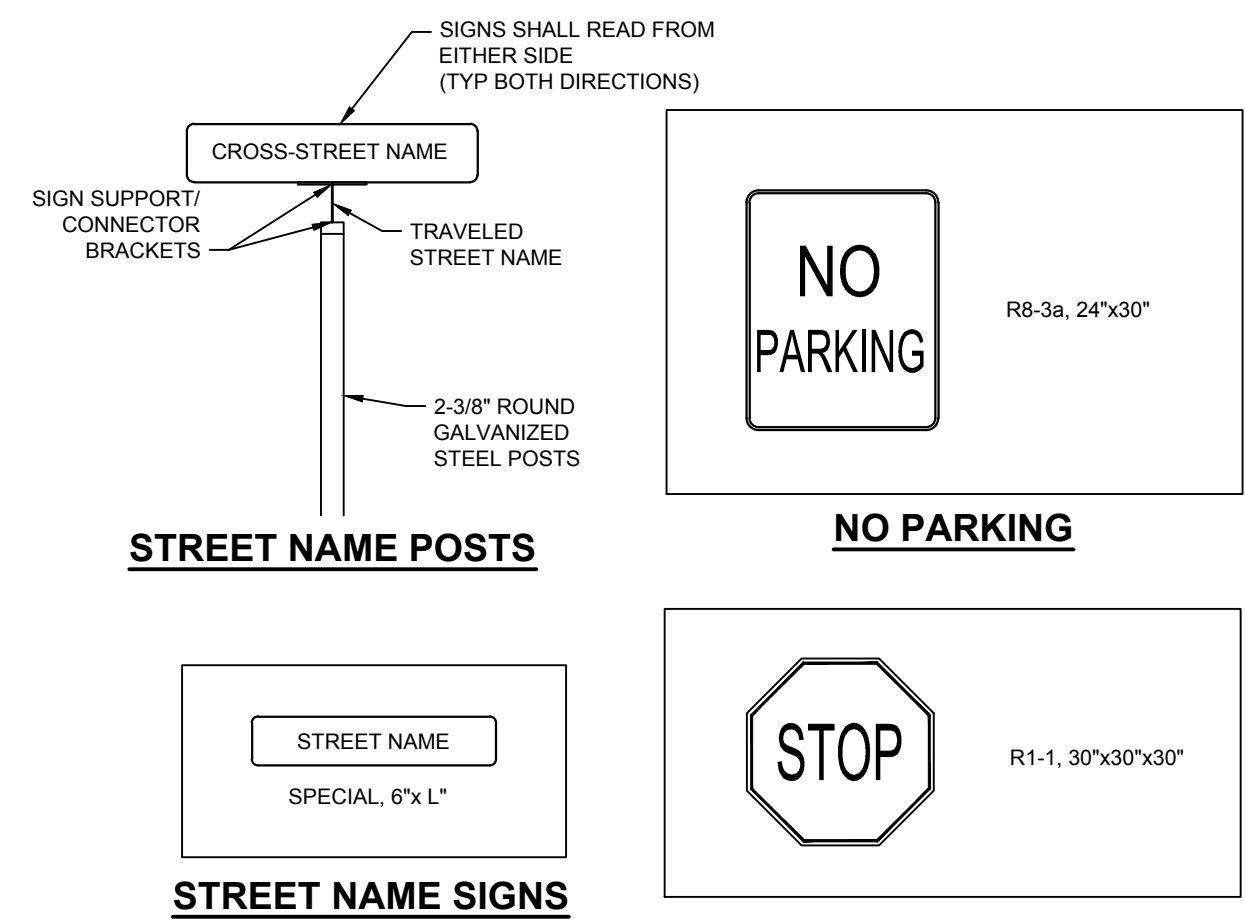
**BOSWOOD ESTATES CONSTRUCTION DRAWINGS**  
CRAWFORD TOWNSHIP - CURRITUCK COUNTY - NORTH CAROLINA

**UTILITY PLAN**

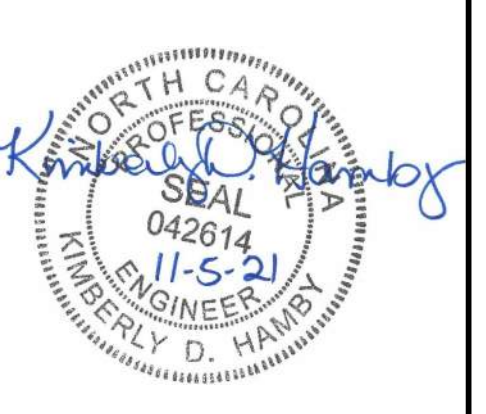
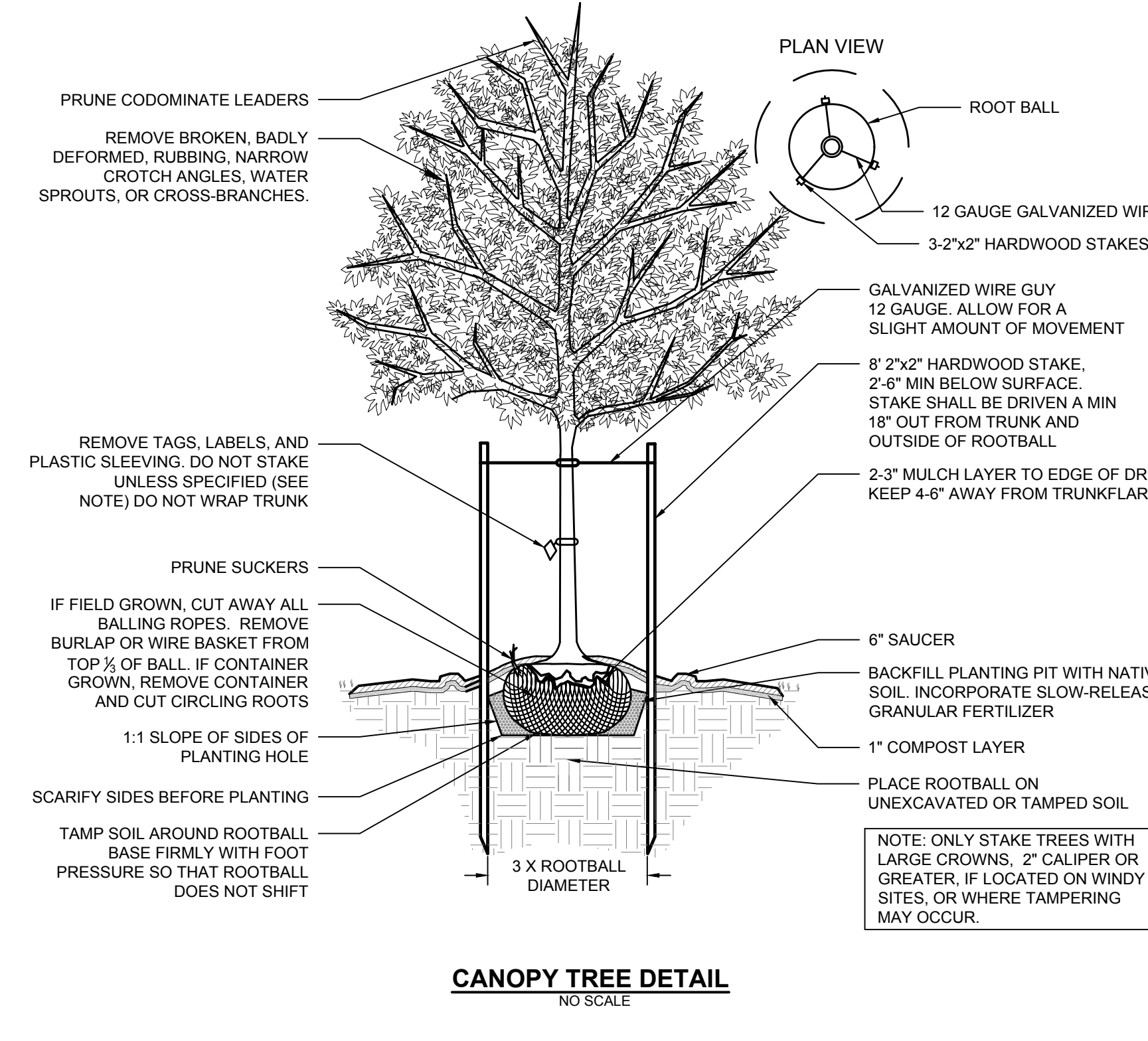
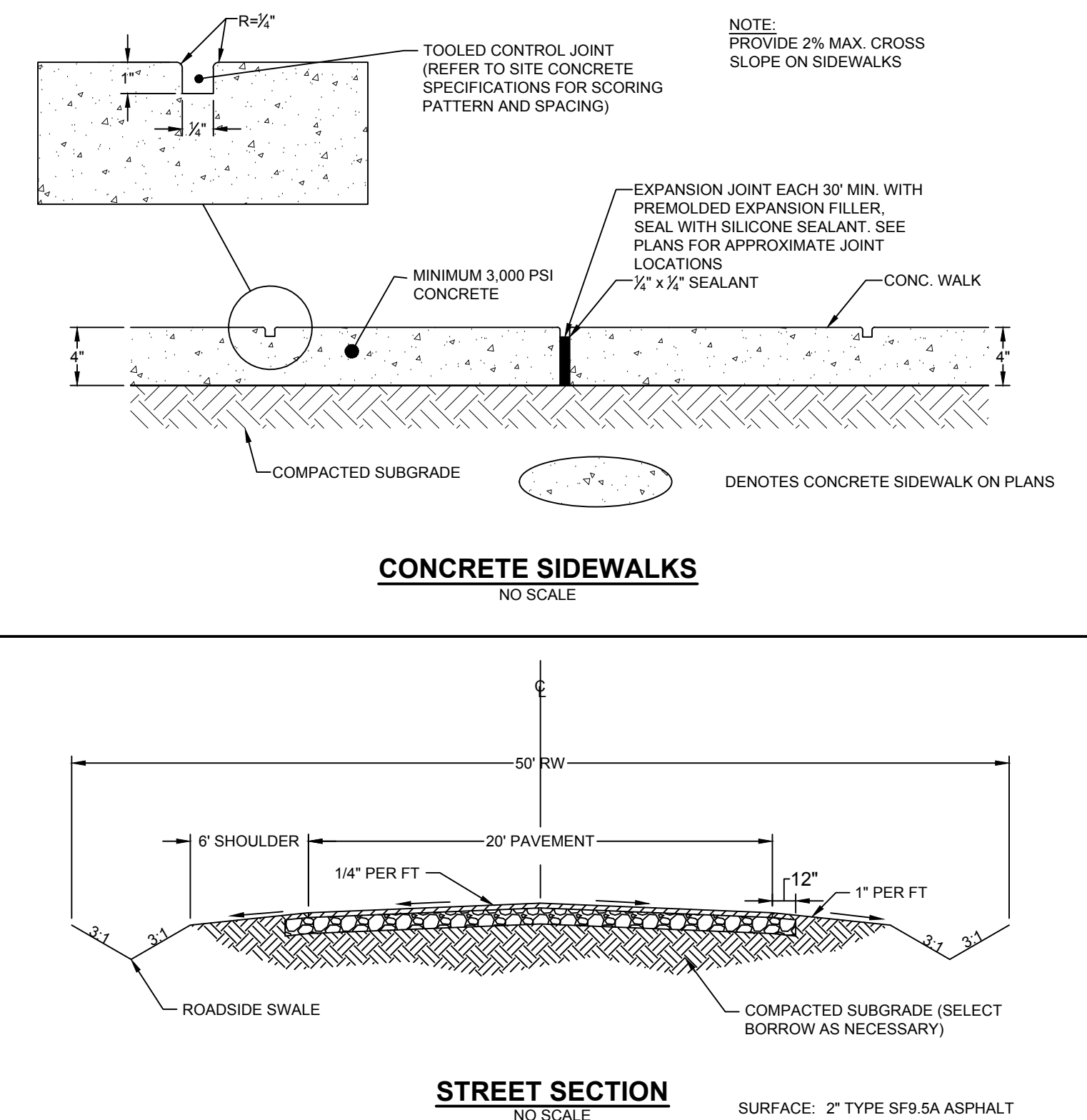
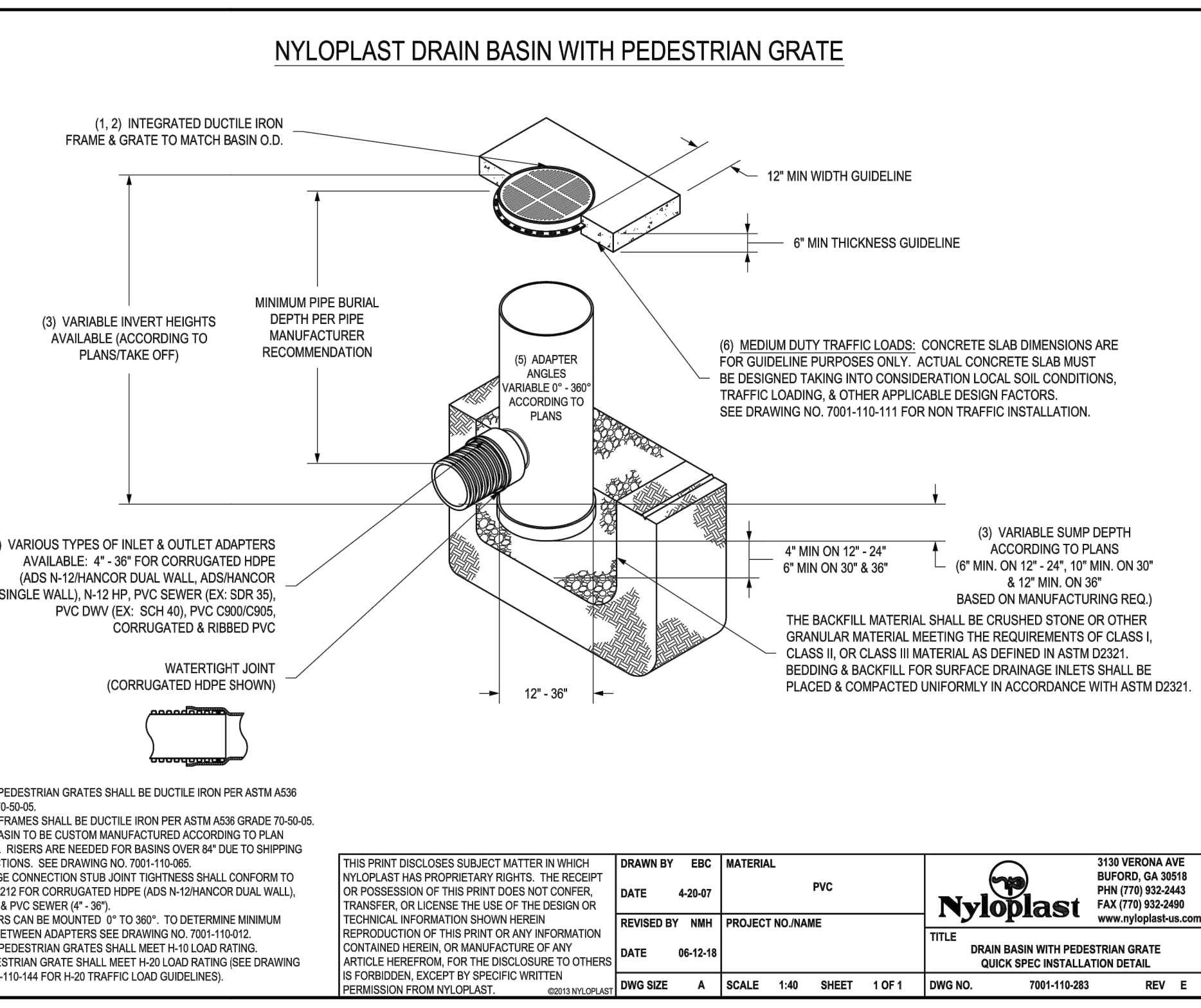
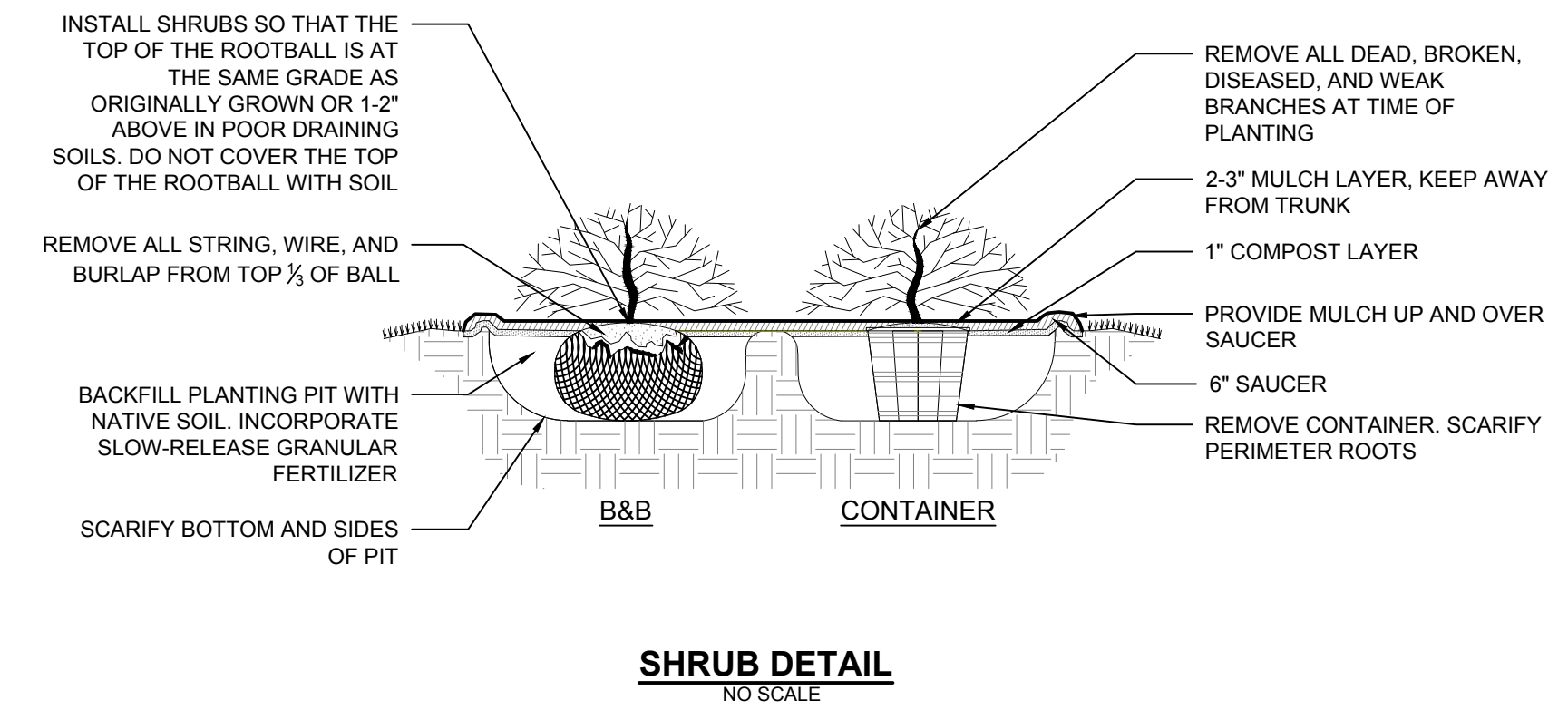
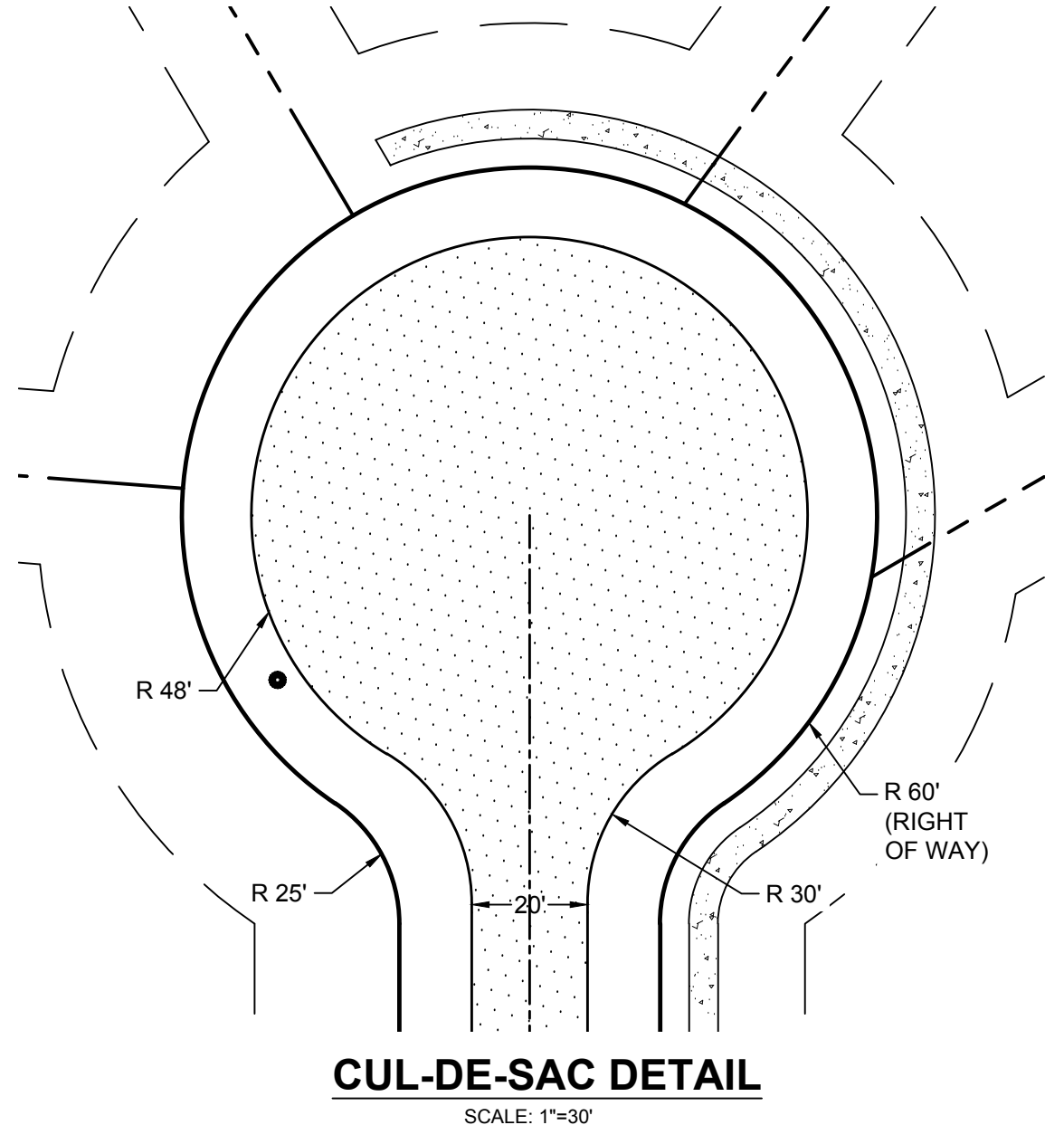
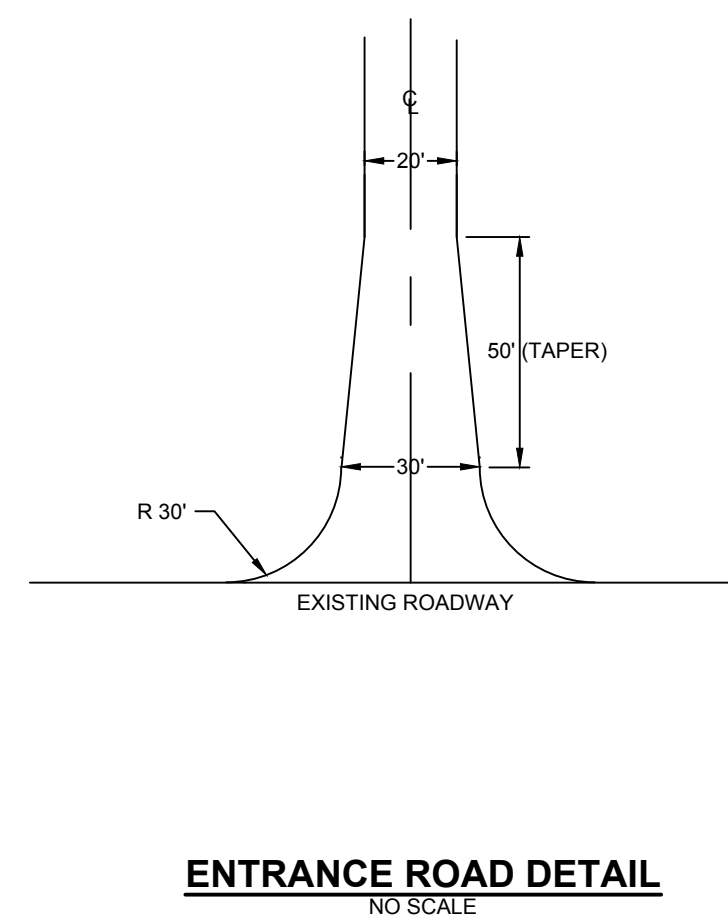
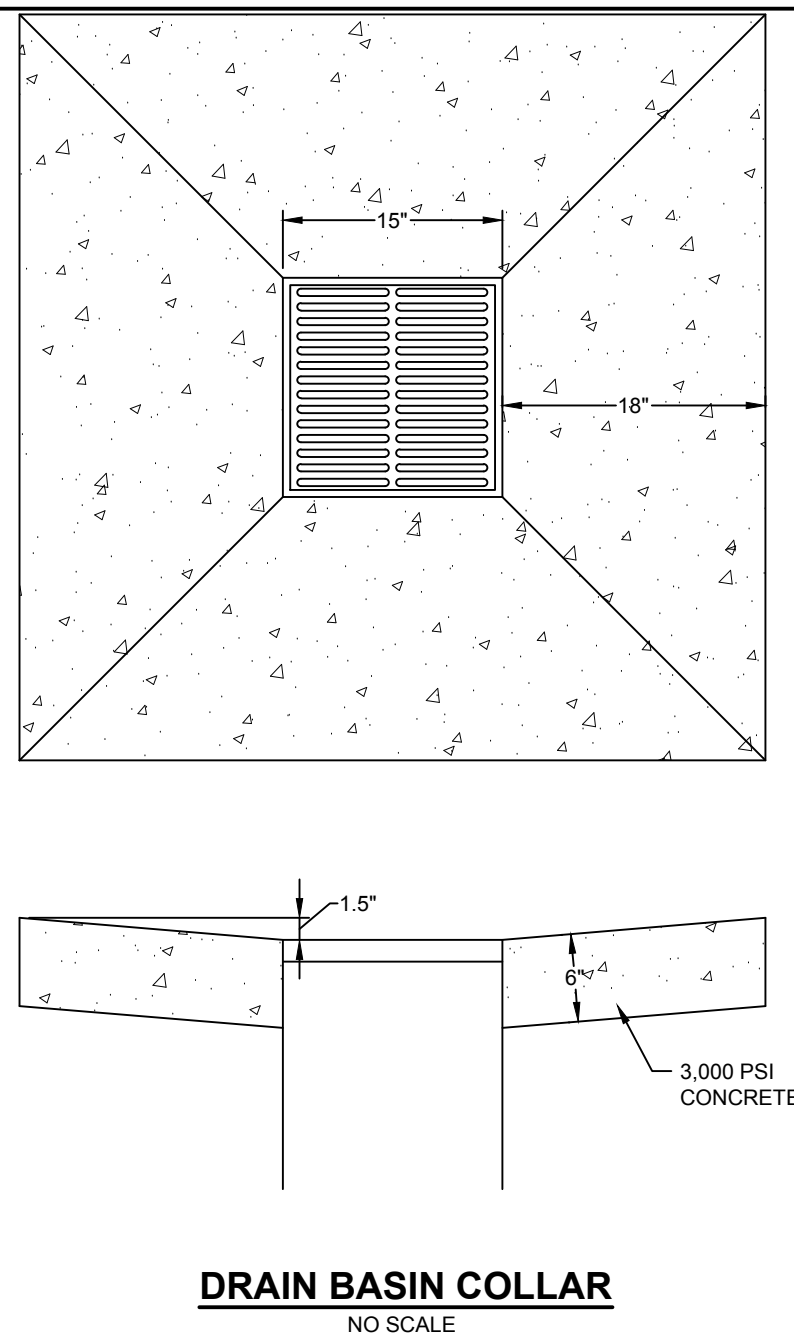
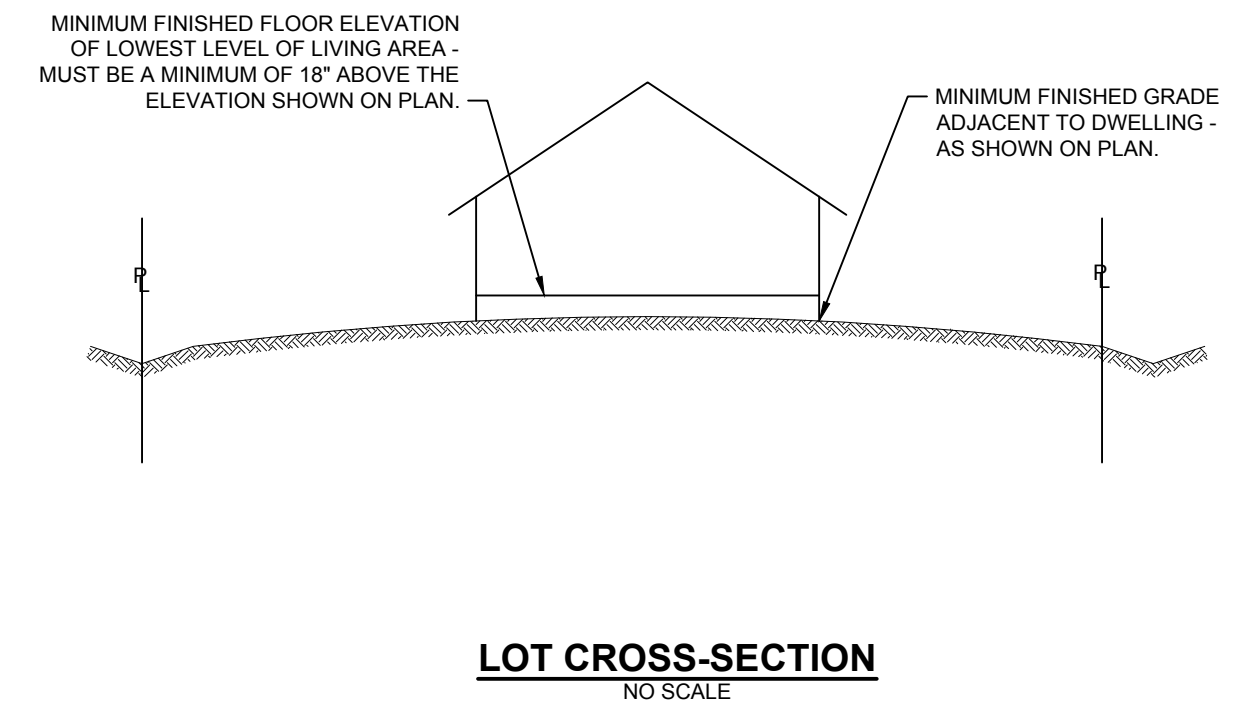
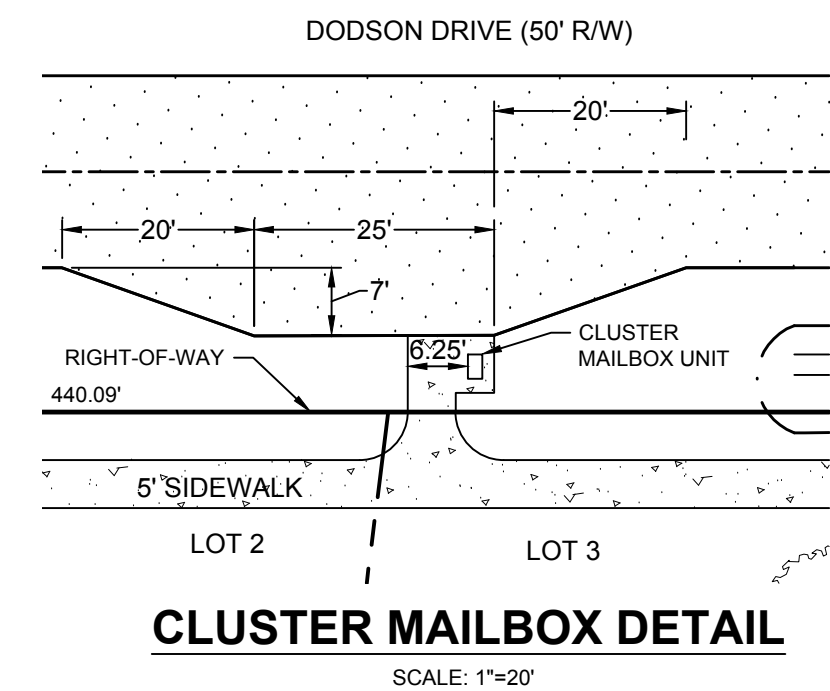
JOB NO. 44845  
SHEET NO. C4.0

These plans and associated documents are the exclusive property of TIMMONS GROUP and may not be reproduced in whole or in part and shall not be used for any purpose whatsoever, inclusive, but not limited to construction, bidding, and/or construction staking without the express written consent of TIMMONS GROUP.





- NOTES:
- SIGN SHALL BE ERECTED WITH THE BOTTOM OF SIGN ASSEMBLY 6 FT. ABOVE THE EDGE OF THE TRAVEL LANE ON FREEWAYS AND 5 FT. ON OTHER ROUTES. THE VERTICAL CLEARANCE SHALL BE 7 FT. WHERE REQUIRED FOR PEDESTRIAN TRAFFIC AND/OR PARKED VEHICLES. OR A 6 FT. + MINIMUM CLEARANCE TO THE SIDEWALK OR WALKING SURFACE.
  - THE VERTICAL DIMENSIONS BETWEEN MOUNTING HOLE CENTERS SHALL BE 30" MAXIMUM. THE VERTICAL AND HORIZONTAL DIMENSIONS BETWEEN MOUNTING HOLES SHALL BE TO THE WHOLE INCH. SIGN SHALL HAVE A MINIMUM OF 2 BOLTS PER SUPPORT.
  - BOLT THREADS SHALL BE DEFORMED WITH PUNCH AND CHISEL AFTER INSTALLATION SUFFICIENTLY TO REDUCE REMOVAL BY VANDALS.



THIS DRAWING PREPARED AT THE  
**ELIZABETH CITY OFFICE**  
 1805 West City Drive, Unit E | Elizabeth City, NC 27909  
 TEL 252.621.3030 FAX 252.592.0974 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

DATE	REVISIONS PER TRC COMMENTS
11/09/2021	

DATE	11/10/2020
DRAWN BY	BCD
DESIGNED BY	KDH
CHECKED BY	KDH
SCALE	NO SCALE

**TIMMONS GROUP**  
 NORTH CAROLINA LICENSE NO. C-1652

**BOSWOOD ESTATES CONSTRUCTION DRAWINGS**  
 CRAWFORD TOWNSHIP - CURRITUCK COUNTY - NORTH CAROLINA

**SITE DETAILS**

JOB NO.	44845
SHEET NO.	C5.0

S:\10944445 - Boswood Estates - Mathias Property - Beroa - NC\DWG\Sheet\CD\44845-C5.DWG (11/10/2021 9:15 AM) by Kim Hamby

These plans and associated documents are the exclusive property of TIMMONS GROUP and may not be reproduced in whole or in part and shall not be used for any purpose whatsoever, inclusive, but not limited to construction, bidding, and/or construction staking without the express written consent of TIMMONS GROUP.



**PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

**SECTION A: SELF-INSPECTION**  
Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauges maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero". The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item 2(b) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframes or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

**PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

**SECTION B: RECORDKEEPING**  
**1. E&SC Plan Documentation**  
The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

**2. Additional Documentation to be Kept on Site**  
In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- This General Permit as well as the Certificate of Coverage, after it is received.
- Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

**3. Documentation to be Retained for Three Years**  
All data used to complete the e-NCI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

**PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

**SECTION C: REPORTING**  
**1. Occurrences that Must be Reported**  
Permittees shall report the following occurrences:  
(a) Visible sediment deposition in a stream or wetland.  
(b) Oil spills if:  
• They are 25 gallons or more,  
• They are less than 25 gallons but cannot be cleaned up within 24 hours,  
• They cause sheen on surface waters (regardless of volume), or  
• They are within 100 feet of surface waters (regardless of volume).  
(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.  
(d) Anticipated bypasses and unanticipated bypasses.  
(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

**2. Reporting Timeframes and Other Requirements**  
After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• <b>Within 24 hours</b> , an oral or electronic notification. • <b>Within 7 calendar days</b> , a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the <a href="#">NC 303(d) list</a> as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	• <b>Within 24 hours</b> , an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• <b>A report at least ten days before the date of the bypass, if possible.</b> The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• <b>Within 24 hours</b> , an oral or electronic notification.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(l)(7)]	• <b>Within 24 hours</b> , an oral or electronic notification. • <b>Within 7 calendar days</b> , a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. [40 CFR 122.41(l)(8)]. • Division staff may waive the requirement for a written report on a case-by-case basis.

**PART II, SECTION G, ITEM (4)  
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT**

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items.
- The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item 2(c) and (d) of this permit.
- Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sized, designed and maintained dewatering tanks, weir tanks, and filtration systems.
- Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above.
- Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

**NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING** EFFECTIVE: 04/01/19

**GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT**

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

**SECTION E: GROUND STABILIZATION**

Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

**Note:** After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

**GROUND STABILIZATION SPECIFICATION**  
Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed

**POLYACRYLAMIDES (PAMS) AND FLOCCULANTS**

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated Stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

**EQUIPMENT AND VEHICLE MAINTENANCE**

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

**LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE**

- Never bury or burn waste. Place litter and debris in approved waste containers.
- Provide a sufficient number and size of waste containers (e.g. dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containers.

**PAINT AND OTHER LIQUID WASTE**

- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

**PORTABLE TOILETS**

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

**EARTHEN STOCKPILE MANAGEMENT**

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

**CONCRETE WASHOUTS**

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle/strengthen, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

**HERBICIDES, PESTICIDES AND RODENTICIDES**

- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials onsite.

**HAZARDOUS AND TOXIC WASTE**

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous chemicals, drums or bagged materials directly on the ground.

**NCG01 GROUND STABILIZATION AND MATERIALS HANDLING** EFFECTIVE: 04/01/19



THIS DRAWING PREPARED AT THE  
**ELIZABETH CITY OFFICE**  
1805 West City Drive, Unit E | Elizabeth City, NC 27909  
TEL 252.621.3030 FAX 252.621.0974 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

DATE	REVISIONS PER TRC COMMENTS
11/05/2021	

DATE  
11/10/2020

DRAWN BY  
BCD

DESIGNED BY  
KDH

CHECKED BY  
KDH

SCALE  
NO SCALE



**TIMMONS GROUP**  
NORTH CAROLINA LICENSE NO. C-1652

**BOSWOOD ESTATES CONSTRUCTION DRAWINGS**  
CRAWFORD TOWNSHIP - CURRITUCK COUNTY - NORTH CAROLINA

**EROSION CONTROL DETAILS**

JOB NO.  
44845

SHEET NO.  
C5.1

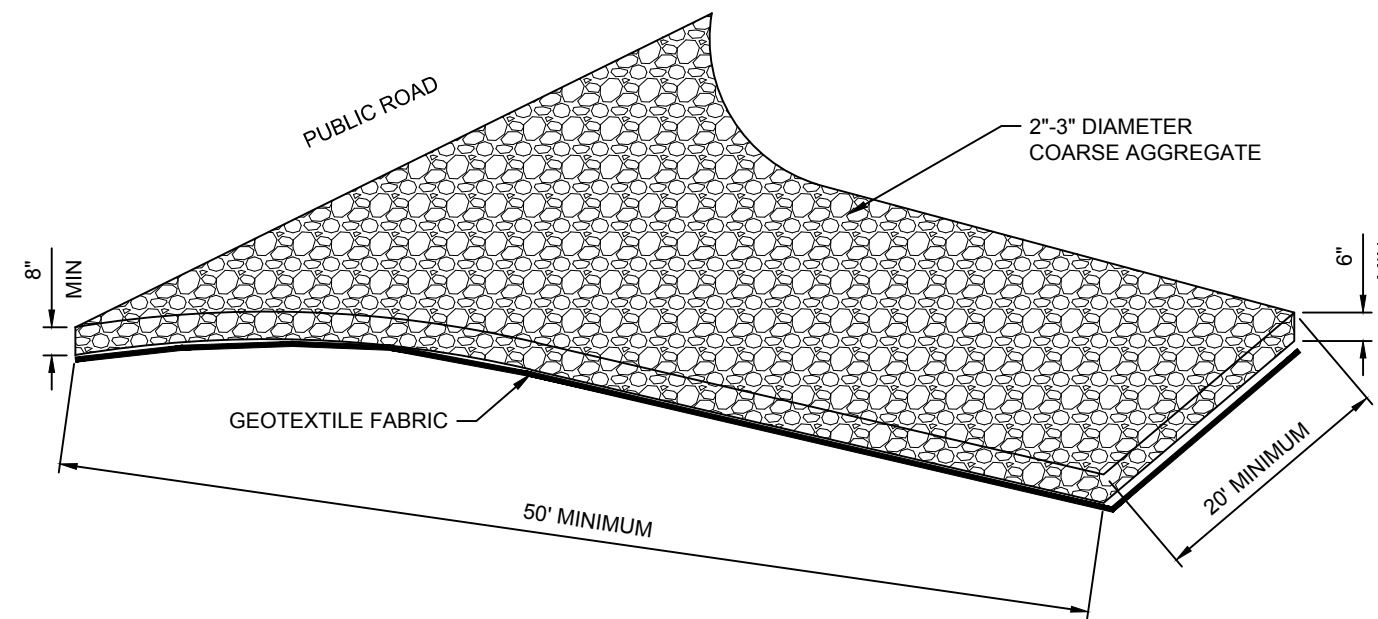
These plans and associated documents are the exclusive property of TIMMONS GROUP and may not be reproduced in whole or in part and shall not be used for any purpose whatsoever, inclusive, but not limited to construction, bidding, and/or construction staking without the express written consent of TIMMONS GROUP.

**CONSTRUCTION SPECIFICATIONS:**

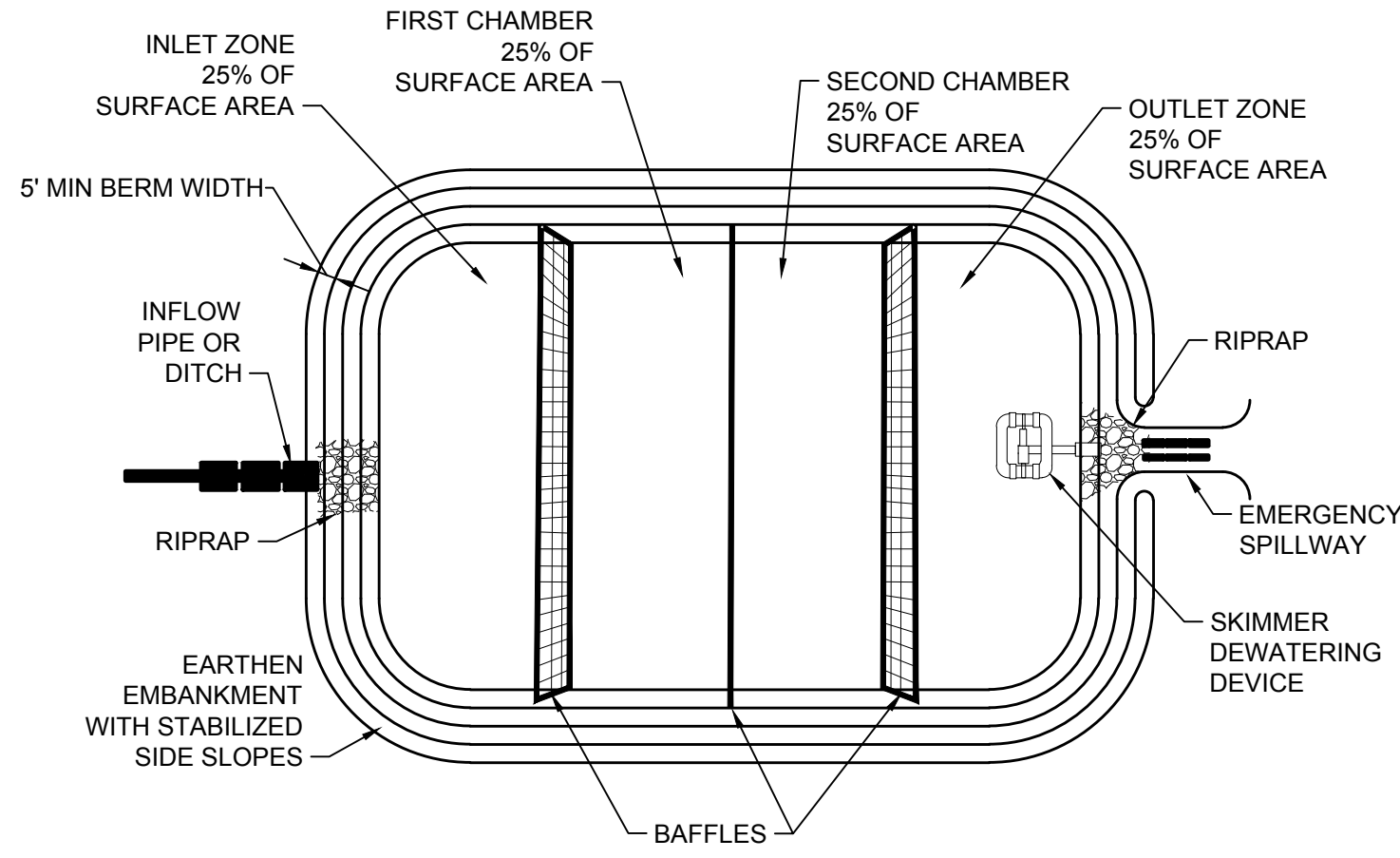
1. CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL, AND PROPERLY GRADE IT.
2. PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLAN.
3. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.
4. USE GEOTEXTILE FABRICS BECAUSE THEY IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

**MAINTENANCE**

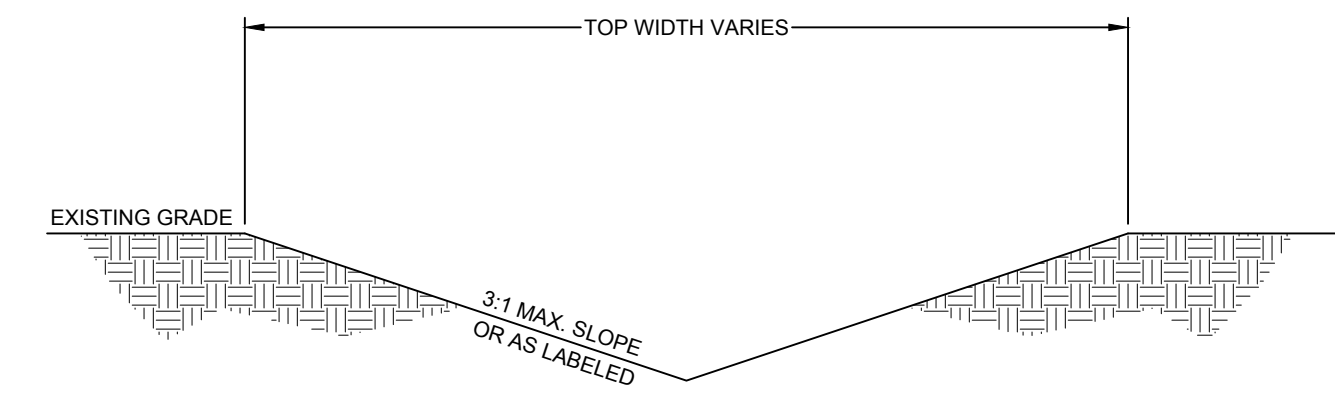
MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH TWO-INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.



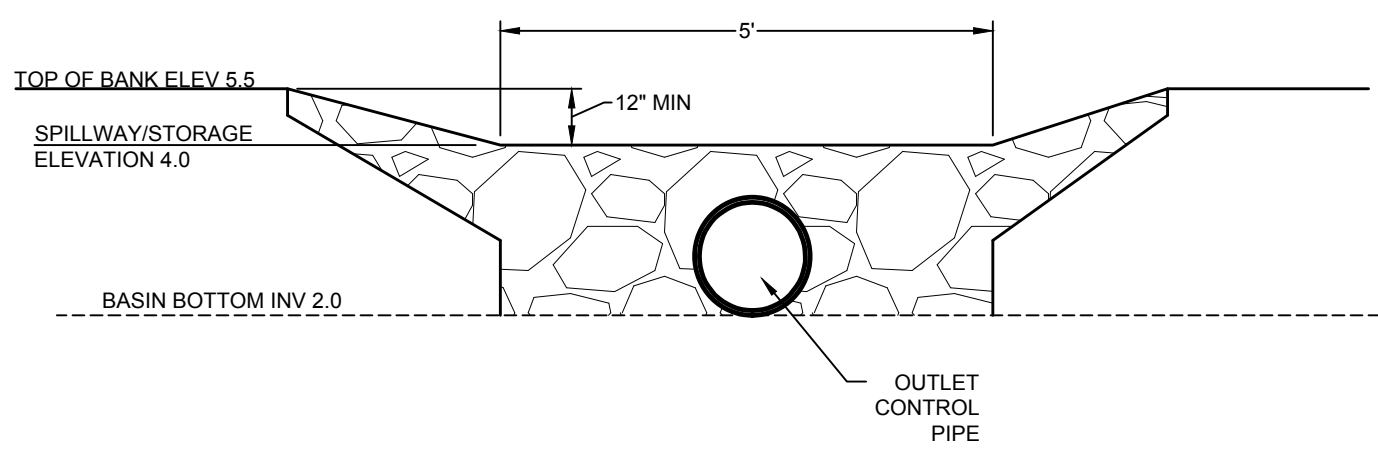
**TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT**  
NO SCALE



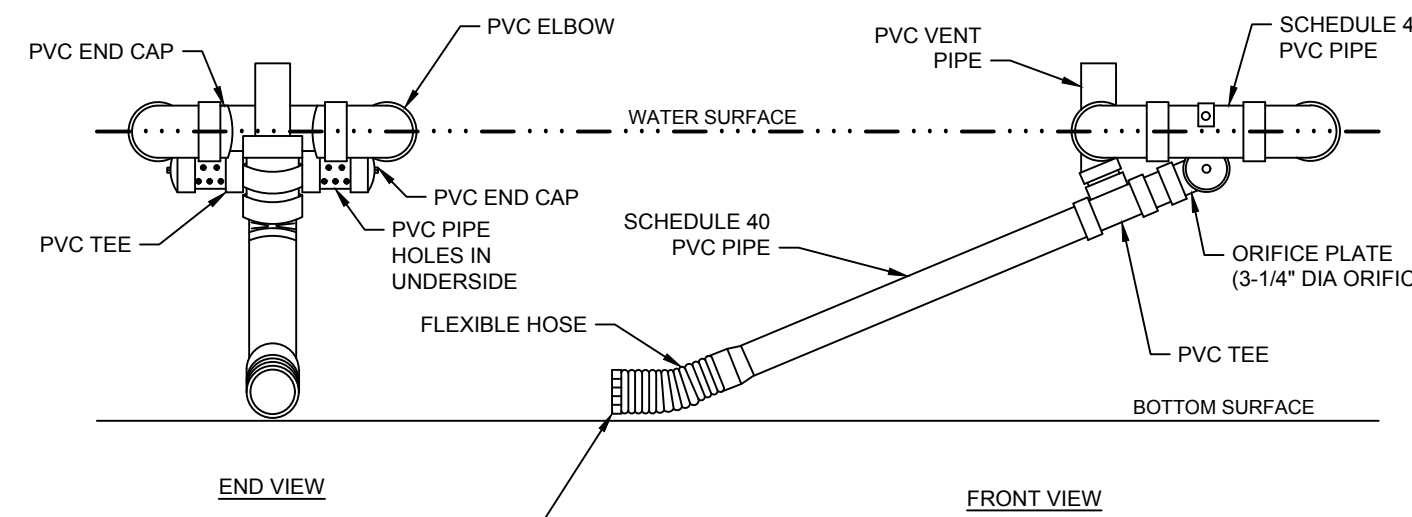
**SEDIMENT BASIN DETAIL**  
NO SCALE



**TYPICAL DITCH/SWALE**  
NO SCALE



**SEDIMENT BASIN EMERGENCY SPILLWAY**  
NO SCALE

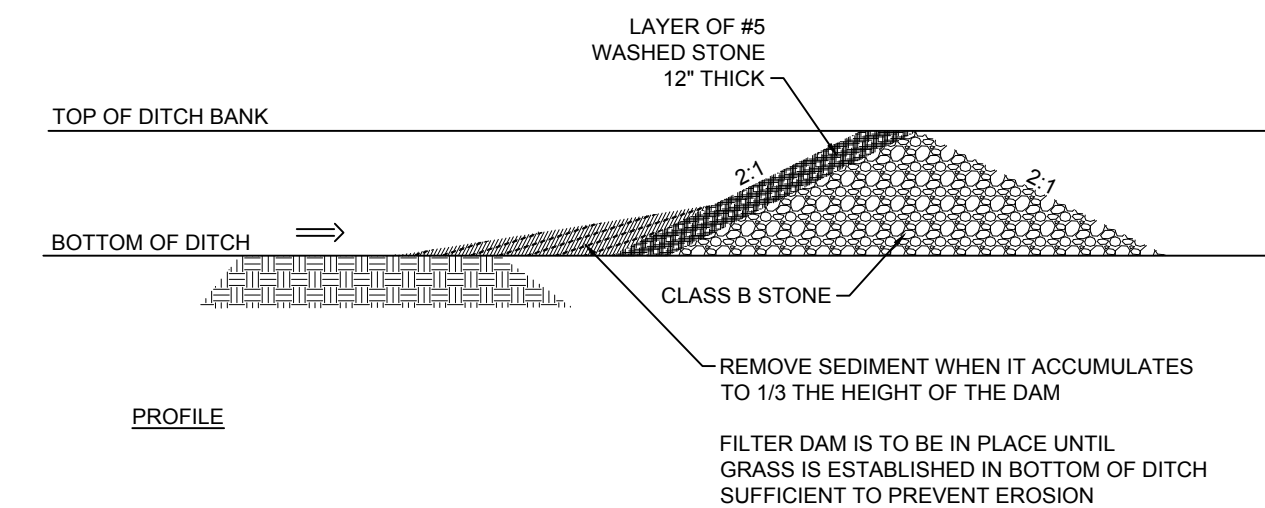
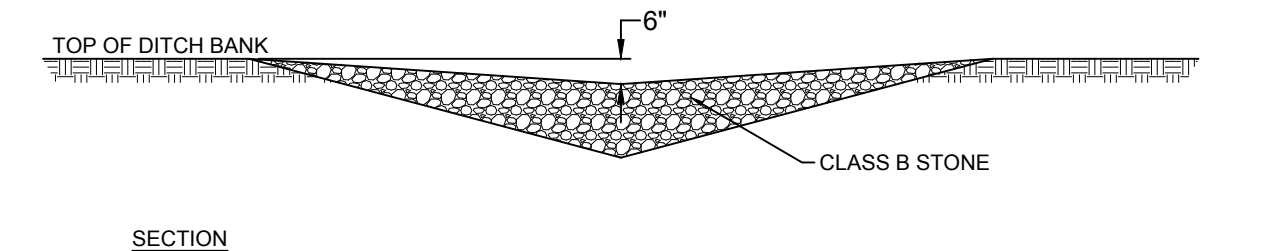


**4" SKIMMER**  
NO SCALE

**NOTES:**

- PROVIDE A SMALL PILE OF RIP RAP OR CONCRETE MASONRY BLOCK DIRECTLY BELOW SKIMMER TO PREVENT SKIMMER FROM RESTING ON SOIL.
- ALL SCHEDULE 40 PVC PIPE & FITTINGS SHALL BE 4" MIN. DIA.
- SKIMMER TO BE TETHERED

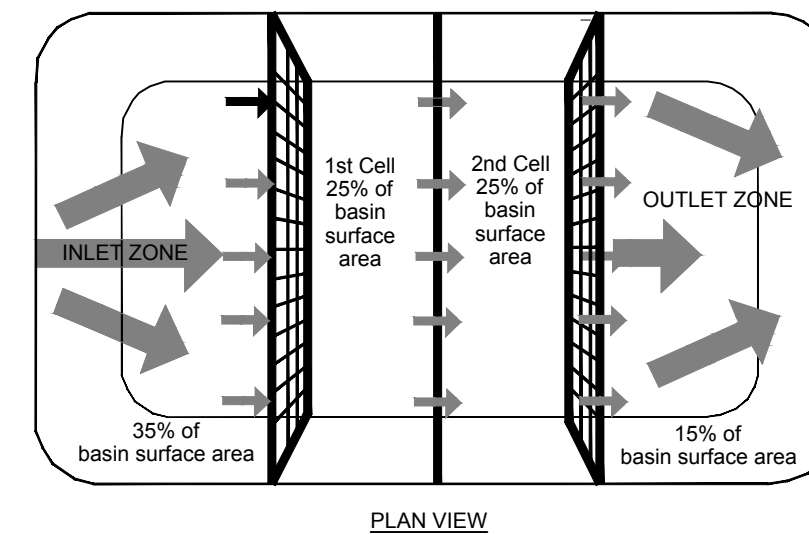
SEE N.C. DENR EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL FOR CONDITIONS WHERE PRACTICE APPLIES; PLANNING CONSIDERATION & DESIGN CRITERIA.



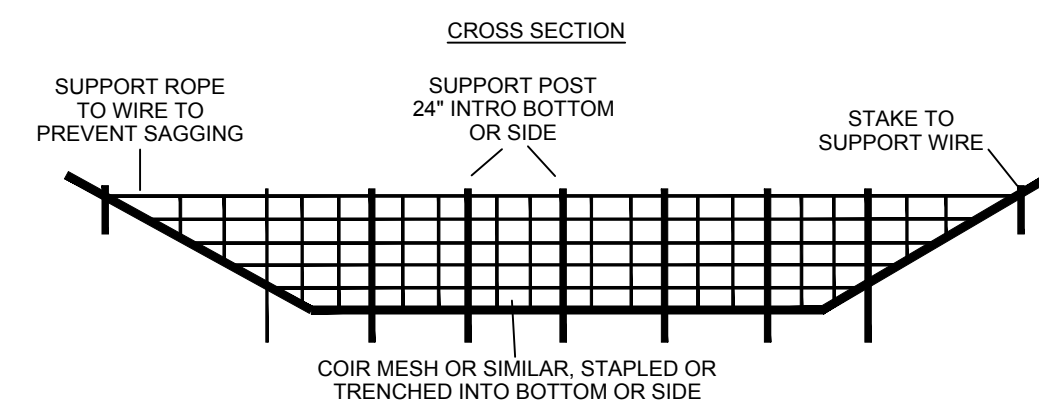
**CHECK DAM**  
NO SCALE

**NOTES:**

1. BAFFLE MATERIAL SHOULD BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR SILT FENCE.
2. MOST OF THE SEDIMENT WILL ACCUMULATE IN THE 1ST BAY, WHICH SHOULD BE READILY ACCESSIBLE FOR MAINTENANCE.
3. PROVIDE 3 BAFFLES (USE TWO IF LESS THAN 20 FEET IN LENGTH). PROVIDE 5 BAFFLES FOR DRAINAGE AREAS GREATER THAN 10 ACRES.
4. BAFFLE SHALL BE 700 G/M2 COIR EROSION BLANKET.
5. TOPS OF BAFFLES SHOULD BE 2 INCHES LOWER THAN THE TOP OF THE BERMS.
6. INSPECT BAFFLES FOR REPAIR ONCE A WEEK AND AFTER EACH RAINFALL.

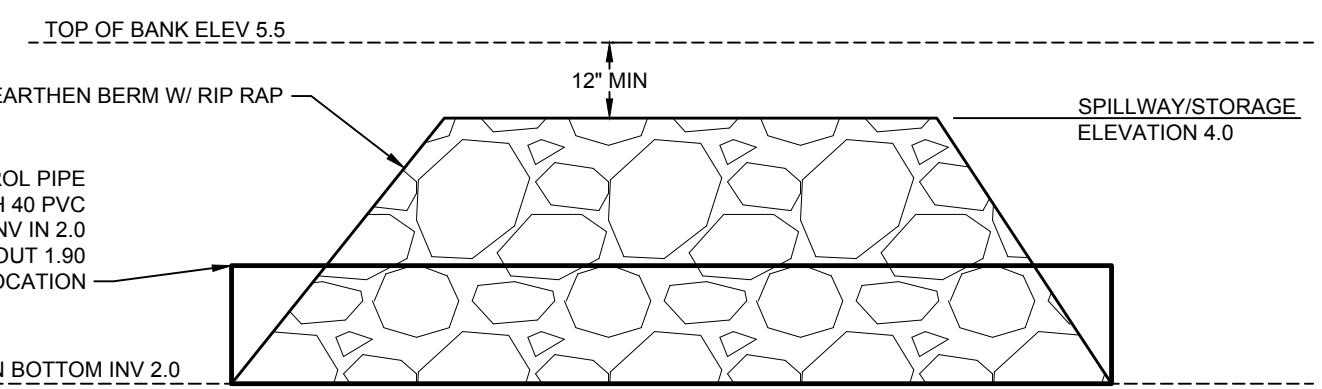


**COIR BAFFLES**  
NO SCALE

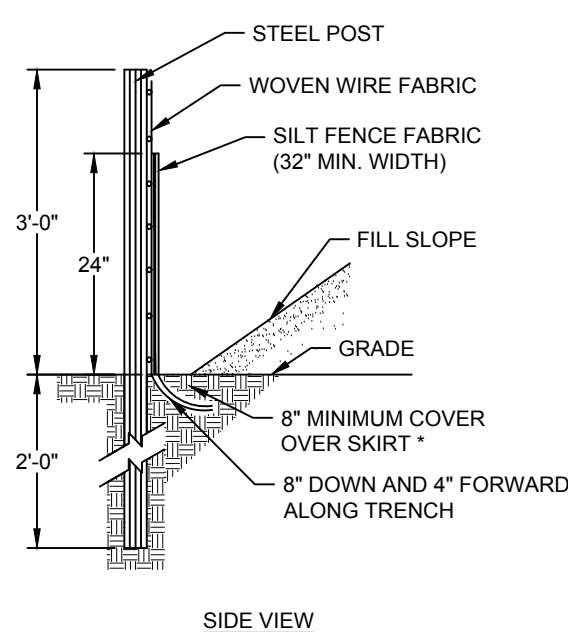


**MAINTENANCE**

- INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
- BE SURE TO MAINTAIN ACCESS TO THE BAFFLES. SHOULD THE FABRIC OF A BAFFLE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
- REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGNED STORAGE DEPTH.
- REMOVE ALL BAFFLE MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.



**SILT FENCE**  
NO SCALE

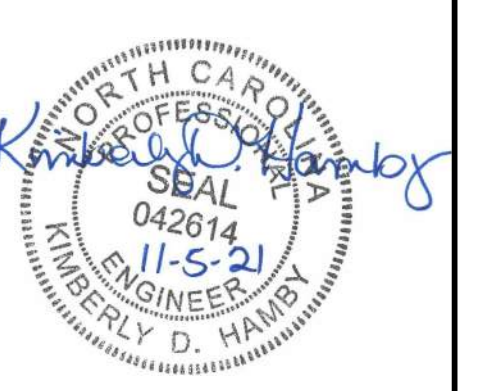
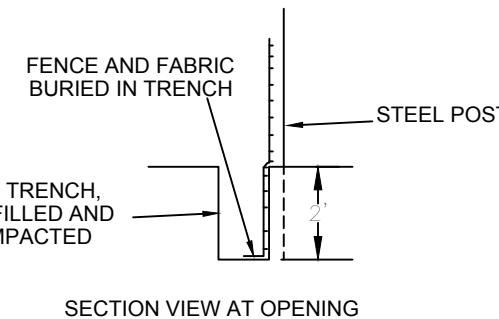


**CONSTRUCTION SPECIFICATIONS:**

1. USE SYNTHETIC FILTER FABRIC OF AT LEAST 85% BY WEIGHT OF POLYOLEFINS OR POLYESTER, WHICH IS CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS IN ASTM D 6461.
2. SYNTHETIC FILTER FABRIC SHOULD CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0-120 DEGREES F.
3. ENSURE THAT POSTS FOR SEDIMENT FENCES ARE 1.33 LB/LF STEEL WITH A MINIMUM LENGTH OF 5'. MAKE SURE THAT STEEL POSTS HAVE PROJECTIONS TO FACILITATE FASTENING THE FABRIC.
4. FOR REINFORCEMENT OF STANDARD STRENGTH FILTER FABRIC, USE WIRE FENCE WITH A MINIMUM 14 GAUGE AND A MAXIMUM MESH SPACING OF 6 INCHES.

**MAINTENANCE**

1. INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
4. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.



THIS DRAWING PREPARED AT THE  
**ELIZABETH CITY OFFICE**  
1805 West City Drive, Unit E | Elizabeth City, NC 27909  
TEL 252.621.3030 FAX 252.692.0974 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

DATE	REVISIONS PER TRC COMMENTS
11/05/2021	
11/10/2020	

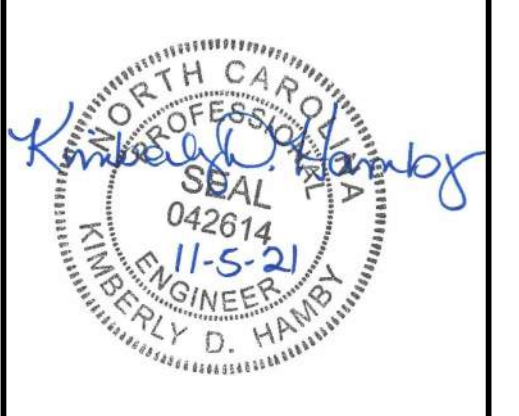
DESIGNED BY	BCD
CHECKED BY	KDH
SCALE	NO SCALE

**TIMMONS GROUP**  
NORTH CAROLINA LICENSE NO. C-1652

**BOSWOOD ESTATES CONSTRUCTION DRAWINGS**  
CRAWFORD TOWNSHIP - CURRITUCK COUNTY - NORTH CAROLINA  
**GRADING/DRAINAGE AND EROSION CONTROL DETAILS**

JOB NO.	44845
SHEET NO.	C5.2

These plans and associated documents are the exclusive property of TIMMONS GROUP and may not be reproduced in whole or in part and shall not be used for any purpose whatsoever, inclusive, but not limited to construction, bidding, and/or construction staking without the express written consent of TIMMONS GROUP.



**CONSTRUCTION SEQUENCING**

1. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE PADS. (SEE DETAIL)
2. INSTALL EROSION CONTROL DEVICES AT SITE DISCHARGE POINTS AND ALL SILT FENCE TO PREVENT OFF-SITE SEDIMENTATION, INCLUDING CONSTRUCTION OF SKIMMER BASIN.
3. PERFORM GRADING OPERATIONS AND INSTALL THE REMAINING SEDIMENT AND EROSION CONTROL PROTECTION AS WORK PROGRESSES.
4. INSTALL THE STONE BASE AND ASPHALT FOR THE PROPOSED ROADS.
5. PROVIDE GROUND COVER IN ACCORDANCE WITH DETAIL MARKED 'EROSION CONTROL MEASURES', THIS SHEET.
6. MONITOR AND MAINTAIN THE INSTALLED EROSION CONTROL MEASURES AND REPAIR AS NECESSARY.
7. ONCE THE SITE IS STABILIZED REMOVE ALL COMPONENTS OF THE SKIMMER BASIN AND UPSTREAM EROSION CONTROL DEVICES. FILL AND GRADE THE BASIN AREA AND SEED AND MULCH.
8. ONCE VEGETATION IS ESTABLISHED AT THE SITE OF THE SKIMMER BASIN REMOVE ANY REMAINING CONTROL DEVICES.

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE EROSION AND SEDIMENT CONTROL STANDARDS AND SPECIFICATIONS OF THE DEPARTMENT OF ENVIRONMENTAL AND NATURAL RESOURCES. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE PROVIDED ON ALL AREAS OF THE SITE WHICH ALL DISTURBED OR GRADED.

PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY FOR SLOPES 3:1 OR FLATTER AND LESS THAN 50' IN LENGTH, FOR SLOPES 4:1 OR FLATTER OF ANY LENGTH (EXCEPT FOR PERIMETERS AND HOW ZONES), AND SLOPES NO STEEPER THAN 2:1 AND LESS THAN 10' IN LENGTH.

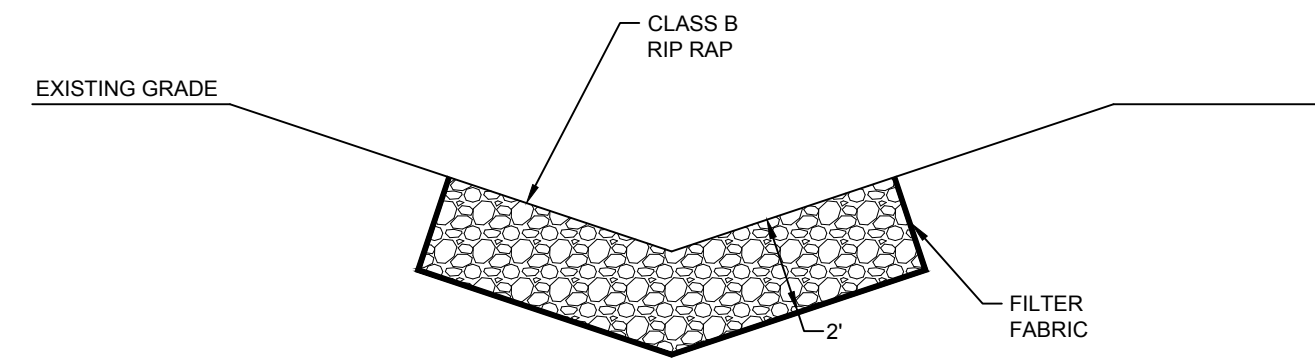
PROVIDE GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 7 CALENDAR DAYS FOR SLOPES STEEPER THAN 3:1 OR SLOPES 3:1 OR FLATTER GREATER THAN 50' IN LENGTH, FOR HIGH QUALITY WATER (HWO) ZONES, AND PERIMETER DIKES, SWALES, DITCHES AND SLOPES.

PROVIDE GROUND COVER (TEMPORARY OR PERMANENT) ON ALL EXPOSED SLOPES WITHIN 21 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING, AND, A PERMANENT GROUND COVER FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.

THE CONTROL MEASURES SHALL BEGIN PRIOR TO ANY LAND DISTURBING ACTIVITY INCLUDING CLEARING. SHALL CONTINUE DURING CONSTRUCTION AND SHALL CONTINUE WITH THE NECESSARY MAINTENANCE UNTIL THE DISTURBED LAND IS STABILIZED. COMPLIANCE WITH LOCAL AND/OR STATE SOIL EROSION AND SEDIMENTATION CONTROL LAWS SHALL BE THE ENTIRE RESPONSIBILITY OF THE CONTRACTOR. THIS PARAGRAPH IS INTENDED TO SERVE ONLY AS A GUIDE TO THE CONTRACTOR FOR COMPLIANCE WITH SUCH LAWS, ORDERS, RULES AND REGULATIONS CONCERNING EROSION AND SEDIMENTATION CONTROL PROTECTION OF EXISTING STRUCTURES AND FACILITIES FROM SEDIMENTATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ITEMS TO BE PROTECTED SHALL INCLUDE, BUT ARE NOT LIMITED TO, CATCH BASINS, NATURAL WATERWAYS, DRAINAGE DITCHES, WALKS, DRIVES, ROADS, LAWN, AND STREAMS.

**EROSION CONTROL MEASURES**

NO SCALE



NOTES:  
INSTALL RIP RAP SO TOP OF STONE WILL MATCH DITCH INVERT.  
EXTEND RIP RAP ALONG SIDE SLOPE AS SHOWN ON PLANS.

**RIP RAP CHANNEL LINING**

NO SCALE

**SEEDBED PREPARATION**

CONSTRUCTION SPECIFICATIONS

1. PREPARE SOIL AS NECESSARY TO ESTABLISH AN ADEQUATE SEEDBED FOR RECEIVING SEED USING TILLAGE AND/OR REMOVAL OF DEBRIS (ROCKS, ROOTS, OBSTRUCTIONS), CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
2. SOIL SHALL RECEIVE LIME, FERTILIZER AND/OR SUPERPHOSPHATE UNIFORMLY AS NEEDED PER RECOMMENDATIONS FROM NORTH CAROLINA DEPARTMENT OF AGRICULTURE OR OTHER COMMERCIAL LABORATORY.
3. SEED ON A FRESHLY PREPARED SEEDBED AND ENSURE SEED IS LIGHTLY COVERED FOLLOWING INSTALLATION.
4. MULCH IMMEDIATELY AFTER SEEDING.
5. CONTRACTOR SHALL SEED ALL AREAS THAT ARE DISTURBED WITHIN TWO DAYS. INSPECT ALL SEEDED AREAS AND MAKE SURE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. AFTER ALL CONSTRUCTION ACTIVITIES ARE COMPLETE, AN INSPECTION WILL BE COMPLETED TO DETERMINE IF ADDITIONAL SEEDING WILL BE REQUIRED.

\*APPLY:  
FERTILIZER, LIME, AND MULCH SHALL BE APPLIED AT RATES RECOMMENDED BY NCDA (OR OTHERS). OTHERWISE, APPLY AS DESCRIBED BELOW.

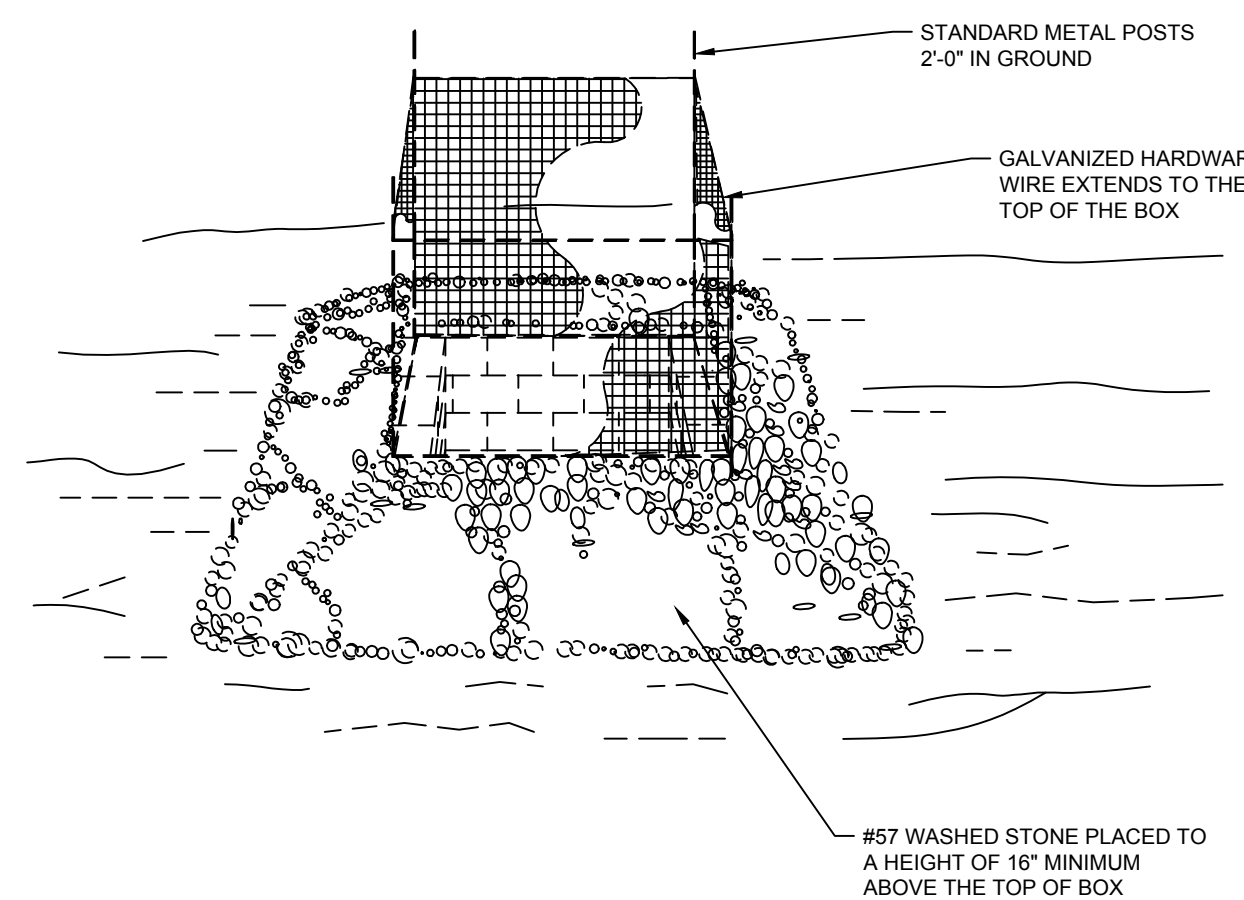
AGRICULTURAL LIMESTONE - 1-1.5 TONS/ACRE ON COURSE TEXTURED SOILS AND 2-3 TONS/ACRE IN FINE-TEXTURED SOILS.  
SOILS WITH PH OF 6 OR HIGHER NEED NOT BE LIMED.  
FERTILIZER - 700/1000 LBS/ACRE (10-10-10)  
MULCH - 2 TONS/ACRE (SMALL GRAIN STRAW)  
ANCHOR - ASPHALT EMULSION AT 450 GAL/ACRE

**PERMANENT SEEDING SCHEDULE FOR COASTAL PLAIN**

DATE	TYPE	BROADCAST SEEDING RATES
OCT 1 - APR 1	SERICEA LESPEDEZA	15 LBS/ACRE
AUG 30 - MAR 15	KY 31 TALL FESCUE	200-250 LBS/ACRE
AUG 15 - APR 15	RYE GRAIN	40 LBS/ACRE
APR 15 - AUG 15	GERMAN MILLET	10 LBS/ACRE

**TEMPORARY SEEDING SCHEDULE**

DATE	TYPE	PLANTING RATES
DEC 1 - APR 15	ANNUAL LESPEDEZA (KOBÉ IN PIEDMONT AND COASTAL PLAIN)	50 LBS/ACRE
APR 15 - AUG 15 (COASTAL PLAIN)	GERMAN MILLET	40 LBS/ACRE
AUG 15 - DEC 30 (COASTAL PLAIN)	RYE	120 LBS/ACRE



MAINTENANCE  
INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.

**INLET PROTECTION**

NO SCALE

THIS DRAWING PREPARED AT THE  
**ELIZABETH CITY OFFICE**  
1805 West City Drive, Unit E | Elizabeth City, NC 27809  
TEL 252.621.3030 FAX 252.621.0974 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

DATE	REVISIONS PER TRC COMMENTS	REVISION DESCRIPTION
11/05/2021		

DATE  
11/10/2020

DRAWN BY  
BCD

DESIGNED BY  
KDH

CHECKED BY  
KDH

SCALE  
NO SCALE

**TIMMONS GROUP**

NORTH CAROLINA LICENSE NO. C-1652

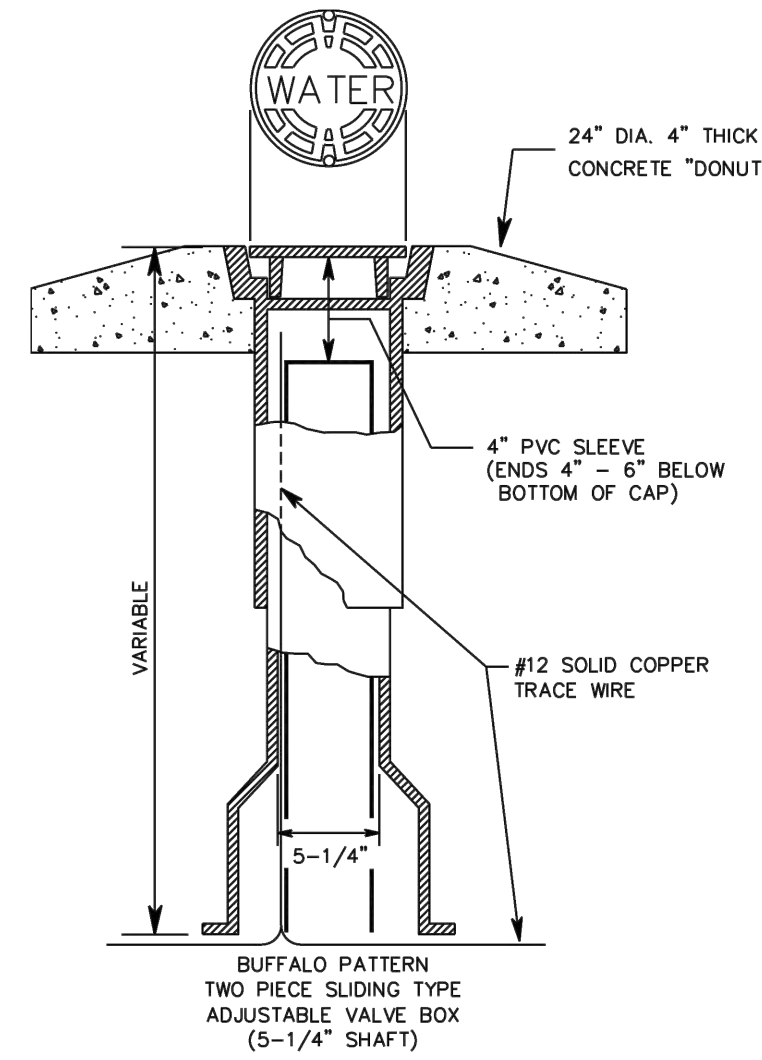
**BOSWOOD ESTATES CONSTRUCTION DRAWINGS**  
CRAWFORD TOWNSHIP - CURRITUCK COUNTY - NORTH CAROLINA

**EROSION CONTROL DETAILS**

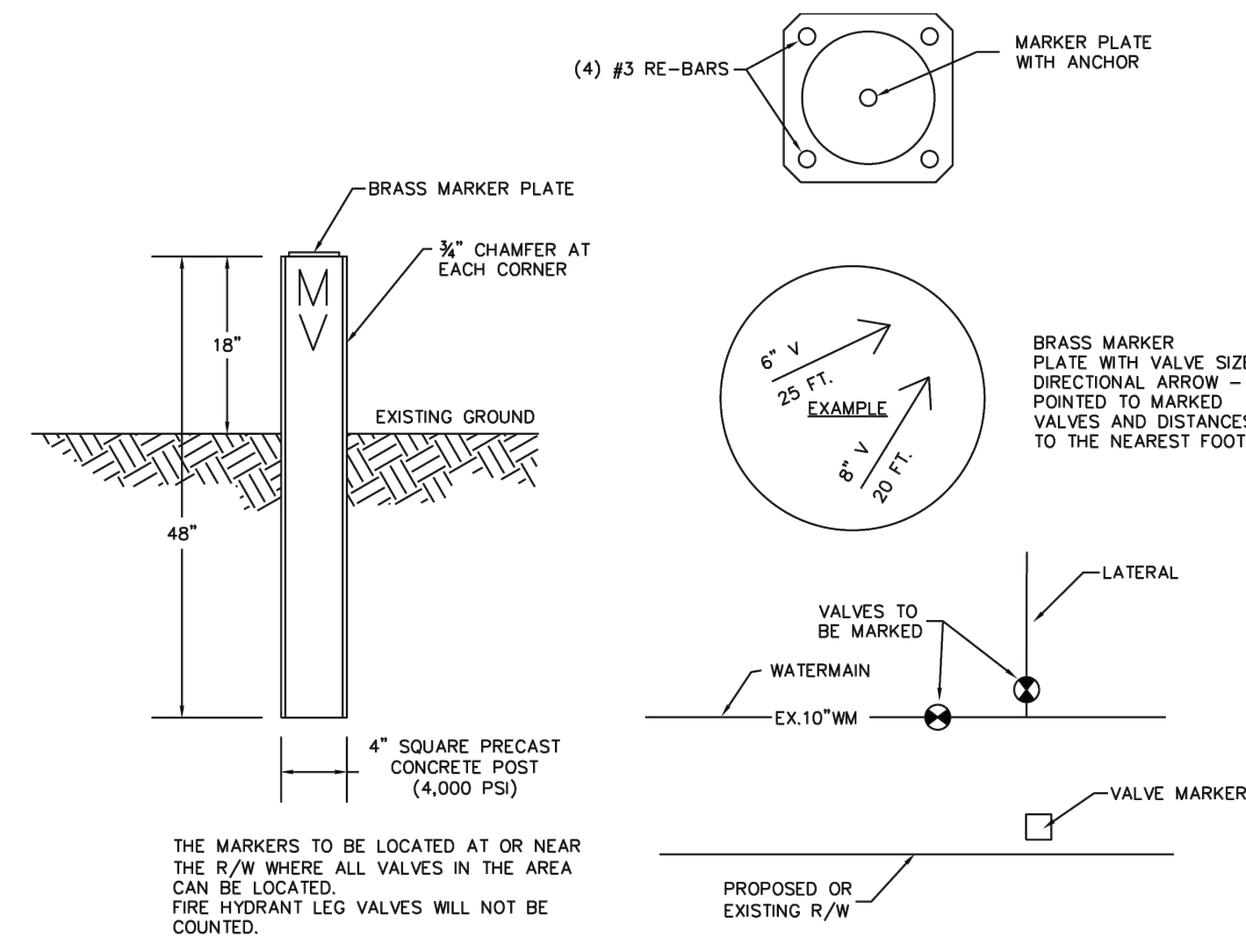
JOB NO.  
44845

SHEET NO.  
C5.3

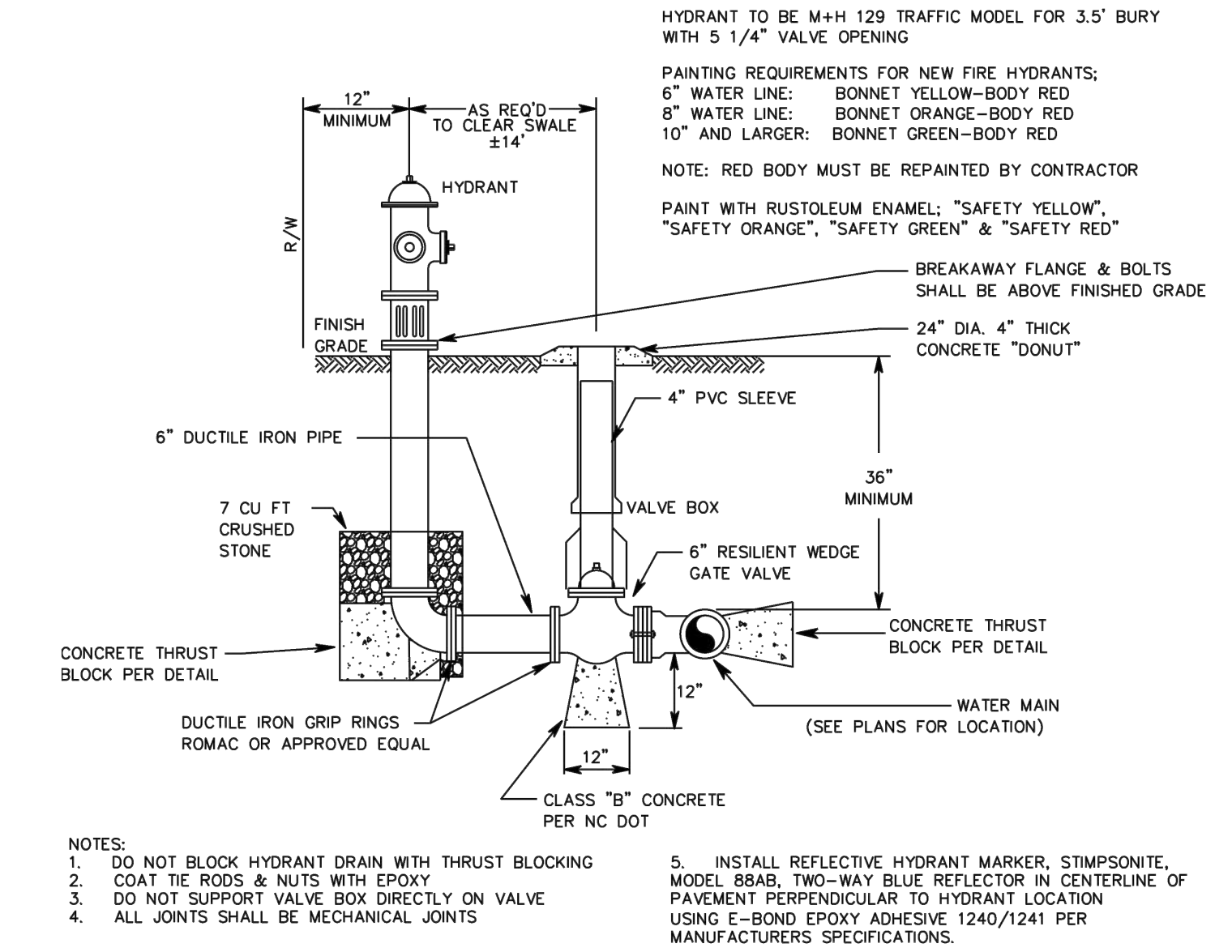
These plans and associated documents are the exclusive property of TIMMONS GROUP and may not be reproduced in whole or in part and shall not be used for any purpose whatsoever, inclusive, but not limited to construction, bidding, and/or construction staking without the express written consent of TIMMONS GROUP.



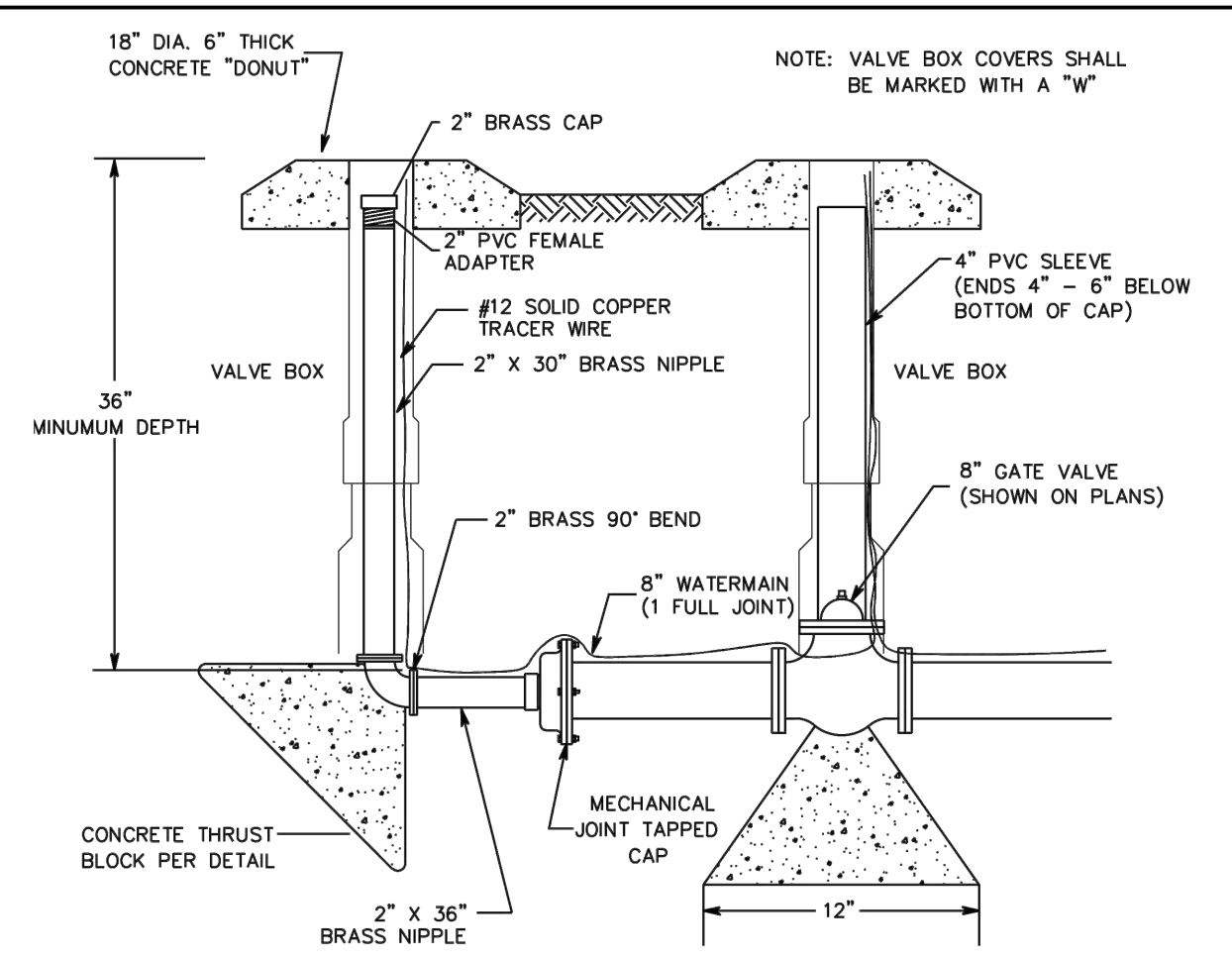
**VALVE BOX**  
NTS



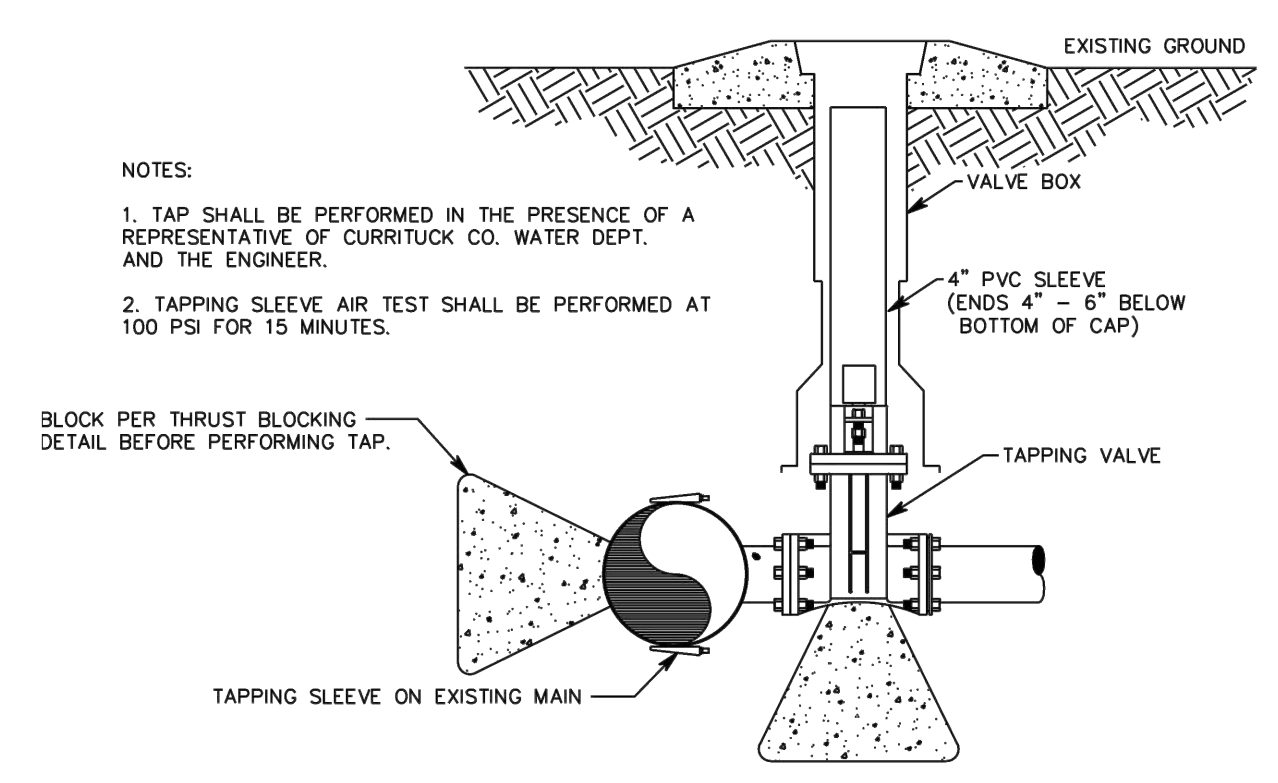
**VALVE MARKER DETAIL**  
NTS



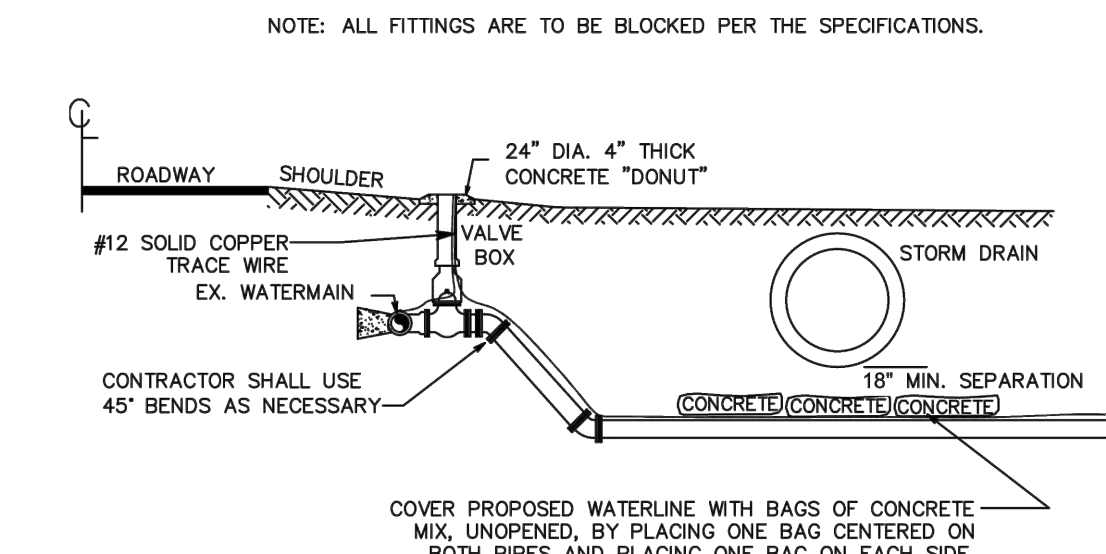
**FIRE HYDRANT DETAIL**  
NTS



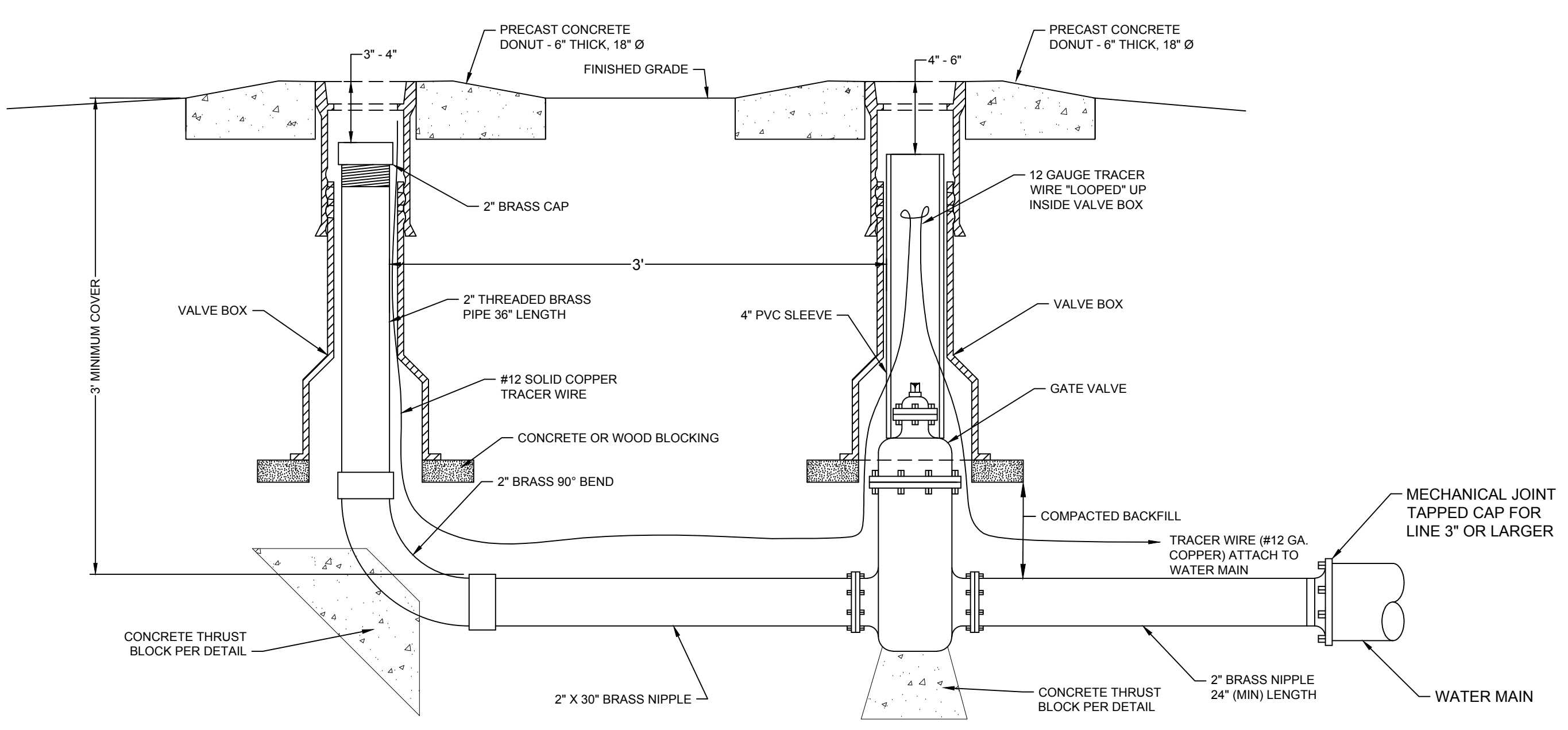
**TEMPORARY BLOW-OFF DETAIL**  
NTS



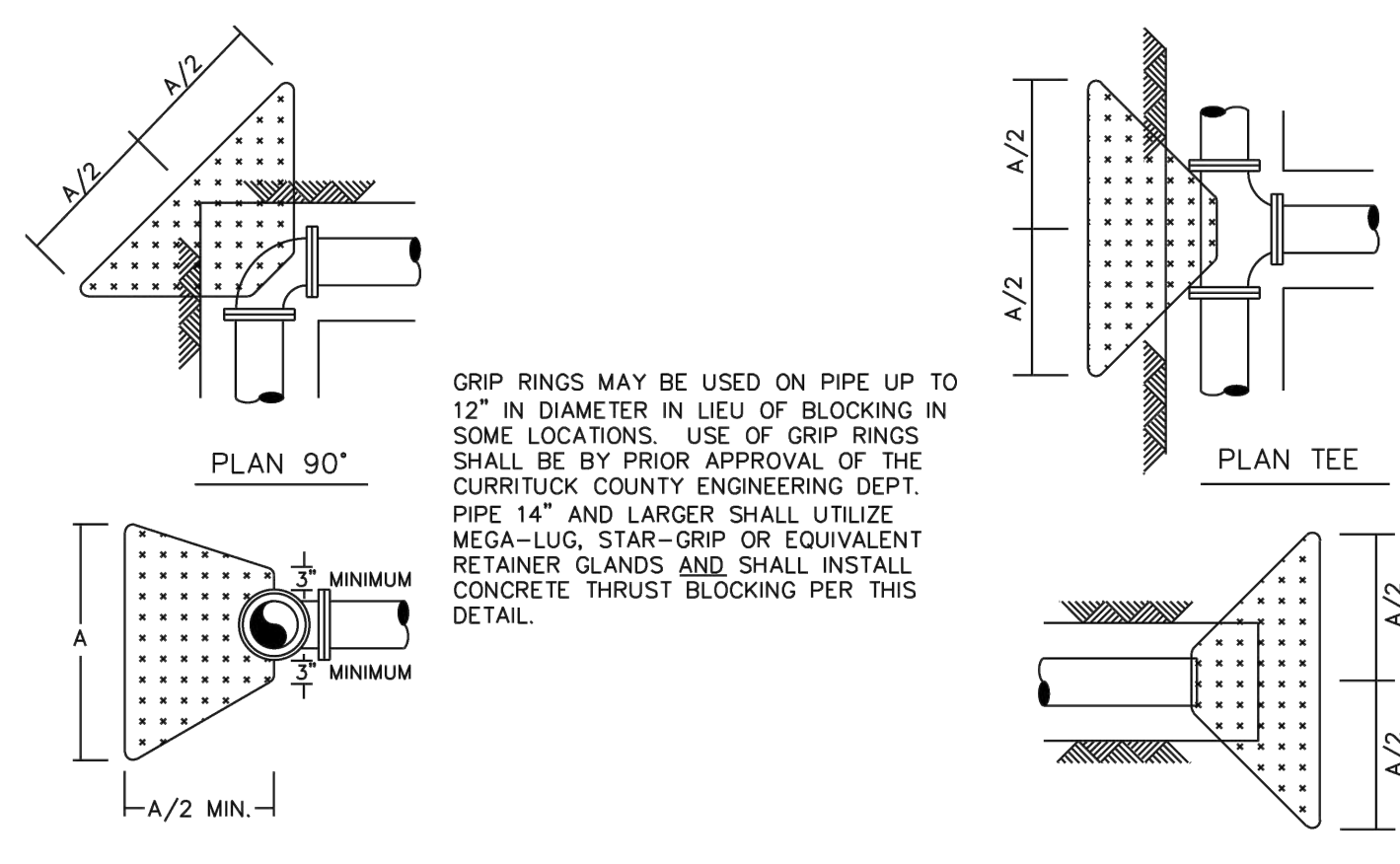
**TAPPING DETAIL**  
NTS



**CULVERT CROSSING DETAIL**  
NTS



**PERMANENT BLOW-OFF VALVE**  
NO SCALE

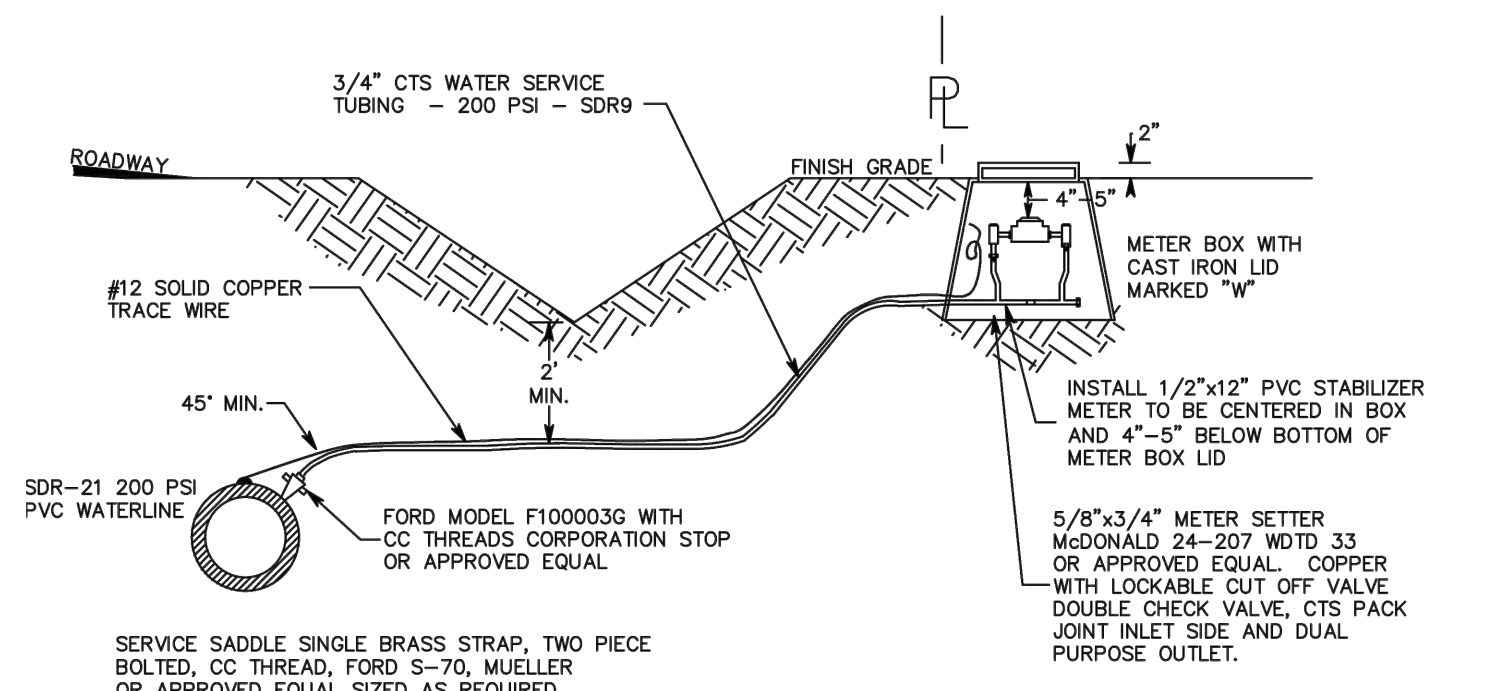


CONCRETE THRUST BLOCK SCHEDULE

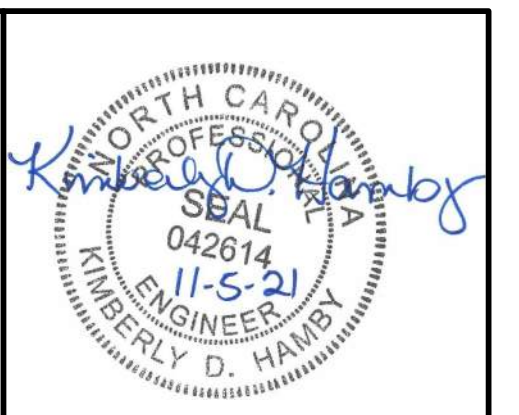
FITTING	PIPE SIZE (NOM. DIA. IN INCHES)									
	2"	4"	6"	8"	10"	12"	16"	18"	20"	24"
TEE	1.6	1.9	2.8	3.8	4.7	5.9	7.5	8.5	9.4	11.3
90° BEND	1.5	1.9	2.8	3.8	4.7	5.9	7.5	8.5	9.4	11.3
45° BEND	1.0	1.4	2.1	2.8	3.5	4.3	5.5	6.2	6.9	7.7
22 1/2° BEND	.8	1.0	1.5	2.0	2.5	3.1	4.0	4.5	4.9	5.5

TABLE "A" DIMENSIONS (IN FEET)

**THRUST BLOCK DETAIL**  
NTS



**3/4\"/>**



THIS DRAWING PREPARED AT THE  
**ELIZABETH CITY OFFICE**  
1805 West City Drive, Unit E | Elizabeth City, NC 27909  
TEL 252.621.3030 FAX 252.621.0974 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

DATE	REVISIONS PER TRC COMMENTS
11/05/2021	

DATE	DRAWN BY
11/10/2020	BCD

CHECKED BY	SCALE
KDH	NO SCALE

**TIMMONS GROUP**  
NORTH CAROLINA LICENSE NO. C-1652

**BOSWOOD ESTATES CONSTRUCTION DRAWINGS**  
CRAWFORD TOWNSHIP - CURRITUCK COUNTY - NORTH CAROLINA

UTILITY DETAILS

JOB NO.	SHEET NO.
44845	C5.4

S:\10944845 - Boswood Estates - Mathias Property - Bldg. - NC\DWG\Sheet\CD\44845-C5.4-DT\UTIL.dwg | Printed on 11/16/2021 10:28 AM | By: Kim Hainley

These plans and associated documents are the exclusive property of TIMMONS GROUP and may not be reproduced in whole or in part and shall not be used for any purpose whatsoever, inclusive, but not limited to construction, bidding, and/or construction staking without the express written consent of TIMMONS GROUP.