

CERTIFICATE OF OWNERSHIP AND DEDICATION

I HEREBY CERTIFY THAT I AM THE OWNER OF THE PROPERTY DESCRIBED HEREON, WHICH PROPERTY IS LOCATED WITHIN THE SUBDIVISION REGULATION JURISDICTION OF CURRITUCK COUNTY, THAT I HEREBY FREELY ADOPT THIS PLAT OF SUBDIVISION AND IRREVOCABLY DEDICATE TO PUBLIC USE ALL AREAS SHOWN ON THIS PLAT AS 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 A PRIVATE ROAD MAINTENANCE AGREEMENT IS EXECUTED BY ALL PROPERTY OWNERS IN THIS SUBDIVISION. 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

NOTARY CERTIFICATE

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 :

SURVEYORS CERTIFICATE

I, C. Robert Moore III, certify that this plat was drawn under my supervision from an actual survey made under my supervision from P.C. E, SL. 135; that the error of closure as calculated by latitudes and departures is 1:10,000 +, that the boundaries not actually surveyed are shown as broken lines plotted from information found in P.C. E, SL. 135, and that this plat was prepared in accordance with G.S. 47-30, as amended.

This survey creates a subdivision of land within an area of a County which has an ordinance that regulates subdivisions of land.

Witness my hand and seal this day of , 20

P.L.S. L-4184

REVIEW OFFICER CERTIFICATION
STATE OF NORTH CAROLINA
COUNTY OF CURRITUCK

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

DATE REVIEW OFFICER

ENGINEER CERTIFICATE FOR
PRIVATE STREETS

I HEREBY CERTIFY THAT THE PRIVATE STREETS SHOWN ON THIS PLAT ARE INTENDED FOR PRIVATE USE AND WILL REMAIN UNDER CONTROL, MAINTENANCE AND RESPONSIBILITY OF THE DEVELOPER AND/OR A HOMEOWNER'S ASSOCIATION AND THAT THEY HAVE BEEN COMPLETED IN ACCORDANCE WITH AT LEAST THE MINIMUM SPECIFICATIONS AND STANDARDS OF THE STATE DEPARTMENT OF TRANSPORTATION.

DATE LICENSED ENGINEER

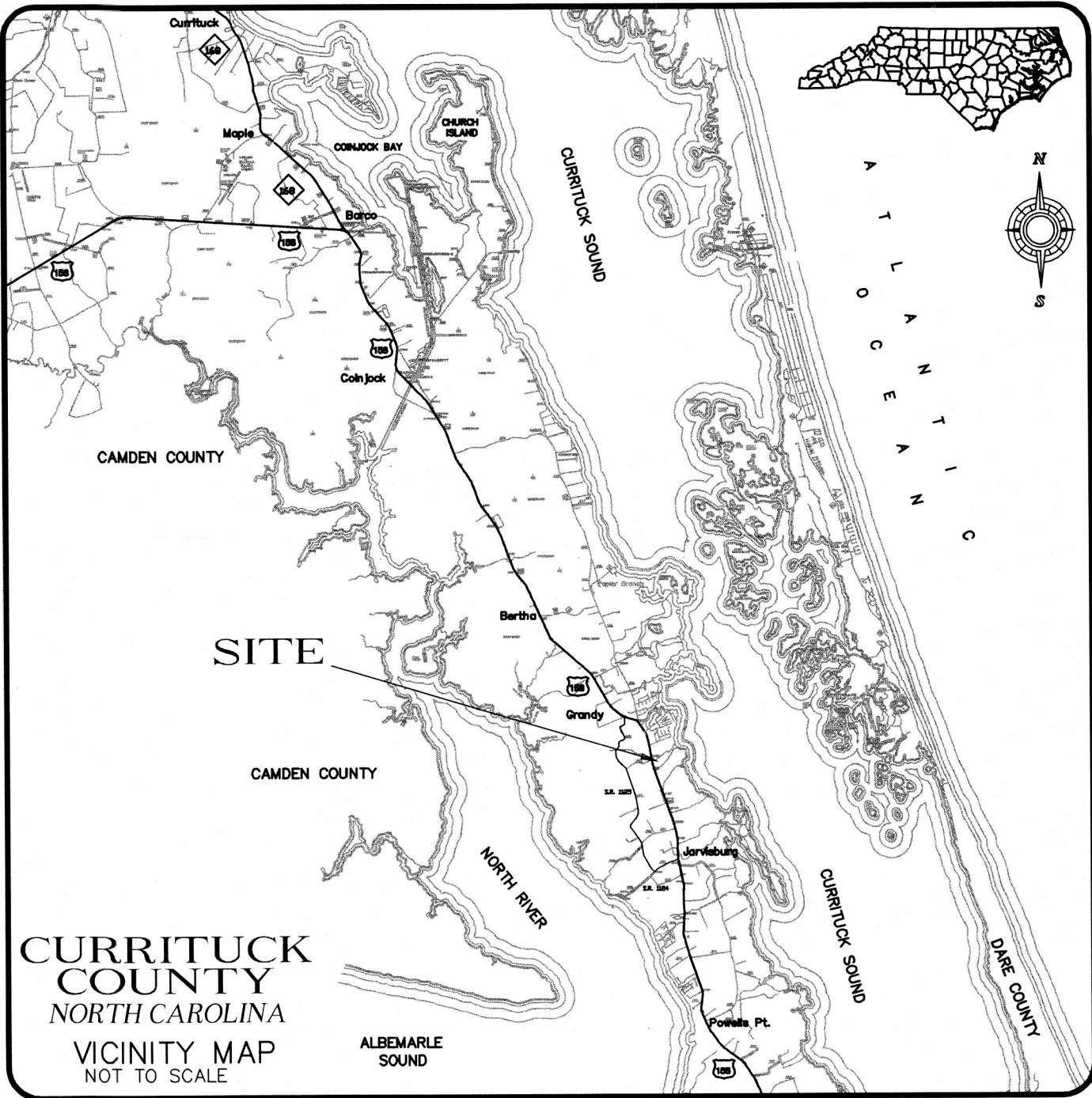
ENGINEER CERTIFICATE OF
STORMWATER IMPROVEMENTS

IN THE SUBDIVISION ENTITLED WATERSIDE VILLAGES, STORMWATER DRAINAGE IMPROVEMENTS HAVE BEEN INSTALLED ACCORDING TO PLANS AND SPECIFICATIONS PREPARED BY BISSELL PROFESSIONAL GROUP, AND APPROVED BY THE CURRITUCK COUNTY PLANNING BOARD. CURRITUCK COUNTY ASSUMES NO RESPONSIBILITY FOR THE DESIGN, MAINTENANCE OR THE GUARANTEED PERFORMANCE OF THE STORM WATER DRAINAGE IMPROVEMENTS AND THEIR EFFECTS.

REGISTERED LAND SURVEYOR/CIVIL ENGINEER

REGISTRATION NUMBER DATE

STORMWATER MANAGEMENT SYSTEMS SHALL BE MAINTAINED BY THE WATERSIDE VILLAGES PROPERTY OWNERS ASSOCIATION.



LEGEND

ECM	EXISTING CONCRETE MONUMENT
SIR	SET IRON ROD
ER	EXISTING IRON ROD
EP	EXISTING IRON PIPE
TP	TELEPHONE PEDESTAL
WV	WATER VALVE
FH	FIRE HYDRANT
M.B.L.	MAXIMUM BUILDING LIMIT
NTS	NOT TO SCALE
R/W	RIGHT OF WAY
EOP	EDGE OF PAVEMENT
C.L.	CENTERLINE
P.C.	PLAT CABINET
D.B.	DEED BOOK
SL	SIDE
SQ.FT.	SQUARE FEET
LOT LINE	
R/W LINE	
PHASE LINE	
SEWER LINE - M.H.	
WATER LINE	
TRAIL/BIKE PATH	
EOP W/CURB	
SIDEWALK	
STORM INLET	
FIRM ZONE LINE	
SOIL BOUNDARY	
STOP SIGN	
EXISTING POWER POLE	

PAD/F.F. ELEVATION SCHEDULE

LOT #	PAD ELEVATION	FFE
13-16	14.5'	14.67'
9-12,17	14.0'	14.17'
1-8, 18-28 42-43, 47-50	13.0'	13.17'
29-41, 44-46 51-53, 66-67	12.0'	12.17'
54-59, 68-72 76-77	11.5'	11.67'
60-62, 78	10.5'	10. 67'
63-65, 79-80 131-134	10.0'	10.17'
128-130, 132	9.5'	9.67'
83,125-127,132	9.0'	9.17'
81,90,124	8.5'	8.67'
82,84,89,93 121-123,144	8.0'	8.17'
85-88,91-92,94-95 100,11,119 138-143	7.5'	7.67'
96,101,102,106-108 110,117-118 136,148	7.0'	7.17'
109,114-116,135, 137,145-147	6.5'	6.67'
103-105,112-113	6.0'	6.17'

General Notes:

Applicant / Property Owner
WATERSIDE VILLAGES AT CURRITUCK
VOC, L.L.C.
P.O. Box 147
HARBINGER, N.C. 27941
252-453-0254

Engineer

Bissell Professional Group
Mark S. Bissell, P.E.
P.O. Box 1068
Kitty Hawk, N.C. 27949
(252) 261-3266
fax: (252) 261-1760
email: mark@bissellprofessionalgroup.com

PLANNING

SISK AURAND

-landscape architecture
-master planning
-site design

523 West 24th Street
Norfolk, Virginia 23517
757.627.1407
e-mail: doug@siskaurand.com

Subject Property
A 71.23 AC. TRACT OF LAND, LOCATED IN POPLAR BRANCH TOWNSHIP, CURRITUCK COUNTY, NORTH CAROLINA, AS DESCRIBED IN D.B. 0392 PG. 0355, CURRITUCK COUNTY REGISTRY
PIN NO 0108-000-022A-0000, 0108-000-0020-0000 AND 0108-000-0021-0000

Bissell Professional Group
3512 North Croatan Highway
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Kitty Hawk, North Carolina 27949
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BISSELL
PROFESSIONAL GROUP

Engineers, Planners, Surveyors
and Environmental Specialists

PROJECT:
WATERSIDE VILLAGES OF CURRITUCK
POPLAR BRANCH TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA
AMENDED PRELIMINARY PLAT PHASES 1-6

NO.	DATE	DESCRIPTION	BY
1	8-04	NOTES 1-13-19	QMW
2	3-05	NOTES 17-101	QMW
		AND 141-144	

"PRELIMINARY,
NOT FOR RECORDATION
OR CONSTRUCTION."

DATE: 7-15-04	SCALE: none
DESIGNED: BPG	CHECKED: CRM
DRAWN: QMW	APPROVED: BPG

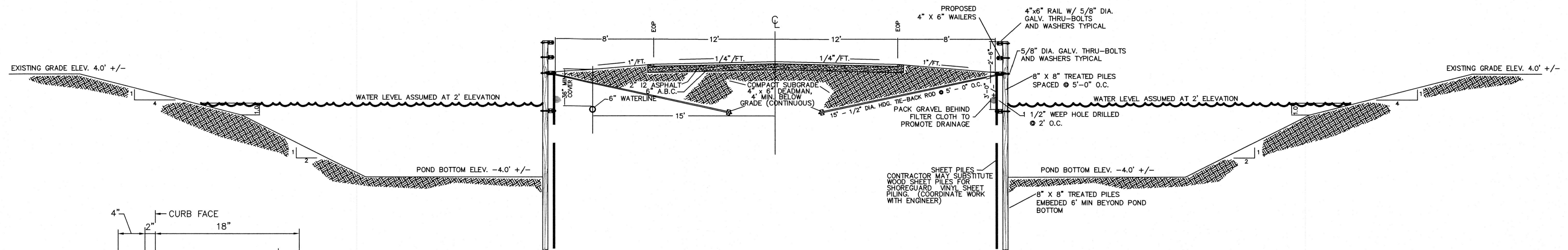
SHEET:

1 OF 10

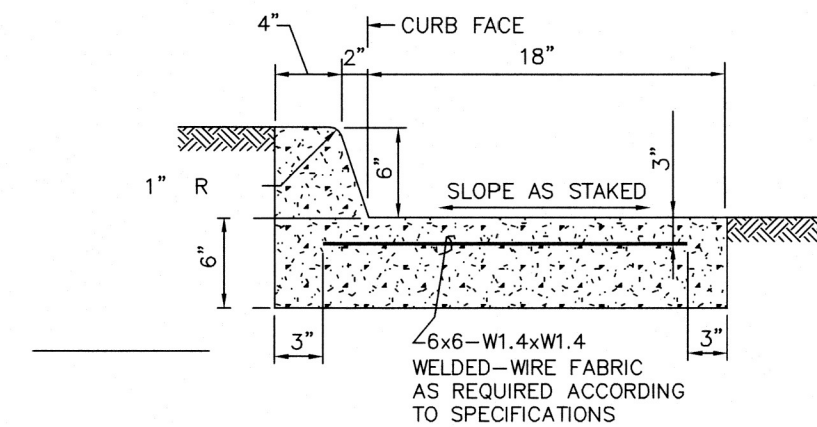
CAD FILE:
4018COVER

PROJECT NO:

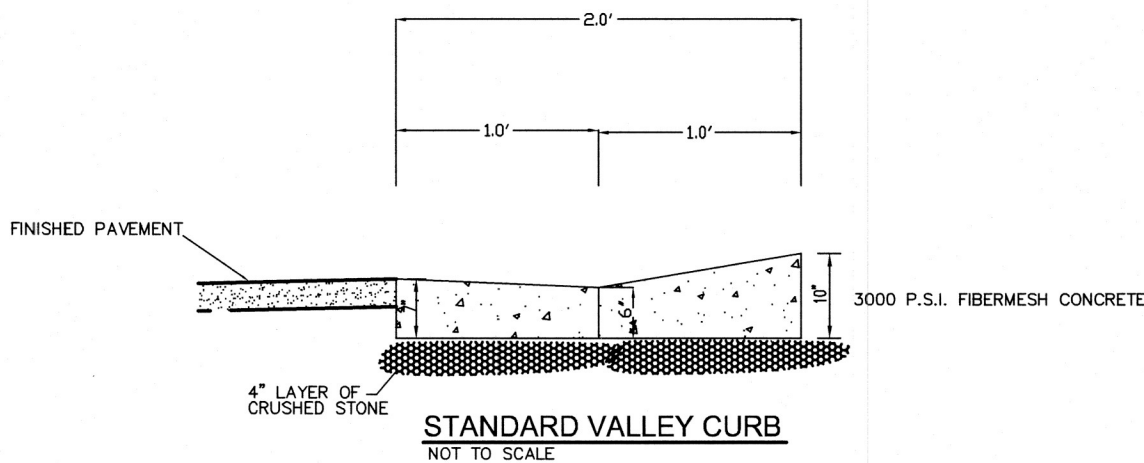
4018



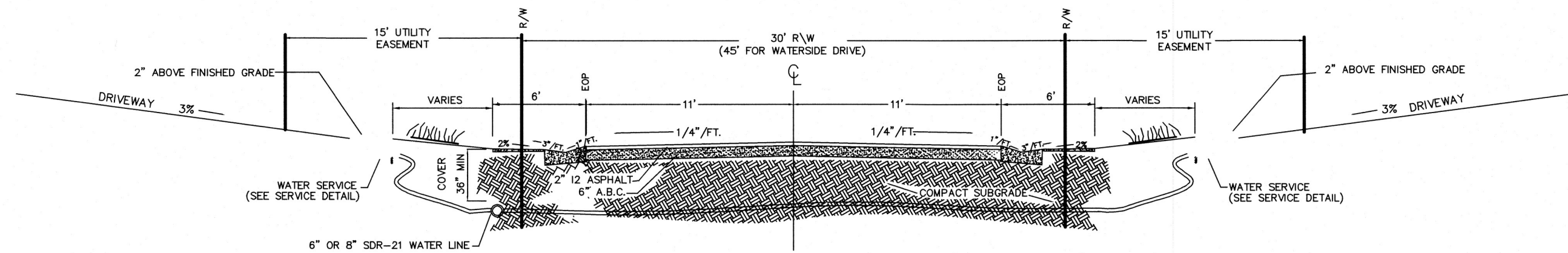
SECTION AT POND CROSSING
NOT TO SCALE
THIS SECTION IS TO BE UTILIZED AT THE POND CROSSING
AT THE ENTRANCE OF WATERSIDE VILLAGES OF CURRITUCK



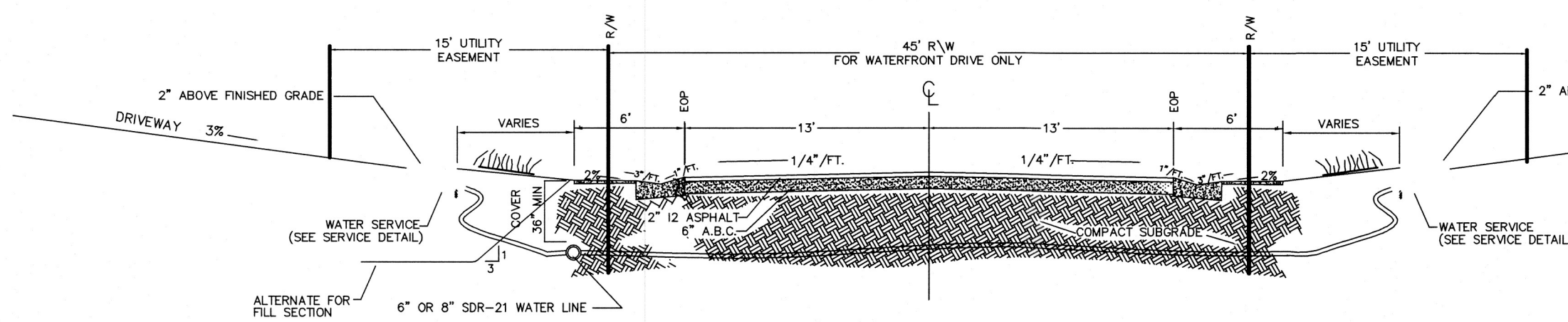
STANDARD CURB -- USED AT THE GUARD SHACK ISLAND
NOT TO SCALE



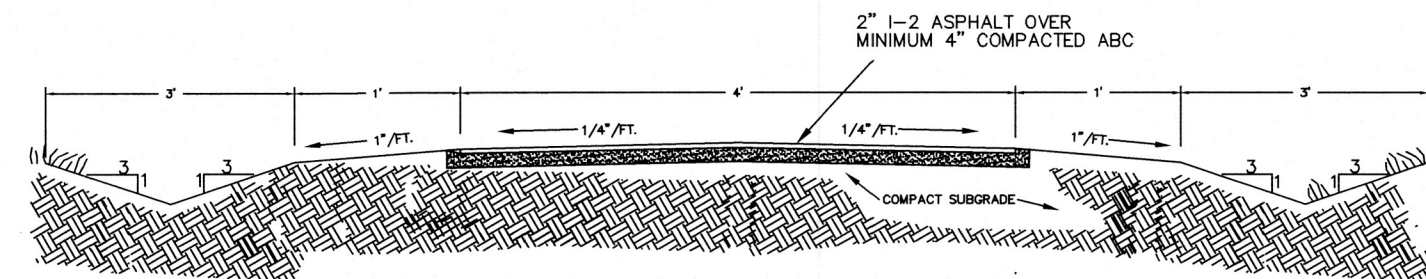
STANDARD VALLEY CURB
NOT TO SCALE



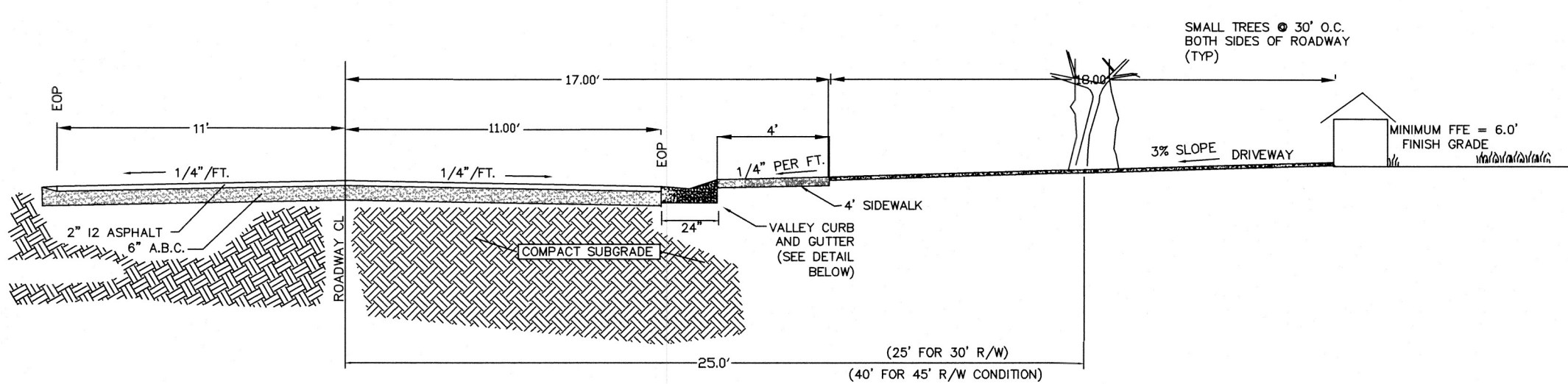
TYPICAL ROADWAY CROSS SECTION - 30' R/W
NOT TO SCALE



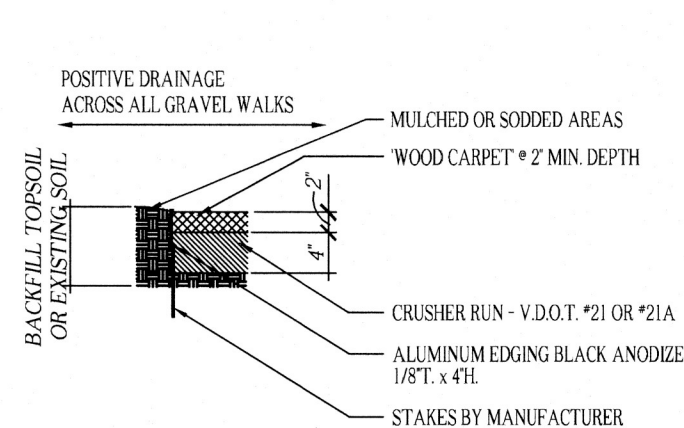
TYPICAL ROADWAY CROSS SECTION - 45' R/W
NOT TO SCALE



SECTION THRU TRAIL
NOT TO SCALE



TYPICAL CURB-SIDEWALK CROSS SECTION
NOT TO SCALE



ALTERNATE SECTION FOR TYPICAL TRAIL
NOT TO SCALE

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BISSELL
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and Environmental Specialists

PROJECT: WATERSIDE VILLAGES OF CURRITUCK
STREET SECTIONS
POPLAR BRANCH CURRITUCK COUNTY NORTH CAROLINA
AMENDED PRELIMINARY PLAT PHASES 1-6

NO.	DATE	DESCRIPTION	BY
1	12/04	REVISE TRAIL DETAIL	QMW
2	5/05	LOTS 97-101 AND LOTS 141-144	QMW

"PRELIMINARY,
NOT FOR RECORDATION
OR CONSTRUCTION."

DATE: 7-15-04 SCALE: AS NOTED

DESIGNED: QMW CHECKED: CRM

DRAWN: QMW APPROVED: BPG

SHEET: 2 OF 10

CAD FILE: 401801P1

PROJECT NO: 4018

- LEGEND**
- ECM □ = EXISTING CONCRETE MONUMENT
 SIR ○ = SET IRON ROD
 EIR ○ = EXISTING IRON ROD
 EIP ○ = EXISTING IRON PIPE
 △ = TELEPHONE PEDESTAL
 W = WATER VALVE
 F = FIRE HYDRANT
 M.B.L. = MAXIMUM BUILDING LIMIT
 NTS = NOT TO SCALE
 R/W = RIGHT OF WAY
 EOP = EDGE OF PAVEMENT
 C = CENTERLINE
 P.C. = PLAT CABINET
 D.B. = DEED BOOK
 SL = SLIDE
 SQ.FT. = SQUARE FEET

- = LOT LINE
 — = R/W LINE
 — = PHASE LINE
 — = SEWER LINE — M.H.
 — = WATER LINE
 — = TRAIL/BIKE PATH
 — = EOP W/CURB
 — = SIDEWALK
 — = STORM INLET
 — = FIRM ZONE LINE
 — = SOIL BOUNDARY
 □ = STOP SIGN



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WATERSIDE VILLAGES OF CURRITUCK
 POPLAR BRANCH CURRITUCK COUNTY NORTH CAROLINA
AMENDED PRELIMINARY PLAT PHASES 1-6

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	5-20-04	LOTS 92-101 AND 141-144	QMW

"PRELIMINARY,
 NOT FOR RECORDATION
 OR CONSTRUCTION."

DATE: 7-15-04 SCALE: 1"=50'

DESIGNED: CHECKED: CRM

DRAWN: QMW APPROVED: BPG

SHEET: 3 OF 10

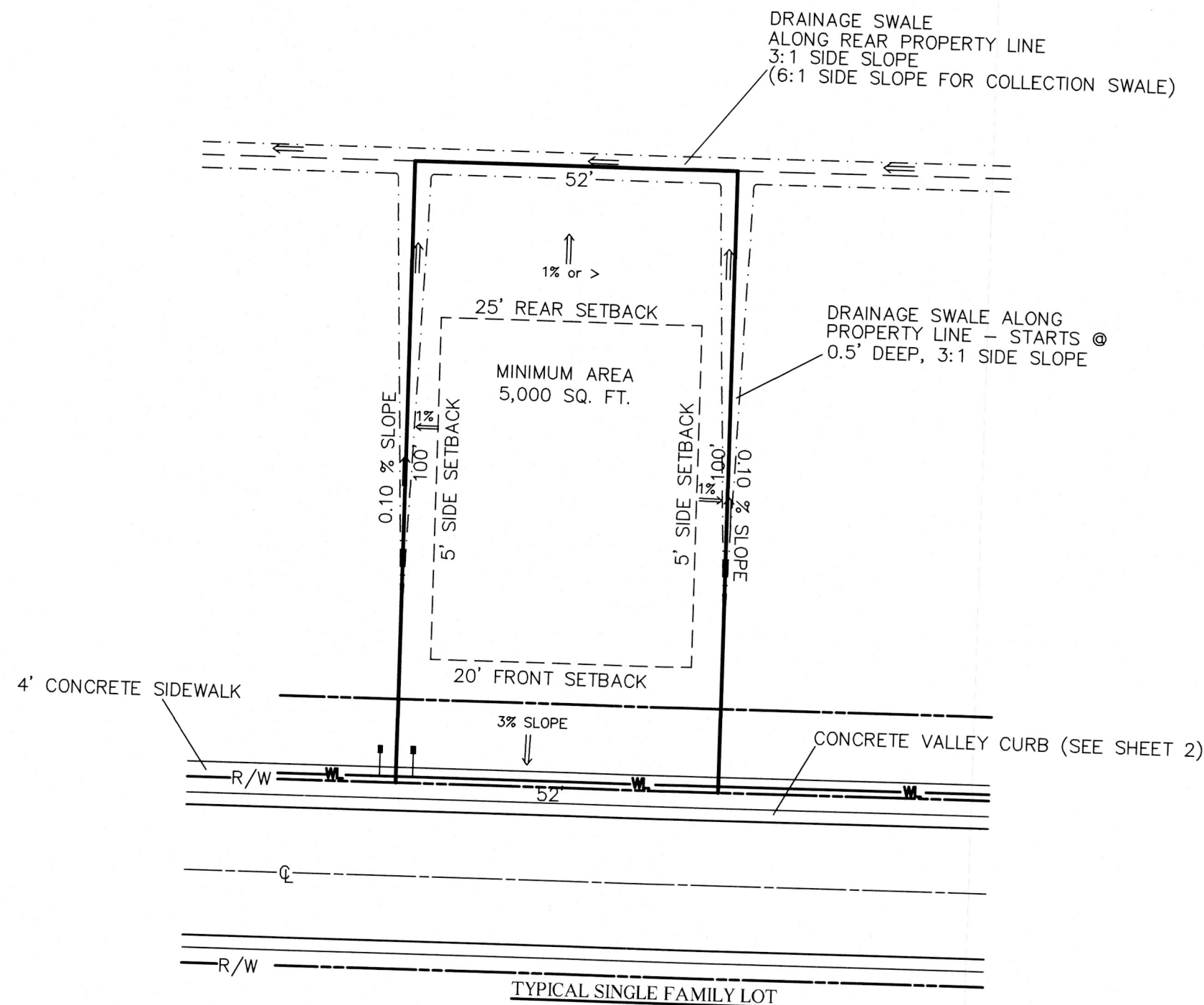
CAD FILE: 401801P1

PROJECT NO: 4018

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	25.00'	47.10'	40.44'	N 10°25'28" E	107°56'28"
C2	25.00'	39.27'	35.36'	S 88°32'52" E	90°00'13"
C3	60.00'	21.43'	21.32'	N 73°16'48" E	20°27'51"
C4	60.00'	39.42'	38.71'	S 77°40'05" E	37°38'22"
C5	60.00'	27.42'	27.18'	S 45°45'29" E	26°10'52"
C6	60.00'	35.35'	34.84'	S 15°47'29" E	33°45'08"
C7	60.00'	56.85'	54.75'	N 28°13'40" E	54°17'10"
C8	60.00'	62.28'	59.52'	N 85°06'25" E	59°28'21"
C9	60.00'	24.39'	24.22'	S 53°30'38" E	23°17'33"
C10	25.00'	40.01'	35.87'	S 87°42'25" E	91°41'07"
C11	25.00'	39.27'	35.35'	N 01°27'07" E	89°59'47"
C12	25.00'	31.44'	29.41'	S 79°34'32" E	72°03'32"
C13	392.50'	127.48'	126.92'	N 55°05'24" E	18°36'35"
C14	25.00'	25.65'	24.54'	S 86°13'01" E	58°46'35"
C15	25.00'	5.80'	5.78'	S 50°11'15" E	13°16'57"
C16	25.00'	15.21'	14.98'	S 26°06'42" E	34°52'07"
C17	25.00'	22.91'	22.11'	N 17°34'21" E	52°29'59"
C18	12.50'	19.63'	17.68'	N 88°49'20" E	90°00'00"
C19	12.50'	19.63'	17.68'	S 01°10'40" E	90°00'00"
C20	25.00'	40.42'	36.16'	S 89°51'43" E	92°37'54"
C21	25.00'	47.10'	40.44'	N 10°25'28" E	107°56'28"
C22	437.50'	142.10'	141.48'	N 55°05'24" E	18°36'35"
C23	25.00'	38.41'	34.74'	N 89°48'13" E	88°02'13"
C24	25.00'	39.27'	35.36'	S 01°10'40" E	90°00'00"
C25	25.00'	39.27'	35.36'	N 88°49'20" E	90°00'00"
C26	25.00'	40.13'	35.96'	S 00°11'47" E	91°57'47"
C27	25.00'	35.76'	32.79'	N 86°46'02" E	81°57'52"
C28	25.00'	2.65'	2.65'	S 49°12'51" E	06°04'22"
C29	25.00'	4.10'	4.10'	S 41°28'27" E	09°24'27"
C30	25.00'	35.17'	32.34'	N 03°31'48" E	80°36'03"
C31	12.50'	19.63'	17.68'	N 88°49'20" E	90°00'00"
C32	12.50'	19.63'	17.68'	S 01°10'25" E	90°00'30"
C33	25.00'	39.27'	35.35'	N 88°49'35" E	89°59'30"
C34	25.00'	40.13'	35.96'	S 00°11'47" E	91°57'47"
C35	25.00'	38.41'	34.74'	N 89°48'13" E	88°02'13"
C36	25.00'	39.27'	35.36'	S 01°10'25" E	90°00'30"
C37	12.50'	19.63'	17.68'	N 88°49'20" E	90°00'00"
C38	12.50'	19.63'	17.68'	S 01°10'40" E	90°00'00"
C39	25.00'	39.27'	35.35'	N 88°49'35" E	89°59'30"
C40	25.00'	40.13'	35.96'	S 00°11'47" E	91°57'47"
C41	322.50'	92.84'	92.52'	N 37°32'18" E	16°29'38"
C42	25.00'	45.61'	39.54'	N 81°33'24" E	104°31'52"
C43	25.00'	2.50'	2.50'	S 43°18'40" E	05°43'59"
C44	25.00'	36.77'	33.54'	N 01°41'20" E	84°16'01"
C45	25.00'	39.27'	35.36'	N 88°49'20" E	90°00'00"
C46	25.00'	32.51'	30.27'	S 08°55'21" E	74°30'39"
C47	447.50'	42.55'	42.53'	N 31°03'24" E	05°26'51"
C48	25.00'	43.65'	38.31'	N 83°48'05" E	100°02'30"
C49	25.00'	39.27'	35.36'	S 01°10'40" E	90°00'00"
C50	25.00'	39.27'	35.36'	N 88°49'20" E	90°00'00"
C51	52.50'	82.47'	74.25'	N 88°49'18" E	90°00'05"
C52	22.50'	35.34'	31.82'	N 88°49'18" E	23°17'18"
C53	277.50'	112.79'	112.02'	N 34°08'28" E	11°17'01"
C54	492.50'	96.99'	96.83'	S 04°52'58" E	77°19'36"
C55	25.00'	33.74'	31.24'	N 85°07'02" E	102°40'24"
C56	25.00'	34.89'	32.13'	S 06°11'55" E	79°57'30"
C57	25.00'	44.80'	39.04'	N 85°07'02" E	102°40'24"
C58	25.00'	43.68'	38.33'	N 83°49'55" E	100°06'12"
C59	25.00'	33.74'	31.24'	S 04°52'58" E	77°19'36"
C60	25.00'	44.80'	39.04'	N 85°07'02" E	102°40'24"
C61	25.00'	34.86'	32.10'	S 06°10'05" E	79°53'48"
C62	25.00'	39.32'	35.39'	N 88°49'41" E	90°06'41"
C63	25.00'	39.22'	35.32'	S 01°10'19" E	89°53'19"
C64	52.50'	82.46'	74.24'	S 01°10'25" E	89°59'21"
C65	22.50'	35.34'	31.82'	S 01°10'25" E	89°59'21"
C66	25.00'	43.65'	38.31'	N 83°48'05" E	100°02'30"
C67	25.00'	33.74'	31.24'	S 04°52'58" E	77°19'36"
C68	25.00'	44.80'	39.04'	N 85°07'02" E	102°40'24"
C69	25.00'	34.89'	32.13'	S 06°11'55" E	79°57'30"
C70	25.00'	39.25'	35.34'	S 01°12'10" E	89°57'00"
C71	25.00'	39.29'	35.37'	N 88°47'50" E	90°03'00"
C72	25.00'	0.55'	0.55'	N 44°26'53" E	01°15'06"
C73	25.00'	38.72'	34.97'	N 89°26'53" E	88°44'54"
C74	25.00'	36.84'	33.60'	N 85°59'29" E	84°26'19"
C75	25.00'	2.45'	2.45'	S 48°59'01" E	05°36'41"
C76	25.00'	37.63'	34.17'	S 00°25'49" E	86°13'54"
C77	25.00'	1.64'	1.64'	N 44°34'05" E	03°45'53"
C78	25.00'	32.71'	30.42'	N 83°55'48" E	74°57'34"
C79	25.00'	6.56'	6.55'	S 51°04'05" E	15°02'39"
C80	25.00'	32.69'	30.41'	N 08°59'07" E	74°55'47"
C81	25.00'	6.57'	6.56'	S 36°00'46" E	15°04'00"
C82	25.00'	6.58'	6.56'	S 51°05'08" E	15°04'44"
C83	25.00'	32.69'	30.41'	N 83°54'46" E	74°55'29"
C84	25.00'	32.68'	30.40'	N 09°00'10" E	74°53'42"
C85	25.00'	6.59'	6.57'	S 35°59'44" E	15°06'05"
C86	25.00'	39.27'	35.36'	S 88°32'53" E	90°00'13"
C87	392.50'	117.54'	117.10'	N 55°48'56" E	17°09'31"
C88	25.00'	9.94'	9.94'	N 46°30'39" E	01°27'04"
C89	25.00'	38.56'	34.85'	S 10°24'22" E	88°22'24"
C90	25.00'	39.98'	35.86'	N 79°35'47" E	91°37'56"
C91	25.00'	8.15'	8.12'	S 10°24'13" E	88°22'04"
C92	25.00'	31.07'	29.11'	N 34°25'48" E	18°41'03"
				S 10°30'51" E	71°12'16"

LINE	BEARING	DISTANCE
L1	N 46°27'01" E	1.50'
L2	N 00°10'05" W	13.24'
L3	N 00°10'05" W	57.33'
L4	N 73°23'54" E	40.13'
L5	S 46°27'01" W	5.52'
L6	S 72°22'11" E	5.12'
L7	N 46°10'40" W	8.35'
L8	S 43°49'20" W	25.02'
L9	N 43°49'20" E	25.02'
L10	N 46°10'40" W	6.69'
L11	N 43°49'20" E	4.00'
L12	N 64°23'42" E	24.81'
L13	N 46°10'40" W	8.35'
L14	S 43°49'20" W	25.02'
L15	N 43°49'20" E	25.02'
L16	N 46°10'40" W	6.69'
L17	S 46°10'40" E	8.35'
L18	N 43°49'20" E	25.02'
L19	S 43°49'20" W	25.02'
L20	S 46°10'40" E	6.69'
L21	S 72°28'01" E	40.44'
L22	N 33°46'50" E	13.42'
L23	S 56°13'10" E	30.00'
L24	S 33°46'50" W	15.70'
L25	S 54°35'15" E	13.18'

- LEGEND**
- ECM = EXISTING CONCRETE MONUMENT
SIR = SET IRON ROD
EIR = EXISTING IRON ROD
EIP = EXISTING IRON PIPE
△ = TELEPHONE PEDESTAL
WV = WATER VALVE
FH = FIRE HYDRANT
M.B.L. = MAXIMUM BUILDING LIMIT
NTS = NOT TO SCALE
R/W = RIGHT OF WAY
EOP = EDGE OF PAVEMENT
CL = CENTERLINE
P.C. = PLAT CABINET
D.B. = DEED BOOK
SL = SLIDE
SQ.FT. = SQUARE FEET
- = LOT LINE
— = R/W LINE
— = PHASE LINE
— = SEWER LINE - M.H.
— = WATER LINE
— = TRAIL/BIKE PATH
— = EOP W/CURB
— = SIDEWALK
— = STORM INLET
— = FIRM ZONE LINE
— = SOIL BOUNDARY
□ = STOP SIGN
— = EXISTING POWER POLE



TYPICAL LOT PLAN
NOT TO SCALE PLAN VIEW
MAXIMUM LOT COVERAGE : 60%

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Kitty Hawk, North Carolina 27949
(252) 261-3266
FAX (252) 261-1760

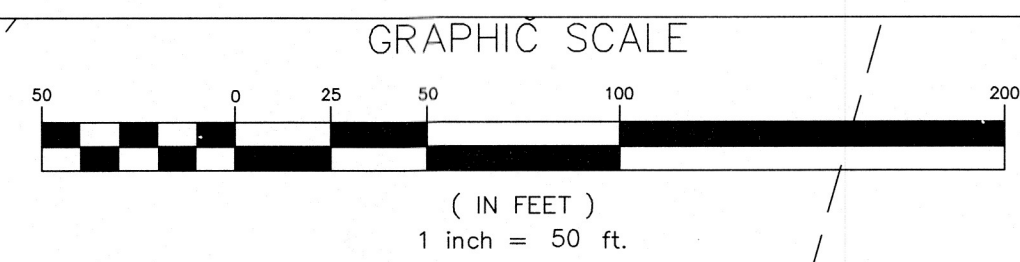
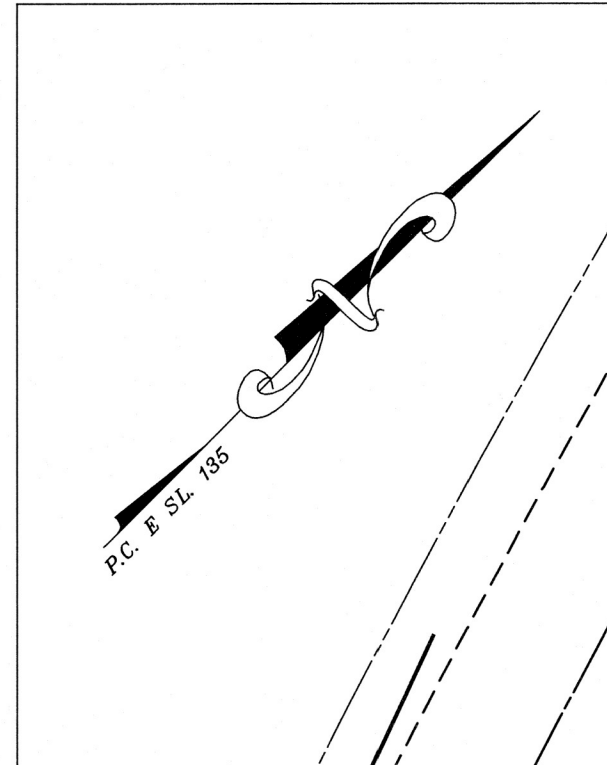
BISSELL
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and Environmental Specialists

WATERSIDE VILLAGES OF CURRITUCK
POPULAR BRANCH CURRITUCK COUNTY NORTH CAROLINA
AMENDED PRELIMINARY PLAT PHASES 1-6

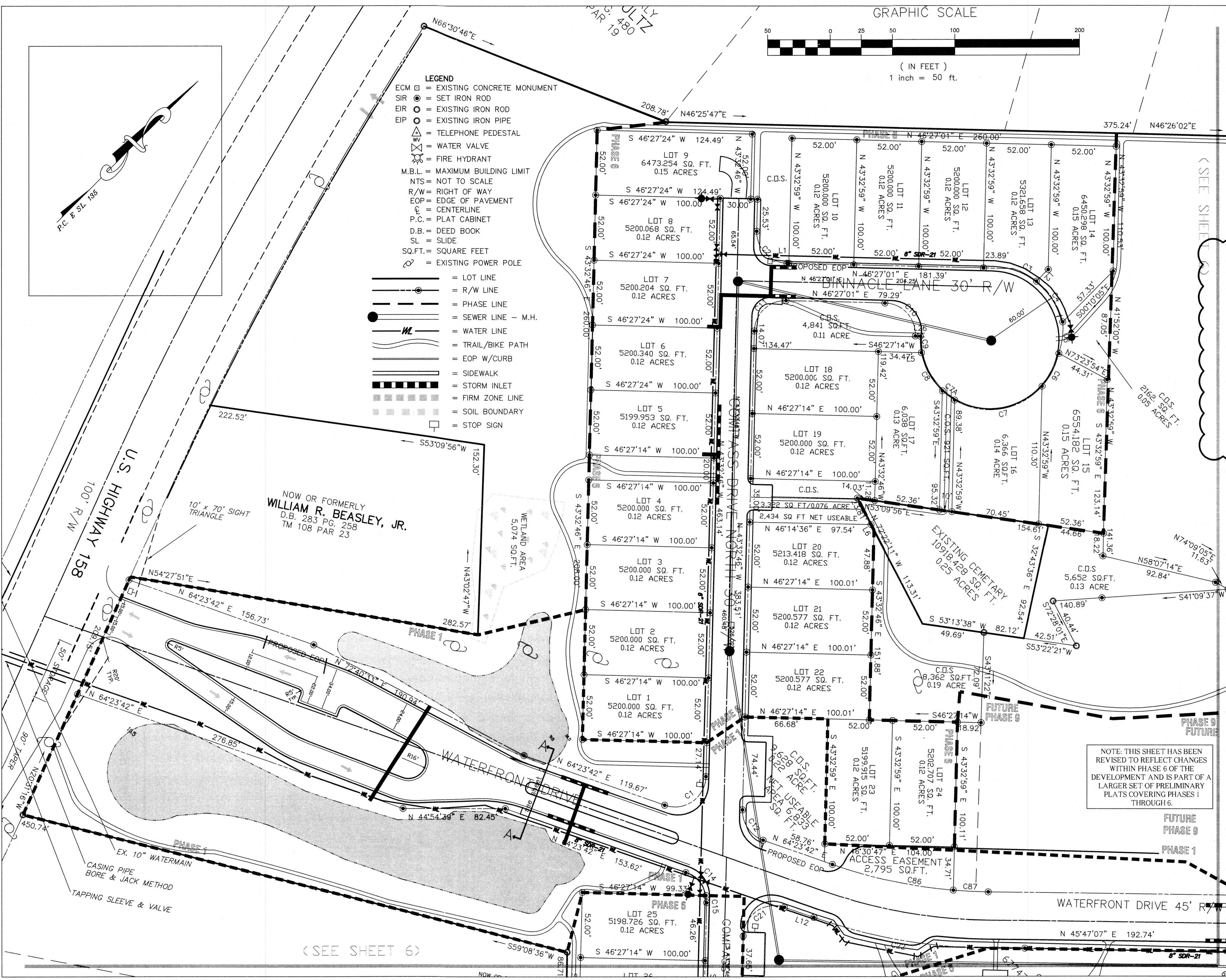
NO.	DATE	DESCRIPTION	BY
1	5-05	LOTS 97-101 AND 141-144	QMW

"PRELIMINARY,
NOT FOR RECORDATION
OR CONSTRUCTION."

DATE:	7-15-04	SCALE:	1"=50'
DESIGNED:		CHECKED:	CRM
DRAWN:	QMW	APPROVED:	BPG
SHEET:	4	of	10
CAD FILE:	401801P1		
PROJECT NO:	4018		



- LEGEND**
- ECM = EXISTING CONCRETE MONUMENT
 - SIR = SET IRON ROD
 - EIR = EXISTING IRON ROD
 - EIP = EXISTING IRON PIPE
 - TP = TELEPHONE PEDESTAL
 - WV = WATER VALVE
 - FH = FIRE HYDRANT
 - M.B.L. = MAXIMUM BUILDING LIMIT
 - NTS = NOT TO SCALE
 - R/W = RIGHT OF WAY
 - EOP = EDGE OF PAVEMENT
 - C.L. = CENTERLINE
 - P.C. = PLAT CABINET
 - D.B. = DEED BOOK
 - SL = SLIDE
 - SQ.FT. = SQUARE FEET
 - EP = EXISTING POWER POLE
-
- = LOT LINE
 - - - = R/W LINE
 - - - = PHASE LINE
 - - - = SEWER LINE - M.H.
 - - - = WATER LINE
 - - - = TRAIL/BIKE PATH
 - - - = EOP W/CURB
 - - - = SIDEWALK
 - - - = STORM INLET
 - - - = FIRM ZONE LINE
 - - - = SOIL BOUNDARY
 - - - = STOP SIGN



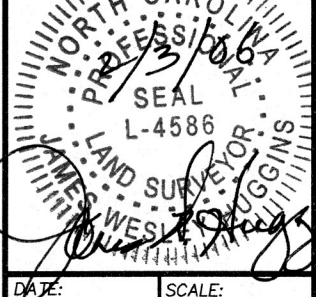
NOTE: THIS SHEET HAS BEEN REVISED TO REFLECT CHANGES WITHIN PHASE 6 OF THE DEVELOPMENT AND IS PART OF A LARGER SET OF PRELIMINARY PLATS COVERING PHASES 1 THROUGH 6.

Bissell Professional Group
352 Northwood Highway
Kitty Hawk, North Carolina 27949
(252) 261-3266
FAX (252) 261-1760



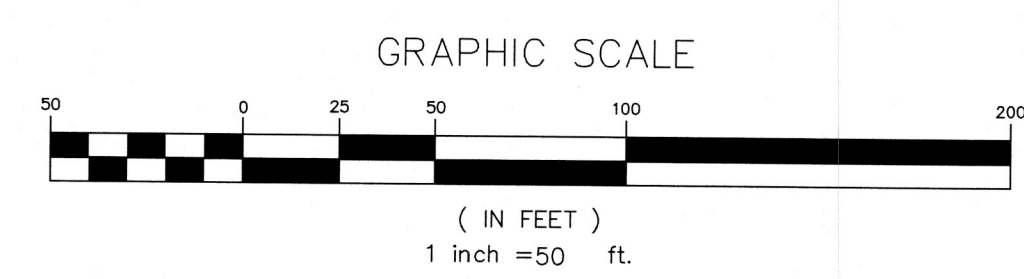
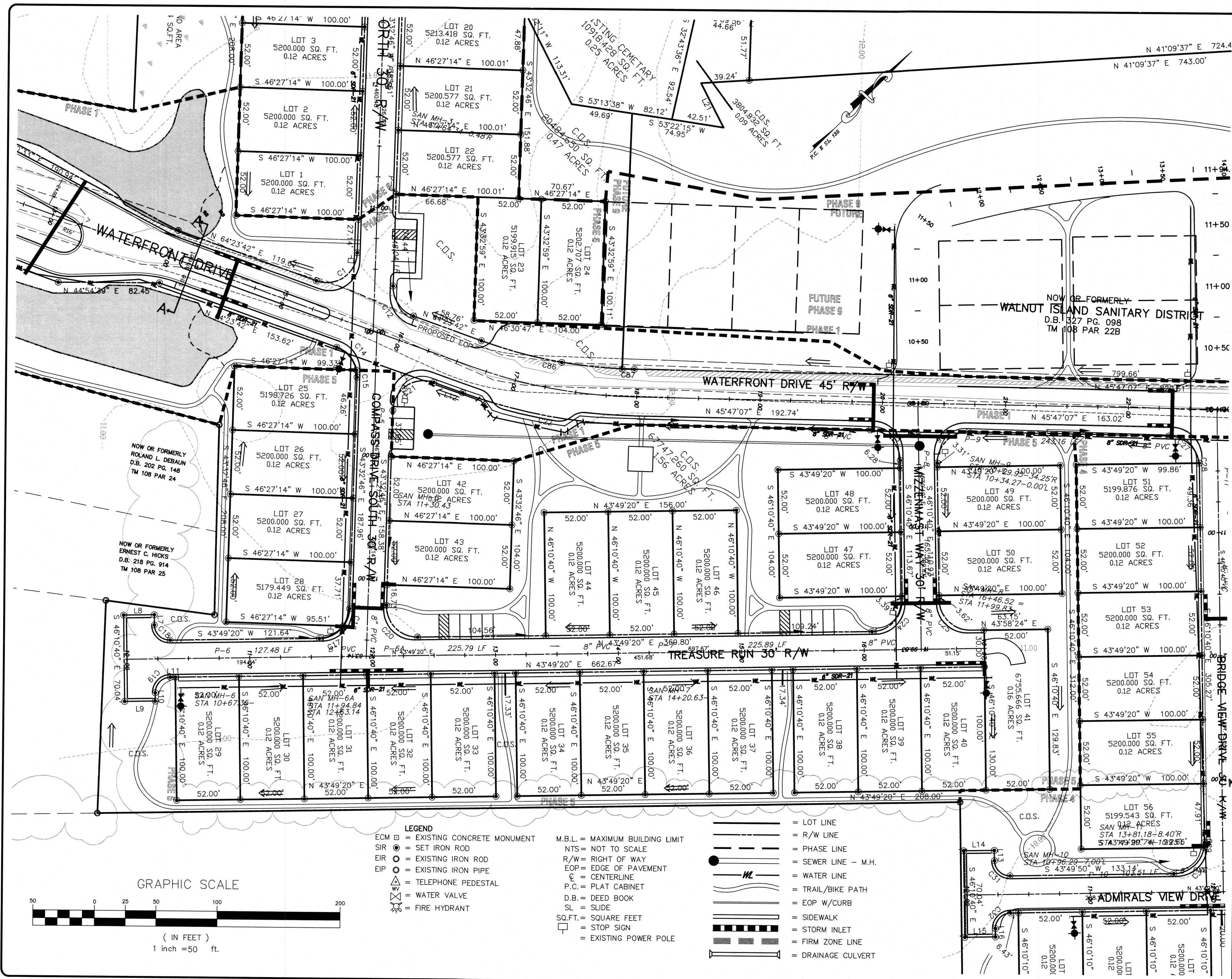
PROJECT: **WATERSIDE VILLAGES OF CURRITUCK**
POPULAR BRANCH CURRITUCK COUNTY NORTH CAROLINA
AMENDED PRELIMINARY PLAT PHASES 1-6

REVISIONS	
NO.	DESCRIPTION
1	BY DATE
2	BY DATE
3	BY DATE
4	BY DATE
5	BY DATE
6	BY DATE
7	BY DATE
8	BY DATE
9	BY DATE
10	BY DATE



DATE: 7-15-04
SCALE: 1"=50'
DESIGNED: QMW
CHECKED: CRM
DRAWN: QMW
APPROVED: BPG

SHEET: **5** OF **10**
CAD FILE: 401801P1
PROJECT NO: **4018**



- LEGEND**
- ECM □ = EXISTING CONCRETE MONUMENT
 - SIR ○ = SET IRON ROD
 - EIR ○ = EXISTING IRON ROD
 - EIP ○ = EXISTING IRON PIPE
 - △ = TELEPHONE PEDESTAL
 - ⊕ = WATER VALVE
 - ⊙ = FIRE HYDRANT
 - M.B.L. = MAXIMUM BUILDING LIMIT
 - NTS = NOT TO SCALE
 - R/W = RIGHT OF WAY
 - EOP = EDGE OF PAVEMENT
 - C = CENTERLINE
 - P.C. = PLAT CABINET
 - D.B. = DEED BOOK
 - SL = SLIDE
 - SQ.FT. = SQUARE FEET
 - = STOP SIGN
 - = EXISTING POWER POLE
 - = LOT LINE
 - = R/W LINE
 - = PHASE LINE
 - = SEWER LINE - M.H.
 - = WATER LINE
 - = TRAIL/BIKE PATH
 - = EOP W/CURB
 - = SIDEWALK
 - = STORM INLET
 - = FIRM ZONE LINE
 - = DRAINAGE CULVERT

Bissell Professional Group
 3012 North Croatan Highway
 Kitty Hawk, North Carolina 27949
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 FAX (252) 261-1780

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 and Environmental Specialists

WATERSIDE VILLAGES OF CURRITUCK
 POPLAR BRANCH
 CURRITUCK COUNTY NORTH CAROLINA

AMENDED PRELIMINARY PLAT PHASES 1-6

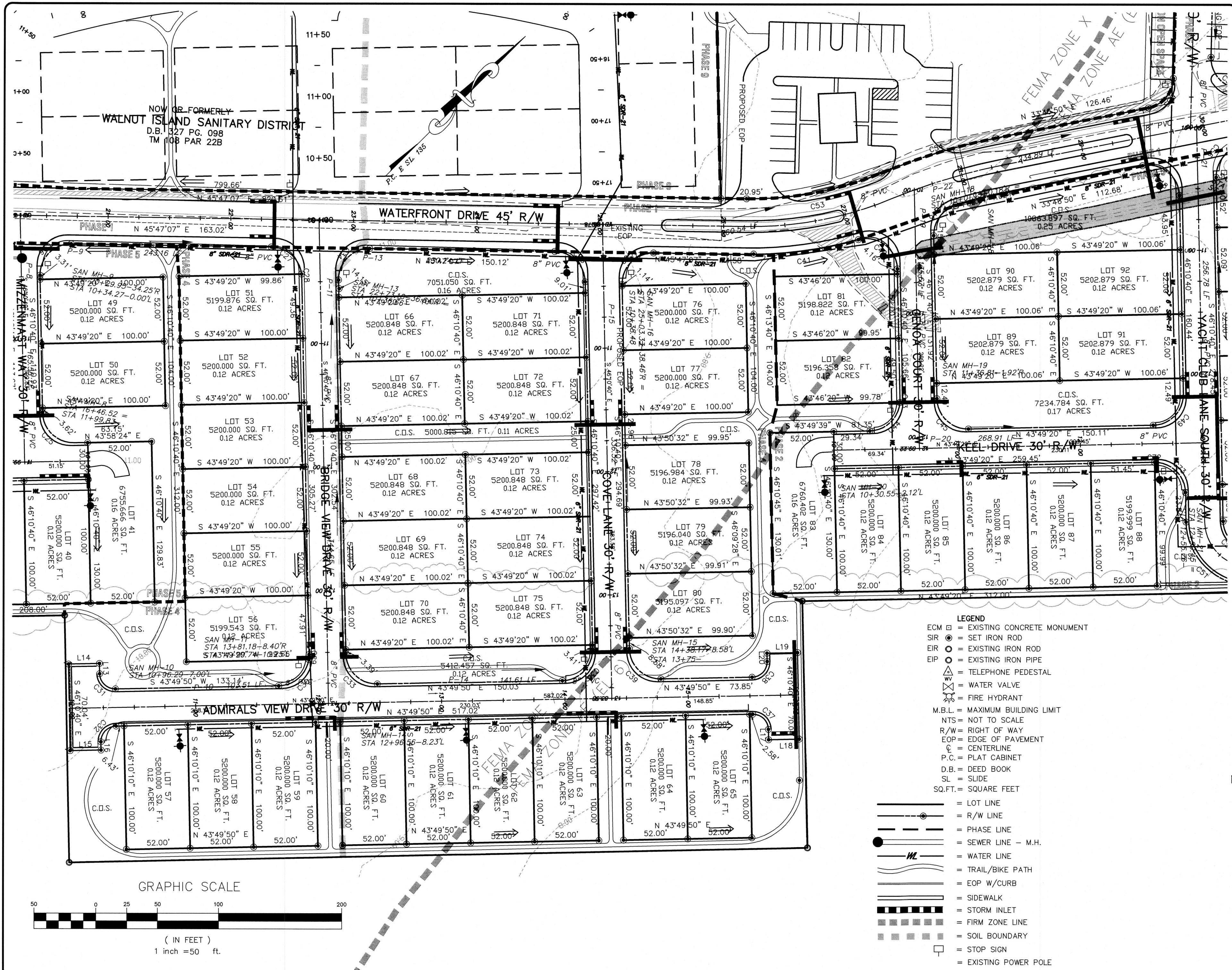
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NO.	DATE	BY	DESCRIPTION
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"PRELIMINARY, NOT FOR RECORDATION OR CONSTRUCTION."

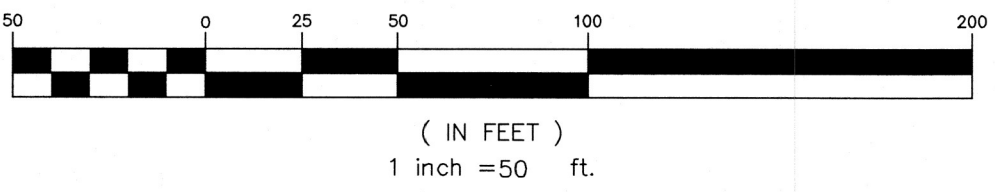
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 DESIGNED: OMW
 DRAWN: OMW
 SHEET: 6 OF 10

SCALE: 1"=50'
 CHECKED: CRM
 APPROVED: BPG
 CAD FILE: 401801P1
 PROJECT NO: 4018



NOW OR FORMERLY
WALNUT ISLAND SANITARY DISTRICT
D.B. 327 PG. 098
TM 108 PAR 22B

GRAPHIC SCALE



- LEGEND**
- ECM = EXISTING CONCRETE MONUMENT
 - SIR = SET IRON ROD
 - EIR = EXISTING IRON ROD
 - EIP = EXISTING IRON PIPE
 - TP = TELEPHONE PEDESTAL
 - WV = WATER VALVE
 - FH = FIRE HYDRANT
 - M.B.L. = MAXIMUM BUILDING LIMIT
 - NTS = NOT TO SCALE
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 - - - = SIDEWALK
 - - - = STORM INLET
 - - - = FIRM ZONE LINE
 - - - = SOIL BOUNDARY
 - = STOP SIGN
 - = EXISTING POWER POLE

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Kitty Hawk, North Carolina 27949
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and Environmental Specialists

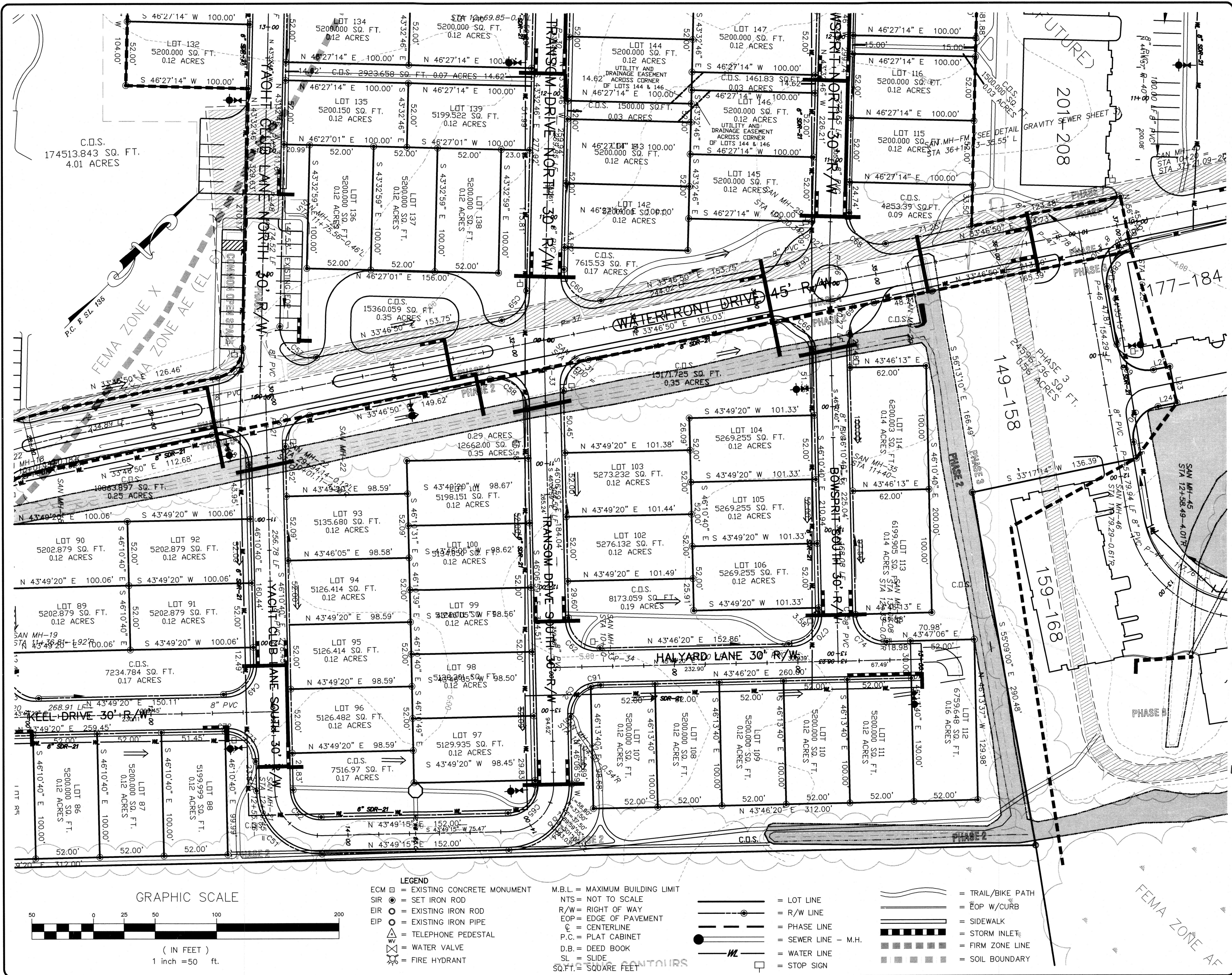
PROJECT: **WATERSIDE VILLAGES OF CURRITUCK**
POPULAR BRANCH CURRITUCK COUNTY NORTH CAROLINA
AMENDED PRELIMINARY PLAT PHASES 1-6

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	7-15-04	LOIS 57-101 AND 141-144	QMW

"PRELIMINARY,
NOT FOR RECORDATION
OR CONSTRUCTION."

DATE:	7-15-04	SCALE:	1"=50'
DESIGNED:		CHECKED:	CRM
DRAWN:	QMW	APPROVED:	BPG
SHEET:	7	OF	10
CAD FILE:	401801P1		
PROJECT NO:	4018		



Bissell Professional Group
 1012 North Carolina Highway
 Kitty Hawk, North Carolina 27949
 (252) 261-3266
 FAX (252) 261-1760

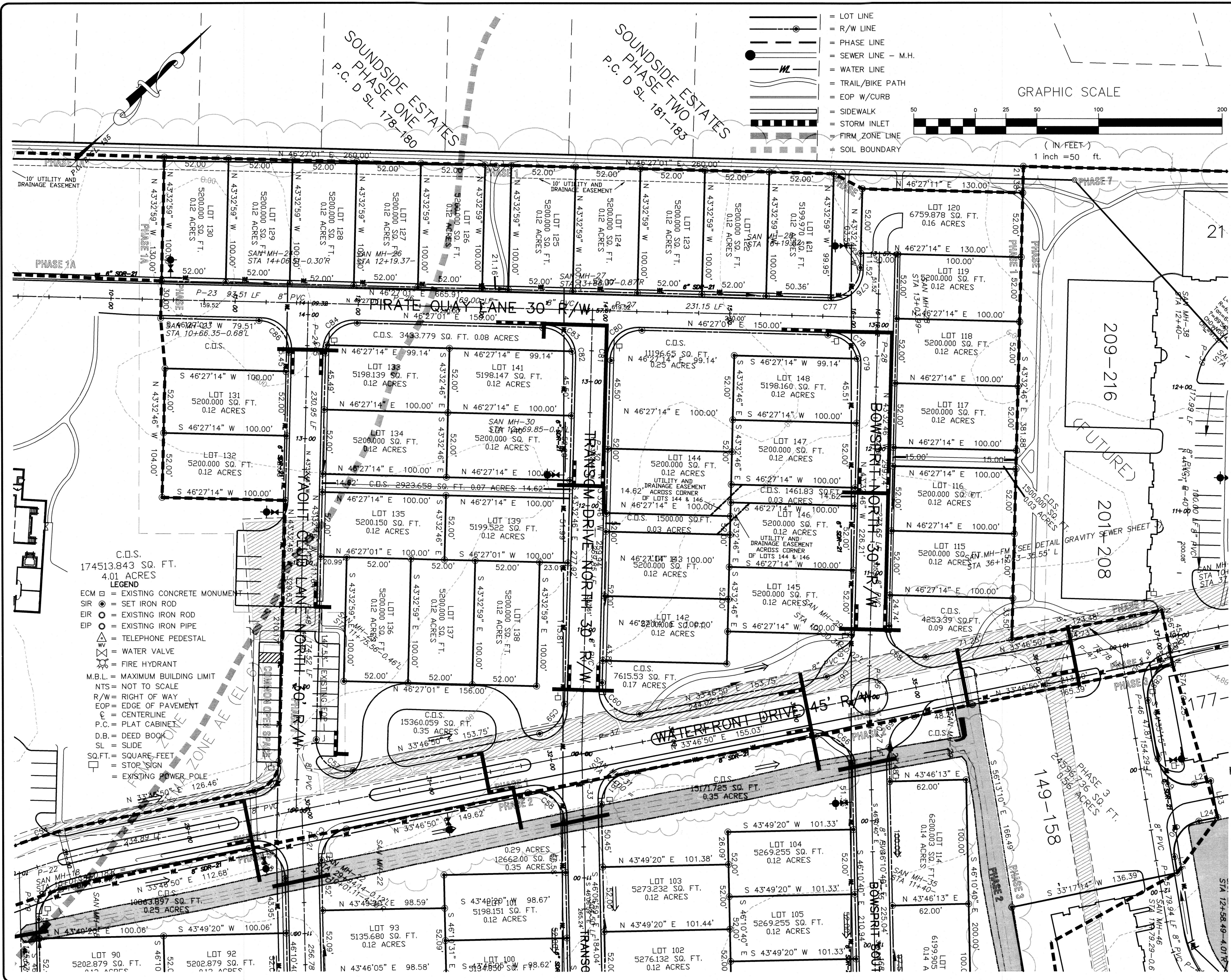
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PROJECT: **WATERSIDE VILLAGES OF CURRITUCK**
 POPLAR BRANCH CURRITUCK COUNTY NORTH CAROLINA
AMENDED PRELIMINARY PLAT PHASES 1-6

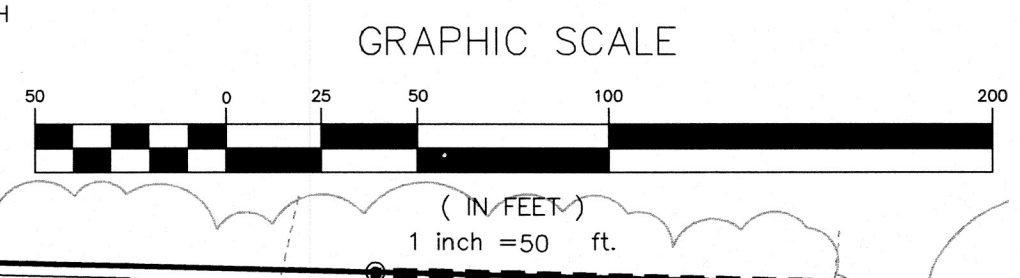
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6	BY: [Signature]
7	DATE: 7-15-04
8	BY: [Signature]
9	DATE: 7-15-04
10	BY: [Signature]

"PRELIMINARY,
 NOT FOR RECORDATION
 OR CONSTRUCTION."

DATE: 7-15-04 SCALE: 1"=50'
 DESIGNED: [Signature] CHECKED: CRM
 DRAWN: QMW APPROVED: BPG
 SHEET: **8** OF **10**
 CAD FILE: 401801P1
 PROJECT NO: **4018**



- = LOT LINE
- = R/W LINE
- = PHASE LINE
- = SEWER LINE - M.H.
- = WATER LINE
- = TRAIL/BIKE PATH
- = EOP W/CURB
- = SIDEWALK
- = STORM INLET
- = FIRM_ZONE LINE
- = SOIL BOUNDARY



- C.D.S.
174513.843 SQ. FT.
4.01 ACRES
- LEGEND
- ECM = EXISTING CONCRETE MONUMENT
 - SIR = SET IRON ROD
 - EIR = EXISTING IRON ROD
 - EIP = EXISTING IRON PIPE
 - TP = TELEPHONE PEDESTAL
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 - D.B. = DEED BOOK
 - SL = SLIDE
 - SQ.FT. = SQUARE-FOOT
 - STOP SIGN
 - EXISTING POWER POLE

Bissell Professional Group
10000 Highway
P.O. Box 10000
Kitty Hawk, North Carolina 27949
(252) 261-3266
FAX (252) 261-1760

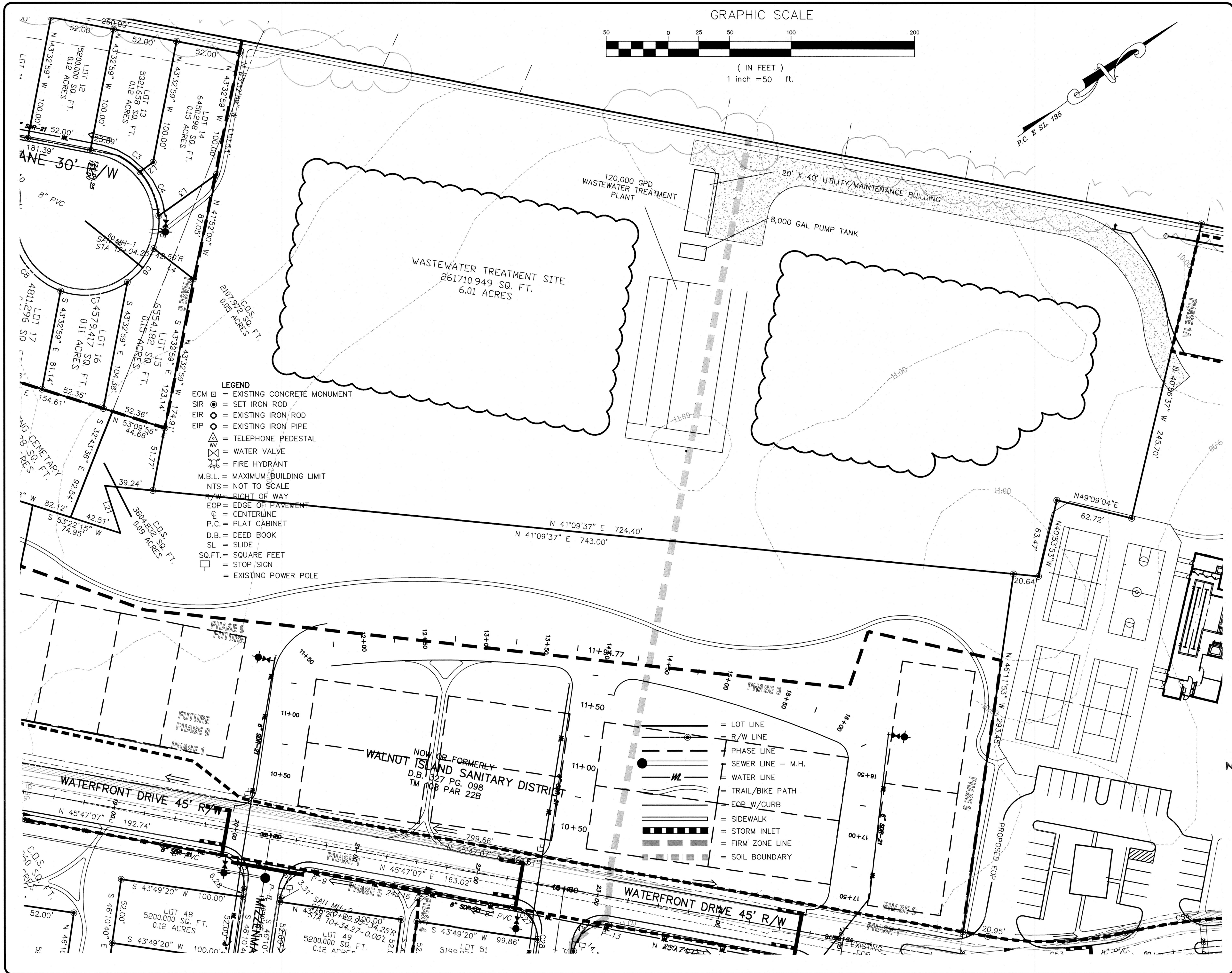
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WATERSIDE VILLAGES OF CURRITUCK
POPLAR BRANCH CURRITUCK COUNTY NORTH CAROLINA
AMENDED PRELIMINARY PLAT PHASES 1-6

REVISIONS	
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199	DESCRIPTION: LOT 141 AND 142
200	DATE: 7-15-04

"PRELIMINARY,
NOT FOR RECORDATION
OR CONSTRUCTION."

DATE:	7-15-04	SCALE:	1"=50'
DESIGNED:		CHECKED:	CRM
DRAWN:	QMW	APPROVED:	BPG
SHEET:	9	OF	10
CAD FILE:	401801P1		
PROJECT NO:	4018		



Bissell Professional Group
3512 North Croatan Highway
P.O. Box 1068
Kitty Hawk, North Carolina 27949
(252) 261-1265
FAX (252) 261-1760

BISSELL
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Engineers, Planners, Surveyors
and Environmental Specialists

WATERSIDE VILLAGES OF CURRITUCK
POPLAR BRANCH CURRITUCK COUNTY NORTH CAROLINA
AMENDED PRELIMINARY PLAT PHASES 1-6

REVISIONS		
NO.	DATE	DESCRIPTION
1	5-05	LOT 12-17
2	5-05	LOT 18-21
3	5-05	LOT 22-25
4	5-05	LOT 26-29
5	5-05	LOT 30-33
6	5-05	LOT 34-37
7	5-05	LOT 38-41
8	5-05	LOT 42-45
9	5-05	LOT 46-49
10	5-05	LOT 50-51

"PRELIMINARY,
NOT FOR RECORDATION
OR CONSTRUCTION"

DATE: 7-15-04 SCALE: 1"=50'
DESIGNED: QMW CHECKED: CRM
DRAWN: QMW APPROVED: BPG
SHEET: 10 OF 10
CAD FILE: 401801P1
PROJECT NO: 4018

AMENDED SKETCH PLAN

WATERSIDE VILLAGES OF CURRITUCK

POPLAR BRANCH TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA

AMENDED 5/24/2005

General Notes:

Applicant / Property Owner
WATERSIDE VILLAGES AT CURRITUCK
VOC, L.L.C.
P.O. Box 147
HARBINGER, N.C. 27941
252-453-0254

Engineer

Bissell Professional Group
Mark S. Bissell, P.E.
P.O. Box 106B
Kitty Hawk, N.C. 27949
(252) 261-3266
fax: (252) 261-1760
email: mark@bissellprofessionalgroup.com

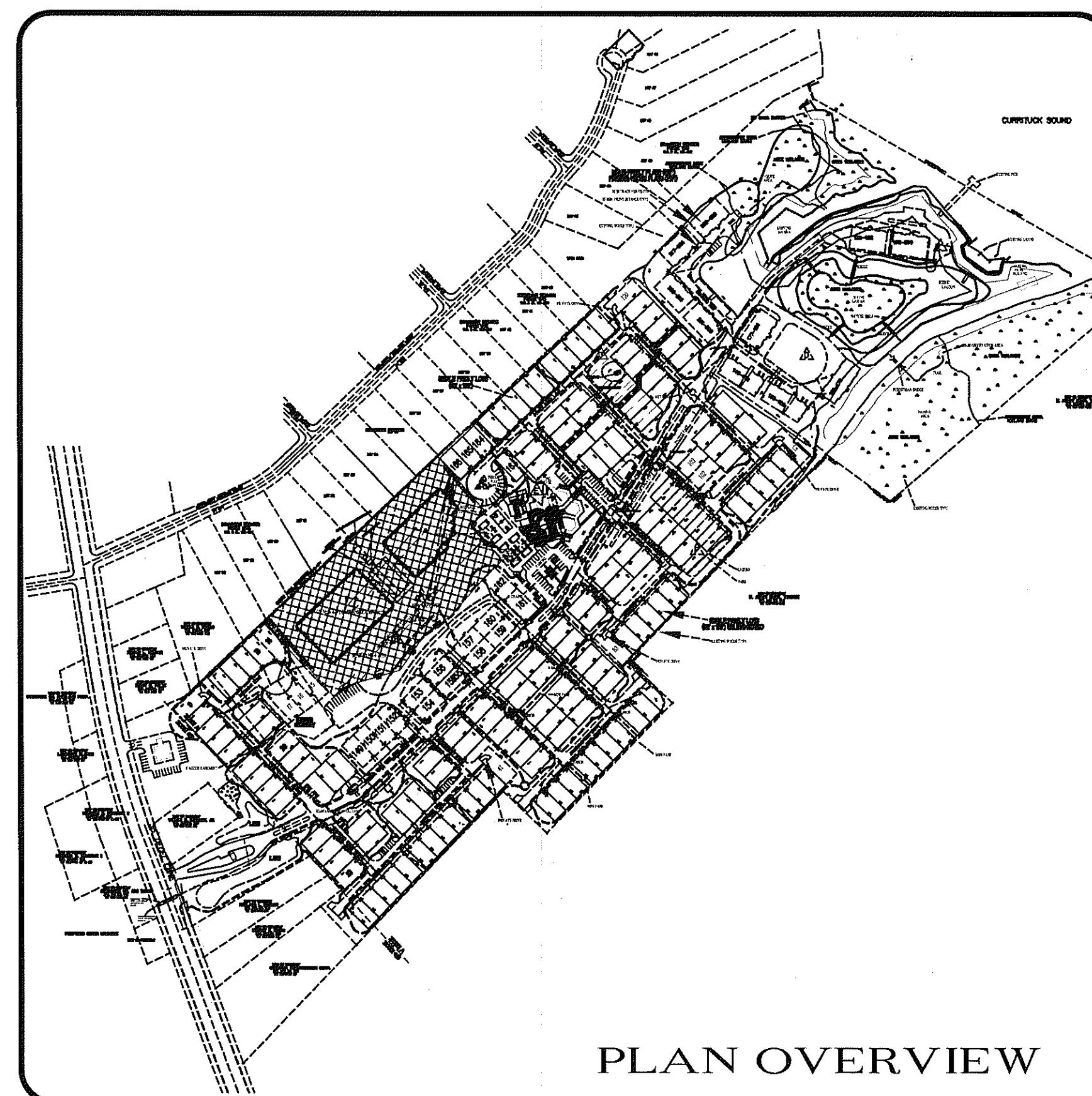
Subject Property
A 77.03 AC. +/- TRACT OF LAND, LOCATED IN POPLAR BRANCH TOWNSHIP, CURRITUCK COUNTY,
NORTH CAROLINA, AS DESCRIBED IN D.B. 0392 PG. 0355, CURRITUCK COUNTY REGISTRY
PIN NO 0108-000-002A-0000, 0108-000-0020-0000, 0108-000-0021-0000 AND 0108-000-002B-0000

PLANNING

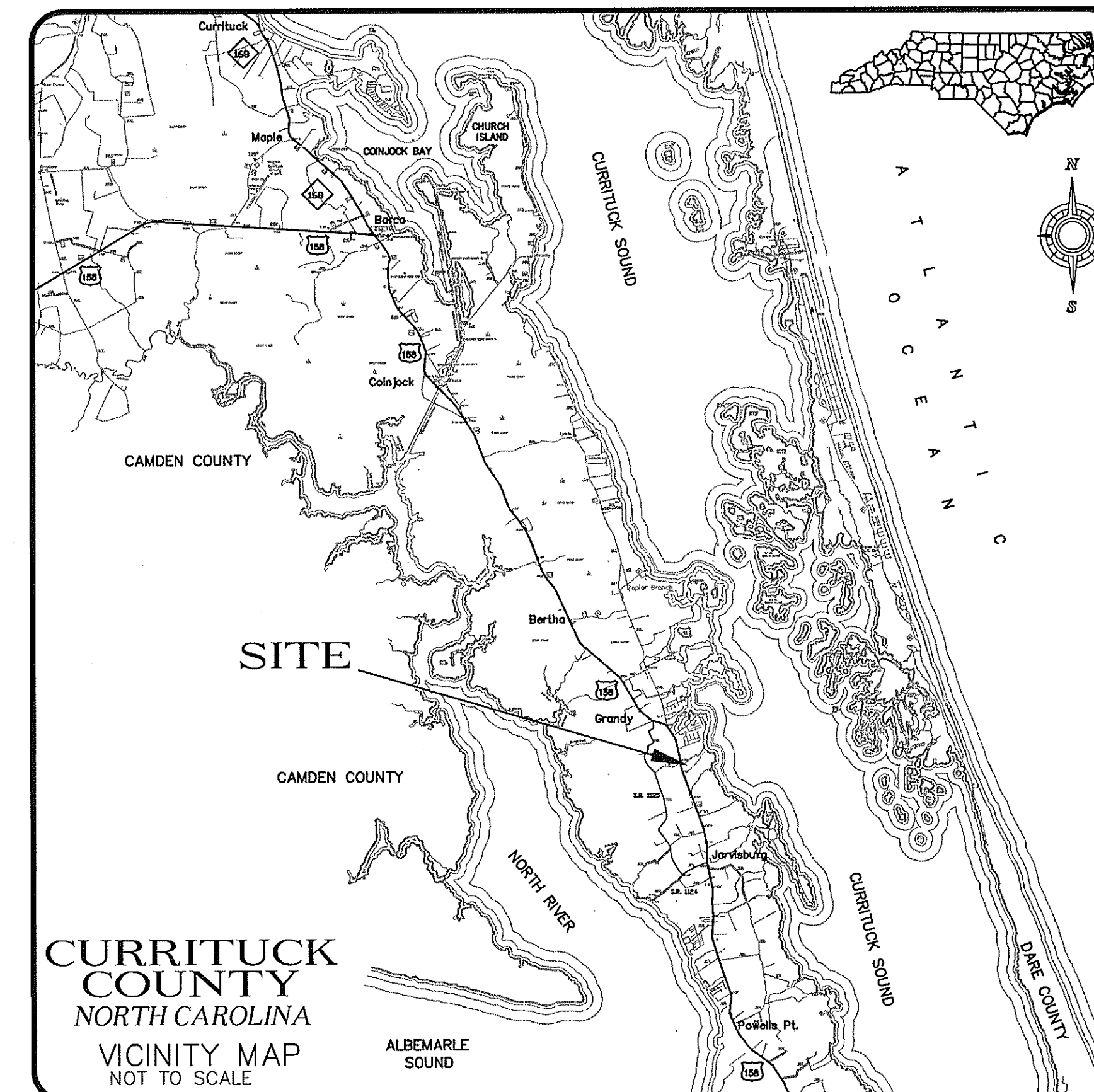
SISKA
AURAND

-landscape architecture
-master planning
-site design

523 West 24th Street
Norfolk, Virginia 23517
757.627.1407
e-mail: doug@siskaurand.com



PLAN OVERVIEW



**CURRITUCK
COUNTY**
NORTH CAROLINA
VICINITY MAP
NOT TO SCALE

SHEET INDEX

<i>SHEET</i>	<i>DESCRIPTION</i>
1	COVER SHEET AND PHASING PLAN
2	SKETCH PLAN – WEST
3	SKETCH PLAN –EAST
4	UTILITY PLAN – WEST
5	UTILITY PLAN –EAST
6	OPEN SPACE SUMMARY
7	PHASING PLAN

PRELIMINARY PLAN FOR REVIEW ONLY
NOT RELEASED FOR CONSTRUCTION

BISSELL
PROFESSIONAL GROUP

Engineers, Planners, Surveyors
and Environmental Specialists

Bissell Professional Group
4417 North Grafton Highway
P.O. Box 1038
Wichita, Kansas 67207
(316) 261-1226
(316) 261-1780
FAX (316) 261-1780

WATERSIDE VILLAGES OF CURRITUCK
POPLAR BRANCH TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA
COVER SHEET AND DEVELOPMENT DATA

[illegible]

"PRELIMINARY,
NOT FOR RECORDATION
OR CONSTRUCTION."

DATE: 1/17/04	SCALE: 1"=100'plf
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DESIGNED:	CHECKED:
BPG	MSB

DATE:	TIME:
WTR:	APPROVED:
TMS	MSB

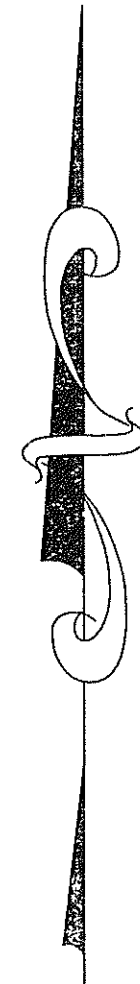
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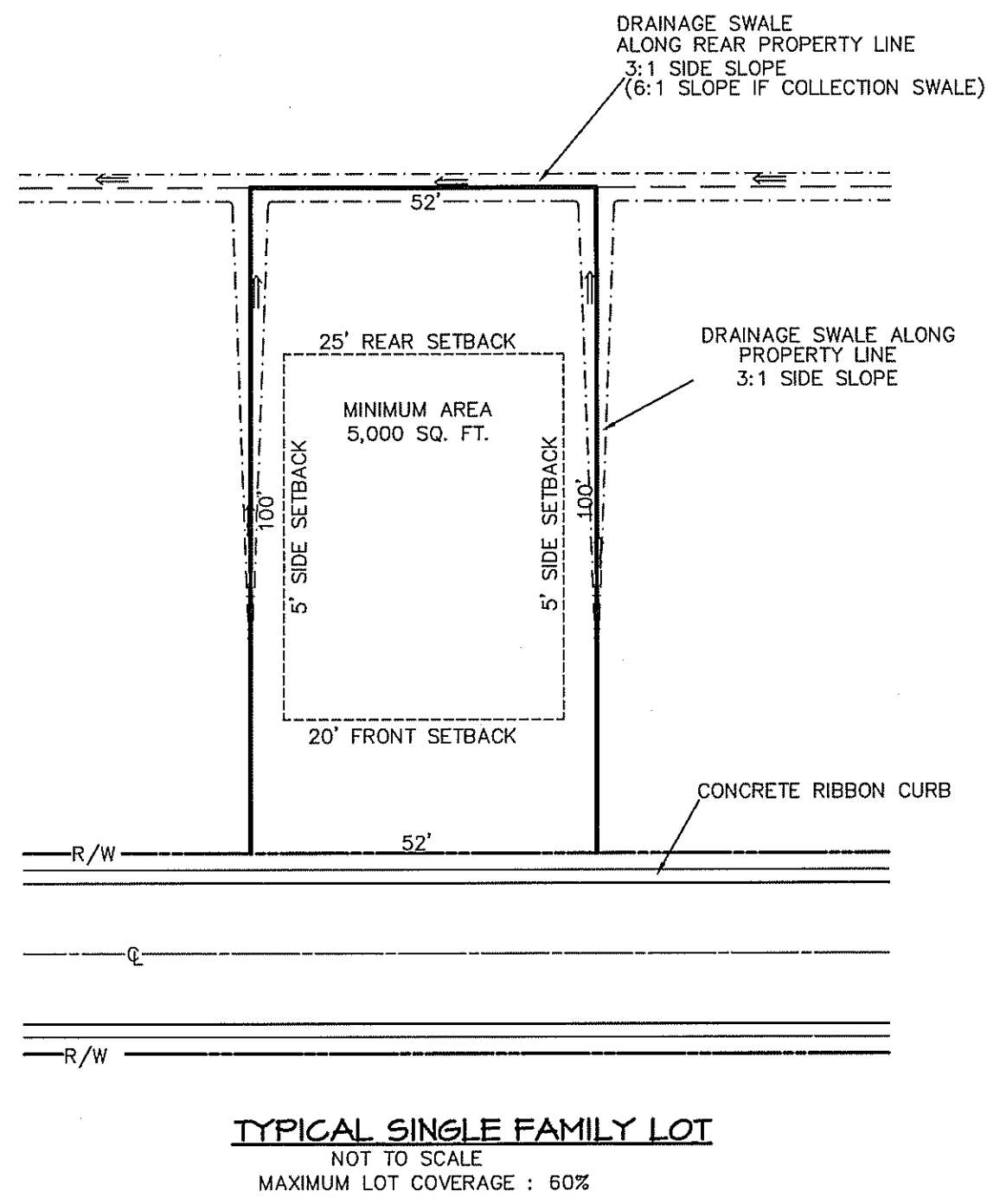
OBJECT NO:
4018

4018



Soundside Estates	
Lot No.	Owner/Address
28	Steven Brickhouse; P.C. D SL 178-180
29	Barbara B. Hart; P.C. D SL 178-180
30	Barbara B. Hart; P.C. D SL 178-180
31	Rocco Palazzola; P.C. D SL 178-180
32	Nell J. Denby; P.C. D SL 178-180
33	Charles W. Saks & Georgia S. Adams; P.C. D SL 178-180
34	Barbara D. Barker; P.C. D SL 178-180
35	Benjamin A. Barco; P.C. D SL 180-183
36	Arthur E. & Sharon L. Tipton; P.C. D SL 178-180
37	Charlie C. James, Jr. & Martha L. James; P.C. D SL 178-180
38	Jamie Weatherly; P.C. D SL 178-180
39	Mark Wenzel; P.C. D SL 178-180
40	John M. Palazzola & Vicky L. Sutherland; P.C. D SL 178-180
41	Steve & Ellen Shorman; P.C. D SL 180-183
42	C. C. Cutler, Jr. & Julia D. Cutler; P.C. D SL 180-183
OPEN SPACE	Soundside Estates H.O.A.; P.C. D SL 180-183

- ZONING
SOILS
EOP
VACATED LOT BOUNDARY
LOT BOUNDARY
FEMA
404 WETLANDS
GREEN AREA HATCH
REVISED AREAS
PROPOSED DRAINAGE
PROPOSED SLOTTED DRAIN



DEVELOPMENT UNIT SUMMARY
TOTAL NUMBER OF SINGLE FAMILY LOTS = 166
TOTAL NUMBER OF MULTIFAMILY FLATS = 84 (10 BUILDINGS)
TOTAL NUMBER OF UNITS = 250
TOTAL SITE AREA = 77.03 AC +/-
MIN OPEN SPACE REQ'D (35% OF TOTAL AREA) = 26.96 AC +/-
MIN UPLAND (50% OF MIN OPEN SPACE REQ'D) = 13.48 AC +/-
TOTAL OPEN SPACE PROVIDED = 34.00 AC +/-
ACTUAL OPEN SPACE PROVIDED = 21.01 AC +/- (USABLE)
TOTAL WETLAND (PASSIVE) SPACE PROVIDED = 12.91 AC +/-
NET DEVELOPABLE AREA = 77.03 - 12.78 = 64.25 AC +/-
DEVELOPMENT DENSITY = 250/64.25 = 3.89 DU/AC
GREEN AREA REQ'D = 300,000 SF
GREEN AREA PROVIDED = 300,331 SF
* CHANGES ARE DUE TO THE ADDITION OF THE WALNUT ISLAND PARCEL = 4.73 AC +/-
AND THE ADDITION OF 18 LOTS (149-166)

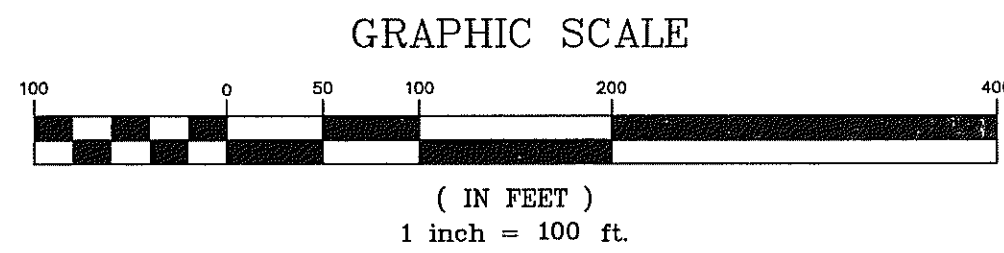
LOT AND CONDO SUMMARY
TOTAL AREA OF (166) LOTS = 20.14 AC +/-
TOTAL AREA OF (10 BUILDING) CONDOS = 2.02 AC +/-
TOTAL COMBINED AREA OF LOTS AND CONDOS = 22.16 AC +/-

ROADWAY LENGTH SUMMARY
TOTAL L.F. OF LOCAL ROADWAYS = 10,038
TOTAL L.F. OF COLLECTOR ROADWAYS = 2750
LOCAL ROADWAY R/W WIDTH = 30'
COLLECTOR ROADWAY R/W WIDTH = 45' MIN.
* CHANGES ARE DUE TO THE ADDED ROADWAYS FOR THE ADDITIONAL 18 LOTS

WASTEWATER TREATMENT AND DISPOSAL
SYSTEM SHOWN ASSUMES A DESIGN FLOW OF 90,000 GPD PLUS 30,000 GPD FROM WALNUT ISLAND, TOTALING 120,000 GPD TO BE TREATED AND DISPOSED
A LOADING RATE OF 1.3 GPD/SQ. FT.
TOTAL AREA REQUIRED = 90,000 SQ. FT.
DISPOSAL IS VIA LOW-RATE SURFACE IRRIGATION
WASTEWATER SYSTEM BASIS OF DESIGN = 120,000 GPD
* CHANGES ARE DUE TO THE INCORPORATION OF THE WALNUT ISLAND SANITARY SEWER

FEMA DATA:
COMMUNITY NAME: CURRITUCK COUNTY, NORTH CAROLINA (UNINCORPORATED)
COMMUNITY PANEL NUMBER: 370078 0355 C (NOV. 1, 1984)
EFFECTIVE DATE: NOVEMBER 1, 1984 DATUM: NGVD 1929 (FT)
FIRM ZONES SUBJECT TO CHANGE BY F.E.M.A.

COMMUNITY AMENITY SUMMARY:
• MARINA WITH BOAT RAMP = .5 AC +/-
• SHADED WALKING TRAIL SYSTEM & MINI PARKS = 1.5 - 2.0 MILES +/-
• INDOOR/OUTDOOR POOLS & CLUBHOUSE = 1.3 AC +/-
• TENNIS AND BASKETBALL COURTS = 5.3 AC +/-
• CHAPEL = .43 AC +/-
• PICNIC SHELTER = .03 AC +/-
• PIER = .05 AC +/-
• URGENT CARE FACILITY = 0.51 AC +/-



Blair Professional Group
447 North Cross Highway
Wilmington, North Carolina 27940
(919) 399-2221
FAX (919) 399-2222

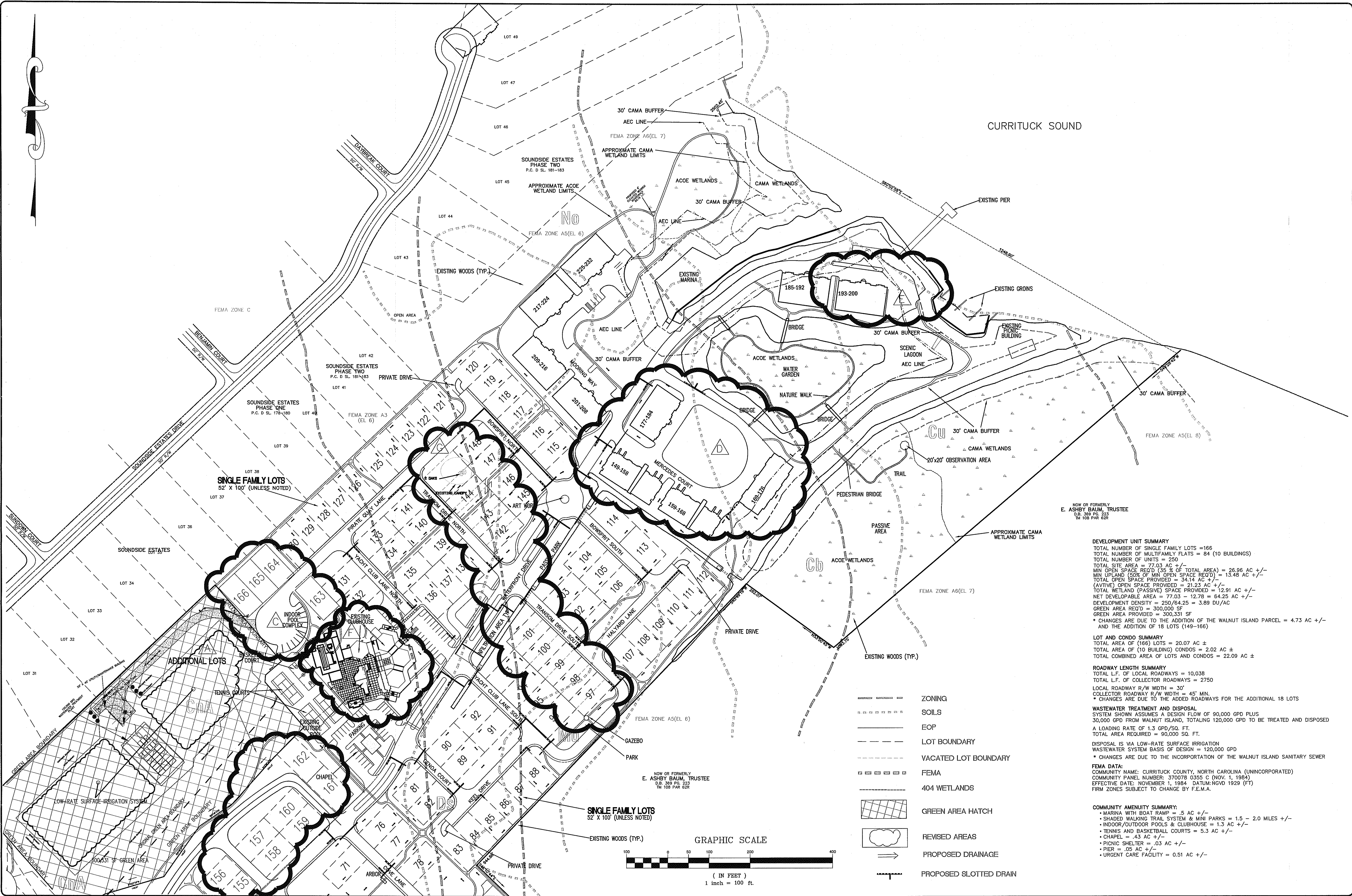
RESSELL
Engineers, Planners, Surveyors
and Environmental Specialists

PROJECT: **WATERSIDE VILLAGES OF CURRITUCK**
CURRITUCK COUNTY NORTH CAROLINA
POPLAR BRANCH TOWNSHIP

AMENDED SKETCH PLAN

NO.	DATE	DESCRIPTION	BY
1	6/17/04	ADDED LOTS 2322, 169-165	TMS
2	6/17/04	CHANGES TO CLUB HOUSE	MSB
3	6/17/04	LOT RECONFIGURATION	MSB
4	6/17/04	ADDED LOTS 166-168	MSB
5	6/17/04	ADDED LOTS 169-170	MSB
6	6/17/04	ADDED LOTS 171-172	MSB
7	6/17/04	ADDED LOTS 173-174	MSB
8	6/17/04	ADDED LOTS 175-176	MSB
9	6/17/04	ADDED LOTS 177-178	MSB
10	6/17/04	ADDED LOTS 179-180	MSB
11	6/17/04	ADDED LOTS 181-182	MSB
12	6/17/04	ADDED LOTS 183-184	MSB
13	6/17/04	ADDED LOTS 185-186	MSB
14	6/17/04	ADDED LOTS 187-188	MSB
15	6/17/04	ADDED LOTS 189-190	MSB
16	6/17/04	ADDED LOTS 191-192	MSB
17	6/17/04	ADDED LOTS 193-194	MSB
18	6/17/04	ADDED LOTS 195-196	MSB
19	6/17/04	ADDED LOTS 197-198	MSB
20	6/17/04	ADDED LOTS 199-200	MSB

DATE: 6/17/04
SCALE: 1"=100'pt
DESIGNED: BPG
CHECKED: MSB
DRAWN: TMS
APPROVED: MSB
SHEET: 2 OF 7
CAD FILE: 401801S2.AMD
PROJECT NO: 4018



POPLAR BRANCH TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA

WATERSIDE VILLAGES OF CURRILOCK

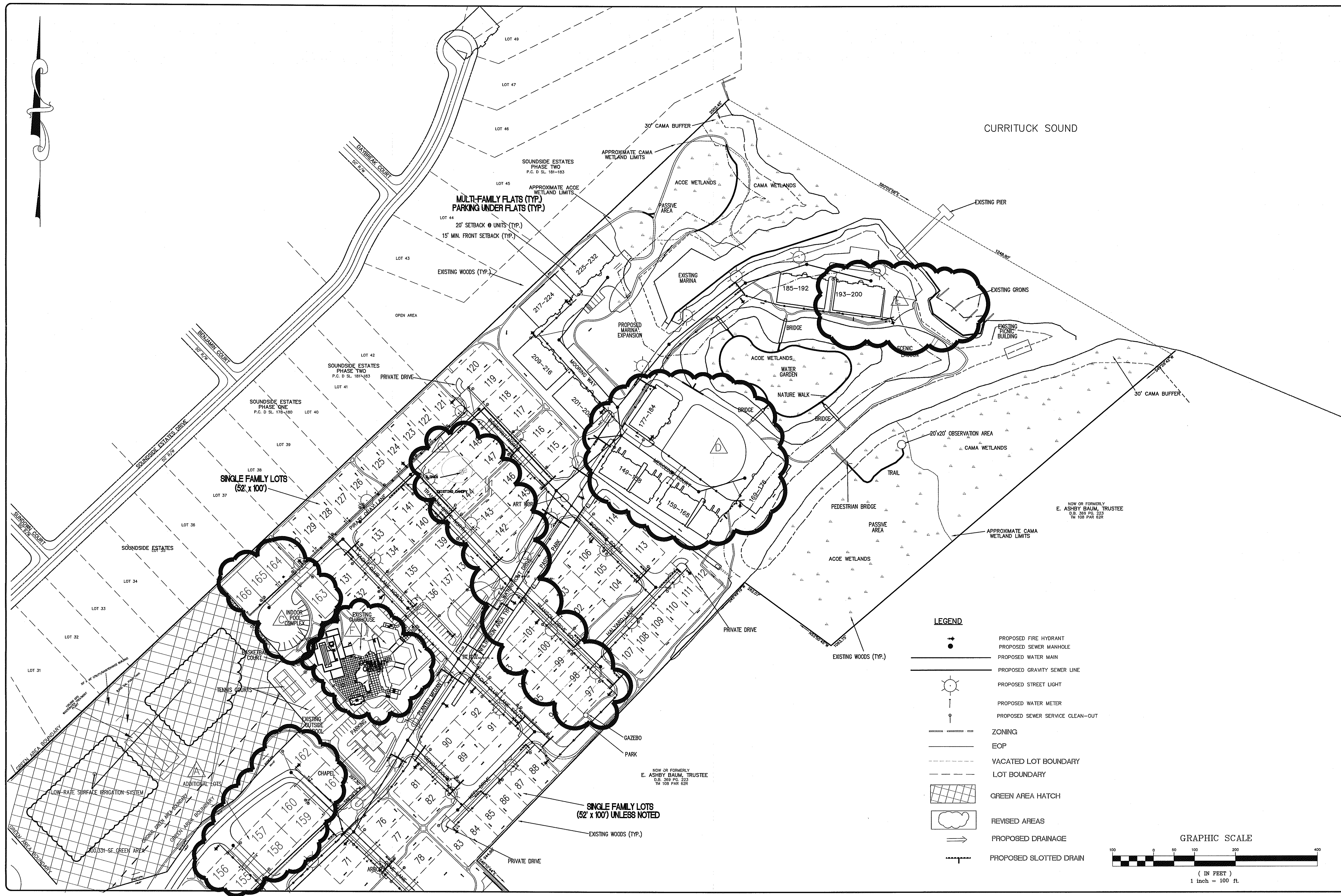
AMENDED SKETCH PLAN

NO.	DATE	DESCRIPTION	BY
A	7/13	ADDED LOTS 23,24, 149--156	TMS
C	7/13	ADDED CUI-DE-SAC	TMS
D	7/13	RECONFIG. CONDOS. & ROADS	TMS
E	7/13	ADDED TURN-A-ROUND	TMS
F	5/5/02	CHANGES TO CLUB HOUSE	DMK
G	5/5/02	LOT RECONFIGURATION	DMK

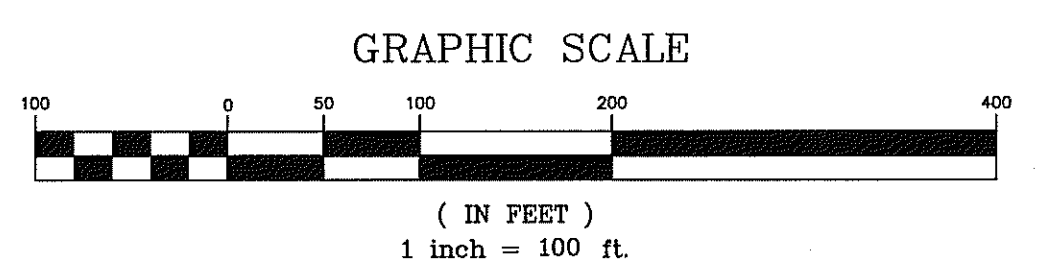
"PRELIMINARY,
FOR RECORDATION
CONSTRUCTION."

7/04	SCALE: 1"=100'plf
ED: BPG	CHECKED: MSB
TMS	APPROVED: MSB

FILE:
1801S3.AMNED
JECT NO:
4018



- LEGEND**
- PROPOSED FIRE HYDRANT
 - PROPOSED SEWER MANHOLE
 - PROPOSED WATER MAIN
 - PROPOSED GRAVITY SEWER LINE
 - PROPOSED STREET LIGHT
 - PROPOSED WATER METER
 - PROPOSED SEWER SERVICE CLEAN-OUT
 - ZONING
 - EOP
 - VACATED LOT BOUNDARY
 - LOT BOUNDARY
 - GREEN AREA HATCH
 - REVISED AREAS
 - PROPOSED DRAINAGE
 - PROPOSED SLOTTED DRAIN



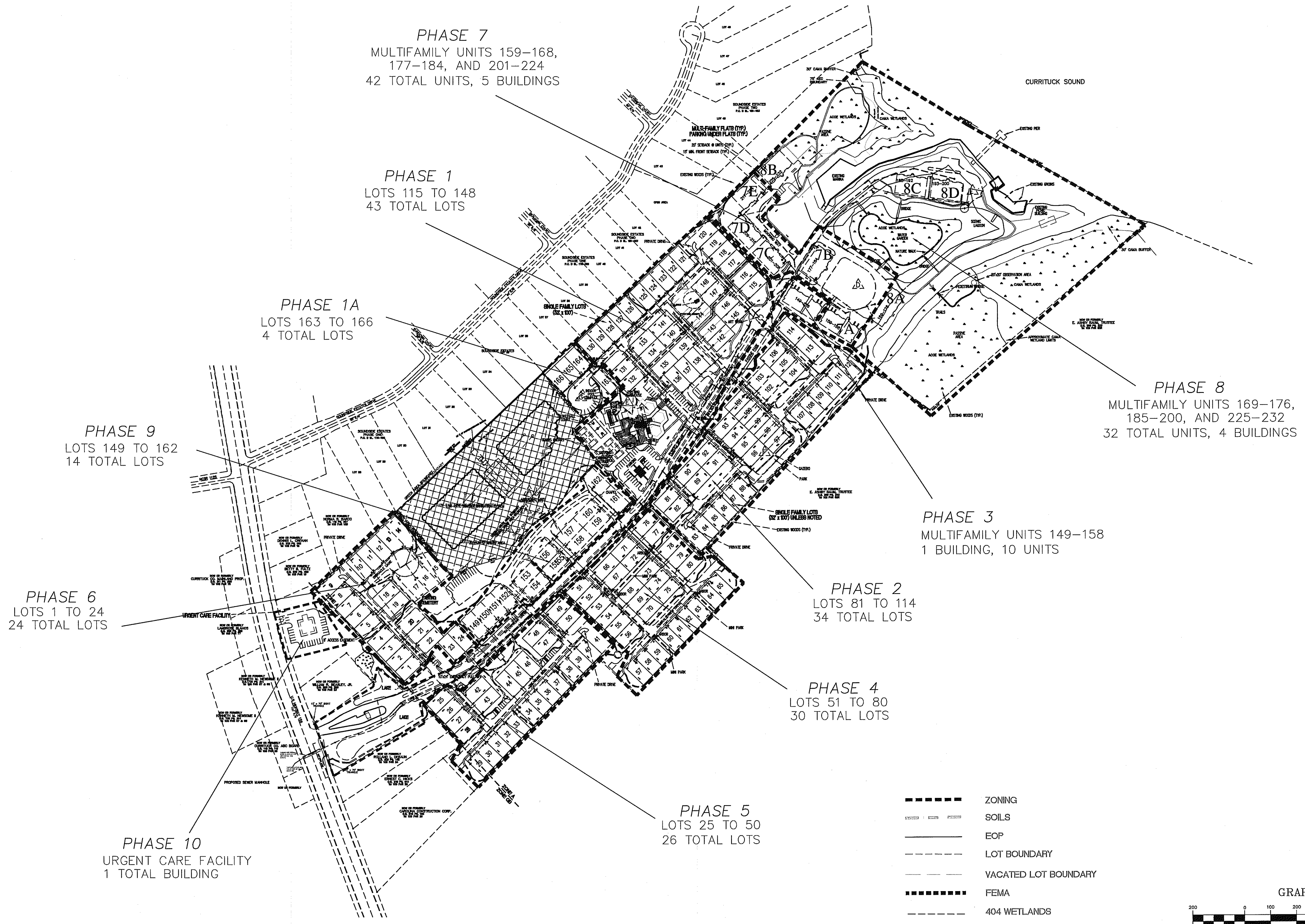
BISSELL
PROFESSIONAL GROUP
Engineers, Planners, Surveyors
and Environmental Specialists
Bissell Professional Group
1000 North Carolina Highway
P.O. Box 1088
Newport, North Carolina 27844
(252) 736-1000
(252) 736-1001
FAX (252) 281-1760

PROJECT: **WATERSIDE VILLAGES OF CURRITUCK**
POPULAR BRANCH TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA
UTILITY PLAN

REVISIONS		BY	DATE
NO.	DATE	DESCRIPTION	COMMENTS
1	7/17/04	ADDRESS COUNTY COMMENTS	
2	7/17/04	ADDED OUTLINE TO LOT 156	
3	7/17/04	ADDED OUTLINE TO LOT 157	
4	7/17/04	RECORDED, PLOTS & ROADS	
5	7/17/04	CHANGES TO ALB HOUSE	
6	7/17/04	LOT RECONFIGURATION	

"PRELIMINARY,
NOT FOR RECORDATION
OR CONSTRUCTION."

DATE: 6/17/04 SCALE: 1"=100'p/t
DESIGNED: BPG CHECKED: MSB
DRAWN: TMS APPROVED: MSB
SHEET: 5 OF 7
CAD FILE: 401801SS.AMNEED
PROJECT NO: 4018



PHASE 6
LOTS 1 TO 24
24 TOTAL LOTS

PHASE 9
LOTS 149 TO 162
14 TOTAL LOTS

PHASE 1A
LOTS 163 TO 166
4 TOTAL LOTS

PHASE 7
MULTIFAMILY UNITS 159-168,
177-184, AND 201-224
42 TOTAL UNITS, 5 BUILDINGS

PHASE 1
LOTS 115 TO 148
43 TOTAL LOTS

PHASE 3
MULTIFAMILY UNITS 149-158
1 BUILDING, 10 UNITS

PHASE 2
LOTS 81 TO 114
34 TOTAL LOTS

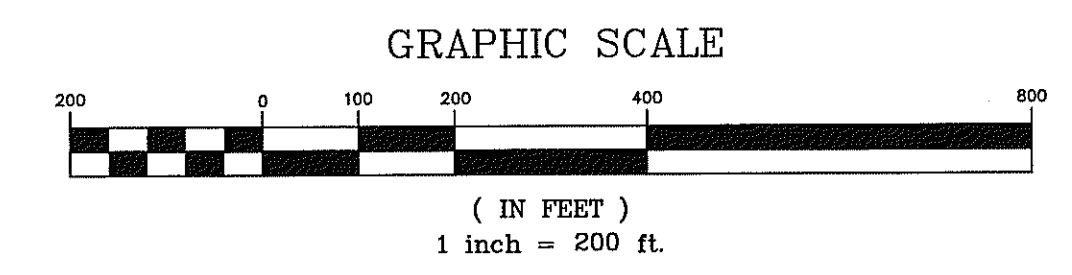
PHASE 4
LOTS 51 TO 80
30 TOTAL LOTS

PHASE 5
LOTS 25 TO 50
26 TOTAL LOTS

PHASE 8
MULTIFAMILY UNITS 169-176,
185-200, AND 225-232
32 TOTAL UNITS, 4 BUILDINGS

PHASE 10
URGENT CARE FACILITY
1 TOTAL BUILDING

- ZONING
- SOILS
- EOP
- LOT BOUNDARY
- VACATED LOT BOUNDARY
- FEMA
- 404 WETLANDS
- GREEN AREA HATCH



BISSELL
Professional Group
P.O. Box 10800
Charlotte, NC 28210
(704) 366-1000
FAX (704) 366-1700

Engineers, Planners, Surveyors
and Environmental Specialists

PROJECT: **WATERSIDE VILLAGES OF CURRITUCK**
CURRITUCK COUNTY NORTH CAROLINA
POPLAR BRANCH TOWNSHIP

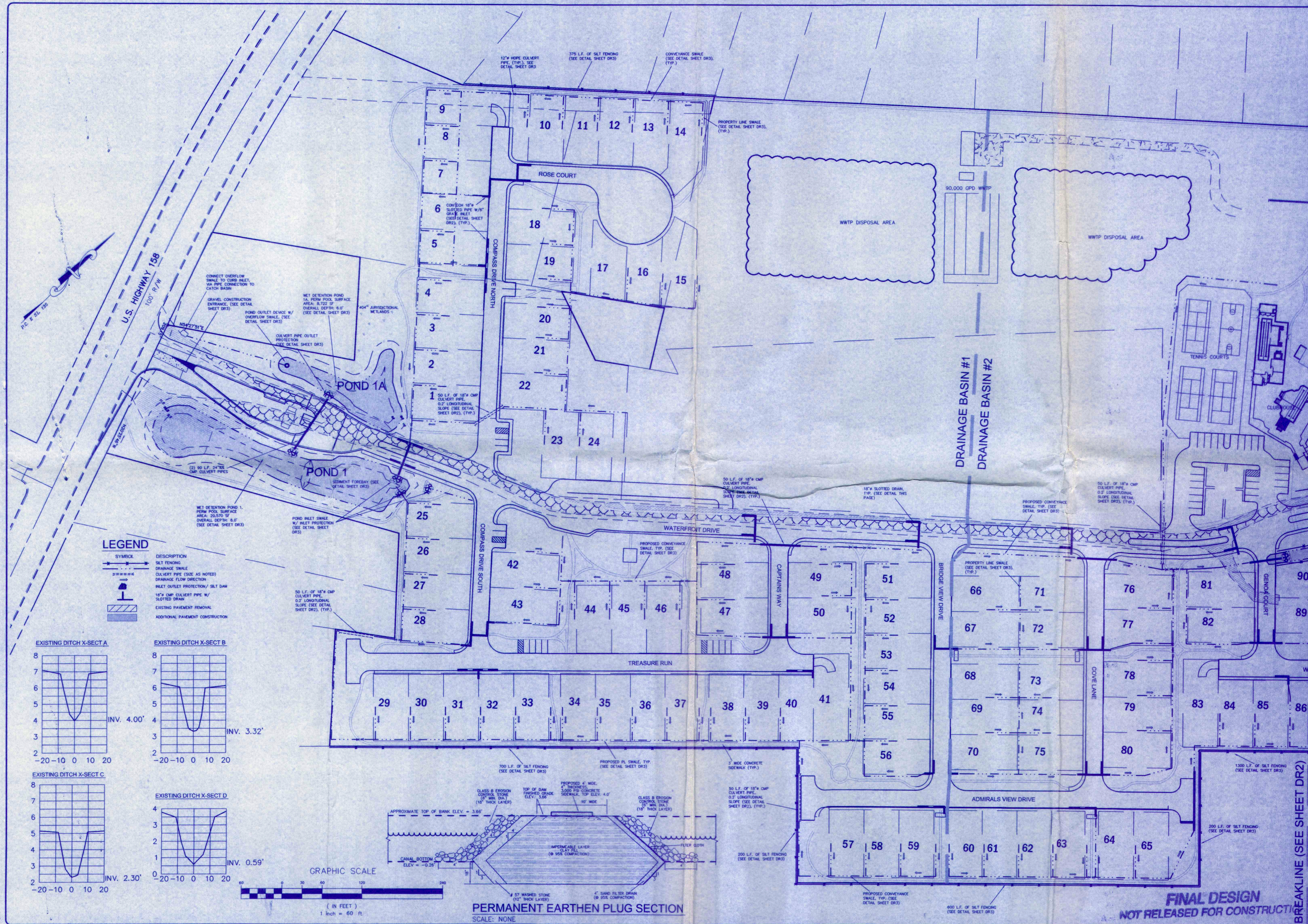
PHASING PLAN SHEET

REVISIONS	
NO	DESCRIPTION

"PRELIMINARY,
NOT FOR RECORDATION
OR CONSTRUCTION"

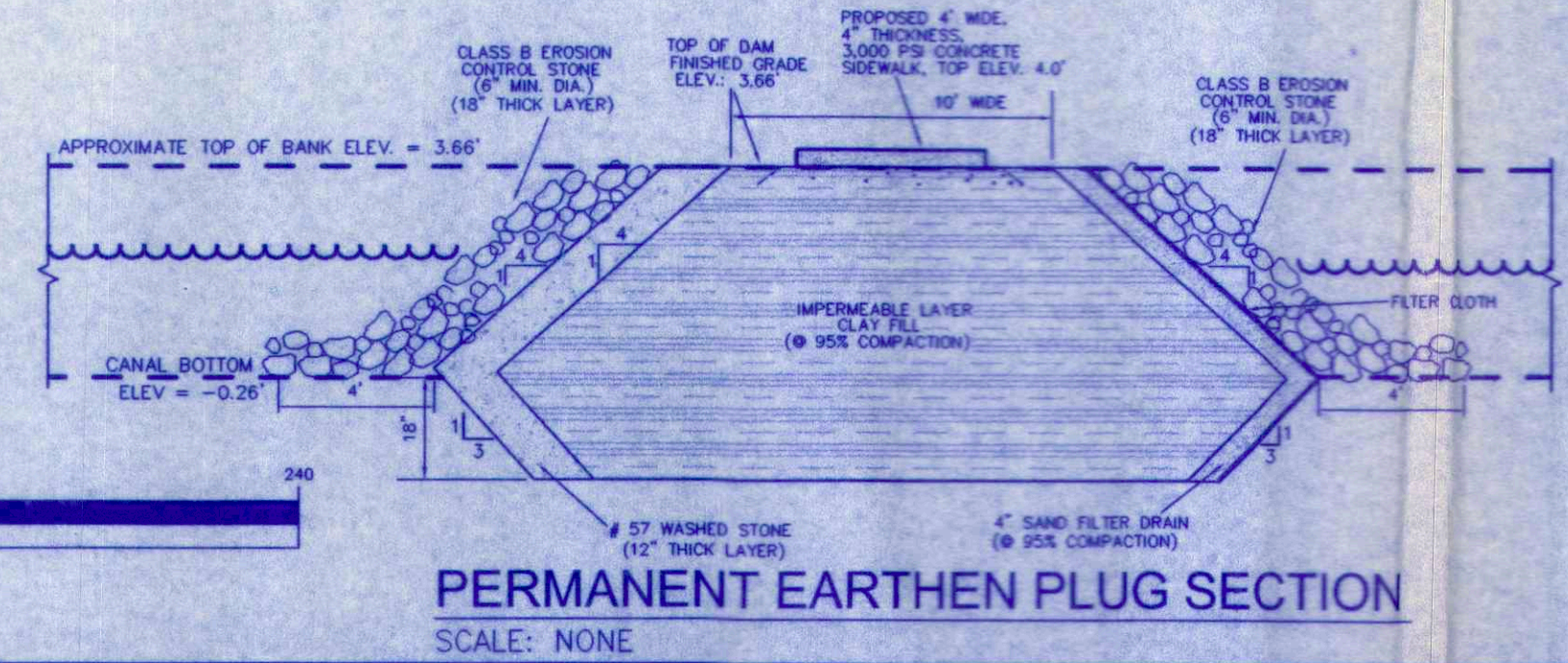
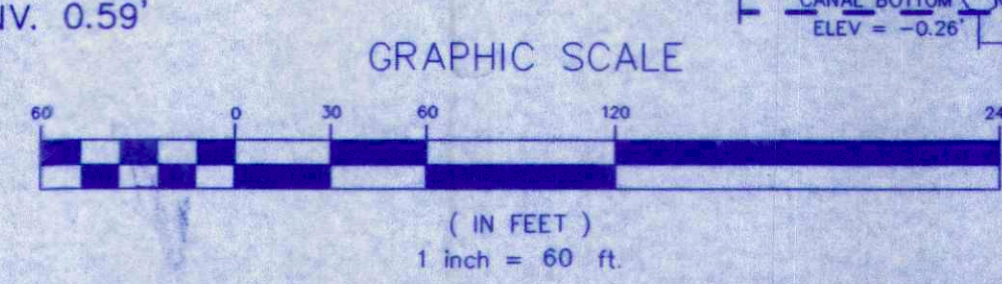
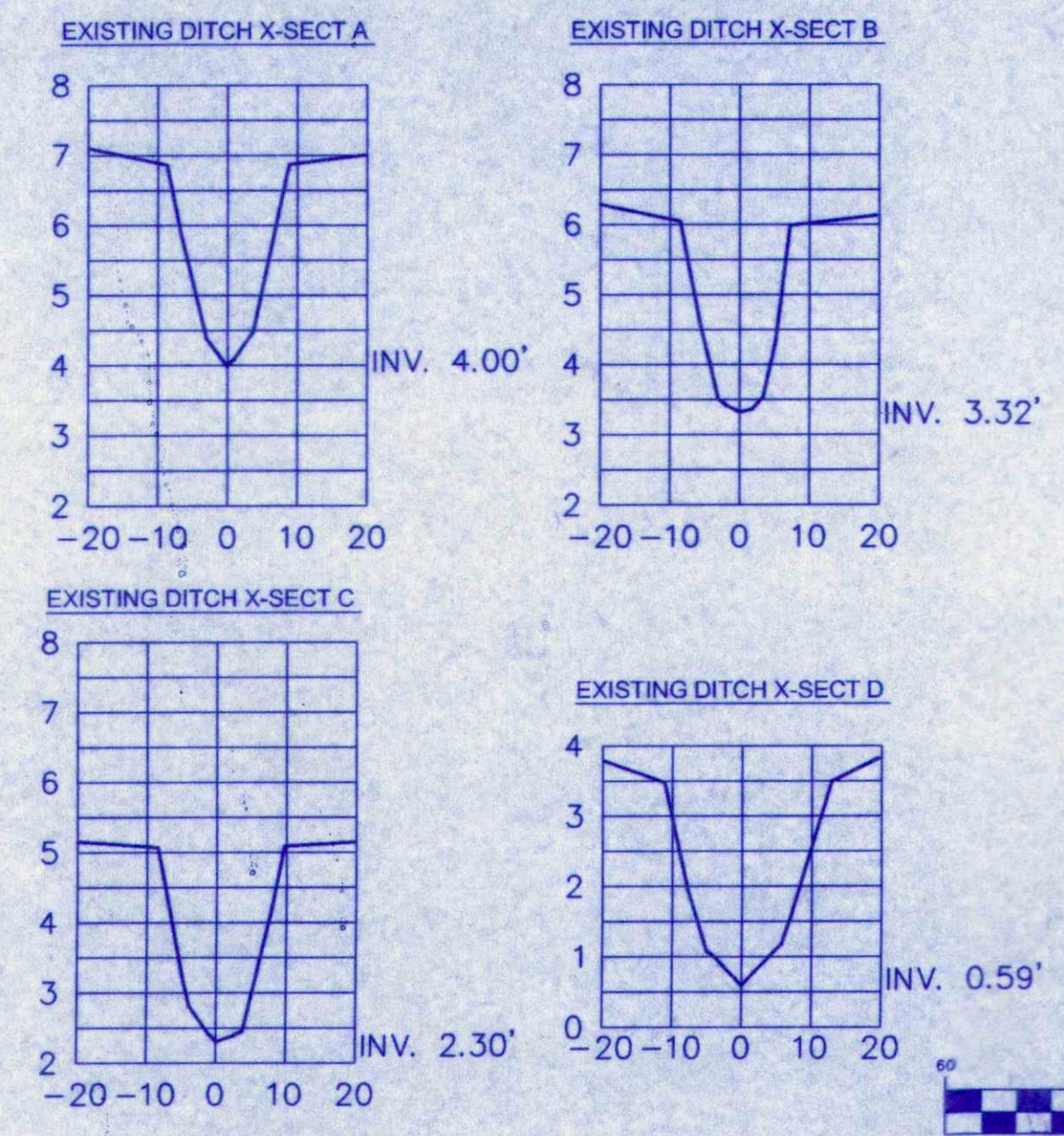
DATE: 5/06/05 SCALE: 1"=200'
DESIGNED: BPG CHECKED: TSM
DRAWN: DMK APPROVED: MSB

SHEET: 7 OF 7
401801S6APHASE
PROJECT NO: 4018



LEGEND

SYMBOL	DESCRIPTION
[Symbol]	SILT FENCING
[Symbol]	DRAINAGE SWALE
[Symbol]	CULVERT PIPE (SIZE AS NOTED)
[Symbol]	DRAINAGE FLOW DIRECTION
[Symbol]	INLET OUTLET PROTECTION / SILT DAM
[Symbol]	18" CMP CULVERT PIPE W/ SLOTTED DRAIN
[Symbol]	EXISTING PAVEMENT REMOVAL
[Symbol]	ADDITIONAL PAVEMENT CONSTRUCTION



FINAL DESIGN
NOT RELEASED FOR CONSTRUCTION

Bissell Professional Group
4407 River Road, Suite 100
Charlotte, NC 28217
Tel: 704.366.1100
Fax: 704.366.1101

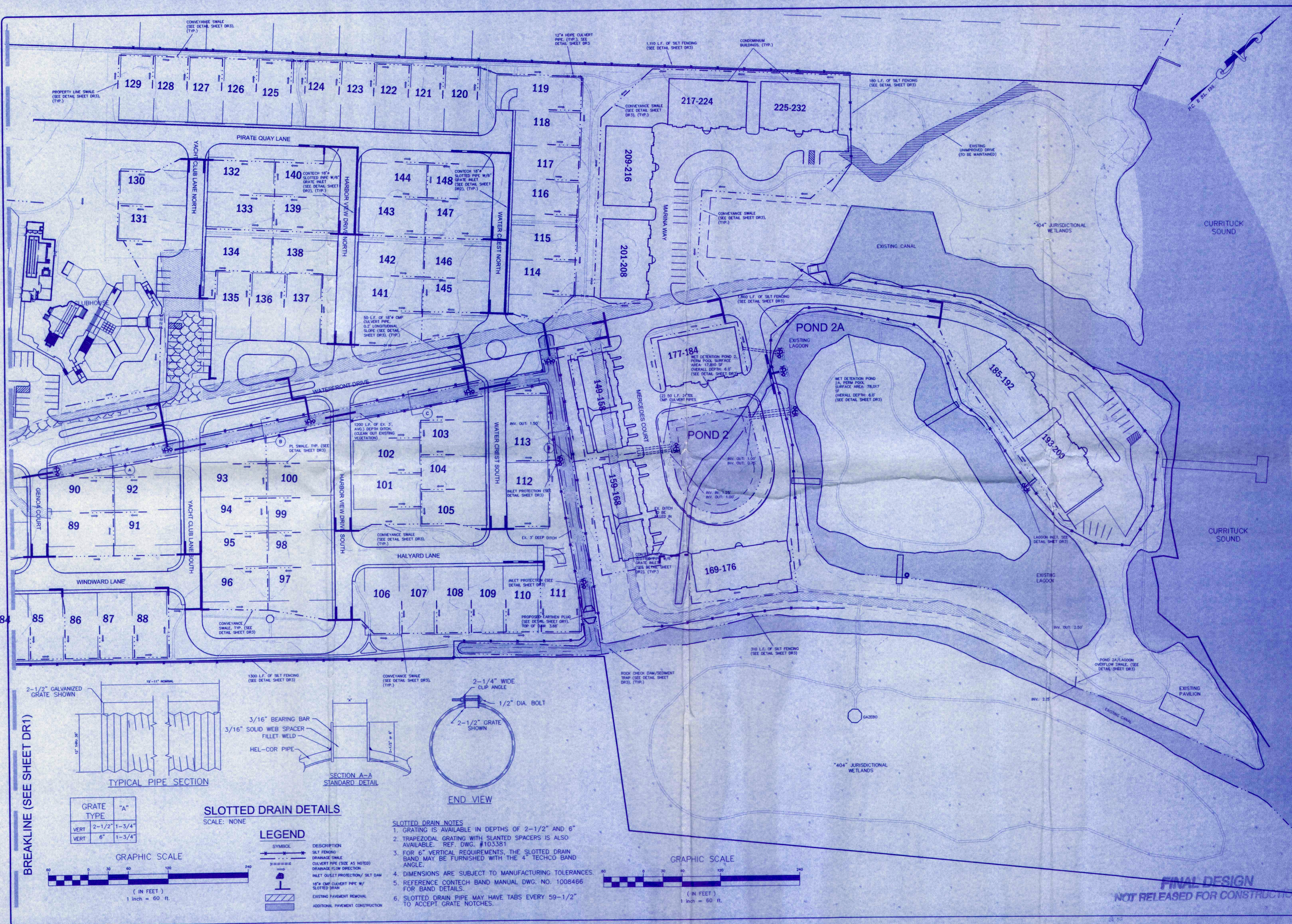
WATERSIDE VILLAGES
NORTH CAROLINA
CURRITUCK COUNTY
POPULAR BRANCH TOWNSHIP

STORMWATER MANAGEMENT

DRAINAGE INFRASTRUCTURE IMPROVEMENTS

NO.	DATE	BY	DESCRIPTION	APPROVED
1	12-28-04	MSB	ISSUED FOR PERMITS	MSB
2	12-28-04	MSB	ISSUED FOR PERMITS	MSB
3	12-28-04	MSB	ISSUED FOR PERMITS	MSB
4	12-28-04	MSB	ISSUED FOR PERMITS	MSB
5	12-28-04	MSB	ISSUED FOR PERMITS	MSB
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89	12-28-04	MSB	ISSUED FOR PERMITS	MSB
90	12-28-04	MSB	ISSUED FOR PERMITS	MSB

DR1 of **3**
4018BASE
PROJECT NO: 4018



BREAKLINE (SEE SHEET DR1)

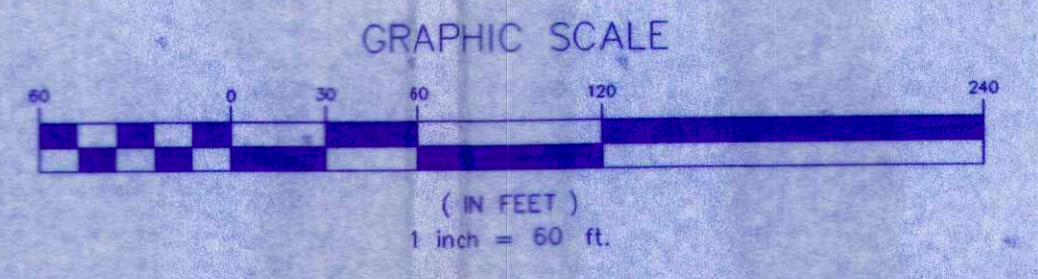
GRATE TYPE	"A"
VERT	2-1/2" 1-3/4"
VERT	6" 1-3/4"

SLOTTED DRAIN DETAILS
SCALE: NONE

LEGEND

SYMBOL	DESCRIPTION
	SILT FENCING
	DRAINAGE SWALE (SIZE AS NOTED)
	INLET QUIET PROTECTION / SILT DAM
	18" CMP CULVERT PIPE W/ SLOTTED DRAIN
	EXISTING PAVEMENT REMOVAL
	ADDITIONAL PAVEMENT CONSTRUCTION

- SLOTTED DRAIN NOTES**
1. GRATING IS AVAILABLE IN DEPTHS OF 2-1/2" AND 6"
 2. TRAPEZODAL GRATING WITH SLANTED SPACERS IS ALSO AVAILABLE. REF. DWG. #103381
 3. FOR 6" VERTICAL REQUIREMENTS, THE SLOTTED DRAIN BAND MAY BE FURNISHED WITH THE 4" TECHCO BAND ANGLE.
 4. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
 5. REFERENCE CONTECH BAND MANUAL DWG. NO. 1008466 FOR BAND DETAILS.
 6. SLOTTED DRAIN PIPE MAY HAVE TABS EVERY 59-1/2" TO ACCEPT GRATE NOTCHES.



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4417 North Center Highway
Kitty Hawk, North Carolina 27949
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FAX 919.221.7140

BISSELL
PROFESSIONAL GROUP
Engineers, Planners, Surveyors
and Environmental Specialists

STORMWATER MANAGEMENT

WATERSIDE VILLAGES
NORTH CAROLINA
POLAR BRANCH TOWNSHIP CURRITUCK COUNTY

DRAINAGE INFRASTRUCTURE IMPROVEMENTS

NO.	DATE	REVISIONS	DESCRIPTION
1	7-28-04	DESIGN	ADDRESS DRG COMMENTS

BY: *[Signature]*
DATE: 7-28-04

SCALE: 1"=60'

DESIGNED: MSB
CHECKED: DMK
APPROVED: BPG

SHEET: **DR2** of **3**
CAD FILE: 4018BASE
PROJECT NO: 4018

GENERAL PROJECT NOTES:

- PROJECT NAME: WATERSIDE VILLAGES OF CURRITUCK
POPULAR BRANCH TOWNSHIP, CURRITUCK COUNTY, NORTH CAROLINA
- DEVELOPER: VOC LLC
P.O. BOX 147
HARRINGER, NC 27941
- PROJECT DESCRIPTION: HIGH-DENSITY RESIDENTIAL DEVELOPMENT
- NEAREST RECEIVING STREAM: CURRITUCK SOUND
- CLASSIFICATION: SC
- PROJECT AREA TABULATION:

TOTAL PROJECT AREA	75.62 AC.
POND EXCAVATION AREA:	3.00 AC.
WWTP DISTURBANCE AREA (W/ ROAD IMPROVEMENTS):	2.50 AC.
RAW DISTURBANCE AREA:	9.15 AC.
RESIDENTIAL LOT GRADING AREA:	14.16 AC.
MISCELLANEOUS DISTURBED AREA:	3.0 AC.
TOTAL DISTURBED AREA:	31.81 AC.

NOTE:
ALL AREAS CALCULATED BY COMPUTING THE DISTURBED
ACREAGE WITHIN THE GRADING LIMITS BOUNDARY.

SEDIMENTATION AND EROSION CONTROL NOTES:

A. NARRATIVE AND SITE DATA

The project will consist of the construction of utility, parking and drainage infrastructure improvements to service the proposed WATERSIDE VILLAGES Residential Development / Wastewater Treatment Facility Development that is to be located on the northern boundary, in Poplar Branch Township, Currituck County, North Carolina.

The proposed developmental activities are as follows:

- Construction of (148) 7,500 s.f. (avg.) single family residential homesites
- Construction of 10 condominium buildings/recreational lake
- Construction of a 90,000 gpd wastewater treatment facility and associated infrastructure to service the proposed development
- Construction of approximately 9.14 ac. of proposed asphalt access roadway with asphalt ingress/egress drives

Construction of approximately 0.74 ac. of concrete sidewalks and pathways

Site soils are mainly composed of Currituck sandy loams & Dragloon fine sandy loams. These soils are described as nearly level, moderately to poorly drained surface soils (as per the Currituck County Soil Survey Manual dated 1992). The soils typically found on the tract are sandy loams generally located on low ridges and drainageways along the Currituck & Albemarle Sounds. The seasonal high water table is estimated to be located approximately 1.5 to 2.0 feet below the existing ground surface, (this based on water table conditions observed from field investigations).

NOTE:
MATERIAL EXCAVATED FROM THE PROPOSED POND/LAGOON WILL BE
DISPERSED ENTIRELY ON-SITE FOR THE SOLE PURPOSE OF INCREASING THE
BASE ELEVATIONS OF THE PROPOSED RESIDENTIAL LOTS.

CONSTRUCTION SEQUENCE SCHEDULE

CONSTRUCTION ACTIVITY

Construction Access—
Construction entrance,
construction routes, equipment
parking areas

Sediment Traps & Barriers
Basin traps, sediment fences,
& outlet protection

Runoff Control—
Diversion, perimeter dikes,
water bars, and outlet
protection

Runoff Conveyance System—
Stabilize streambanks, storm
drains, channels, inlet & outlet
protection, slope drains

Land Clearing & Grading—
Site preparation: cutting,
filling & grading, sediment
traps, barriers, diversions,
drains, surface roughening

Surface Stabilization—
Temporary & permanent
seeding, mulching, sodding,
riprap

Building Construction—
Buildings, utilities, paving

Landscaping & Final
Stabilization—
Topsoiling, trees & shrubs,
permanent seeding, mulching,
sodding, riprap

SCHEDULE CONSIDERATION

First land-disturbing
activity—Stabilize bare areas
immediately with gravel &
temporary vegetation as
construction takes place.

Install principal basins after
construction site is accessed.
Install additional traps and
barriers as needed during
grading.

Initial key practices after
principal sediments traps and
before land grading. Install
additional runoff-control
conveyance measures during
grading.

Where necessary, stabilize
streambanks as early as possible.
Install principal runoff conveyance
system with runoff-control
measures. Install remainder of
system after grading.

Begin major clearing and grading
after principal & key
runoff-control measures are
installed. Clear borrow & disposal
areas as needed. Install
additional control measures as
grading progresses. Mark trees &
buffer areas for preservation.

Apply temporary or permanent
stabilization measures
immediately on all disturbed
areas where work is delayed or
complete.

Install necessary erosion & sedimentation
control practices as
work takes place.

Stabilize all open areas, including
borrow & spoil areas. Remove &
stabilize all temporary control
measures.

LAND GRADING CONSTRUCTION SPECIFICATIONS

- Construct & maintain all erosion & sedimentation control practices & measures in accordance with the approved sedimentation control plan and construction schedule.
- Remove good topsoil from areas to be graded and filled, and preserve it for use in finishing the grading of all critical areas.
- Scarify areas to be topsoiled to a minimum depth of 2 inches before placing topsoil.
- Clear & grub areas to be filled to remove trees, vegetation, roots, or other objectionable material that would affect the planned stability of fill.
- Ensure that fill material is free of brush, rubbish, rocks, logs, stumps, building debris, and other materials inappropriate for constructing stable fills.
- Place all fill in layers not to exceed 9 inches in thickness, and compact the layers as required to reduce erosion, slippage, settlement, or other related problems.
- Do not incorporate frozen material or soft, mucky, or highly compressible materials into fill slopes.
- Do not place fill on a frozen foundation, due to possible subsidence and slippage.
- Keep diversions and other water conveyance measures free of sediment during all phases of development.
- Handle seeps or springs encountered during construction in accordance with approved methods.
- Permanently stabilize all graded areas immediately after final grading is completed on each area in the grading plan. Apply temporary stabilization measures on all graded areas when work is to be interrupted or delayed for 30 working days or longer.
- Provide adequate protection from erosion for all topsoil stockpiles, borrow areas, and spoil areas.

Soil Amendments—
Apply lime and fertilizer according to soil tests or apply
3,000 lb/acre ground agricultural limestone and 500 lb/acre
10-10-10 fertilizer, or 50 lb/acre nitrogen from turf-type
slow-release fertilizer. Add 25-50 lb/acre nitrogen at
2-3 week intervals during midsummer.

Sprigging—
Plant sprigs in furrows with a tractor-drawn transplanter,
or broadcast by hand.

Furrows should be 4-6 inches deep and 2 feet apart.
Place sprigs about 2 ft. apart in a row with one end
at or above ground level.

Broadcast at rates shown above, and press sprigs into
the top 1/2-2 inches of soil with a disk set straight
so that sprigs are not brought back toward the surface.

Mulch—
Do not mulch.

Maintenance—
Water as needed and mow to 3/4 to 1-inch height.
Topdress with 40 lb/acre nitrogen in April, 50 lb in May,
50 lb in June, 50 lb in July, and 25 lb in August.

Periodically check all graded areas & the supporting erosion & sedimentation control practices, especially after heavy rainfalls. Promptly remove all sediment from diversions and other water-disposal practices. If washouts or breaks occur, repair them immediately. Prompt maintenance of small-eroded areas before they become significant gullies is an essential part of an effective erosion & sedimentation control plan.

PERMANENT SEEDING

The purpose of permanent seeding is to reduce erosion and decrease sediment yield from disturbed areas, and to permanently stabilize such areas in a manner that is economical, adapts to site conditions, and allows selection of the most appropriate plant materials. These areas must be seeded or planted within 30 working days or 120 calendar days after final grade is reached, unless temporary stabilization is applied.

PERMANENT SEEDING SPECIFICATIONS

Seeding Recommendations for Summer

SEEDING DATES— April to July
SEEDING MIXTURE
Species Rate (lb/acre)
Common bermudagrass 10/1,000 sf (sprigs)
1-2 lb/1,000 sf (seed)

SEEDING NOTES—

- Sprig or seed. Moisture is essential during initial establishment. Sod must be kept wet for 2-3 weeks, but can be planted earlier or later than sprigs.

Soil Amendments—
Apply lime and fertilizer according to soil tests or apply
3,000 lb/acre ground agricultural limestone and 500 lb/acre
10-10-10 fertilizer, or 50 lb/acre nitrogen from turf-type
slow-release fertilizer. Add 25-50 lb/acre nitrogen at
2-3 week intervals during midsummer.

Sprigging—
Plant sprigs in furrows with a tractor-drawn transplanter,
or broadcast by hand.

Furrows should be 4-6 inches deep and 2 feet apart.
Place sprigs about 2 ft. apart in a row with one end
at or above ground level.

Broadcast at rates shown above, and press sprigs into
the top 1/2-2 inches of soil with a disk set straight
so that sprigs are not brought back toward the surface.

Mulch—
Do not mulch.

Maintenance—
Water as needed and mow to 3/4 to 1-inch height.
Topdress with 40 lb/acre nitrogen in April, 50 lb in May,
50 lb in June, 50 lb in July, and 25 lb in August.

TEMPORARY SEEDING

The purpose of temporary seeding is to temporarily stabilize denuded areas that will not be brought to final grade for a period of more than 30 working days.

TEMPORARY SEEDING SPECIFICATIONS

Seeding Recommendations for Late Winter & Early Spring
SEEDING DATES— December 1 to April 15
SEEDING MIXTURE
Species Rate (lb/acre)
Rye 120
Annual Lespedeza 50
(Kobe)

*Omit annual lespedeza when duration of temporary cover is not to extend beyond June

Soil Amendments—
Follow recommendations of soil tests or apply 2,000 lb/acre
ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

Mulch—
Apply 4,000-lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch-anchoring tool. A disk with blades set nearly straight can be used as a mulch-anchoring tool.

Maintenance—
Reestablish if growth is not fully adequate. Reseed, fertilize and mulch immediately following erosion or other damage.

Seeding Recommendations for Summer
SEEDING DATES— April 15 to August 15
SEEDING MIXTURE
Species Rate (lb/acre)
German Millet 40

Soil Amendments—
Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

Mulch—
Apply 4,000-lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch-anchoring tool. A disk with blades set nearly straight can be used as a mulch-anchoring tool.

Maintenance—
Reestablish if growth is not fully adequate. Reseed, fertilize and mulch immediately following erosion or other damage.

Seeding Recommendations for Fall
SEEDING DATES— August 15 to December 30
SEEDING MIXTURE
Species Rate (lb/acre)
Rye 120
Soil Amendments—
Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 1,000 lb/acre 10-10-10 fertilizer.

Mulch—
Apply 4,000-lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch-anchoring tool. A disk with blades set nearly straight can be used as a mulch-anchoring tool.

Maintenance—
Repair and reestablish damaged areas immediately. Topdress with 50 lb/acre of nitrogen in March. If it is necessary to extend temporary cover beyond June 15, overseed with 50 lb/acre Kobe lespedeza in late February or Early March.

SODDING

The purpose of permanent seeding is to prevent erosion and damage from sediment and runoff by stabilizing the soil surface with permanent vegetation for the purpose of—
-the provision of immediate vegetative cover in critical areas
-to stabilize disturbed areas with a suitable plant material that cannot be established by seed.
-to stabilize drainageways & channels and other areas of concentrated flow where flow velocities will not exceed that specified grass lining.

SODDING SPECIFICATIONS

Sod Quality

- Sod should be machine cut at a uniform depth of 1/2-2 inches
- Sod should not have been cut in excessively wet or dry weather.
- Sections of sod should be standard size as determined by the supplier, uniform, and uniform.
- Sections of sod should be strong enough to support their own weight and retain their size and shape when lifted by one end.
- Harvest, delivery, and installation of sod should take place within a period of 36 hours.

Soil Amendments—
Apply lime and fertilizer according to soil tests or apply
2 tons/acre of pulverized agricultural limestone and 1,000 lb/acre
10-10-10 fertilizer in the fall, or 5-10-10 in spring.

Prior to laying sod, clear the soil surface of trash, debris, roots, branches, stones, and clods larger than 2 inches in diameter. Fill or level low spots in order to avoid standing water. Rake or harrow the site to achieve a smooth and level final grade. Complete soil preparation by rolling or cultipacking to firm soil.

Sod Installation—
1. Moistening the sod after it is unraveled helps maintain viability. Store in shade during installation.

2. Rake the soil surface to break the crust just before laying sod. During the summer, lightly irrigate the soil, immediately before laying sod to cool the soil and reduce root burning & dieback.

3. Do not sod on grave, frozen soils, or soils that have been treated recently with sterilants or herbicides.

4. Lay the first row of sod in a straight line with subsequent rows placed parallel to and butting tightly against each other. Stagger strips in a brick-like pattern. Be sure that the sod is not stretched or overlapped and that all joints are butted tightly to prevent voids. Use a knife or sharp spade to trim and fit irregular shaped areas.

5. Install strips of sod with their longest dimension perpendicular to the slope. On slopes of 3:1 or greater, or wherever erosion may be a problem, secure sod with pegs or staples.

6. As sodding of clearly defined areas is completed, roll sod to provide good contact between roots and soil.

7. After rolling, irrigate until the soil is wet 4 inches below the sod.

8. Keep sodded areas moist to a depth of 4 inches until the grass takes root. This can be determined by tugging on the sod.

9. Mowing should not be attempted until the sod is firmly rooted, usually 2-3 weeks.

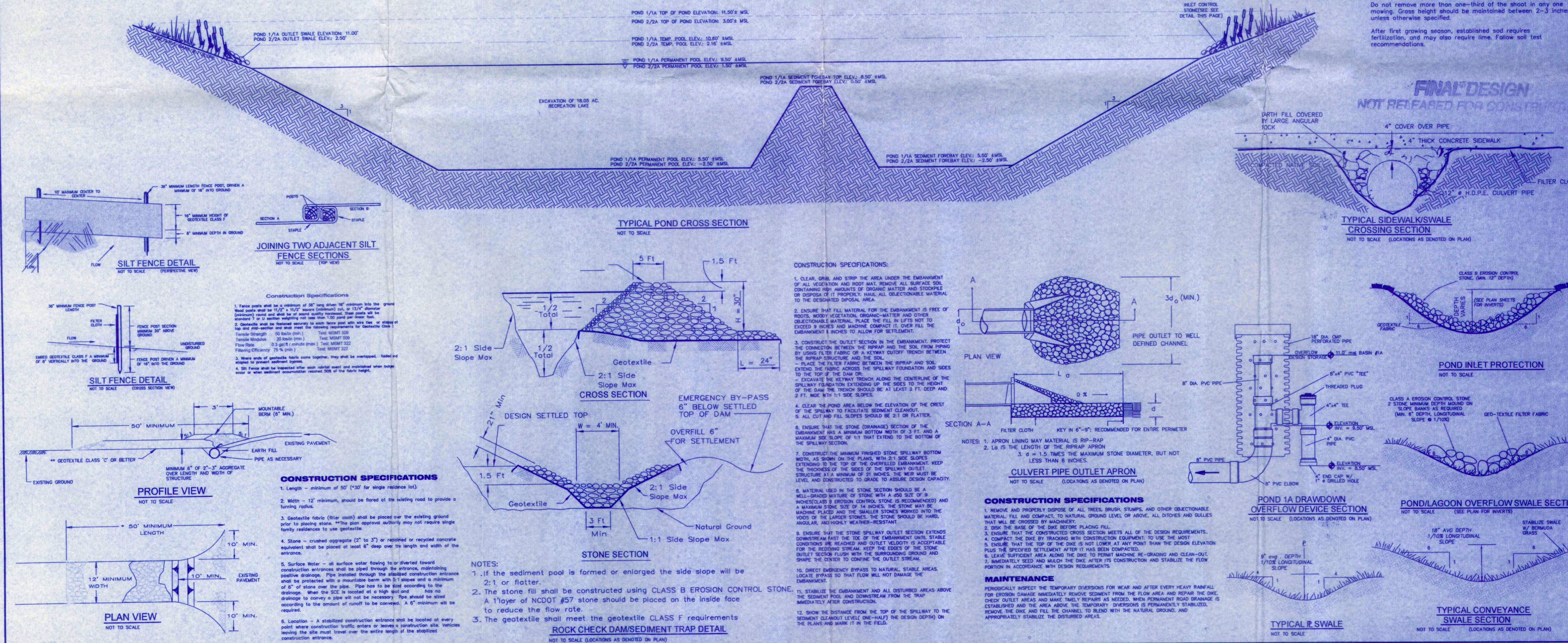
Sodded Waterways

- Prepare soil as described above.
- Lay sod strips perpendicular to the direction of flow, with the lateral joints staggered in a brick-like pattern. Butt edges tightly together.

Maintenance—
After the first week, water as necessary to maintain adequate moisture in the root zone & prevent dormancy of the sod.

Do not remove more than one-third of the shoot in any one mowing. Grass height should be maintained between 2-3 inches unless otherwise specified.

After first growing season, established sod requires fertilization, and may also require lime. Follow soil test recommendations.



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BASEL
PROFESSIONAL GROUP

Stormwater Management
E & S Control Details

WATERSIDE VILLAGES

POPULAR BRANCH TOWNSHIP

CURRITUCK COUNTY

NORTH CAROLINA

PROJECT

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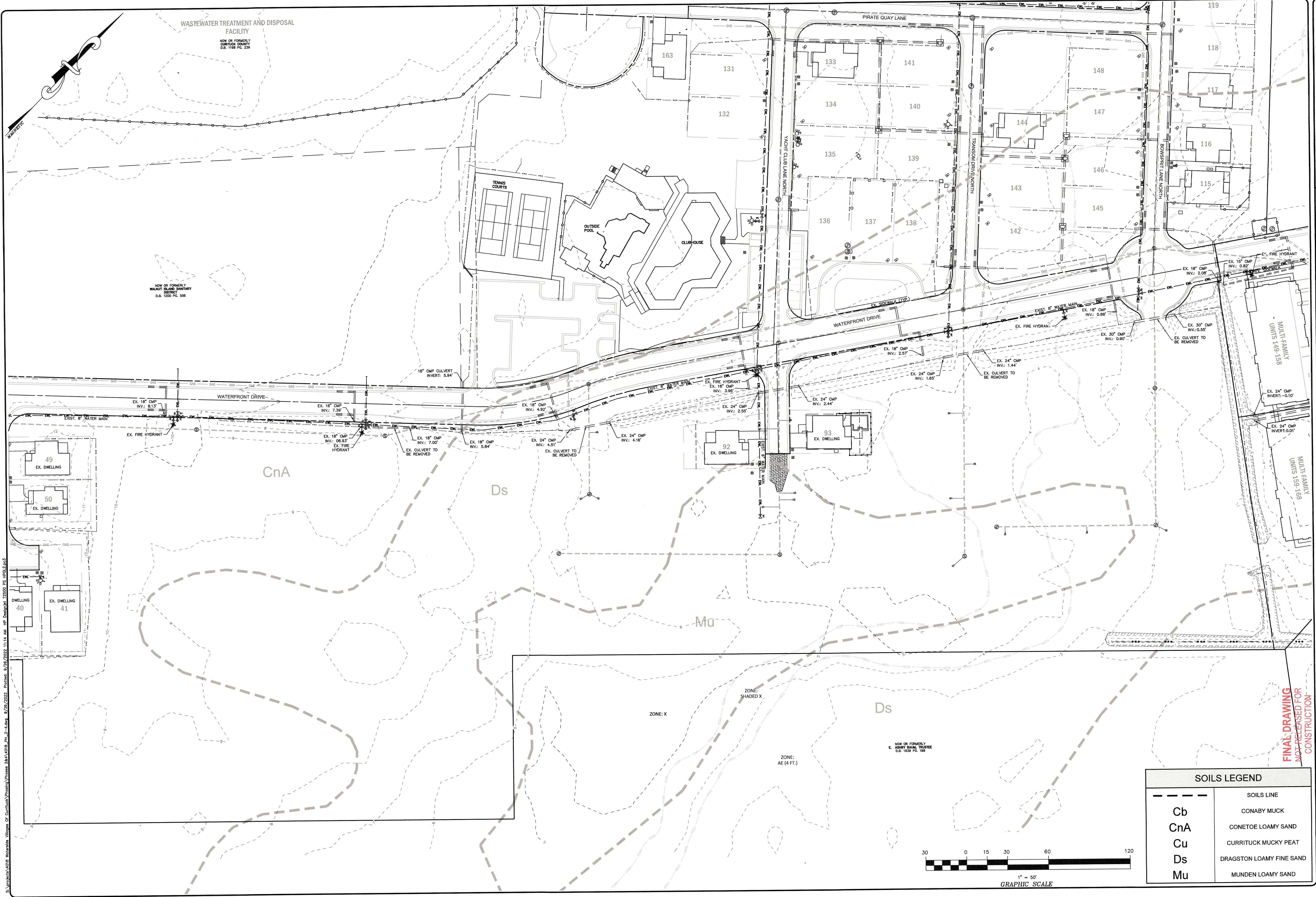
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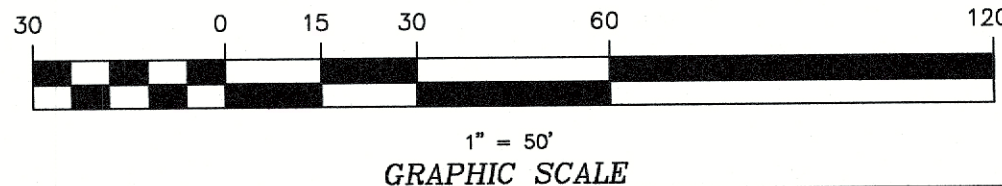
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SOILS LEGEND	
SOILS LINE	
Cb	CONABY MUCK
CnA	CONETOE LOAMY SAND
Cu	CURRUTUCK MUCKY PEAT
Ds	DRAGSTON LOAMY FINE SAND
Mu	MUNDEN LOAMY SAND



BISSELL
PROFESSIONAL GROUP

Engineers, Planners, Surveyors
and Environmental Specialists

EXISTING FEATURES MAP
AND DEMOLITION PLAN

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PROJECT: WATERSIDE VILLAGES OF CURRUTUCK
POPULAR BRANCH TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA

CONSTRUCTION DRAWINGS PHASES 2 & 4

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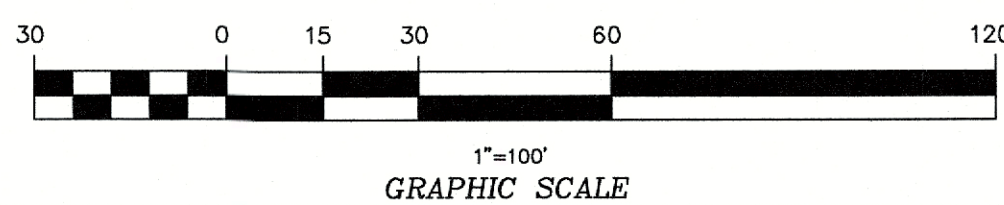
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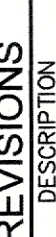
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SHEET: 2 OF 23

CAD FILE: 4018_PH_2-4

PROJECT NO: 4018



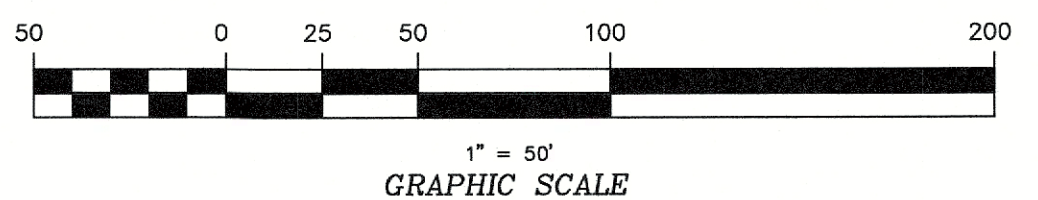
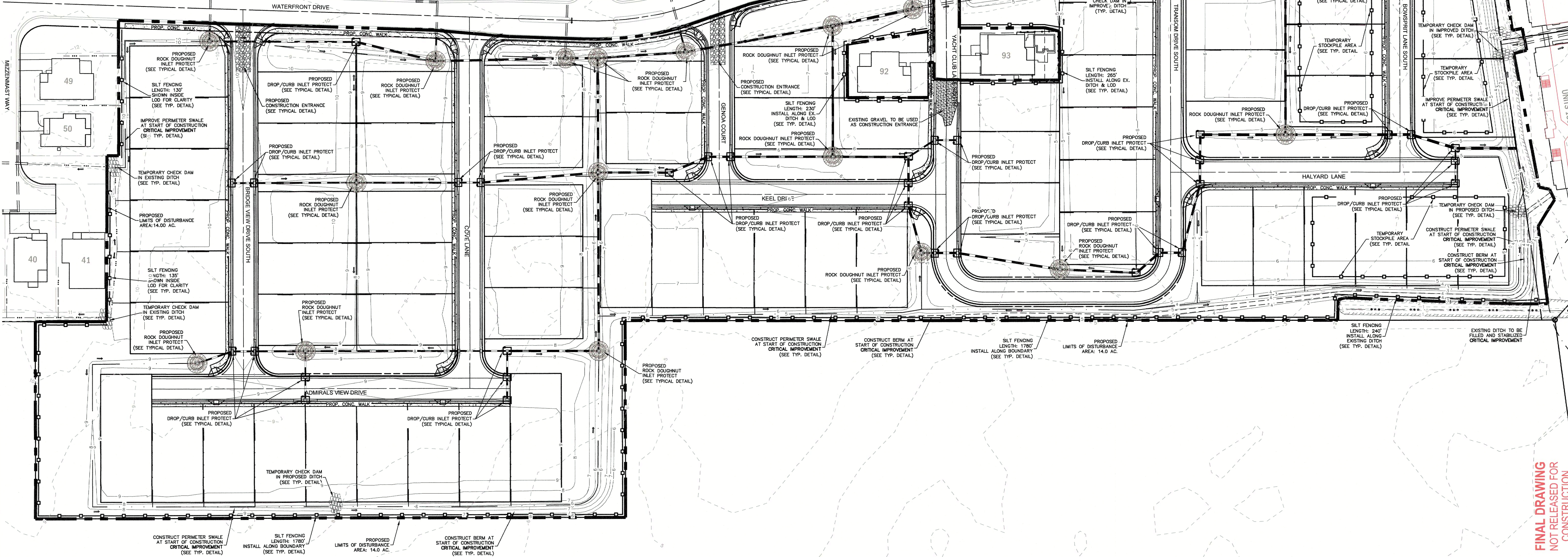
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NO.	DATE	DESCRIPTION
 PROFESSIONAL ENGINEER STATE OF NORTH CAROLINA NO. 42698 DAVID W. KIEBERT		
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SHEET: 3 OF 23		
CAD FILE: 4018_PH-2-4		
PROJECT NO: 4018		

SEDIMENTATION AND EROSION CONTROL NOTES

- THESE NOTES ARE IN ADDITION TO THE SEDIMENTATION AND EROSION CONTROL NOTES AND DETAILS PROVIDED ON SHEETS 19, 20 & 21.
- ALL MATERIALS EXCAVATED OVER THE COURSE OF CONSTRUCTION SHALL REMAIN ON THE PROJECT SITE. THIS MATERIAL SHALL BE USED FOR FILLING EXISTING DITCHES, CONSTRUCTION OF ROADWAYS AND PREPARING RESIDENTIAL LOTS AS ILLUSTRATED ON THE GRADING PLANS. IF NECESSARY, EXCAVATED MATERIALS REMAINING AT THE END OF CONSTRUCTION MAY BE DISPOSED OF OFF-SITE AT AN APPROVED AND PERMITTED BORROW PIT.
- OFF-SITE BORROW, IF NECESSARY, MUST BE OBTAINED FROM AN APPROVED AND PERMITTED BORROW PIT OR LAND DISTURBANCE.
- THIS PROJECT IS ANTICIPATED TO BE CONSTRUCTED IN A SINGLE PHASE.
- NO GREATER THAN 14.0 ACRES OF LAND SHALL BE DISTURBED. CONSTRUCTION AND STABILIZATION ACTIVITIES SHALL, TO THE MAXIMUM EXTENT PRACTICABLE, BE SCHEDULED ACCORDINGLY.
- THE FOLLOWING PROVIDES AN ESTIMATED MATERIAL BALANCE OF THIS PHASE OF THE PROJECT:
APPROXIMATE CUT VOLUME: 1,700 CY
APPROXIMATE FILL VOLUME: 19,700 CY
THE VALUES ARE GROSS ESTIMATES AND ARE PROVIDED FOR PERMITTING PURPOSES ONLY. COMPACTION AND SUITABILITY OF SOILS FOR USE IN CONSTRUCTION ARE NOT CONSIDERED AND ADDITIONAL MATERIAL MAY BE NECESSARY. CONTRACTORS SHALL NOT RELY UPON THESE ESTIMATES AND SHOULD DETERMINE THEIR OWN MATERIAL NEEDED FOR CONSTRUCTION.

CONSTRUCTION SEQUENCE

- INSTALL CONSTRUCTION ENTRANCES AT CONNECTIONS TO WATERFRONT DRIVE.
- INSTALL PERIMETER SILT FENCE WHERE SPECIFIED.
- INSTALL PERIMETER BERMS, SWALES AND DRAINAGE IMPROVEMENTS ALONG WATERFRONT DRIVE. THESE ARE CRITICAL IMPROVEMENTS THAT MUST BE STABILIZED WITH 7 DAYS OF COMPLETION.
- INSTALL TEMPORARY CHECK DAMS WITHIN PERIMETERS SWALES WHERE SPECIFIED.
- CONDUCT GENERAL CONSTRUCTION ACTIVITIES FOR INSTALLATION OF PROPOSED ROADWAY, DRAINAGE AND UTILITY IMPROVEMENTS.
- STOCK PILE EXCESS MATERIALS IN AREAS DESIGNATED AT THE EAST END OF THE SITE. THESE MATERIALS MAY BE USED FOR FUTURE BUILDING CONSTRUCTION.
- INSTALL REMAINING TEMPORARY CHECK DAMS, DROP/CURB INLET PROTECTION AND ROCK DOUGHNUT INLET PROTECTIONS MEASURES WHERE SPECIFIED AND AS NEEDED.
- DURING THE COURSE OF CONSTRUCTION, MAINTAIN ALL INSTALLED MEASURES AND ANY ADDITIONAL PROTECTION MEASURES AS NECESSARY AND WHERE NOTED.
- PERMANENTLY SEED AND STABILIZED ALL DISTURBED AREAS.
- AFTER STABILIZATION IS ESTABLISHED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES, RETURN TO DESIGN CONDITIONS AND SEED & STABILIZE THOSE AREAS.



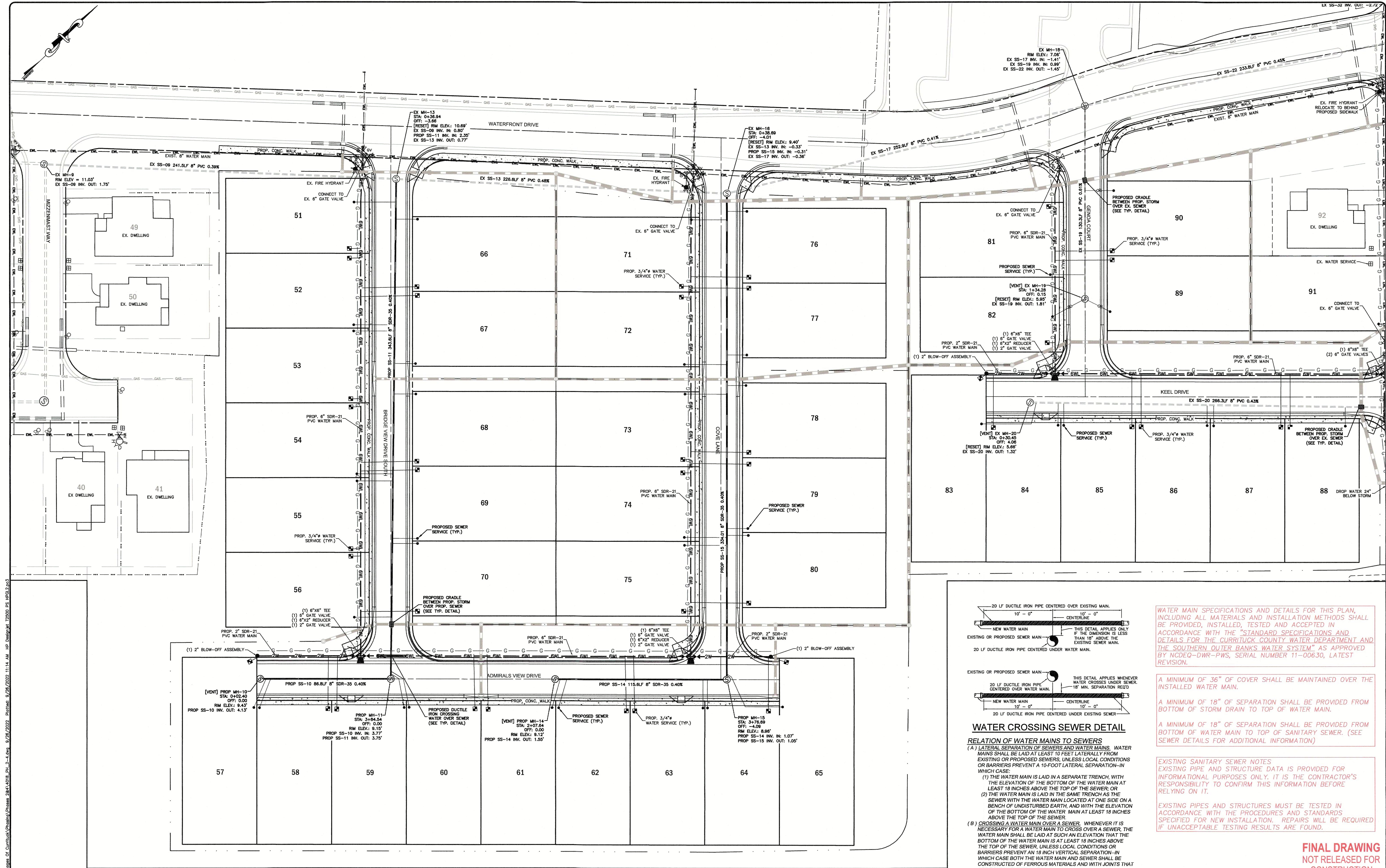
BISSELL Professional Group
3512 North Coast Highway
Corolla, NC 27825
Phone: (252) 281-1760
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Engineers, Planners, Surveyors
and Environmental Specialists

**EROSION & SEDIMENT
CONTROL PLAN & SEQUENCE**

WATERSIDE VILLAGES OF CURRITUCK
NORTH CAROLINA
CURRITUCK COUNTY
POPULAR BRANCH TOWNSHIP

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		8		PROJECT NO: 4018	

PROFESSIONAL
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BY: [Signature]
FOR CURRITUCK COUNTY



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WATERSIDE VILLAGES OF CURRITUCK
WATER MAIN EXTENSION PLAN
NORTH CAROLINA
CURRITUCK COUNTY
POPLAR BRANCH TOWNSHIP

PROJECT NO. 4018 PH 2-4

DATE: 9-26-22

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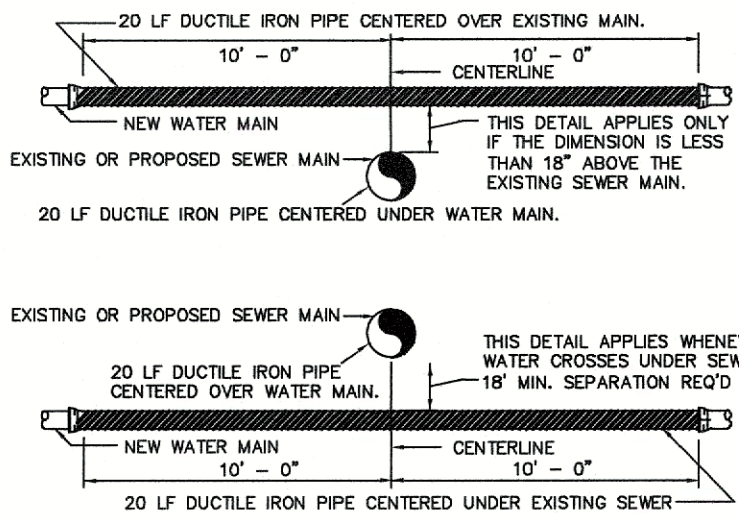
SHEET: 7 OF 23

CAD FILE: 4018 PH 2-4

PROJECT NO: 4018

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Firm License # C-955
P.O. Box 1098 South Carolina 29169
(252) 261-3261
(252) 261-3262
FAX (252) 261-1760

CONSTRUCTION DRAWINGS PHASES 2 & 4



WATER CROSSING SEWER DETAIL

- RELATION OF WATER MAINS TO SEWERS**
- (A) LATERAL SEPARATION OF SEWERS AND WATER MAINS. WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWERS, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10-FOOT LATERAL SEPARATION-IN WHICH CASE:
- (1) THE WATER MAIN IS LAID IN A SEPARATE TRENCH WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER; OR
- (2) THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH, AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.
- (B) CROSSING A WATER MAIN OVER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT AN 18 INCH VERTICAL SEPARATION-IN WHICH CASE BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.
- (C) CROSSING A WATER MAIN UNDER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.

WATER MAIN SPECIFICATIONS AND DETAILS FOR THIS PLAN, INCLUDING ALL MATERIALS AND INSTALLATION METHODS SHALL BE PROVIDED, INSTALLED, TESTED AND ACCEPTED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS AND DETAILS FOR THE CURRITUCK COUNTY WATER DEPARTMENT AND THE SOUTHERN OUTER BANKS WATER SYSTEM" AS APPROVED BY NCDEQ-DWR-PWS, SERIAL NUMBER 11-00630, LATEST REVISION.

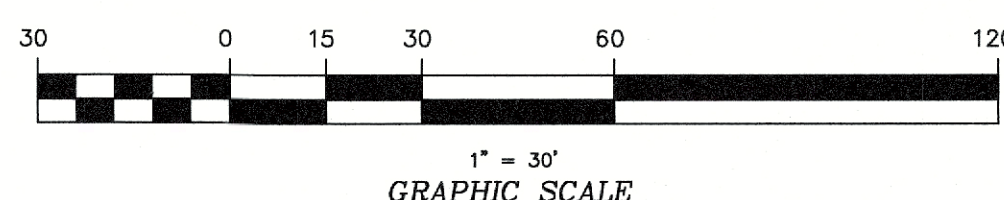
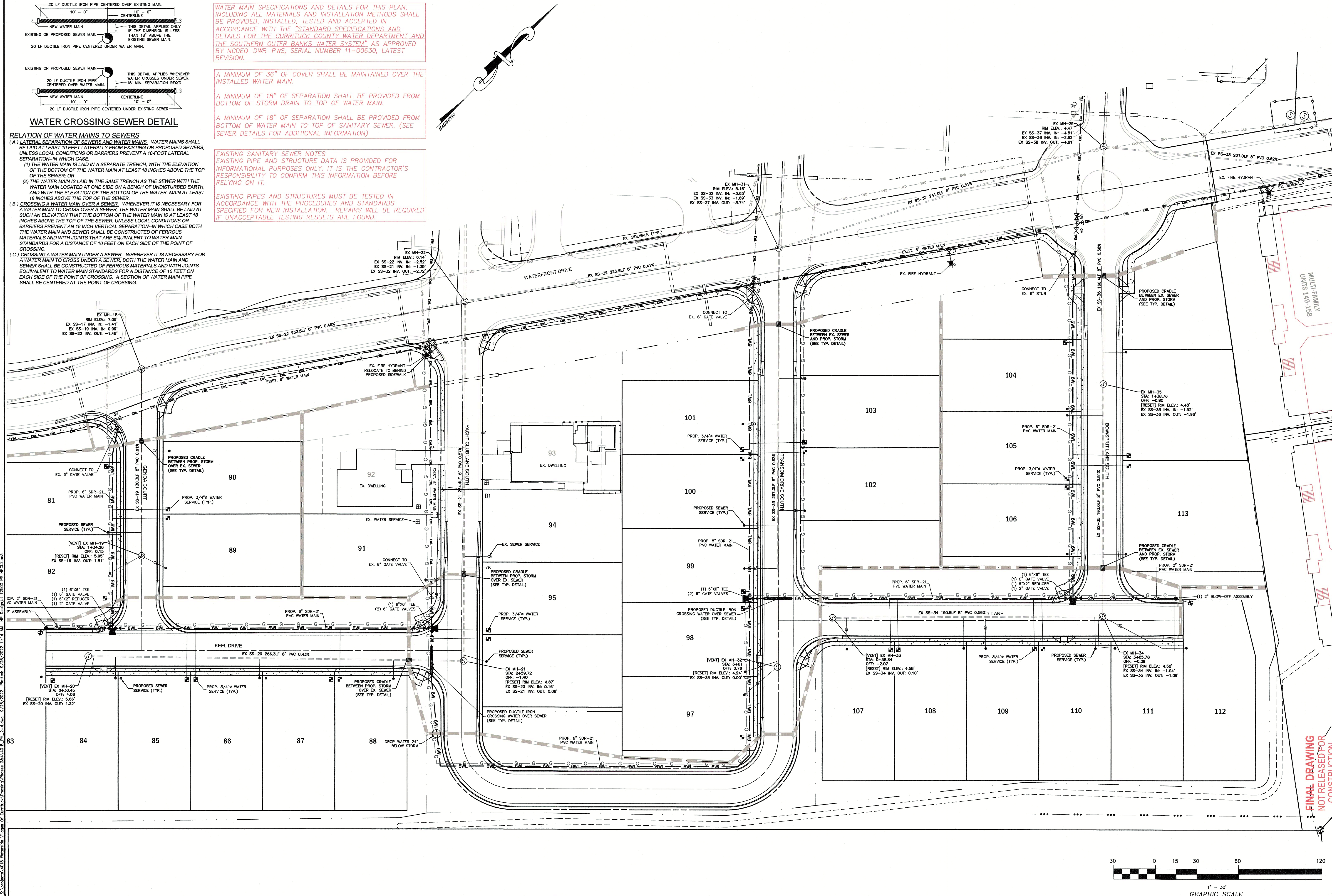
A MINIMUM OF 36" OF COVER SHALL BE MAINTAINED OVER THE INSTALLED WATER MAIN.

A MINIMUM OF 18" OF SEPARATION SHALL BE PROVIDED FROM BOTTOM OF STORM DRAIN TO TOP OF WATER MAIN.

A MINIMUM OF 18" OF SEPARATION SHALL BE PROVIDED FROM BOTTOM OF WATER MAIN TO TOP OF SANITARY SEWER. (SEE SEWER DETAILS FOR ADDITIONAL INFORMATION)

EXISTING SANITARY SEWER NOTES
EXISTING PIPE AND STRUCTURE DATA IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THIS INFORMATION BEFORE RELYING ON IT.

EXISTING PIPES AND STRUCTURES MUST BE TESTED IN ACCORDANCE WITH THE PROCEDURES AND STANDARDS SPECIFIED FOR NEW INSTALLATION. REPAIRS WILL BE REQUIRED IF UNACCEPTABLE TESTING RESULTS ARE FOUND.



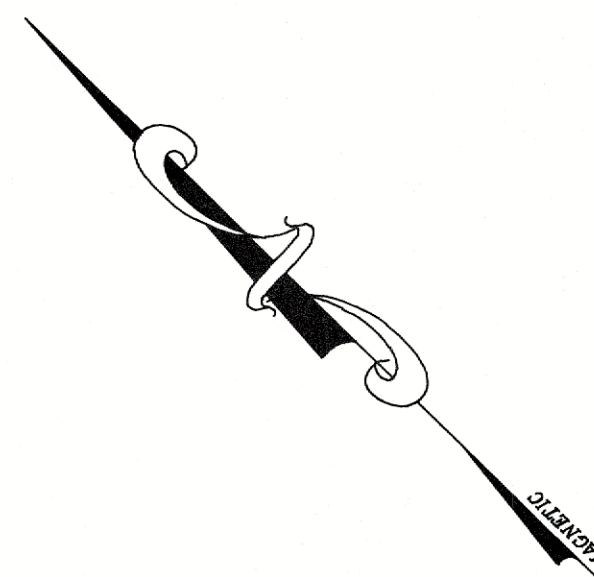
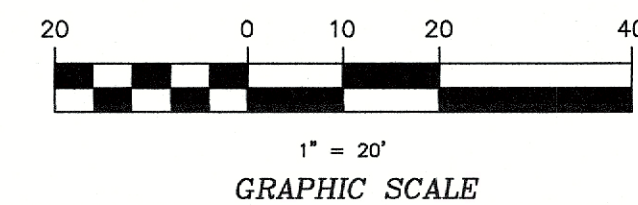
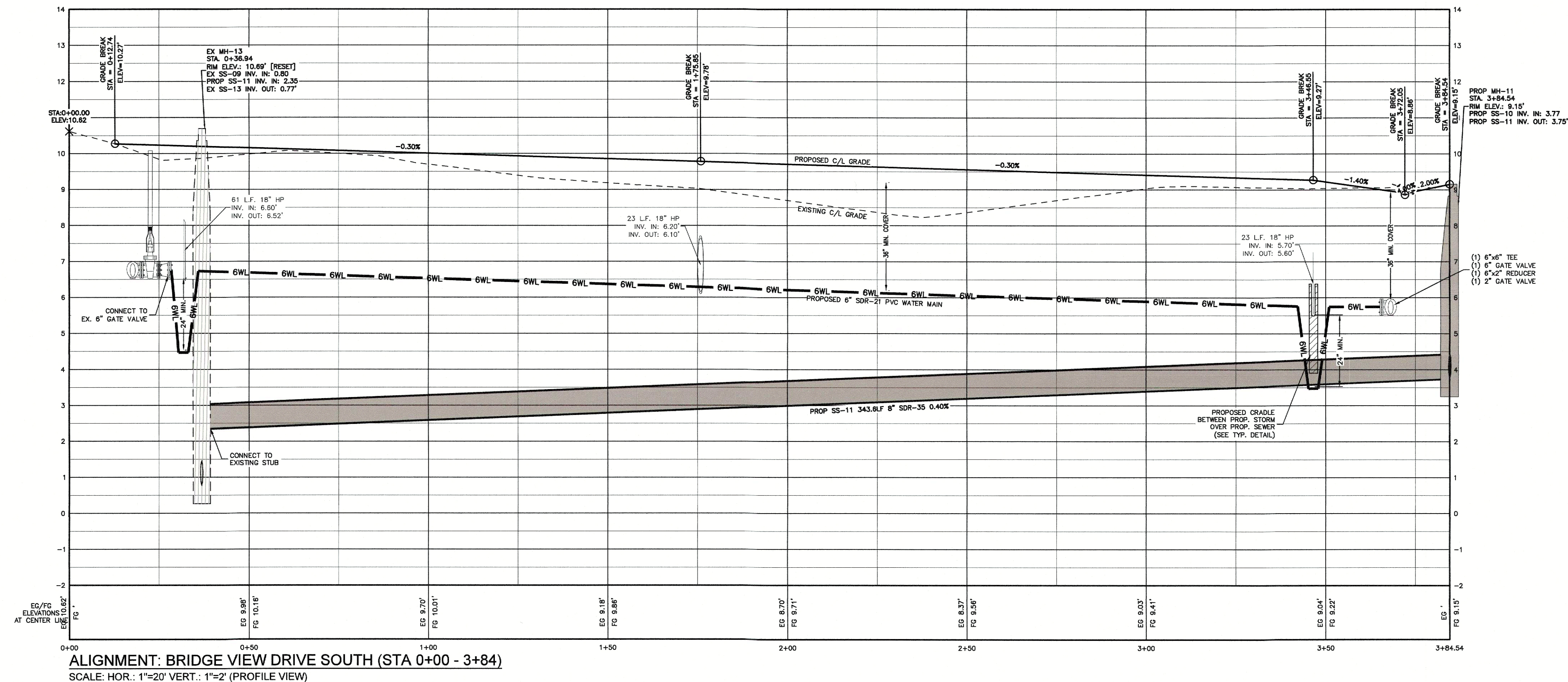
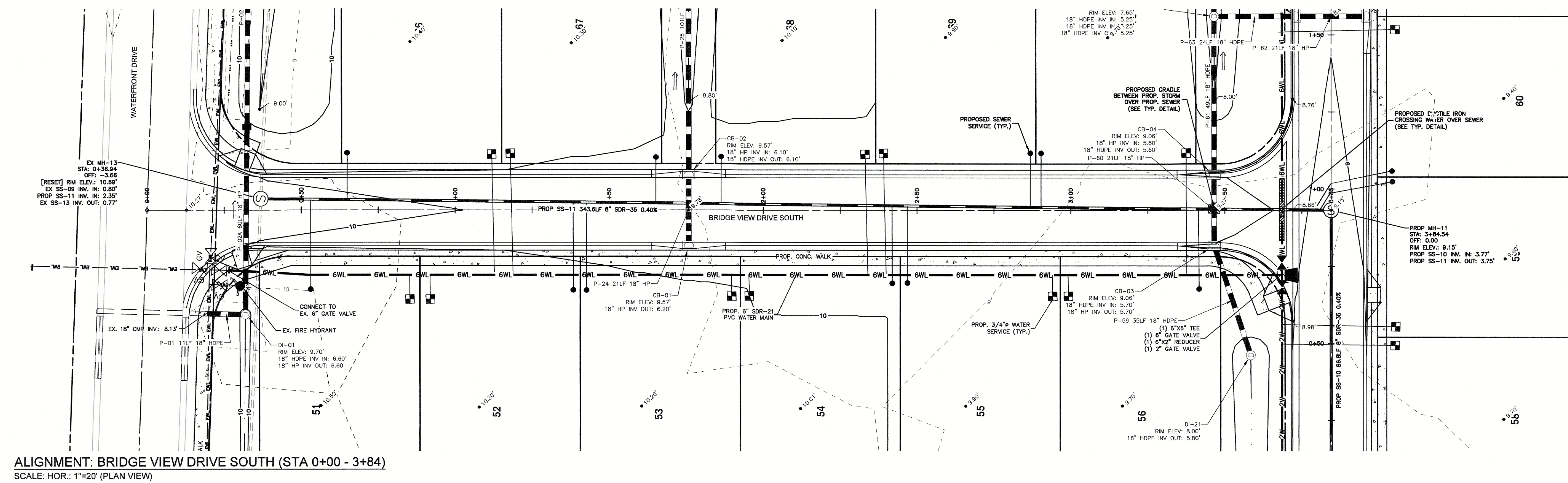
Bissell Professional Group
Professional Group
P.O. Box 1088
2252 2nd St. SE
Durham, NC 27601
Tel: (919) 286-1790
Fax: (919) 286-1790

WASTEWATER COLLECTION & WATER MAIN EXTENSION PLAN
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WATERSIDE VILLAGES OF CURRITUCK
NORTH CAROLINA
CURRITUCK COUNTY
POPLAR BRANCH TOWNSHIP
CONSTRUCTION DRAWINGS PHASES 2 & 4

REVISIONS		BY	
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DRAWN: KFW/DMK APPROVED: BPG
SHEET: 8 OF 23
CAD FILE: 4018 PH 2-4
PROJECT NO: 4018



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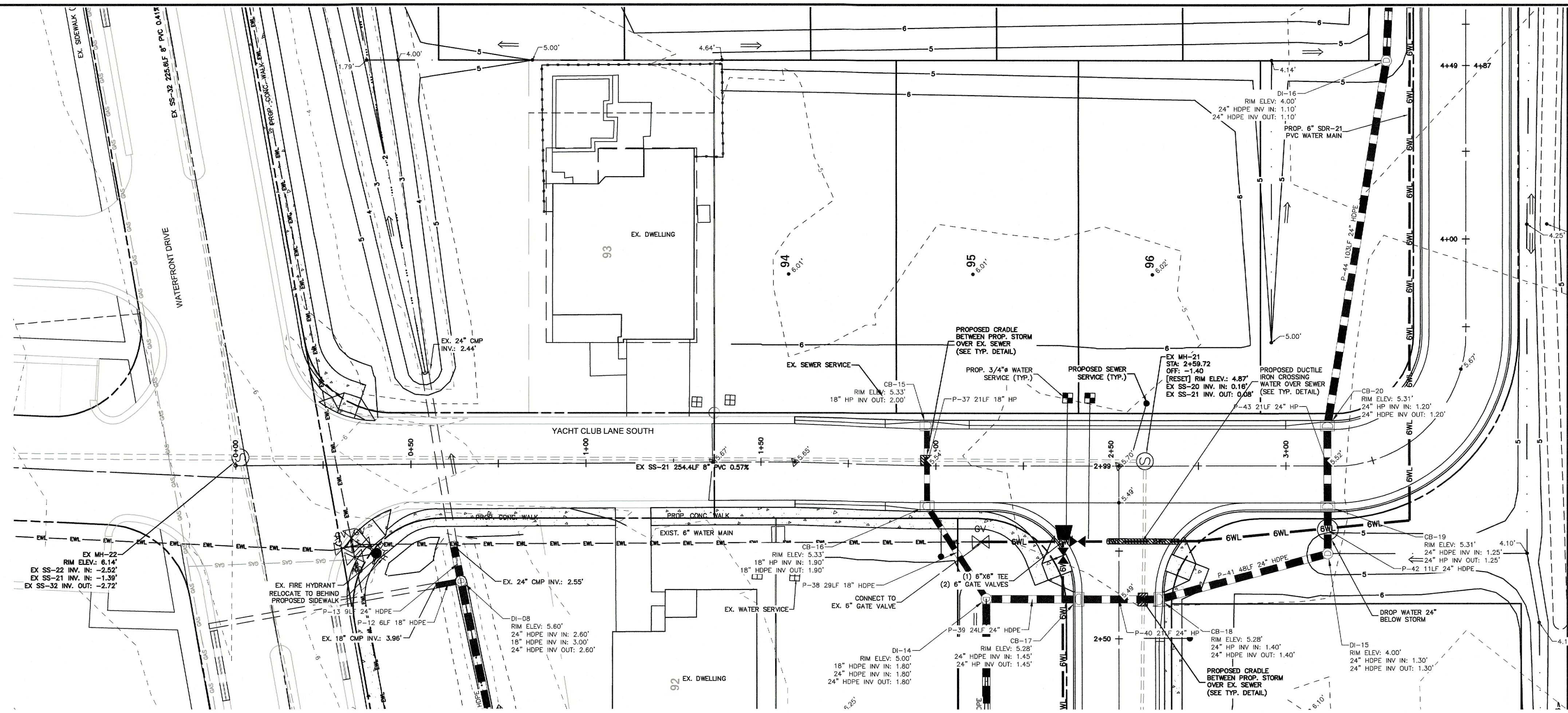
PROJECT: **WATERSIDE VILLAGES OF CURRITUCK**
POPLAR BRANCH TOWNSHIP **CURRITUCK COUNTY** **NORTH CAROLINA**

BRIDGE VIEW DRIVE SOUTH
PLAN & PROFILE (STATION 0+00 - 3+84)

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PO Box 1000
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FINAL DRAWING
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PLAN & PROFILE (STATION 0+00 - 4+49)

PROJECT
WATERSIDE VILLAGES OF CURRITUCK
PIPLAR BRANCH TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA
CONSTRUCTION DRAWINGS PHASES 2 & 4

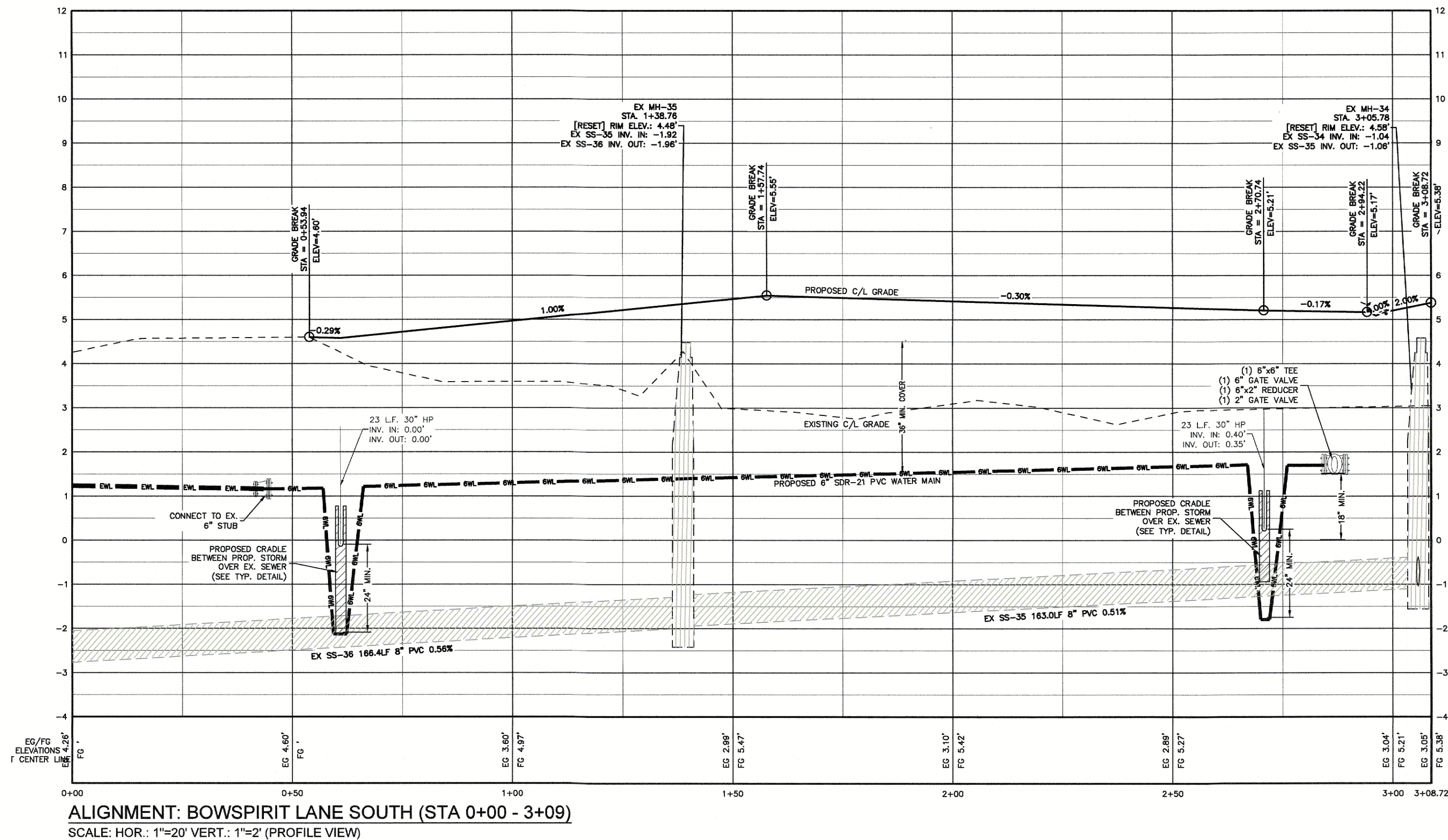
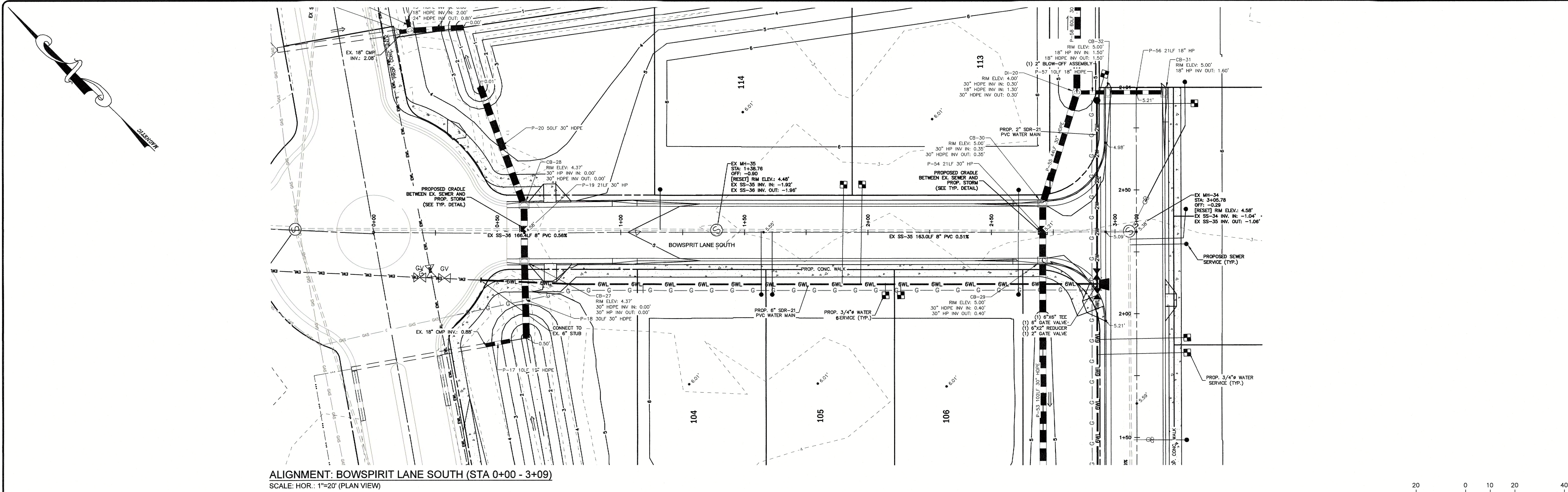
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PROJECT NO:	4018		

PROJECT: WATERSIDE VILLAGES OF CURRITUCK
POPULAR BRANCH TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA
CONSTRUCTION DRAWINGS PHASES 2 & 4

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GENERAL PROJECT NOTES:

- PROJECT NAME: WATERSIDE VILLAGES OF CURRITUCK - PHASES 2 & 4
GRANDY, CURRITUCK COUNTY, NORTH CAROLINA
- DEVELOPER: WSV HOLDINGS, LLC
P.O. BOX 90
KILL DEVIL HILLS, NC 27848
- PROJECT DESCRIPTION: PLANNED DEVELOPMENT RESIDENTIAL SUBDIVISION
- NEAREST RECEIVING STREAM: DOWDY'S BAY - INDEX NUMBER: 30-1-15
- STREAM CLASSIFICATION: SC; RIVER BASIN: PASQUOTANK

TOTAL PROJECT AREA:	13.65 AC.
PROPOSED DISTURBED AREA:	14.00 AC.

AREA CALCULATION NOTE:
All areas have been calculated utilizing properties within the Autocad software.

MATERIAL BALANCE NOTE:
All excavated material occurring during the course of construction shall remain on-site for roadway construction and lot grading. See SCHEDULE OF LAND DISTURBING ACTIVITIES provided on Sheet 5 of this set for an estimated cut/fill material balance for the project.

WETLAND NOTE:
There are no 404 jurisdictional wetlands designated in the area of proposed construction

STABILIZATION NOTE:
The angle of graded slopes and fills shall be no greater than the angle that can be retained by vegetative cover or other adequate erosion control devices or structures.
In any event, all disturbed areas left exposed will, **WITHIN 14 CALENDAR DAYS OF COMPLETION** of any phase of grading, be planted or otherwise provided with temporary or permanent ground cover, devices, or structures sufficient to restrain erosion.
Additionally, certain critical areas as identified on the plan, such as, but not limited to, perimeter dikes, swales, slopes steeper than 3:1, and areas located within High Quality Water Zones, must be temporarily or permanently stabilized **WITHIN 7 CALENDAR DAYS OF COMPLETION** of any phase of grading in these areas.
A permanent ground cover for all disturbed areas must be provided **WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS** (whichever is shorter) following completion of construction or development.

CONSTRUCTION SEQUENCE SCHEDULE

CONSTRUCTION ACTIVITY
Construction Access-- Construction entrance, construction routes, equipment parking areas

Sediment Traps & Barriers
Basin traps, sediment fences, & outlet protection

Runoff Control--
Diversions, perimeter dikes, water bars, and outlet protection

Runoff Conveyance System--
Stabilizes stream banks, storm drains, channels, inlet & outlet protection, slope drains

Land Clearing & Grading--
Site preparation-- cutting, filling & grading, sediment traps, barriers, diversions, drains, surface roughening

Surface Stabilization--
Temporary & permanent seeding, mulching, sodding, rip rap.

Building Construction--
Buildings, utilities, paving.

Landscaping & Final Stabilization--
Topsoiling, trees & shrubs, permanent seeding, mulching, sodding, rip rap

SCHEDULE CONSIDERATION

First land-disturbing activity--Stabilize bare areas immediately with gravel & temporary vegetation as construction takes place.

Install principal basins after construction site is accessed. Install additional traps and barriers as needed during grading.

Install key practices after principal sediments traps and before land grading. Install additional runoff-control conveyance measures during grading.

Where necessary, stabilize stream banks as early as possible. Install principal runoff conveyance system with runoff-control measures. Install remainder of system after grading.

Begin major clearing and grading after principal & key runoff-control measures area installed. Clear borrow & disposal areas as needed. Install additional control measures as grading progresses. Mark trees & buffer areas for preservation.

Apply temporary or permanent stabilization measures immediately on all disturbed areas where work is delayed or complete.

Install necessary erosion & sedimentation control practices as work takes place.

Stabilize all open areas, including borrow & spoil areas. Remove & stabilize all temporary control measures.

LAND GRADING CONSTRUCTION SPECIFICATIONS

- Construct & maintain all erosion & sedimentation control practices & measures in accordance with the approved sedimentation control plan and construction schedule.
- Remove good topsoil from areas to be graded and filled, and preserve it for use in finishing the grading of all critical areas.
- Scarify areas to be topsoiled to a minimum depth of 2 inches before placing topsoil.
- Clear & grub areas to be filled to remove trees, vegetation, roots, or other objectionable material that would affect the planned stability of fill.
- Ensure that fill material is free of brush, rubbish, rocks, logs, stumps, building debris, and other materials inappropriate for constructing stable fills.
- Place all fill in layers not to exceed 9 inches in thickness, and compact the layers as required to reduce erosion, slippage, settlement, or other related problems.
- Do not incorporate frozen material or soft, mucky, or highly compressible materials into fill slopes.
- Do not place fill on a frozen foundation, due to possible subsidence and slippage.
- Keep diversions and other water conveyance measures free of sediment during all phases of development.
- Handle seeps or springs encountered during construction in accordance with approved methods.

Following completion of any phase of grading, provide a groundcover (temporary stabilization measures) immediately on all exposed slopes within 14 calendar days in critical areas identified on the plan; and, a permanent groundcover for all disturbed areas within 15 working days or 90 calendar days (whichever is shorter) following completion of construction or development.

Provide adequate protection from erosion for all topsoil stockpiles, borrow areas, and spoil areas.

MAINTENANCE
Periodically check all graded areas & the supporting erosion & sedimentation control practices, especially after heavy rainfalls. Promptly remove all sediment from diversions and other water-disposal practices. If washouts or breaks occur, repair them immediately. Prompt maintenance of small-eroded areas before they become significant gullies is an essential part of an effective erosion & sedimentation control plan.

PERMANENT SEEDING

The purpose of permanent seeding is to reduce erosion and decrease sediment yield from disturbed areas, and to permanently stabilize such areas in a manner that is economical, adapts to site conditions, and allows selection of the most appropriate plant materials. These areas must be seeded or planted within 15 working days or 90 calendar days after final grade is reached, unless temporary stabilization is applied.

PERMANENT SEEDING SPECIFICATIONS
Seeding Recommendations for Summer
SEEDING DATES-- April to July
SEEDING MIXTURE

Species	Rate
Common bermudagrass	10/1,000 sf (sprigs)
Winter Rye (grain)	1-2 lb/1,000 sf (seed)
Annual Lespedeza	50
(Kobe)	
*Omit Annual Lespedeza when duration of temporary cover is not to extend beyond June	

Seeding Recommendations for Early Fall through Early Spring
SEEDING DATES-- August to March (early fall and spring recommended)
SEEDING MIXTURE

Species	Rate
Kentucky 31 Tall Fescue	6 lb/1,000 sf (broadcast seed)

SEEDING NOTES--
1. Sprig or sod. Moisture is essential during initial establishment. Sod must be kept watered for 2-3 weeks, but can be planted earlier or later than sprigs.
2. Soil Amendments-- It is highly recommended that soils be tested and amended as found necessary. If a soil is not tested follow these recommendations: Apply 3,000 lb/acre of ground agricultural limestone and 500 lb/acre of 10-10-10 starter fertilizer, or 50 lb/acre nitrogen from turf-type slow-release fertilizer. Add 25-50 lb/acre nitrogen at 2-3 week intervals through midsummer.

Sprigging--
Plant sprigs in furrows with a tractor-drawn transplanter, or broadcast by hand. (Not recommended for Tall Fescue)
Furrows should be 4-6 inches deep and 2 feet apart. Place sprigs about 2 ft. apart in a row with one end at or above ground level.

Broadcast at rates shown above, and press sprigs into the top 1/2-2 inches of soil with a disk set straight so that sprigs are not brought back toward the surface.

Mulch--
Do not mulch Bermuda Grass. For Tall Fescue seed, apply 4,000-lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch-anchoring tool. A disk with blades set nearly straight can be used as a mulch-anchoring tool.
Maintenance--
Water as needed. Mow bermuda to 3/4 to 1-inch height and tall fescue to 2.5 - 3.5 inch height. Topdress bermuda with 40 lb/acre nitrogen in April, 50 lb in May, 50 lb in June, 50 lb in July, and 25 lb in August. Top dress tall fescue in mid September, again in November and February with turf-grade 3-1-2 or 4-1-2 ratio turf-grade fertilizer. Fertilize with 1 lb of actual nitrogen per 1,000 sf. Do not fertilize tall fescue between Mid March and Early September.

TEMPORARY SEEDING

The purpose of temporary seeding is to temporarily stabilize denuded areas that will not be brought to final grade or permanently seeded for a period of more than 14 calendar days, or 7 days in critical areas identified on the plan.

TEMPORARY SEEDING SPECIFICATIONS

Seeding Recommendations for Late Winter & Early Spring
SEEDING DATES-- December 1 to April 15
SEEDING MIXTURE
Species Rate (lb/acre)
Winter Rye (grain) 120 (Annual Ryegrass shall not be used)
Annual Lespedeza 50
(Kobe)
*Omit Annual Lespedeza when duration of temporary cover is not to extend beyond June

Soil Amendments--
Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

Mulch--
Apply 4,000-lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch-anchoring tool. A disk with blades set nearly straight can be used as a mulch-anchoring tool.

Maintenance--
Referitize if growth is not fully adequate. Reseed, fertilize and mulch immediately following erosion or other damage.

Seeding Recommendations for Summer
SEEDING DATES-- April 15 to August 15
SEEDING MIXTURE
Species Rate (lb/acre)
German Millet 40

Soil Amendments--
Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

Mulch--
Apply 4,000-lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch-anchoring tool. A disk with blades set nearly straight can be used as a mulch-anchoring tool.

Maintenance--
Referitize if growth is not fully adequate. Reseed, fertilize and mulch immediately following erosion or other damage.

Seeding Recommendations for Fall
SEEDING DATES-- August 15 to December 30
SEEDING MIXTURE
Species Rate (lb/acre)
Winter Rye (grain) 120
Soil Amendments--
Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 1,000 lb/acre 10-10-10 fertilizer.

Mulch--
Apply 4,000-lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch-anchoring tool. A disk with blades set nearly straight can be used as a mulch-anchoring tool.

Maintenance--
Repair and referitize damaged areas immediately. Topdress with 50 lb/acre of nitrogen in March. If it is necessary to extend temporary cover beyond June 15, overseed with 50 lb/acre Kobe Lespedeza in late February or Early March.

SODDING

The purpose of permanent seeding is to prevent erosion and damage from sediment and runoff by stabilizing the soil surface with permanent vegetation for the purpose of:
--the provision of immediate vegetative cover in critical areas
--to stabilize disturbed areas with a suitable plant material that cannot be established by seed.
--to stabilize drainage ways & channels and other areas of concentrated flow where flow velocities will not exceed that specified grass lining.

SODDING SPECIFICATIONS

Sod Quality
--Sod should be machine cut at a uniform depth of 1/2-2 inches
--Sod should not have been cut in excessively wet or dry weather.
--Sections of sod should be standard size as determined by the supplier, uniform, and untorn.
--Sections of sod should be strong enough to support their own weight and retain their size and shape when lifted by one end.
--Harvest, delivery, and installation of sod should take place within a period of 36 hours.

Soil Amendments--
Apply lime and fertilizer according to soil tests or apply 2 tons/acre of pulverized agricultural limestone and 1,000 lb/acre 10-10-10 fertilizer in the fall, or 5-10-10 in spring.

Prior to laying sod, clear the soil surface of trash, debris, roots, branches, stones, and clods larger than 2 inches in diameter. Fill or level low spots in order to avoid standing water. Rake or harrow the site to achieve a smooth and level final grade. Complete soil preparation by rolling or outpicking to firm soil.

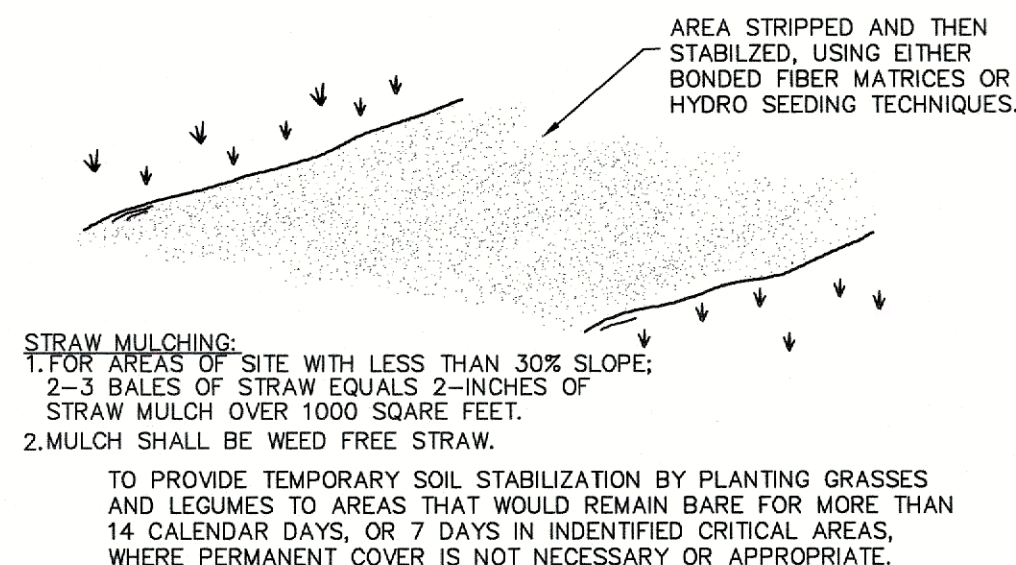
Sod Installation--
1. Moistening the sod after it is unrolled helps maintain viability. Store in shade during installation.
2. Raise the soil surface to break the crust just before laying sod. During the summer, lightly irrigate the soil, immediately before laying sod to cool the soil and reduce root burning & dieback.
3. Do not sod on grove, frozen soils, or soils that have been treated recently with sterilants or herbicides.
4. Lay the first row of sod in a straight line with subsequent rows placed parallel to and butting tightly against each other. Stagger strips in a brick-like pattern. Be sure that the sod is not stretched or overlapped and that all joints are butted tightly to prevent voids. Use a knife or sharp spade to trim and fit irregular shaped areas.
5. Install strips of sod with their longest dimension perpendicular to the slope. On slopes of 3:1 or greater, or wherever erosion may be a problem, secure sod with pegs or staples.
6. As sodding of clearly defined areas is completed, roll sod to provide good contact between roots and soil.
7. After rolling, irrigate until the soil is wet 4 inches below the sod.
8. Keep sodded areas moist to a depth of 4 inches until the grass takes root. This can be determined by tugging on the sod.
9. Mowing should not be attempted until the sod is firmly rooted, usually 2-3 weeks.

Sodded Waterways

1. Prepare soil as described above.
2. Lay sod strips perpendicular to the direction of flow, with the lateral joints staggered in a brick-like pattern. Butt edges tightly together.

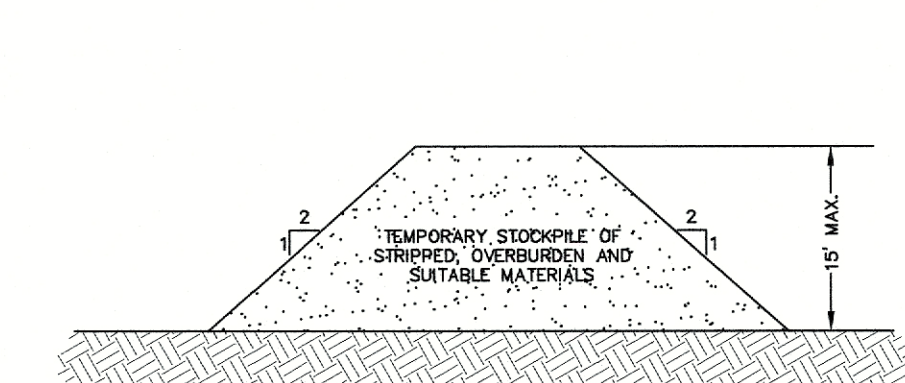
Maintenance--
After the first week, water as necessary to maintain adequate moisture in the root zone & prevent dormancy of the sod.

Do not remove more than one-third of the shoot in any one mowing. Grass height should be maintained between 2-3 inches unless otherwise specified.
After first growing season, established sod requires fertilization, and may also require lime. Follow soil test recommendations.



LAND DISTURBANCE & STABILIZATION DETAIL

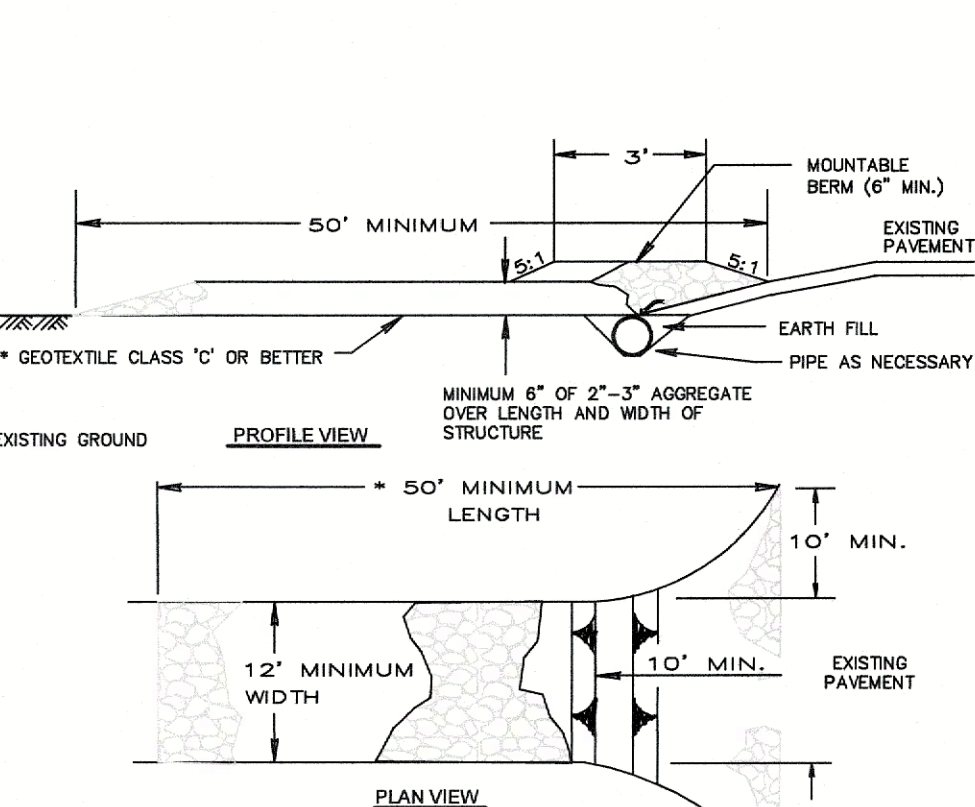
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TYPICAL STOCKPILE SECTION

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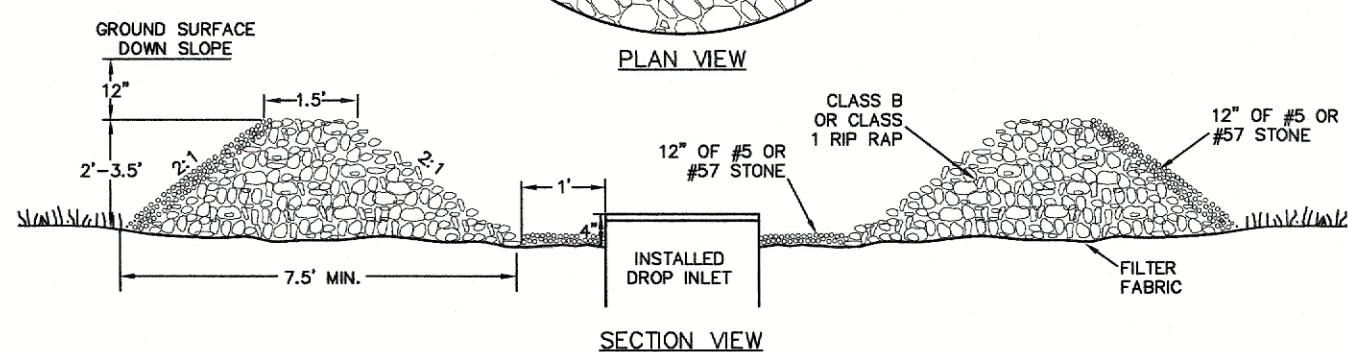
STOCKPILES HAVING 2:1 SIDE SLOPES ARE CONSIDERED CRITICAL. AREA SIZE STABILIZATION NOTES FOR TEMPORARY AND PERMANENT STABILIZATION REQUIREMENTS. LEVEL GRADE AREA AND STABILIZE AT COMPLETION



CONSTRUCTION ENTRANCE

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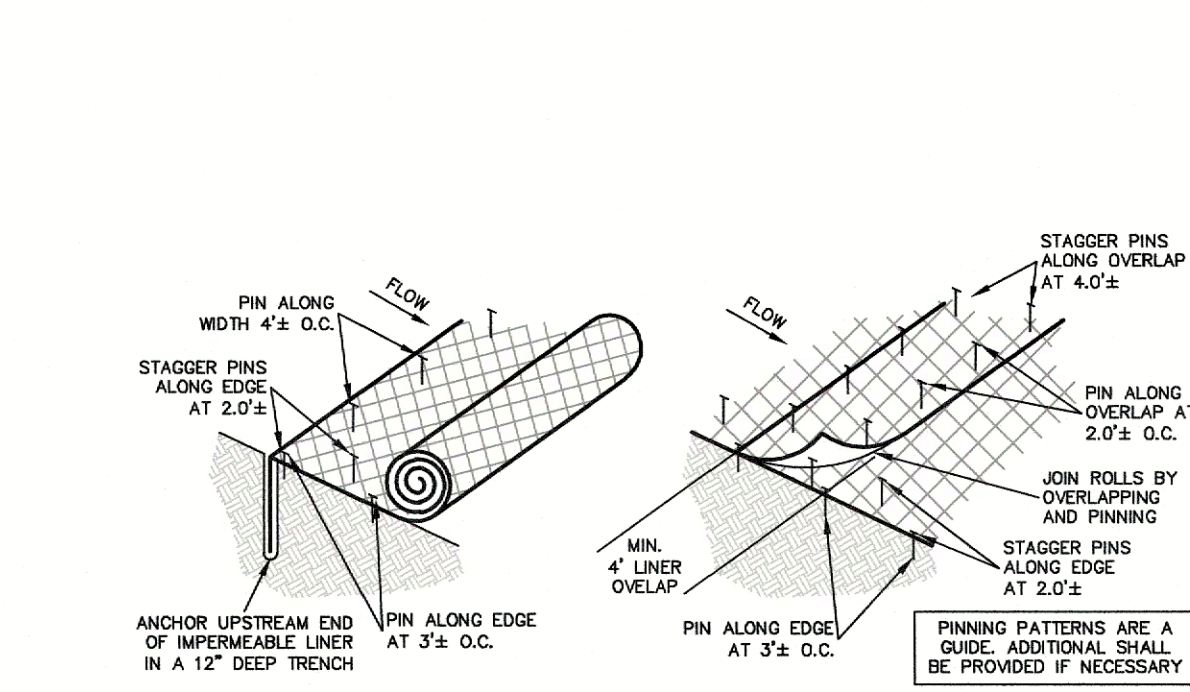
- CONSTRUCTION ENTRANCE SPECIFICATIONS
- Length - minimum of 50' (30' for single residence lot).
 - Width - 12' minimum, should be flared at the existing road to provide a turning radius.
 - Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. **The plan approval authority may not require single family residences to use geotextile.
 - Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
 - Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
 - Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.



ROCK DOUGHNUT INLET PROTECTION

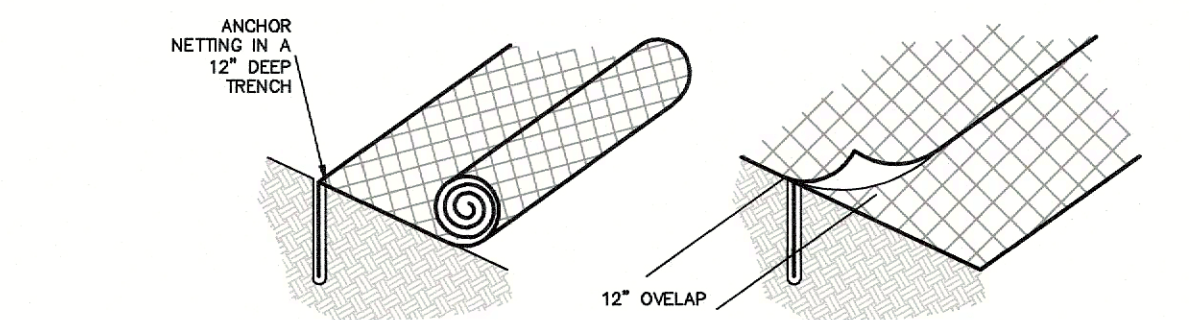
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INLET PROTECTION SPECIFICATIONS:
INSPECT AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (5" OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE DEBRIS FROM MESH AND REPLACE STONES AS NEEDED.
REMOVE ONCE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.



ROLLED LINER CONNECTION DETAIL

NOT TO SCALE



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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

Required Ground Stabilization Timeframes		
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

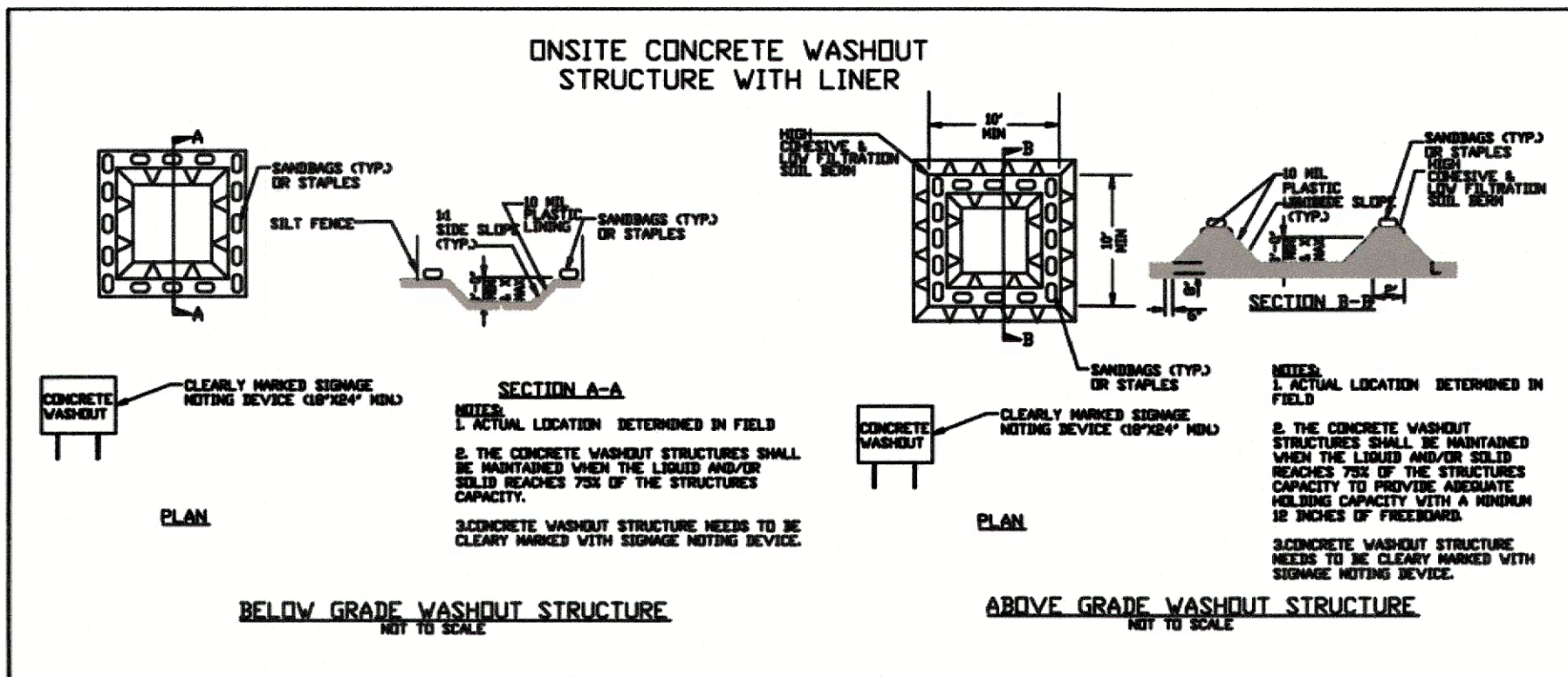
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, 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 settled, 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.

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Blissell
PROFESSIONAL GROUP
Engineers, Planners, Surveyors
and Environmental Specialists

NCG01 - GROUND STABILIZATION
& MATERIALS HANDLING

WATERSIDE VILLAGES OF CURRITUCK
NORTH CAROLINA
CURRITUCK COUNTY
POPLAR BRANCH TOWNSHIP

CONSTRUCTION DRAWINGS PHASES 2 & 4

PROJECT: 24-01-0018

NO.	DATE	BY	REVISIONS
1	9-26-22	MSB	DESIGN
2			
3			
4			
5			
6			
7			
8			
9			
10			

DATE: 9-26-22 SCALE: AS NOTED
DESIGNED: BPG CHECKED: MSB
DRAWN: KFW/DMK APPROVED: BPG
SHEET: 20 OF 23
CAD FILE: 4018_PH 2-4
PROJECT NO: 4018

SECTION A: SELF-INSPECTION

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge 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 (SDCs)	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 or offsite (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)(a) 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 timeframe or an assurance that they will be provided as soon as possible.

- (a) 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,
- (b) 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,
- (c) 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 sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
- (d) 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,
- (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- (f) 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.

SECTION B: RECORDKEEPING

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.

- (a) This General Permit as well as the Certificate of Coverage, after it is received.
- (b) 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.

SECTION C: REPORTING

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 10 days,
 - They cause sheen on surface waters (regardless of amount),
 - They are within 100 feet of surface waters (regardless of amount).
- (c) Releases of hazardous substances in excess of reportable quantities under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (Ref: 40 CFR 110.3 and 40 CFR 302.4) or G.S. 143-215.85.
- (d) Anticipated bypasses and unanticipated bypasses.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• Within 24 hours, an oral or electronic notification. • Within 7 calendar days, 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 NC 303(d) list 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	• Within 24 hours, 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)]	• A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(l)(7)]	• Within 24 hours, an oral or electronic notification. • Within 7 calendar days, 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 reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.



ORDER OF PRECEDENCE GENERAL NOTES/TECHNICAL SPECIFICATIONS

1. THE NOTES CONTAINED HEREIN ARE INTENDED TO SUPPLEMENT THE TECHNICAL SPECIFICATIONS AND PROVIDE EASY REFERENCE FOR THE CONTRACTOR. IN NO CASE SHALL THESE NOTES VOID ANY PART, SECTION OR REQUIREMENT OUTLINED IN THE TECHNICAL SPECIFICATIONS CONTAINED IN THE CONTRACT DOCUMENTS. IF CONFLICTS OCCUR BETWEEN THE TECHNICAL SPECIFICATIONS AND THE NOTES CONTAINED HEREIN, THE TECHNICAL SPECIFICATIONS SHALL SUPERSEDE.

2. CONTRACTOR IS CHARGED WITH PERFORMING SITE INVESTIGATIONS TO ASCERTAIN EXISTING SITE CONDITIONS. PHOTOGRAPHIC DOCUMENTATION OF PRE-EXISTING CONSTRUCTION CONDITIONS WILL BE CONDUCTED BY THE ENGINEER FOR DETERMINATION OF COMPLIANCE WITH CONDITIONS NOTED HEREON.

GENERAL NOTES

1. ACCESS TO SITES SHALL BE BY PUBLIC RIGHT-OF-WAYS AND UTILITY EASEMENTS. OTHER ACCESS LOCATIONS REQUIRED SHALL BE SECURED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. SUPPLEMENTAL EROSION CONTROL MEASURES SHALL BE REQUIRED TO INCLUDE CONSTRUCTION ENTRANCES, SILT FENCING, RESTORATION, ETC. ADDITIONAL MEASURES SHALL BE INCLUDED AS PART OF A SUPPLEMENTAL EROSION CONTROL PLAN PREPARED BY THE CONTRACTOR.

2. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE THE CONSTRUCTION STAGING AREA AT HIS EXPENSE.

3. THE CONTRACTOR IS EXPECTED AND REQUIRED TO COOPERATE WITH THE PROPERTY OWNERS AFFECTED BY THE WORK. MAIL ADJOINING PROPERTY OWNER LETTERS TO EFFECTED PROPERTY OWNERS NOTIFYING THEM THAT WORK WILL BE OCCURRING WITHIN THEIR AREAS ADJOINING THEIR PROPERTIES. THIS LETTER SHALL GIVE PROPERTY OWNERS A MINIMUM OF 14 DAYS WRITTEN NOTICE PRIOR TO COMMENCEMENT OF CONSTRUCTION FOR REMOVAL OF ANY PERSONAL ITEMS FROM THE RIGHT-OF-WAY. THE LETTER OUTLINES THE EXTENT OF THE WORK TO BE PERFORMED TO INCLUDE DRAINAGE DISRUPTIONS.

4. CONTRACTOR SHALL MAINTAIN A NEAT AND CLEAN JOB-SITE TO INCLUDE STAGING/STORAGE AREAS AS FOLLOWS:

- PERFORM DUST CONTROL BY WATERING DAILY OR AS DIRECTED BY THE ENGINEER AND/OR CURRITUCK COUNTY.
- SWEEP STREETS A MINIMUM OF ONCE WEEKLY (FRIDAY) OR AS DIRECTED BY THE ENGINEER AND/OR CURRITUCK COUNTY.
- GRADE, LEVEL AND RE-COMPACT ALL EXPOSED TRENCHES WEEKLY (OR AS DIRECTED BY THE ENGINEER) TO PRODUCE A SMOOTH "RIDE".
- PERFORM DAILY CLEAN-UP OF ALL DIRT, DEBRIS AND SCRAP MATERIALS.
- REMOVE EXCESS EQUIPMENT, MATERIALS, TOOLS, ETC. NOT NEEDED.
- ANY DRIVEWAY REMOVALS MUST HAVE A TEMPORARY SURFACE INSTALLED WITHIN THE SAME DAY AS REMOVAL. APPROVED SURFACES MAY CONSIST OF EITHER ABC OR MILLINGS.

THE WORK WITHIN RIGHT OF WAY AREAS MUST BE KEPT IN AN ORDERLY AND NEAT FASHION. NO MATERIAL (SOILS, GRAVEL OR OTHER PROJECT FILL) CAN BE PLACED DIRECTLY ON ANY STREET SURFACE WITHOUT MATTING BEING PUT DOWN FIRST. ANY DAMAGE TO ANY ROAD SURFACE FROM CONSTRUCTION ACTIVITIES MUST BE REPAIRED AT OWNERS EXPENSE.

5. EXCESS SUITABLE SOIL, EXCAVATED DURING CONSTRUCTION SHALL BE STOCKPILED FOR USE ON THE PROJECT OR DISPOSED OF OFF-SITE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL NOT BE ALLOWED TO STOCKPILE MATERIALS OR EXCESS MATERIALS IN THE STREET RIGHT-OF-WAYS AT ANY TIME. THE CONTRACTOR SHALL PROVIDE SUFFICIENT AND SUITABLE STOCKPILE AREA AND LOCATION AT THE CONTRACTOR'S EXPENSE.

6. CONTRACTOR SHALL PROVIDE MEASURES DURING CONSTRUCTION TO SECURE THE SITE AND EXCAVATION FROM THE GENERAL PUBLIC AND COMPLY WITH ALL OSHA REGULATIONS. JOB SITE SAFETY IS THE EXCLUSIVE AND SOLE RESPONSIBILITY OF THE CONTRACTOR. OPEN EXCAVATION LEFT UNATTENDED OR OVER NIGHT IS NOT ACCEPTABLE AND SHALL BE FILLED IMMEDIATELY.

7. CONTRACTOR SHALL REPAIR OR REPLACE DRIVES DISTURBED BY CONSTRUCTION TO EXISTING OR BETTER CONDITIONS. NO SEPARATE PAYMENT UNLESS OTHERWISE INDICATED.

8. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING WHERE FENCES ARE REMOVED FOR CONSTRUCTION. CONTRACTOR SHALL COORDINATE FENCE REMOVAL OR REINSTALLATION WITH INDIVIDUAL PROPERTY OWNERS PRIOR TO REMOVAL. CONTRACTOR SHALL REINSTALL ALL SHEDS, FENCES, ETC. TO AS GOOD OR BETTER THAN EXISTING CONDITIONS UNLESS OTHERWISE INDICATED. (NO SEPARATE PAYMENT).

9. CONTRACTOR SHALL REPLACE ALL DISTURBED MAILBOXES, SIGNS, ETC. DISTURBED DURING CONSTRUCTION WITHIN 24 HOURS OF DISTURBANCE. PERMANENT ROAD SIGNAGE SHALL BE REPAIRED OR REPLACED IMMEDIATELY AND IF NECESSARY ROADWAY SIGNS SHALL BE TEMPORARILY INSTALLED IN A LOCATION CONSISTENT WITH THE NCMUTCD TO PROVIDE CONTINUOUS TRAFFIC AWARENESS OF ROADWAY CONDITIONS. (NO SEPARATE PAYMENT).

10. CONTRACTOR SHALL PROVIDE SECURITY FENCING, SECURITY GUARD, AND ANY AND ALL OTHER MEASURES NECESSARY TO PROTECT THE PROJECT, TO PROTECT EQUIPMENT AND MATERIALS STORED ON THE PROJECT. (NO SEPARATE PAYMENT).

11. WHERE CONTRACTOR CEASES WORK OPERATIONS FOR A 72 HOUR PERIOD OR LONGER, SUCH AS HOLIDAYS, ETC., THE FOLLOWING SHALL BE ACCOMPLISHED PRIOR TO THE WORK STOPPAGE.

- A. CONTRACTOR SHALL STORE ALL EQUIPMENT IN THE CONTRACTOR STAGING AREA OR OFF SITE.
- B. THE CONTRACTOR SHALL SWEEP ALL STREETS, PERFORM GENERAL CLEANUP AND SHALL PERFORM MAINTENANCE ON ALL EXPOSED PATCHES.

12. CONTRACTOR SHALL SCHEDULE WORK AND MATERIAL DELIVERIES SO THAT STORED MATERIAL QUANTITIES ON THE JOB SITE SHALL BE MINIMIZED.

13. CONTRACTOR SHALL STORE ALL MATERIALS IN THE CONTRACTOR STAGING AREA 72 HOURS PRIOR TO INCORPORATING INTO THE WORK TO REDUCE OBSTRUCTIONS TO TRAFFIC AND INCONVENIENCE TO RESIDENTS. WHERE UTILITIES ARE BEING CONSTRUCTED IN EASEMENTS OUT OF TRAFFIC AREAS CONTRACTOR MAY STORE MATERIALS AHEAD OF CONSTRUCTION FOR A DISTANCE NOT GREATER THAN 1800 FEET UNLESS APPROVED OTHERWISE BY THE ENGINEER.

14. CLEARING AND GRUBBING SHALL BE RESTRICTED TO PERMANENT EASEMENTS ONLY. CONTRACTOR SHALL LIMIT TREE-BUSH CLEARING IN THE TEMPORARY EASEMENTS, BETWEEN HOUSES AND ALONG PROPERTY LINES TO ONLY ABSOLUTELY NECESSARY FOR CONSTRUCTION.

RELATION OF WATER MAINS TO SEWERS

(A) LATERAL SEPARATION OF SEWERS AND WATER MAINS. WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWERS, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10-FOOT LATERAL SEPARATION IN WHICH CASE:

- (1) THE WATER MAIN IS LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER OR
- (2) THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH, AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

(B) CROSSING A WATER MAIN OVER A SEWER, WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION ABOVE THE TOP OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT AN 18 INCH VERTICAL SEPARATION-IN WHICH CASE BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.

(C) CROSSING A WATER MAIN UNDER A SEWER, WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.

CONSTRUCTION SEQUENCE NOTES

1. PRIOR TO COMMENCEMENT OF ANY WORK WITHIN EASEMENTS OR RIGHTS-OF-WAYS THE CONTRACTOR IS REQUIRED TO NOTIFY CONCERNED UTILITY COMPANIES IN ACCORDANCE WITH GS 87-102. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. NO SEPARATE PAYMENT. EXISTING UTILITIES SHOWN ARE TAKEN FROM MAPS FURNISHED BY VARIOUS UTILITY COMPANIES AND HAVE NOT BEEN PHYSICALLY LOCATED (I.E. TELEPHONE, GAS, CABLE, ETC.).

2. THE CONTRACTOR SHALL DIG UP EACH UTILITY WHICH MAY CONFLICT WITH CONSTRUCTION 14 DAYS IN ADVANCE TO VERIFY LOCATIONS (HORIZONTALLY AND VERTICALLY) TO ALLOW THE ENGINEER AN OPPORTUNITY TO ADJUST THE DESIGN TO AVOID CONFLICTS (NO SEPARATE PAYMENT).

3. ALL SANITARY SEWER & WATER CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARDS AND SPECIFICATIONS OF THE NCDEMR-DWG & NCDEMR-PWS. STORM DRAINAGE, STREET CONSTRUCTION AND PAVING SHALL BE IN ACCORDANCE WITH THE N.C.D.O.T.

4. UTILITY SERVICES TO INDIVIDUAL PROPERTIES ARE NOT SHOWN IN THE PROFILES FOR SIMPLICITY OF THE DRAWINGS. SERVICES MAY INCLUDE WATER LATERALS, TELEPHONE, ELECTRIC, CABLE, GAS, ETC.

5. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER AND BE RESPONSIBLE FOR TEMPORARY RELOCATION AND/OR SECURING EXISTING UTILITY POLES AND SIGNS AND/OR UTILITIES IN ACCORDANCE WITH UTILITY OWNER REQUIREMENTS DURING THE UTILITY MAIN INSTALLATION AND STREET CONSTRUCTION. (NO SEPARATE PAYMENT).

6. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORTS FOR UTILITY CROSSINGS AND REPAIR DAMAGES DUE TO CONSTRUCTION TO THE SATISFACTION OF THE UTILITY INVOLVED AT NO ADDITIONAL EXPENSE TO THE OWNER. UNDERGROUND ELECTRICAL CROSSINGS SHALL BE CROSSED IN ACCORDANCE WITH THE NEC AND TECHNICAL SPECIFICATION SECTION UNDERGROUND ELECTRICAL CROSSING

7. WHERE DEEMED NECESSARY BY THE ENGINEER THAT A SUBSURFACE DRAINAGE SYSTEM IS REQUIRED, THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT, TIE-INS TO EXISTING DRAINAGE STRUCTURES AND ALL OTHER INCIDENTALS NECESSARY TO PROVIDE COMPLETE INSTALLATION. IMPROPERLY INSTALLED AND NON-FUNCTIONING DRAINAGE SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. EXISTING FRENCH DRAINAGE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AND OR REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER.

8. STORM DRAINAGE REPAIRS BY CONTRACTOR DUE TO CONSTRUCTION DAMAGE AND JOINTS EXPOSED DURING CONSTRUCTION SHALL BE INSPECTED BY THE OWNER PRIOR TO BACKFILLING.

9. CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT AND MATERIAL AND PERFORM ALL WORK REQUIRED FOR INSTALLATION OF SEWER LINES, MANHOLES AND APPURTENANCES AS OUTLINED ON DRAWINGS AND ON SPECIFICATIONS, ALL OF WHICH BECOME PART OF THE CONTRACT DOCUMENTS.

10. ALL CONSTRUCTION OF SANITARY SEWER MAINS AND APPURTENANCES IN THE COLLECTION SYSTEMS SHALL BE IN STRICT ACCORDANCE WITH PLANS AND SPECIFICATIONS PREPARED AS PART OF THE CONTRACT DOCUMENTS AND AS APPROVED BY THE BPG, INC. ENGINEER. ALL MATERIALS SHALL BE NEW AND UNUSED. PRIOR TO CONSTRUCTION OF THE APPROVED SANITARY SEWER, CONTRACTOR SHALL PROVIDE FIELD STAKEOUT INCLUDING ADEQUATE LINE AND GRADE STAKES IN ORDER THAT SANITARY SEWER AND APPURTENANCES MAY BE CONSTRUCTED IN ACCORDANCE WITH CONTRACT DRAWINGS.

11. A PRECONSTRUCTION CONFERENCE SHALL BE HELD AT THE COMPLETION OF THE FIELD STAKEOUT WITH THE ENGINEER AN HISHER REPRESENTATIVE, CURRITUCK COUNTY REPRESENTATIVE, NCDEMR REPRESENTATIVE, AND ANY REQUISITE UTILITY REPRESENTATIVES THAT WILL REQUIRE COORDINATION DURING THE COURSE OF CONSTRUCTION. A MINIMUM OF 2 DAYS NOTICE SHALL BE GIVEN FOR MEETING REPRESENTATIVES.

12. PREPARE PHOTOGRAPHIC DOCUMENTATION OF PRE-EXISTING CONDITIONS OF THE PROJECTED CONSTRUCTION ROUTE PRIOR TO COMMENCING WORK.

13. IF ANY DEVIATION IS CONTEMPLATED IN LOCATION OR LINE GRADE OF ANY SEWER, STRUCTURE OR APPURTENANCE AS SHOWN ON THE CONTRACT DRAWINGS, A REVISION OF THE DRAWINGS SHOWING THE PROPOSED DEVIATION SHALL BE SUBMITTED TO THE BPG, INC. ENGINEER FOR REVIEW AND APPROVAL BEFORE ANY CHANGES ARE CONSTRUCTED. MINOR FIELD CHANGES MAY BE MADE WITH APPROVAL OF BPG, INC. APPOINTED FIELD INSPECTOR. SHOULD CONTRACTOR DISCOVER AND/OR DAMAGE ANY UNDERGROUND UTILITY FACILITIES, WHICH ARE NOT SHOWN ON DRAWINGS AND/OR MARKED ON THE GROUND, CONTRACTOR SHALL PROMPTLY NOTIFY UTILITY OWNER AND OWNERS PROJECT REPRESENTATIVE. RELOCATION OF ANY UTILITIES SHALL BE APPROVED AND COORDINATED WITH THE APPROPRIATE UTILITY OWNER.

14. EXCAVATION SHALL CONFORM TO THE LINES AND GRADES SHOWN ON THE PLANS. THE WIDTH OF EXCAVATION FOR TRENCHES SHALL BE A MINIMUM OF 24". EXCAVATION SHALL NOT BE CARRIED BELOW THE ESTABLISHED GRADES AND ANY EXCAVATION BELOW THE REQUIRED LEVEL SHALL BE BACKFILLED WITH SUITABLE, THOROUGHLY COMPACTED GRANULAR BEDDING MATERIAL. CONTRACTOR SHALL INSTALL ALL SHEETING, BRACING AND SHORING NECESSARY TO PERFORM THE WORK, TO PROTECT EXISTING STRUCTURES AND ALL EXCAVATIONS AS REQUIRED UNDER NORTH CAROLINA OSHA REGULATIONS. COMPLIANCE WITH PROVISIONS OF THE OVERHEAD HIGH VOLTAGE LINE SAFETY ACT IS REQUIRED.

15. DEWATERING EQUIPMENT SHALL BE SIZED TO MAINTAIN THE TRENCH IN A SATISFACTORY DEWATERED CONDITION SUITABLE FOR PIPE LAYING AND BACKFILLING. PIPE LAYING WILL BE PERMITTED ONLY WHERE THE DEPTH OF WATER IS MAINTAINED BELOW THE BEDDING MATERIAL. BEDDING MATERIAL SHALL NOT BE PLACED ON UNSTABLE TRENCH MATERIAL.

16. NOT MORE THAN ONE HUNDRED FIFTY FEET (150') OF TRENCH SHALL BE OPENED IN ADVANCE OF THE COMPLETED PIPE LAYING. TRENCH WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CURRENT OSHA REGULATIONS. EXCAVATION AT MANHOLES AND SIMILAR STRUCTURES SHALL PROVIDE A MINIMUM CLEARANCE OF EIGHTEEN INCHES (18") BETWEEN THE OUTER SURFACE OF THE STRUCTURE AND THE EMBANKMENT OR SHEETING.

17. WHEREVER FOUNDATION MATERIAL IS UNSUITABLE, IT SHALL BE EXCAVATED UNTIL A STABLE FOUNDATION IS ACHIEVED. GRANULAR BEDDING MATERIAL, 80% STONE PER A/C 12, SHALL THEN BE PLACED IN SIX INCH (6") LAYERS AND COMPACTED UNTIL THE TRENCH BOTTOM HAS BEEN STABILIZED. STANDARD GRANULAR PIPE BEDDING MATERIAL SHALL BE PLACED IN ACCORDANCE WITH ASTM D 2321 FOR PVC PIPE AND ASTM C 12 FOR DIP.

18. ALL GRAVITY SEWER MAINS, SERVICE LATERALS AND FORCE MAINS SHALL HAVE A MINIMUM COVER OF THREE FEET (3') AS MEASURED FROM TOP OF PIPE TO FINISH GRADE. THE BPG, INC. ENGINEER MAY REQUIRE ADDITIONAL COVER AS NEEDED FOR PIPE PROTECTION. SEWERS WHICH HAVE A DEPTH OF COVER LESS THAN THREE FEET (3') SHALL BE APPROVED AND INSTALLED AS PER BPG, INC. ENGINEER'S WRITTEN INSTRUCTIONS.

19. WHEREVER FOUNDATION MATERIAL IS UNSUITABLE, IT SHALL BE EXCAVATED UNTIL A STABLE FOUNDATION IS ACHIEVED. GRANULAR BEDDING MATERIAL, 80% STONE PER A/C 12, SHALL THEN BE PLACED IN SIX INCH (6") LAYERS AND COMPACTED UNTIL THE TRENCH BOTTOM HAS BEEN STABILIZED. STANDARD GRANULAR PIPE BEDDING MATERIAL SHALL BE PLACED IN ACCORDANCE WITH ASTM D 2321 FOR PVC PIPE AND ASTM C 12 FOR DIP.

20. EXCEPT AS REQUIRED FOR USE OF A LASER LEVEL, EXPOSED END OF ALL PIPE AND FITTINGS SHALL BE FULLY CLOSED TO PREVENT EARTH, WATER OR OTHER SUBSTANCES FROM ENTERING PIPE. TRENCH SHALL BE COMPLETELY BACKFILLED AT END OF EACH WORKDAY. WHEN NEW PIPE IS TIED INTO AN EXISTING MANHOLE, NEW PIPE SHALL BE PLUGGED WITH A STANDARD SEWER PLUG AND SHALL REMAIN PLUGGED UNTIL ALL NEW LINES) THAT WILL FLOW TO EXISTING MANHOLE HAVE BEEN COMPLETED, TESTED, AND ACCEPTED.

21. BACKFILL SHALL BEGIN AT THE TOP OF THE STANDARD GRANULAR BEDDING AND SHALL BE PLACED IN SIX INCH (6") LAYERS FOR THE INITIAL ONE FOOT OVER THE PIPE AND SHALL BE THOROUGHLY TAMPED TO NINETY-FIVE PERCENT (95%) OF THE MAXIMUM THEORETICAL COMPACTION DENSITY AS DETERMINED BY A STANDARD PROCTOR ON THE MATERIAL. REMAINDER OF THE BACKFILL SHALL BE IN TWO FOOT (2') LAYERS PROPERLY TAMPED.

22. COMPLETION: BEFORE CONNECTING TO AN ACTIVE SYSTEM, THE LEAKAGE TESTS SHALL PROMPTLY FOLLOW INSTALLATION OF WASTEWATER PIPE INCLUDING SERVICES AND KEPT WITHIN A MAXIMUM OF 1000 FEET BEHIND THE WASTEWATER PIPE LAYING OPERATION.

23. CONTRACTOR SHALL FURNISH WEIRS, STAND PIPES, PIPE PLUGS, WATER, PRESSURE GAUGES, STOP WATCHES, AIR COMPRESSOR, VACUUM PUMP, HOSE AND SUCH MATERIALS AND ASSISTANCE AS REQUIRED TO PERFORM THESE TESTS. ALL ACCEPTANCE TESTS SHALL BE CONDUCTED BY CONTRACTOR IN THE PRESENCE OF A BPG, INC. APPOINTED INSPECTOR.

24. ACCEPTANCE TESTS SHALL NOT BE MADE UNTIL SANITARY SEWER, MANHOLES AND PROPOSED SEWER SERVICE CONNECTIONS, AS SHOWN ON THE APPROVED SEWER PLANS, HAVE BEEN INSTALLED. THE SEWER TRENCHES (INCLUDING MANHOLES AND CLEANOUT STACKS) BACKFILLED AND COMPACTED TO FINISHED SUB-GRADE.

25. CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES FOR MAINTAINING SEWER FLOWS DURING PROJECT TO INCLUDE ANY REQUIRED BY-PASS PUMPING OF WASTEWATER BETWEEN MANHOLES DURING INSTALLATION OF SEWER LINES AND/OR MANHOLES. BY-PASS PUMPING SYSTEM SHALL PROVIDE CONTINUOUS FULL CONVEYANCE AND CONTAINMENT OF WASTEWATER PRESENT DURING THE WORK AND SHALL NOT SURCHARGE THE UPSTREAM PUMP STATION BY MORE THAN TWO (2) FEET ABOVE THE NORMAL EFFLUENT LEVELS.

26. ONCE ACCEPTANCE AND START OF THE COLLECTION SYSTEM HAS BEEN RECEIVED, THE CONTRACTOR SHALL PROCEED WITH THE ABANDONMENT PROCEDURES OF THE EXISTING WASTEWATER COLLECTION SYSTEM AS DESCRIBED HEREON.

27. THE NOTES CONTAINED HEREIN ARE INTENDED TO SUPPLEMENT THE TECHNICAL SPECIFICATIONS AND PROVIDE EASY REFERENCE FOR THE CONTRACTOR. IN NO CASE SHALL THESE NOTES VOID ANY PART, SECTION OR REQUIREMENT OUTLINED IN THE TECHNICAL SPECIFICATIONS CONTAINED IN THE CONTRACT DOCUMENTS.

19. PIPE SHALL BE LAID TRUE TO LINE AND GRADE WITH BELLS UPSTREAM AND SHALL BE JOINED TOGETHER SUCH THAT THE COMPLETED PIPE WILL HAVE A SMOOTH INVERT. PIPE SHALL BE PUSHED HOME BY HAND. THE USE OF EQUIPMENT (I.E. BACKHOE) SHALL NOT BE PERMITTED. CUTTING OF PIPE SHALL BE PERFORMED BY SAWING. STANDARD BEDDING SHALL BE SHAPED TO THE CURVATURE OF BOTH THE BELL AND BARREL OF THE PIPE. THE TRENCH SHALL BE KEPT FREE OF WATER WHILE THE WORK IS IN PROGRESS. THE ENDS OF THE PIPE SHALL BE CLEANED SO THAT PROPER JOINTS CAN BE MADE. AS THE WORK PROGRESSES, THE INTERIOR OF THE PIPE SHALL BE CLEARED OF DIRT, CEMENT, OR OTHER DELETERIOUS MATERIAL.

20. EXCEPT AS REQUIRED FOR USE OF A LASER LEVEL, EXPOSED END OF ALL PIPE AND FITTINGS SHALL BE FULLY CLOSED TO PREVENT EARTH, WATER OR OTHER SUBSTANCES FROM ENTERING PIPE. TRENCH SHALL BE COMPLETELY BACKFILLED AT END OF EACH WORKDAY. WHEN NEW PIPE IS TIED INTO AN EXISTING MANHOLE, NEW PIPE SHALL BE PLUGGED WITH A STANDARD SEWER PLUG AND SHALL REMAIN PLUGGED UNTIL ALL NEW LINES) THAT WILL FLOW TO EXISTING MANHOLE HAVE BEEN COMPLETED, TESTED, AND ACCEPTED.

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22. COMPLETION: BEFORE CONNECTING TO AN ACTIVE SYSTEM, THE LEAKAGE TESTS SHALL PROMPTLY FOLLOW INSTALLATION OF WASTEWATER PIPE INCLUDING SERVICES AND KEPT WITHIN A MAXIMUM OF 1000 FEET BEHIND THE WASTEWATER PIPE LAYING OPERATION.

23. CONTRACTOR SHALL FURNISH WEIRS, STAND PIPES, PIPE PLUGS, WATER, PRESSURE GAUGES, STOP WATCHES, AIR COMPRESSOR, VACUUM PUMP, HOSE AND SUCH MATERIALS AND ASSISTANCE AS REQUIRED TO PERFORM THESE TESTS. ALL ACCEPTANCE TESTS SHALL BE CONDUCTED BY CONTRACTOR IN THE PRESENCE OF A BPG, INC. APPOINTED INSPECTOR.

24. ACCEPTANCE TESTS SHALL NOT BE MADE UNTIL SANITARY SEWER, MANHOLES AND PROPOSED SEWER SERVICE CONNECTIONS, AS SHOWN ON THE APPROVED SEWER PLANS, HAVE BEEN INSTALLED. THE SEWER TRENCHES (INCLUDING MANHOLES AND CLEANOUT STACKS) BACKFILLED AND COMPACTED TO FINISHED SUB-GRADE.

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26. ONCE ACCEPTANCE AND START OF THE COLLECTION SYSTEM HAS BEEN RECEIVED, THE CONTRACTOR SHALL PROCEED WITH THE ABANDONMENT PROCEDURES OF THE EXISTING WASTEWATER COLLECTION SYSTEM AS DESCRIBED HEREON.

27. THE NOTES CONTAINED HEREIN ARE INTENDED TO SUPPLEMENT THE TECHNICAL SPECIFICATIONS AND PROVIDE EASY REFERENCE FOR THE CONTRACTOR. IN NO CASE SHALL THESE NOTES VOID ANY PART, SECTION OR REQUIREMENT OUTLINED IN THE TECHNICAL SPECIFICATIONS CONTAINED IN THE CONTRACT DOCUMENTS.

TRENCH DEWATERING DURING SEWER LINE INSTALLATION

1. ALL GROUND WATER WHICH MAY BE FOUND IN THE TRENCHES AND ANY WATER WHICH MAY GET INTO THEM FROM ANY CAUSE WHATSOEVER SHALL BE PUMPED OR BAILED OUT SO THAT THE TRENCH SHALL BE DRY DURING THE PIPE LAYING PERIOD. NO WATER SHALL BE PERMITTED TO REACH CONCRETE UNTIL IT HAS SET SUFFICIENTLY. ALL WATER PUMPED FROM THE TRENCHES SHALL BE DISPOSED OF IN A MANNER SATISFACTORY TO THE OWNER. CONTRACTOR SHALL PROVIDE AT LEAST TWO (2) PUMPS FOR EACH TRENCH OPENED IN WET GROUND AND AT THE SAME TIME, HE SHALL HAVE ONE (1) PUMP IN RESERVE.

2. IF, DURING ANY TIME THAT CONTRACTOR IS PERMITTED TO LAY PIPE IN A TRENCH CONTAINING UNAVOIDABLE TRENCH WATER AND CONSTRUCTION IS INTERRUPTED FOR ANY REASON, THE ENDS OF PIPE SHALL BE CLOSED BY WATERTIGHT PLUGS OR CAPS, OR OTHER MEANS APPROVED BY THE OWNER. IN ANY CASE, SUCH PROTECTION SHALL BE PROVIDED WHEN WORK IS SUSPENDED OVERNIGHT OR ON WEEKENDS AND HOLIDAYS, REGARDLESS OF THE LOCATION OF THE TRENCH WITH RESPECT TO WATER AT THE TIME THAT THE WORK IS SUSPENDED.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL STRUCTURES, INCLUDING PIPES AND MANHOLES, AGAINST ANY TENDENCY TO FLOAT UNDER CONDITIONS OF HIGH WATER, WHETHER DUE TO HIGH GROUND WATER OR FLOOD CONDITIONS ON THE PROJECT SITE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE WHATEVER STEPS MAY BE REQUIRED, INCLUDING THE INSTALLATION AND OPERATION OF PUMPS AND PUMPING SYSTEMS, WELL POINTS OR RELIEF DEVICES, TO PREVENT ANY STRUCTURE FROM FLOATING DURING CONSTRUCTION.

4. COST OF THE NECESSARY PUMPS, WELL POINTS OR OTHER APPURTENANCES REQUIRED TO PREVENT FLOATING SHALL BE INCLUDED IN THE UNIT PRICES BID IN THE PROPOSAL FOR THE VARIOUS BID ITEMS, AND NO EXTRA COMPENSATION SHALL BE ALLOWED FOR SUCH WORK. ANY DAMAGE WHICH MAY OCCUR TO ANY PART OF THE WORK AS THE RESULT OF THE FLOTATION EFFECT OF GROUND OR FLOOD WATERS SHALL BE REPAIRED IN A MANNER FULLY SATISFACTORY TO THE OWNER, AT NO ADDITIONAL COST TO THE OWNER.

5. CONTRACTOR SHALL PROVIDE AND PLACE ALL NECESSARY FLUMES OR OTHER DEVICES OF ADEQUATE SIZE TO CARRY TEMPORARILY ALL STREAMS, BROOKS, STORMWATER OR OTHER WATER, WHICH MAY FLOW ALONG OR ACROSS THE LINES OF THE PIPE LINE. ALL FLUMES OR CHANNELS THUS UTILIZED SHALL BE TIGHT SO AS TO PREVENT LEAKAGE INTO THE TRENCHES. WATER PUMPED FROM TRENCHES SHALL BE LED TO NATURAL WATERCOURSES. EXISTING SEWERS SHALL NOT BE EMPLOYED AS A DRAIN FOR THE REMOVAL OF DEWATERING WASTES.

GENERAL NOTES SANITARY SEWER UTILITY

1. CLEANOUT ELEVATIONS AND/OR LOCATIONS MAY BE ADJUSTED IN THE FIELD AS DIRECTED BY THE ENGINEER WHEN NECESSARY. CLEANOUT STACK TOP ELEVATION IS DETERMINED BY INTERPOLATING FIELD DATA AND MAY NOT BE EXACT. CLEANOUT ELEVATION TOP SHALL BE SET IN ACCORDANCE WITH THE TYPICAL DETAIL DESCRIBED HEREON. (NO SEPARATE PAYMENT).

2. WHERE SANITARY SEWER MAINS ARE TO BE CONSTRUCTED WITHIN 20' OF EXISTING RESIDENCES SPECIAL CONSIDERATION SHALL BE GIVEN TO MINIMIZE UNDERMINING OR OTHERWISE DISTURBING EXISTING RESIDENCES ADJACENT TO THE SEWER MAIN. THE CONTRACTOR SHALL USE A RUBBER TIED BACK HOE AND NO MECHANICAL COMPACTION EQUIPMENT IN THESE AREAS. THE TRENCH SHALL BE SHORED ADEQUATELY TO PREVENT ANY SLOTTING OF THE SIDE SLOPES. SUITABLE BACKFILL SHALL BE PLACED IN THE TRENCH. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR REPAIR OF STRUCTURES, FOUNDATIONS, FOOTINGS, ETC. DAMAGED DUE TO CONSTRUCTION.

3. SANITARY SEWER MANHOLE DEFLECTION ANGLES ARE 180 DEGREES UNLESS NOTED OTHERWISE. ALL INVERT ELEVATIONS ARE SHOWN TO THE MANHOLE CENTERLINE.

4. CONTRACTOR SHALL PROVIDE AND PLACE ALL NECESSARY FLUMES OR OTHER DEVICES OF ADEQUATE SIZE TO CARRY TEMPORARILY ALL STREAMS, BROOKS, STORMWATER OR OTHER WATER, WHICH MAY FLOW ALONG OR ACROSS THE LINES OF THE PIPE LINE. ALL FLUMES OR CHANNELS THUS UTILIZED SHALL BE TIGHT SO AS TO PREVENT LEAKAGE INTO THE TRENCHES. WATER PUMPED FROM TRENCHES SHALL BE LED TO NATURAL WATERCOURSES. EXISTING SEWERS SHALL NOT BE EMPLOYED AS A DRAIN FOR THE REMOVAL OF DEWATERING WASTES.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL STRUCTURES, INCLUDING PIPES AND MANHOLES, AGAINST ANY TENDENCY TO FLOAT UNDER CONDITIONS OF HIGH WATER, WHETHER DUE TO HIGH GROUND WATER OR FLOOD CONDITIONS ON THE PROJECT SITE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE WHATEVER STEPS MAY BE REQUIRED, INCLUDING THE INSTALLATION AND OPERATION OF PUMPS AND PUMPING SYSTEMS, WELL POINTS OR RELIEF DEVICES, TO PREVENT ANY STRUCTURE FROM FLOATING DURING CONSTRUCTION.

6. COST OF THE NECESSARY PUMPS, WELL POINTS OR OTHER APPURTENANCES REQUIRED TO PREVENT FLOATING SHALL BE INCLUDED IN THE UNIT PRICES BID IN THE PROPOSAL FOR THE VARIOUS BID ITEMS, AND NO EXTRA COMPENSATION SHALL BE ALLOWED FOR SUCH WORK. ANY DAMAGE WHICH MAY OCCUR TO ANY PART OF THE WORK AS THE RESULT OF THE FLOTATION EFFECT OF GROUND OR FLOOD WATERS SHALL BE REPAIRED IN A MANNER FULLY SATISFACTORY TO THE OWNER, AT NO ADDITIONAL COST TO THE OWNER.

7. CONTRACTOR SHALL PROVIDE AND PLACE ALL NECESSARY FLUMES OR OTHER DEVICES OF ADEQUATE SIZE TO CARRY TEMPORARILY ALL STREAMS, BROOKS, STORMWATER OR OTHER WATER, WHICH MAY FLOW ALONG OR ACROSS THE LINES OF THE PIPE LINE. ALL FLUMES OR CHANNELS THUS UTILIZED SHALL BE TIGHT SO AS TO PREVENT LEAKAGE INTO THE TRENCHES. WATER PUMPED FROM TRENCHES SHALL BE LED TO NATURAL WATERCOURSES. EXISTING SEWERS SHALL NOT BE EMPLOYED AS A DRAIN FOR THE REMOVAL OF DEWATERING WASTES.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL STRUCTURES, INCLUDING PIPES AND MANHOLES, AGAINST ANY TENDENCY TO FLOAT UNDER CONDITIONS OF HIGH WATER, WHETHER DUE TO HIGH GROUND WATER OR FLOOD CONDITIONS ON THE PROJECT SITE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE WHATEVER STEPS MAY BE REQUIRED, INCLUDING THE INSTALLATION AND OPERATION OF PUMPS AND PUMPING SYSTEMS, WELL POINTS OR RELIEF DEVICES, TO PREVENT ANY STRUCTURE FROM FLOATING DURING CONSTRUCTION.

9. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL STRUCTURES, INCLUDING PIPES AND MANHOLES, AGAINST ANY TENDENCY TO FLOAT UNDER CONDITIONS OF HIGH WATER, WHETHER DUE TO HIGH GROUND WATER OR FLOOD CONDITIONS ON THE PROJECT SITE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE WHATEVER STEPS MAY BE REQUIRED, INCLUDING THE INSTALLATION AND OPERATION OF PUMPS AND PUMPING SYSTEMS, WELL POINTS OR RELIEF DEVICES, TO PREVENT ANY STRUCTURE FROM FLOATING DURING CONSTRUCTION.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL STRUCTURES, INCLUDING PIPES AND MANHOLES, AGAINST ANY TENDENCY TO FLOAT UNDER CONDITIONS OF HIGH WATER, WHETHER DUE TO HIGH GROUND WATER OR FLOOD CONDITIONS ON THE PROJECT SITE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE WHATEVER STEPS MAY BE REQUIRED, INCLUDING THE INSTALLATION AND OPERATION OF PUMPS AND PUMPING SYSTEMS, WELL POINTS OR RELIEF DEVICES, TO PREVENT ANY STRUCTURE FROM FLOATING DURING CONSTRUCTION.

UTILITY GENERAL NOTES

1. PRIOR TO COMMENCEMENT OF ANY WORK WITHIN EASEMENTS OR RIGHTS-OF-WAYS THE CONTRACTOR IS REQUIRED TO NOTIFY CONCERNED UTILITY COMPANIES IN ACCORDANCE WITH GS 87-102. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. NO SEPARATE PAYMENT. EXISTING UTILITIES SHOWN ARE TAKEN FROM MAPS FURNISHED BY VARIOUS UTILITY COMPANIES AND HAVE NOT BEEN PHYSICALLY LOCATED (I.E. TELEPHONE, GAS, CABLE, ETC.).

2. THE CONTRACTOR SHALL DIG UP EACH UTILITY WHICH MAY CONFLICT WITH CONSTRUCTION 14 DAYS IN ADVANCE TO VERIFY LOCATIONS (HORIZONTALLY AND VERTICALLY) TO ALLOW THE ENGINEER AN OPPORTUNITY TO ADJUST THE DESIGN TO AVOID CONFLICTS (NO SEPARATE PAYMENT).

3. ALL SANITARY SEWER & WATER CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARDS AND SPECIFICATIONS OF THE NCDEMR-DWG & NCDEMR-PWS. STORM DRAINAGE, STREET CONSTRUCTION AND PAVING SHALL BE IN ACCORDANCE WITH THE N.C.D.O.T.

4. UTILITY SERVICES TO INDIVIDUAL PROPERTIES ARE NOT SHOWN IN THE PROFILES FOR SIMPLICITY OF THE DRAWINGS. SERVICES MAY INCLUDE WATER LATERALS, TELEPHONE, ELECTRIC, CABLE, GAS, ETC.

5. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER AND BE RESPONSIBLE FOR TEMPORARY RELOCATION AND/OR SECURING EXISTING UTILITY POLES AND SIGNS AND/OR UTILITIES IN ACCORDANCE WITH UTILITY OWNER REQUIREMENTS DURING THE UTILITY MAIN INSTALLATION AND STREET CONSTRUCTION. (NO SEPARATE PAYMENT).

6. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORTS FOR UTILITY CROSSINGS AND REPAIR DAMAGES DUE TO CONSTRUCTION TO THE SATISFACTION OF THE UTILITY INVOLVED AT NO ADDITIONAL EXPENSE TO THE OWNER. UNDERGROUND ELECTRICAL CROSSINGS SHALL BE CROSSED IN ACCORDANCE WITH THE NEC AND TECHNICAL SPECIFICATION SECTION UNDERGROUND ELECTRICAL CROSSING

7. WHERE DEEMED NECESSARY BY THE ENGINEER THAT A SUBSURFACE DRAINAGE SYSTEM IS REQUIRED, THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT, TIE-INS TO EXISTING DRAINAGE STRUCTURES AND ALL OTHER INCIDENTALS NECESSARY TO PROVIDE COMPLETE INSTALLATION IN ACCORDANCE WITH CITY OF FAYETTEVILLE STANDARDS. IMPROPERLY INSTALLED AND NON-FUNCTIONING DRAINAGE SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. EXISTING FRENCH DRAINAGE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AND OR REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER.

8. ANY DRIVEWAY CULVERTS DAMAGED DURING CONSTRUCTION SHALL BE EITHER REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE. FILTER FABRIC CLOTH SHALL BE PLACED OVER EITHER CULVERT ENDS DURING THE COURSE OF CONSTRUCTION. ALL EX. DRAINAGE INFRASTRUCTURE WILL BE RETURNED TO PRE-EXISTING CONDITIONS PRIOR TO FINAL PROJECT APPROVALS.

SEWER SERVICE LATERAL NOTES

1. CONTRACTOR SHALL MAKE UP STACK AND SUBMIT TO ENGINEER FOR APPROVAL AND SHALL SUBMIT TAPPING SADDLE IF USED TO ENGINEER FOR APPROVAL.

2. HOLE IN SANITARY SEWER MAIN MUST BE CUT WITH SHELL CUTTER. NO HAMMER TAPS ALLOWED.

3. LATERAL SHALL CONFORM TO ASTM SPECS. D-3034 SDR-35 UNLESS OTHERWISE INDICATED AS DUCTILE IRON.

4. ALL PIPE AND FITTINGS SHALL BE 4" OR 6" UNLESS OTHERWISE SPECIFIED.

5. ALL D.I. PIPE SHALL HAVE AN INTERIOR LINING OF CERAMIC EPOXY OR FUSED CALCIUM ALUMINATE CEMENT WITH FUSED CALCIUM ALUMINATE AGGREGATES. THE ENTIRE D.I. LATERAL SHALL BE COMPRISED OF D.I. PIPE AND MECHANICAL JOINT FITTINGS.

6. ALL CONNECTIONS SHALL HAVE RUBBER GASKET SEALS INSTALLED.

7. THE CONTRACTOR SHALL USE SDR 35 P.V.C. WYE FOR CONNECTION TO SDR 35 P.V.C. PIPE OR DI TEE FOR CONNECTION TO DUCTILE IRON PIPE. PVC WYE SHALL BE ONE PIECE MOLDED OR FABRICATED.

8. INSTALLATION OTHER THAN AS SHOWN MUST BE ENGINEER APPROVED.

9. TAPPING PROCESS SHOWN SHALL BE USED FOR ALL SANITARY SEWER MAINS.

10. SLOPE AND DEPTH OF THE SERVICE LATERAL SHALL BE DETERMINED BY THE TOPOGRAPHY OF THE LOT AS APPROVED BY THE ENGINEER OR AS INDICATED ON THE DRAWINGS.

11. SLOPE OF LATERALS SHALL CONFORM TO 1/4" PER FOOT MIN. FOR 4" PIPE AND 1/8" PER FOOT MIN. FOR 6" PIPE. MAXIMUM CLEAN OUT SPACINGS FOR 4" PIPE IS 75' 100' FOR 6" PIPE.

12. ENTIRE SEWER LATERAL ASSEMBLY SHALL BE AIR TESTED CONCURRENTLY WITH SEWER MAIN.

13. INDIVIDUAL LATERALS SHALL BE CLEANED AND FLUSHED PRIOR TO FLUSHING SANITARY SEWER MAINS.

14. LATERAL SHALL NOT BE BACK-FILLED UNTIL INSPECTED BY THE PROJECT ENGINEER OR HIS REPRESENTATIVE.

15. WYE CONNECTIONS SHALL NOT BE USED TO THE LATERALS INTO A MANHOLE, UNLESS OTHERWISE APPROVED BY ENGINEER.

16. IF BENDS ARE APPROVED BY THE PROJECT ENGINEER, STONE BEDDING IS REQUIRED TO BE INSTALLED FROM UNDISTURBED SOIL TO BOTTOM OF BEND. PVC COMBINATION SHALL BE 2 PIECE TEE-WYE, GASKETED, SDR35, AS MANUFACTURED BY HARCO, GPK OR APPROVED EQUAL.

17. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL STRUCTURES, INCLUDING PIPES AND MANHOLES, AGAINST ANY TENDENCY TO FLOAT UNDER CONDITIONS OF HIGH WATER, WHETHER DUE TO HIGH GROUND WATER OR FLOOD CONDITIONS ON THE PROJECT SITE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE WHATEVER STEPS MAY BE REQUIRED, INCLUDING THE INSTALLATION AND OPERATION OF PUMPS AND PUMPING SYSTEMS, WELL POINTS OR RELIEF DEVICES, TO PREVENT ANY STRUCTURE FROM FLOATING DURING CONSTRUCTION.

18. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL STRUCTURES, INCLUDING PIPES AND MANHOLES, AGAINST ANY TENDENCY TO FLOAT UNDER CONDITIONS OF HIGH WATER, WHETHER DUE TO HIGH GROUND WATER OR FLOOD



POPLAR BRANCH TOWNSHIP CURRITUCK COUNTY
NORTH CAROLINA

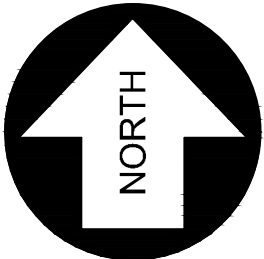
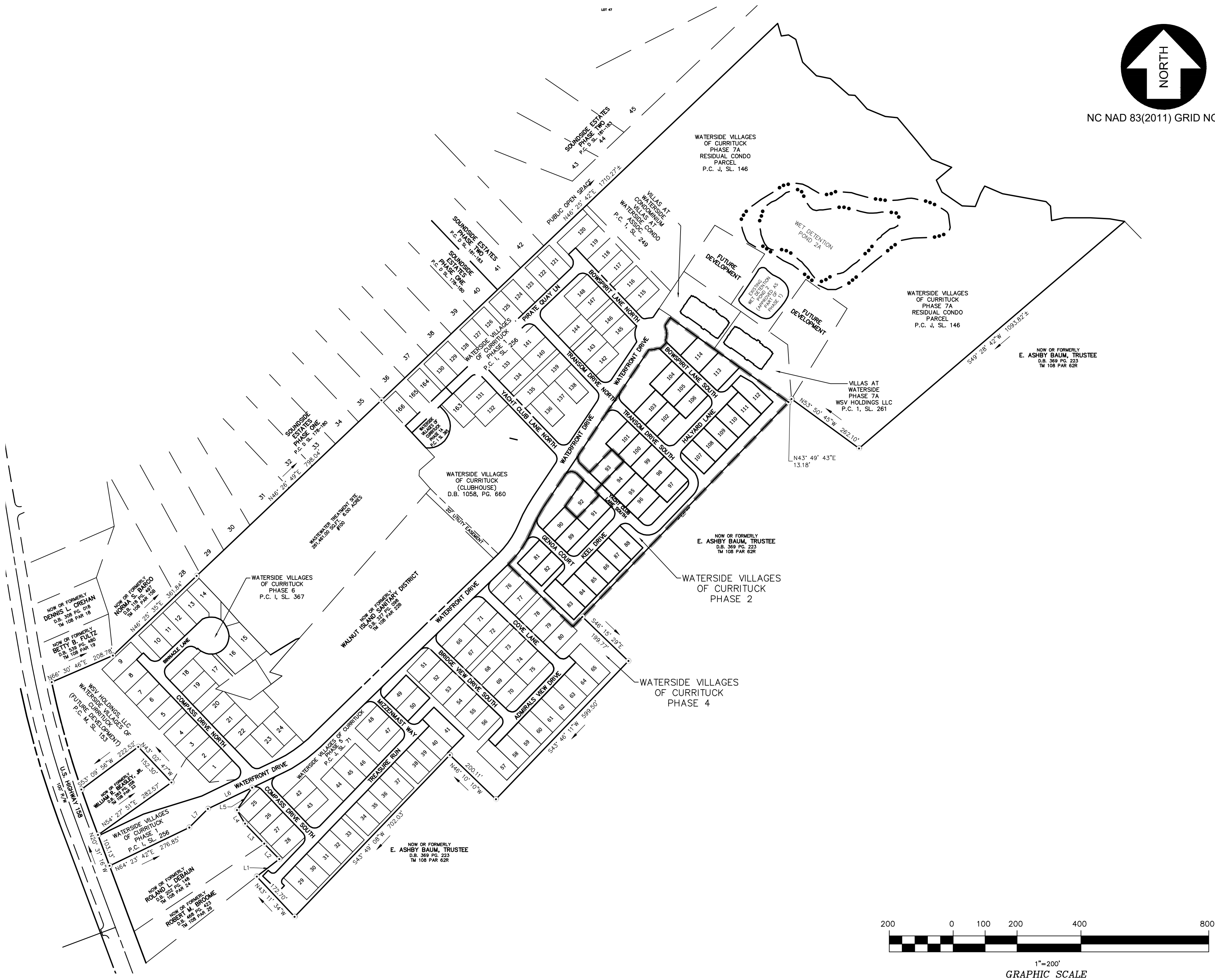
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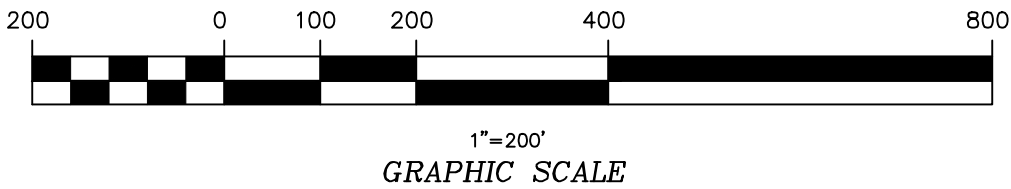
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Engineers, Planners, Surveyors
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PROJECT:
**WATERSIDE VILLAGES
PHASE 2**

POPLAR BRANCH
CURRITUCK COUNTY
NORTH CAROLINA

FINAL SUBDIVISION PLAT

REVISIONS			
NO.	DATE	DESCRIPTION	BY

DocuSigned by
Michael J. Harris
L-1756
CADA944EC9CBE428...

DATE:
06-20-24

DESIGNED:
AKM

DRAWN:
AKM

SHEET:
2 OF 4

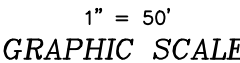
SCALE:
1" = 200'

CHECKED:
MDB

APPROVED:
BPG

CAD FILE:
401800FPPH2

PROJECT NO:
4018



WATERSIDE VILLAGES
OF CURRITUCK
(CLUBHOUSE)
D.B. 1058, PG. 660

NOW OR FORMERLY
E. ASHBY BAUM, TRUSTEE
D.B. 369 PG. 223
TM 108 PAR 62R

Bissell Professional Group
Firm License # C-956
3512 North Croatan Highway
P.O. Box 1068
Kitty Hawk, North Carolina 27949
(252) 261-3266
FAX (252) 261-1760

Kitty Hawk, North Carolina. The
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PROFESSIONAL GROUP

Engineers, Planners, Surveyors and Environmental Specialists

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WATERSIDE VILLAGES

PHASE 2

POPLAR BRANCH
CURRITUCK COUNTY
NORTH CAROLINA

FINAL SUBDIVISION PLAT

[illegible]

DocuSigned by:



12/10/24

DATE:	SCALE:
06-20-24	1" = 50'

DESIGNED:	CHECKED:
	<i>MDB</i>

DRAWN:	APPROVED:
AKM	BPG

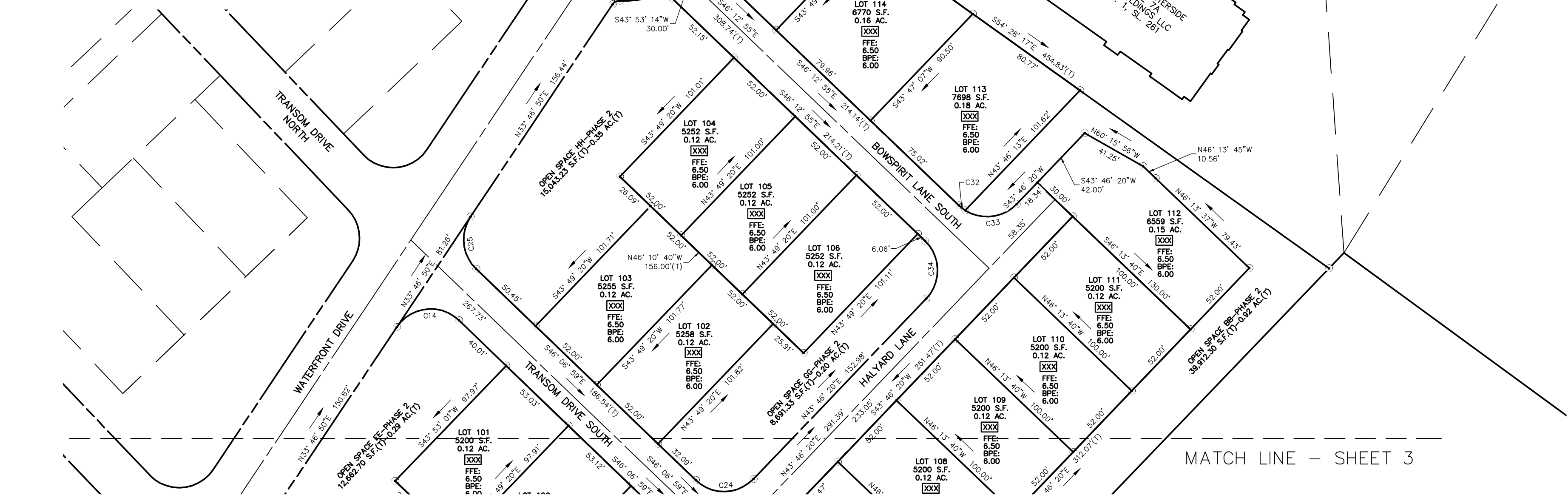
SHEET:

3 OF 4

CAD FILE:
401800FPPH2

PROJECT NO: _____

4018



PROJECT:

WATERSIDE VILLAGES

PHASE 2

POPLAR BRANCH

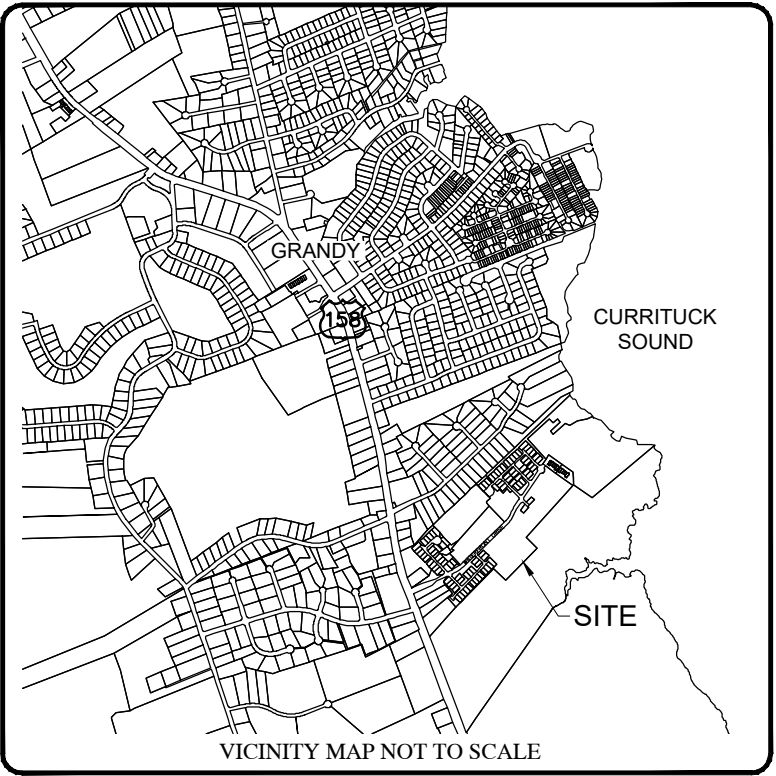
CURRITUCK COUNTY

NORTH CAROLINA

FINAL SUBDIVISION PLAT

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S:\projects\4018 Waterside Villages Of Currituck.dwg\final Plat.dwg 401800FPPH4.dwg 12/10/2024 7:38 AM HP DesignJet T130 24-In Printer [40FE861.pcs3



WATERSIDE VILLAGES OF CURRITUCK

RESIDENTIAL SUBDIVISION PHASE 4 FINAL PLAT POPLAR BRANCH TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA

OWNERSHIP AND DEDICATION CERTIFICATE
I HEREBY CERTIFY THAT I AM THE OWNER OF THE PROPERTY DESCRIBED HEREON, WHICH PROPERTY IS LOCATED WITHIN THE SUBDIVISION REGULATION 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 _____, 2024.

NOTARY PUBLIC

MY COMMISSION EXPIRES

REVIEW OFFICER CERTIFICATE
STATE OF NORTH CAROLINA
COUNTY OF CURRITUCK

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

DATE

REVIEW OFFICER

**ENGINEER CERTIFICATE FOR
PRIVATE STREETS**
I HEREBY CERTIFY THAT THE PRIVATE STREETS SHOWN ON THIS PLAT ARE INTENDED FOR PRIVATE USE AND WILL REMAIN UNDER CONTROL, MAINTENANCE AND RESPONSIBILITY OF THE DEVELOPER AND/OR A HOMEOWNER'S ASSOCIATION AND THAT THEY HAVE BEEN COMPLETED IN ACCORDANCE WITH AT LEAST THE MINIMUM SPECIFICATIONS AND STANDARDS OF THE STATE DEPARTMENT OF TRANSPORTATION.

DATE

LICENSED ENGINEER

**ENGINEER CERTIFICATE OF
STORM WATER IMPROVEMENTS**
IN THE SUBDIVISION ENTITLED WATERSIDE VILLAGES, STORMWATER DRAINAGE IMPROVEMENTS HAVE BEEN INSTALLED IN SUBSTANTIAL CONFORMANCE WITH PLANS AND SPECIFICATIONS PREPARED BY BISSELL PROFESSIONAL GROUP, AND APPROVED BY THE CURRITUCK COUNTY PLANNING BOARD. CURRITUCK COUNTY ASSUMES NO RESPONSIBILITY FOR THE DESIGN, MAINTENANCE OR THE GUARANTEED PERFORMANCE OF THE STORM WATER DRAINAGE IMPROVEMENTS AND THEIR EFFECTS.

REGISTERED LAND SURVEYOR/CIVIL ENGINEER

DATE

REGISTRATION NUMBER

STORMWATER MANAGEMENT SYSTEMS SHALL BE MAINTAINED BY THE WATERSIDE VILLAGES PROPERTY OWNERS ASSOCIATION.

- GENERAL NOTES:**
- PROJECT NAME: WATERSIDE VILLAGES OF CURRITUCK
 - APPLICANT: WSV HOLDINGS, LLC
OWNER: WSV HOLDINGS, LLC
 - PROPERTY DATA:
PARCEL ID NO: 0108-000-022J-0000
PRIMARY ADDRESS: WATERFRONT DRIVE
GRANDY, NC
 - VERTICAL DATUM IS NAVD 88
 - IRON PINS AT ALL LOT CORNERS UNLESS OTHERWISE NOTED HEREON.
 - PROPERTY ZONING: AG
 - FIRM DATA:
SUBJECT PROPERTY IS LOCATED IN F.I.R.M. ZONE "X" AS SHOWN. REFERENCE F.I.R.M PANEL # 3720992100K, EFFECTIVE DATE: DECEMBER 21, 2018. (SUBJECT TO CHANGE BY F.E.M.A.)

8) RECORDED REFERENCES:
DB 202, PG 151 DB 204, PG 199
DB 203, PG 55 DB 207, PG 892
DB 203, PG 367 DB 392, PG 355
DB 124, PG 256, DB 118, PG 494
DB 327, PG 98 PC E, SL 131
 - THE SUBJECT PROPERTY SHOWN HEREON IS ENCUMBERED BY EASEMENTS AND AGREEMENTS FOR ELECTRIC AND TELEPHONE RIGHTS OF WAYS AS RECORDED IN:
DB 51, PG 255 DB 179, PG 207
DB 66, PG 204 DB 125, PG 395
DB 211, PG 65
 - THE CURRITUCK SOUND NATURAL WATER BOUNDARY IS SUBJECT TO CHANGE BY NATURAL CAUSES.
 - SUBJECT TO TITLE SEARCH AND TO ANY AND/OR ALL RIGHTS OF WAYS, ENFORCEABLE RESTRICTIONS, AND/OR EASEMENTS OF RECORD WHETHER SHOWN HEREON OR NOT.
 - UNDERGROUND UTILITIES, IF ANY, WERE NOT LOCATED BY THIS SURVEY.
 - TOTAL SITE AREA PHASE 4: 6.062 ACRES
 - AREA IN R/W PHASE 4: 0.748 ACRES
LINEAR FEET OF PROPOSED 30' ROADWAY PHASE 4: 1,080.20 FEET
 - OPEN SPACE IN PHASE 4: 1.661 ACRES
 - TOTAL LOT AREA PHASE 4: 3.653 ACRES
 - MINIMUM LOT SIZE: 5,200.00 SQ.FT.
TOTAL NUMBER OF LOTS PHASE 4: 30 LOTS
 - A 6' EASEMENT FOR UTILITIES AND DRAINAGE ALONG SIDE LOT LINES AND A 15' EASEMENT FOR UTILITIES AND DRAINAGE ALONG THE FRONT AND REAR LOT LINES IS HEREBY ESTABLISHED.
 - USE OF LAND WITHIN A FLOODWAY OR FLOODPLAIN IS SUBSTANTIALLY RESTRICTED BY ARTICLE 16 OF THE CURRITUCK UNIFIED DEVELOPMENT ORDINANCE.
 - CAMA MINOR PERMITS ARE REQUIRED FOR ANY DEVELOPMENT ACTIVITIES WITHIN THE ESTUARINE SHORELINE AEC. OPEN SPACE, PONDS AND DRAINAGE FACILITIES REQUIRED TO BE PROVIDED BY THE DEVELOPER IN ACCORDANCE WITH THIS ORDINANCE SHALL NOT BE DEDICATED TO PUBLIC USE AND SHALL REMAIN UNDER THE OWNERSHIP AND CONTROL OF THE DEVELOPER (OR HIS SUCCESSOR) OR THE ASSOCIATION OF OWNERS OF PROPERTY SHOWN ON THIS SUBDIVISION PLAT THAT SATISFIES THE CRITERIA ESTABLISHED IN THE CURRITUCK COUNTY UNIFIED DEVELOPMENT ORDINANCE.
 - ALL PARCELS AND OTHER AREAS IDENTIFIED AS "COMMON AREA" ARE LIMITED TO THE USE AND ENJOYMENT BY THE OWNERS OF LOTS AND ARE NOT FOR PUBLIC USE. NO PARCELS OR AREAS ON THIS SUBDIVISION PLAT ARE OFFERED TO PUBLIC USE, EXCEPT AS SPECIFICALLY DESIGNATED, AND THE RECORDING OF THE SUBDIVISION PLAT DOES NOT CONSTITUTE AN OFFER OF DEDICATION TO PUBLIC USE OF ANY PROPERTY SHOWN HEREON EXCEPT THAT PROPERTY SPECIFICALLY DESIGNATED AS "PUBLIC."

Sheet Number	Sheet Title
1	COVER
2	OVERALL
3	LOT LAYOUT
4	DETAILS

LEGEND	
---	ROADWAY CENTERLINE
---	RIGHT-OF-WAY
---	PROPERTY BOUNDARY
---	ADJOINING PROPERTY LINE
---	SHORELINE
---	EXISTING CONCRETE MONUMENT
---	SET IRON ROD
---	EXISTING IRON ROD
---	EXISTING IRON PIPE
---	STREET ADDRESS
---	NOT TO SCALE
---	PLAT CABINET
---	DEED BOOK
---	SLIDE
---	TOTAL
---	COMPUTED PHASE LINE
SF / SQ.FT.	SQUARE FEET
AC	ACRES

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

SURVEY AND ACCURACY CERTIFICATE
I, MICHAEL D. BARR, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION (DEED AND DESCRIPTION RECORDED IN BOOKS REFERENCED); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN BOOKS REFERENCED; THAT THE RATIO OF PRECISION AS CALCULATED IS 1:10,000; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED.

THIS IS TO CERTIFY THAT THIS SURVEY CREATES A SUBDIVISION OF LAND WITHIN THE AREA OF A COUNTY OR MUNICIPALITY THAT HAS AN ORDINANCE THAT REGULATES PARCELS OF LAND.

WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 10TH

DAY OF DECEMBER, A.D., 2024.

DocuSigned by:

C6DA34EC9CBF428...

REQUIRED IMPROVEMENTS CERTIFICATE
I HEREBY CERTIFY THAT ALL OF THE IMPROVEMENTS REQUIRED BY THE CURRITUCK COUNTY UNIFIED DEVELOPMENT ORDINANCE HAVE BEEN INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS PREPARED BY BISSELL PROFESSIONAL GROUP, AND THAT SAID IMPROVEMENTS COMPLY WITH CURRITUCK COUNTY SPECIFICATIONS, EXCEPT THAT A PERFORMANCE GUARANTEE HAS BEEN POSTED WITH CURRITUCK COUNTY GUARANTEEING THAT ALL REMAINING IMPROVEMENTS MUST BE COMPLETED BY THE 10TH DAY OF DECEMBER, 2026 ACCORDING TO THE PLANS AND SPECIFICATIONS PREPARED BY BISSELL PROFESSIONAL GROUP. REMAINING IMPROVEMENTS INCLUDE:

- PAVEMENT MARKINGS
- SIDEWALKS
- STREET TREES
- BUFFER TREES
- STREET LIGHTS

12/10/2024
DATE

DocuSigned by:

C6DA34EC9CBF428...
REGISTERED LAND SURVEYOR/ENGINEER
L-1756

REGISTRATION NUMBER

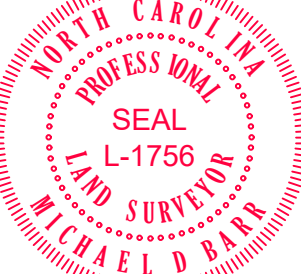
Bissell Professional Group
Firm License # C-956
3512 North Croatan Highway
P.O. Box 1068
Kitty Hawk, North Carolina 27949
(252) 261-1760
FAX (252) 261-1760

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Engineers, Planners, Surveyors
and Environmental Specialists

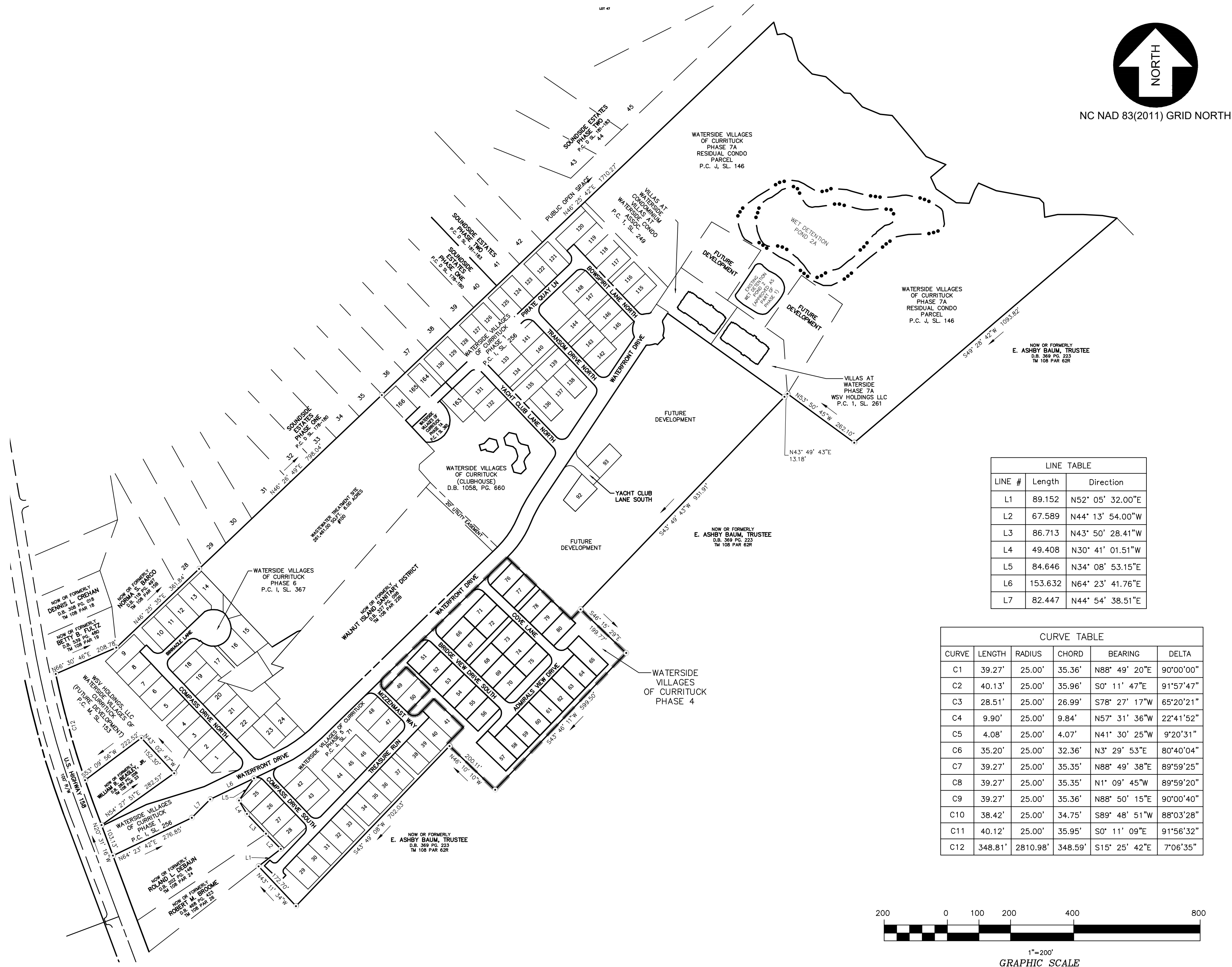
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PROJECT: WATERSIDE VILLAGES OF CURRITUCK
PHASE 4
NORTH CAROLINA
CURRITUCK COUNTY
POPLAR BRANCH
FINAL SUBDIVISION PLAT

REVISIONS	
NO.	DATE
1	06-12-24
2	06-12-24
3	06-12-24
4	06-12-24
5	06-12-24
6	06-12-24
7	06-12-24
8	06-12-24
9	06-12-24
10	06-12-24

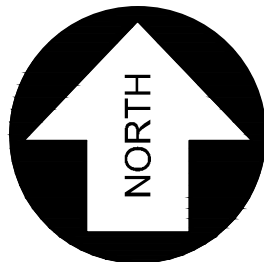
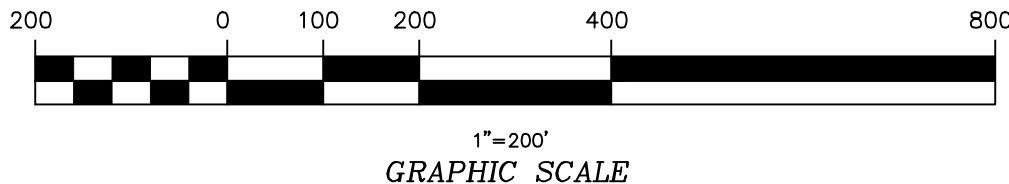


DATE	06-12-24
DESIGNED	AKM
CHECKED	MDB
DRAWN	AKM
APPROVED	BPG
SHEET:	1 OF 4
CAD FILE:	401800FPPH4
PROJECT NO:	4018



LINE TABLE		
LINE #	Length	Direction
L1	89.152	N52° 05' 32.00"E
L2	67.589	N44° 13' 54.00"W
L3	86.713	N43° 50' 28.41"W
L4	49.408	N30° 41' 01.51"W
L5	84.646	N34° 08' 53.15"E
L6	153.632	N64° 23' 41.76"E
L7	82.447	N44° 54' 38.51"E

CURVE TABLE					
CURVE	LENGTH	RADIUS	CHORD	BEARING	DELTA
C1	39.27'	25.00'	35.36'	N88° 49' 20"E	90°00'00"
C2	40.13'	25.00'	35.96'	S0° 11' 47"E	91°57'47"
C3	28.51'	25.00'	26.99'	S78° 27' 17"W	65°20'21"
C4	9.90'	25.00'	9.84'	N57° 31' 36"W	22°41'52"
C5	4.08'	25.00'	4.07'	N41° 30' 25"W	9°20'31"
C6	35.20'	25.00'	32.36'	N3° 29' 53"E	80°40'04"
C7	39.27'	25.00'	35.35'	N88° 49' 38"E	89°59'25"
C8	39.27'	25.00'	35.35'	N1° 09' 45"W	89°59'20"
C9	39.27'	25.00'	35.36'	N88° 50' 15"E	90°00'40"
C10	38.42'	25.00'	34.75'	S89° 48' 51"W	88°03'28"
C11	40.12'	25.00'	35.95'	S0° 11' 09"E	91°56'32"
C12	348.81'	2810.98'	348.59'	S15° 25' 42"E	7°06'35"



NC NAD 83(2011) GRID NORTH

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WATERSIDE VILLAGES

PHASE 4

PHASE 4

POPLAR BRANCH
CURRITUCK COUNTY
NORTH CAROLINA

FINAL SUBDIVISION PLAT

PROJECT:

[illegible]

DocuSigned by


 T.C. MİLLÎ EĞİTİM, BİLİM VE TEKNOLOJİ BAKANLIĞI
 MÜHÜR

C6DA34EC9CBF428.

12/10/24

DATE: 06-12-24 SCALE: 1" = 200'

SIGNED:	CHECKED: MDB
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AWN:	APPROVED:
AKM	BPG

MEET:

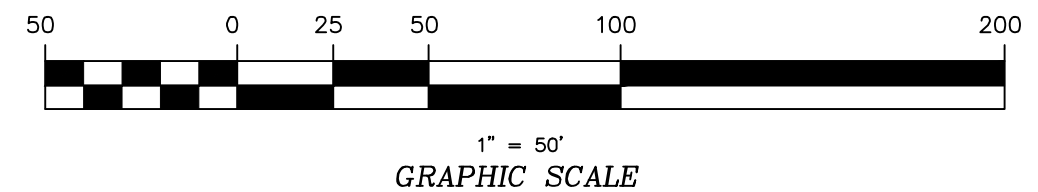
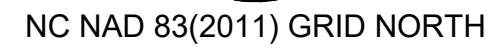
2 OF 4

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PROJECT NO:

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4018



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POPLAR BRANCH CURRITUCK COUNTY NORTH CAROLINA

FINAL SUBDIVISION PLAT

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SHEET:	
4	OF 4
CAD FILE:	
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PROJECT NO:	
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PROJECT: **WATERSIDE VILLAGES**
PHASE 4

POPLAR BRANCH CURRITUCK COUNTY NORTH CAROLINA

FINAL SUBDIVISION PLAT

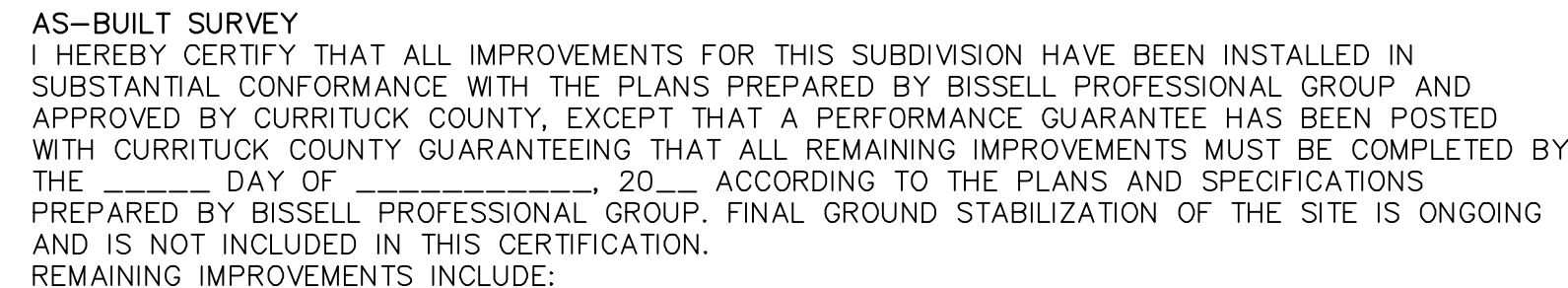
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and Environmental Specialists**

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12-11-2024

—DocuSigned by:

PERFORMANCE GUARANTEE. SHOULD THE OWNER OR DEVELOPER FAIL TO COMPLETE INSTALLATION OF THE GUARANTEED IMPROVEMENTS PER APPROVED PLAN WITHIN THE TERM OF THE PERFORMANCE (AS MAY BE EXTENDED) THE OWNER OR DEVELOPER SHALL REIMBURSE THE OWNER OR DEVELOPER 30 DAYS WRITTEN NOTICE OF THE DEFAULT BY CERTIFIED MAIL. AFTER THE 30-DAY NOTICE PERIOD EXPIRES, THE COUNTY MAY DRAW ON THE GUARANTEE AND USE THE FUNDS TO PERFORM WORK NECESSARY TO COMPLETE INSTALLATION OF THE GUARANTEED IMPROVEMENTS. UPON COMPLETION OF SAID WORK, THE COUNTY SHALL PROVIDE AN ACCOMPANYING STATEMENT OF THE EXPENDITURES TO THE OWNER, DEVELOPER AND, AS APPLICABLE, THE OWNER OR DEVELOPER SHALL REIMBURSE THE COUNTY IN ORDER TO BE RELEASED OF BOND AND AVOID A WARRANT OF INDEBTEDNESS.

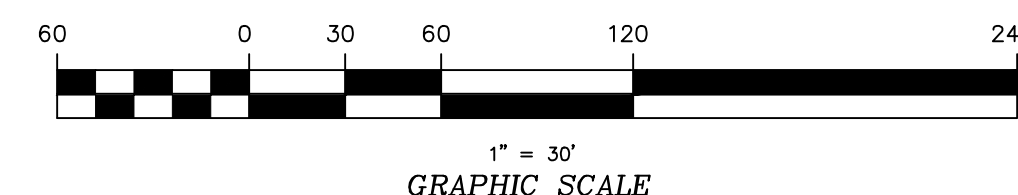
NORTH CAROLINA

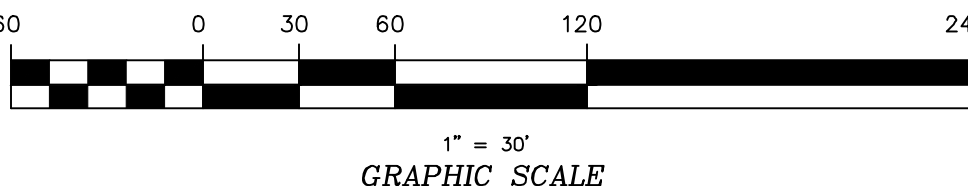
LEGEND	
	ROADWAY CENTERLINE
	RIGHT-OF-WAY
	PROPERTY BOUNDARY
	ADJOINING PROPERTY LINE
	SWALE CENTERLINE
	SWALE/BMP TOP OF BANK
	CULVERT (SIZE, TYPE & INVERTS AS NOTED)
	RECORD WATER DISTRIBUTION MAIN (SIZE AS NOTED)
EWL	EXISTING WATER LINE
	6" FIRE HYDRANT TYPICAL
	WATER VALVE TYPICAL (SIZE AS NOTED)
	WATER SERVICE METER BOX
	8" GRAVITY SEWER LINE & MANHOLE
	CATCH BASIN/DROP INLET & STORM PIPE
	SEWER SERVICE CLEANOUT
	DRAINAGE FLOW DIRECTION
F/L	FLOWLINE
EOC	EDGE OF CONCRETE
X 0.00 BPE	BUILDING PAD ELEVATION
X 0.00	SPOT ELEVATION

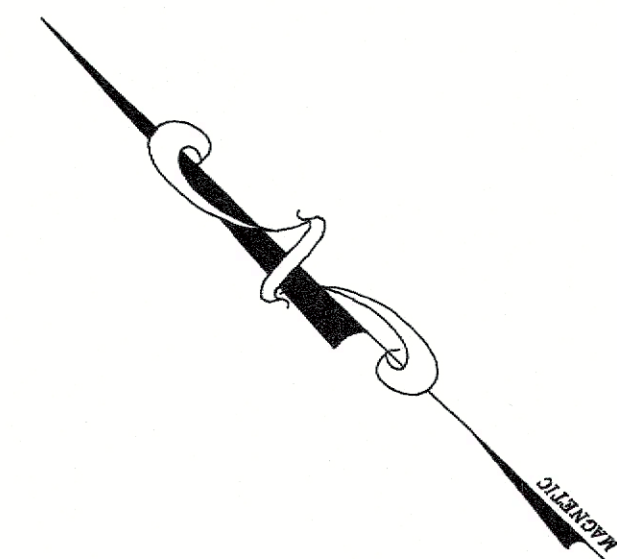
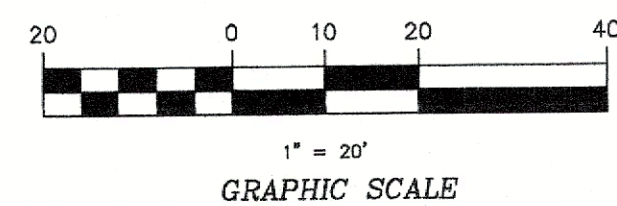
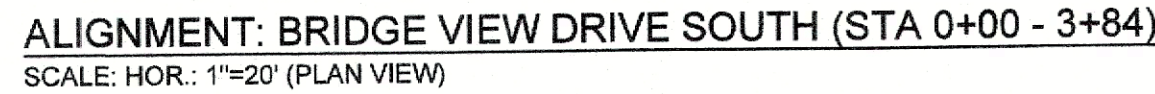
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(252) 261-3266

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FINAL DRAWING
NOT RELEASED FOR
CONSTRUCTION

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9 OF 23

CAD FILE:
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PROJECT NO:
4018

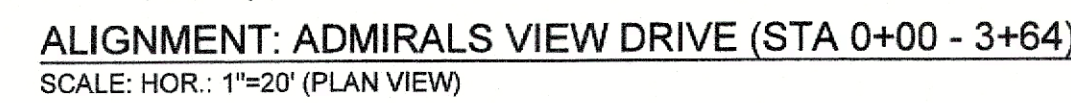
BRIDGE VIEW DRIVE SOUTH
PLAN & PROFILE (STATION 0+00 - 3+84)

PROJECT: **WATERSIDE VILLAGES OF CURRITUCK**
POPLAR BRANCH TOWNSHIP **CURRITUCK COUNTY** **NORTH CAROLINA**
CONSTRUCTION DRAWINGS PHASES 2 & 4

BISSELL

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Kitty Hawk, North Carolina 27849
(252) 261-3266
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REVISIONS		BY
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DATE: 9-26-22	SCALE: 1" = 20', 1" = 2'
DESIGNED: BPG	CHECKED: MSB
DRAWN: KFW/DMK	APPROVED: BPG
SHEET: 10 OF 23	
CAD FILE: 4018_PH_2-4	
PROJECT NO: 4018	

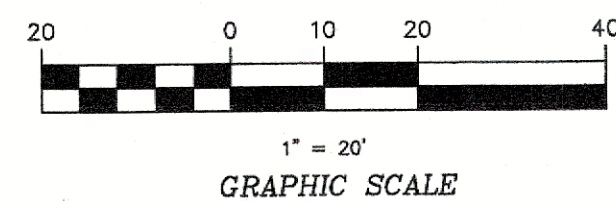
ADMIRALS VIEW DRIVE
PLAN & PROFILE (STATION 0+00 - 3+64)
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WATERSIDE VILLAGES OF CURRITUCK
PLAZA BRANCH TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA

BISSELL
PROFESSIONAL GROUP

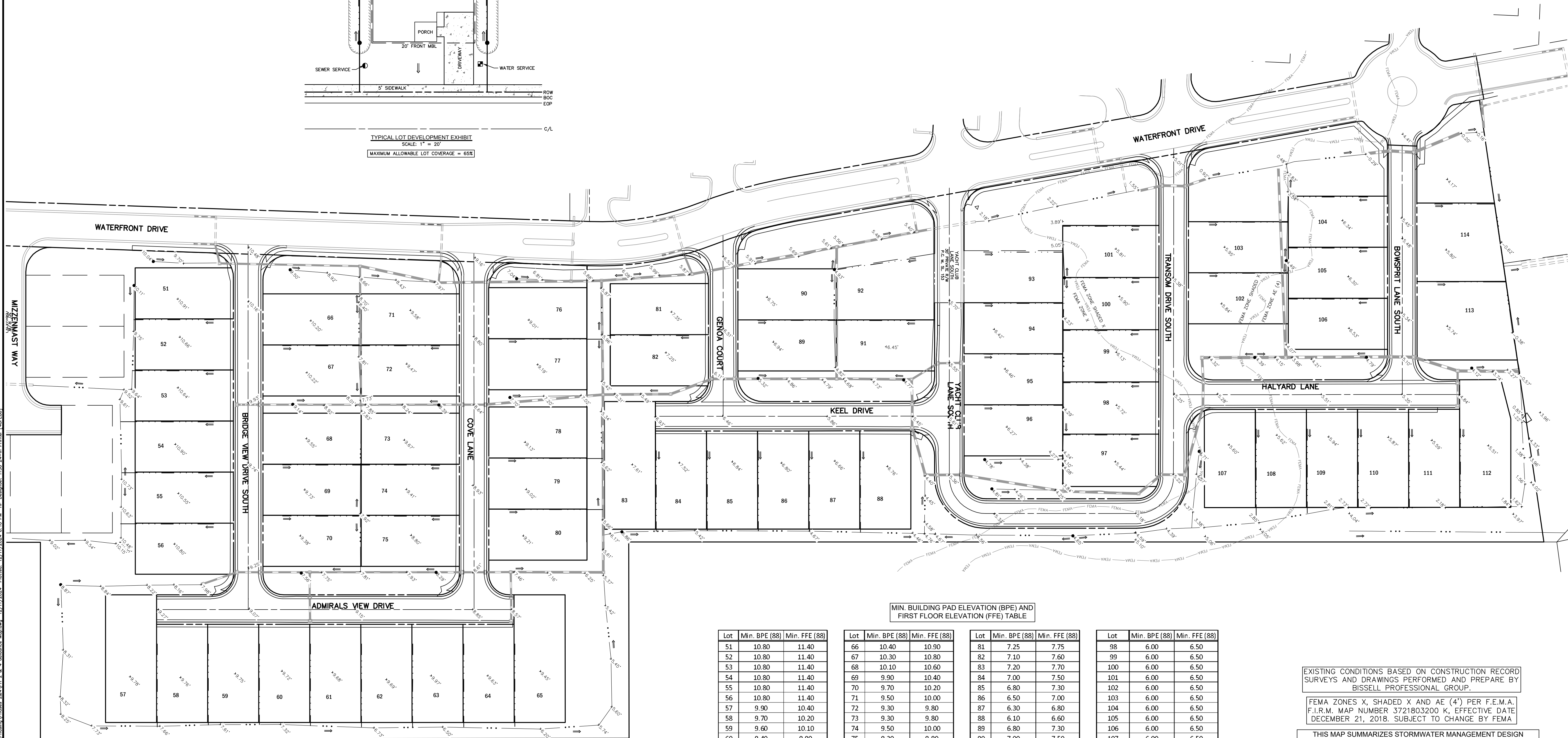
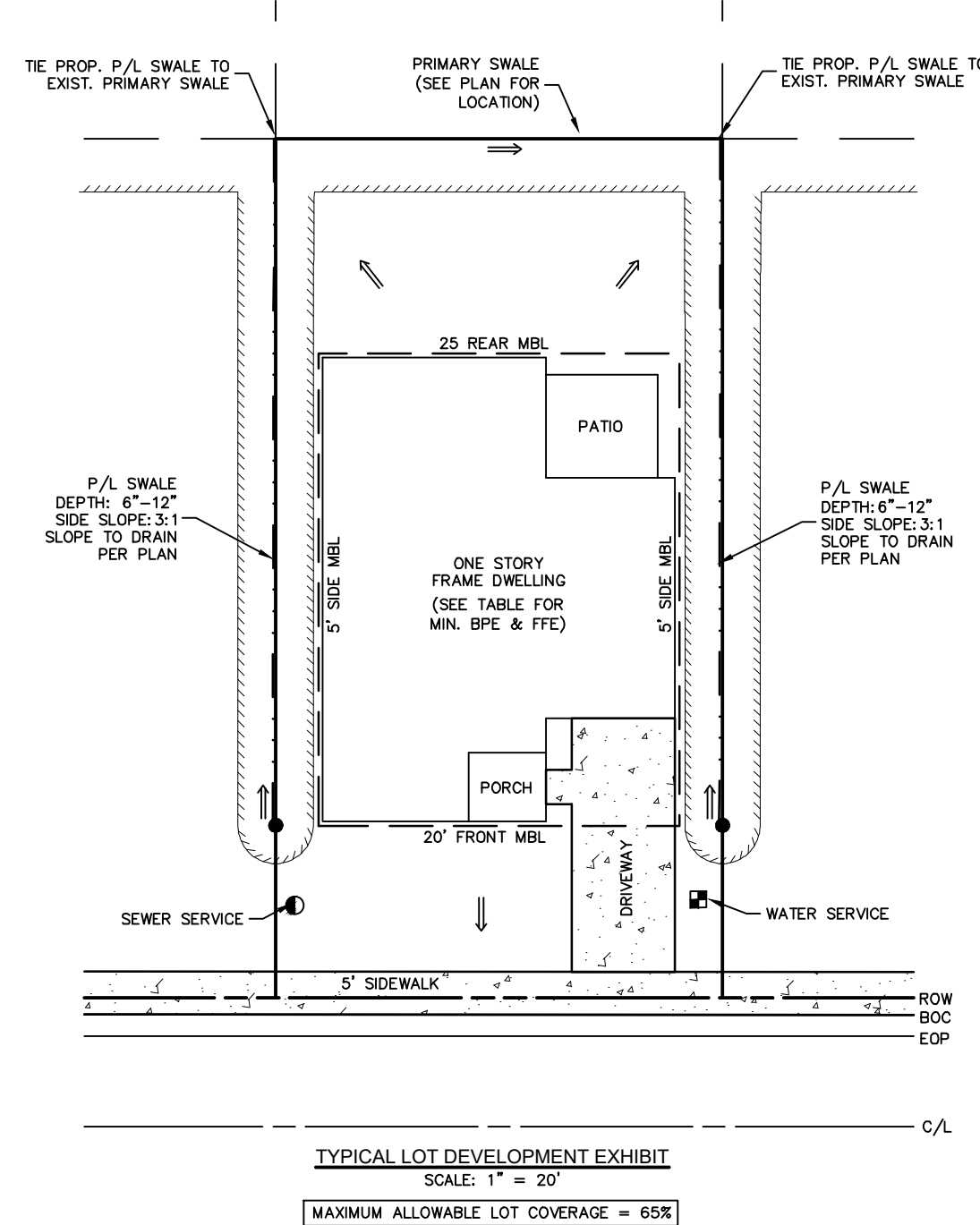
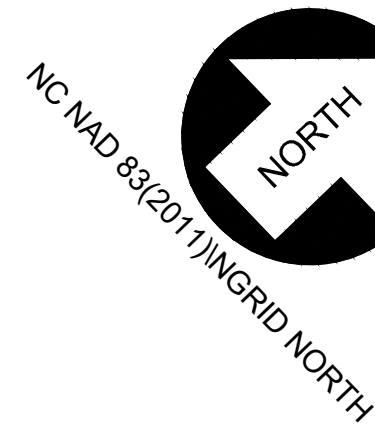
Engineers, Planners, Surveyors
and Environmental Specialists

Bissell Professional Group
1500 Louisa # C-350
1500 Louisa Highway
P.O. Box 1083
23060 North Carolina 27049
(252) 261-1500
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A circular professional engineer seal for the State of North Carolina. The outer ring contains the text "NORTH CAROLINA" at the top and "DAVID M. KLEBITZ" at the bottom. Inside the ring, the word "PROFESSIONAL" is at the top and "ENGINEER" is at the bottom. In the center, the word "SEAL" is above the number "040639". A handwritten signature, "D. M. Klebitz", is written across the seal.

S:\Projects\2018\Waterside Villages of Currituck\Phase 2\4018\2 & 4 Guidance Map.dwg 12/11/2024 6:10 PM up Designat: 12/11/2024 12:30 24 in Printer: LGS984



MIN. BUILDING PAD ELEVATION (BPE) AND
FIRST FLOOR ELEVATION (FFE) TABLE

Lot	Min. BPE (88)	Min. FFE (88)
51	10.80	11.40
52	10.80	11.40
53	10.80	11.40
54	10.80	11.40
55	10.80	11.40
56	10.80	11.40
57	9.90	10.40
58	9.70	10.20
59	9.60	10.10
60	9.40	9.90
61	9.40	9.90
62	9.60	10.10
63	9.50	10.00
64	9.30	9.80
65	9.30	9.80

Lot	Min. BPE (88)	Min. FFE (88)
66	10.40	10.90
67	10.30	10.80
68	10.10	10.60
69	9.90	10.40
70	9.70	10.20
71	9.50	10.00
72	9.30	9.80
73	9.30	9.80
74	9.50	10.00
75	9.30	9.80
76	9.25	9.75
77	9.10	9.60
78	9.10	9.60
79	9.20	9.70
80	9.10	9.60

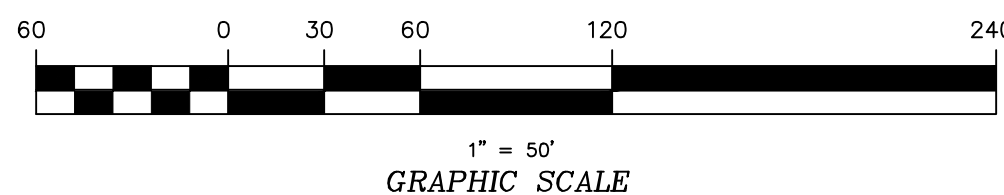
Lot	Min. BPE (88)	Min. FFE (88)
81	7.25	7.75
82	7.10	7.60
83	7.20	7.70
84	7.00	7.50
85	6.80	7.30
86	6.50	7.00
87	6.30	6.80
88	6.10	6.60
89	6.80	7.30
90	7.00	7.50
91	6.25	6.75
94	6.00	6.50
95	6.00	6.50
96	6.00	6.50
97	6.00	6.50

Lot	Min. BPE (88)	Min. FFE (88)
98	6.00	6.50
99	6.00	6.50
100	6.00	6.50
101	6.00	6.50
102	6.00	6.50
103	6.00	6.50
104	6.00	6.50
105	6.00	6.50
106	6.00	6.50
107	6.00	6.50
108	6.00	6.50
109	6.00	6.50
110	6.00	6.50
111	6.00	6.50
112	6.00	6.50
113	6.00	6.50

EXISTING CONDITIONS BASED ON CONSTRUCTION RECORD
SURVEYS AND DRAWINGS PERFORMED AND PREPARE BY
BISSELL PROFESSIONAL GROUP.

FEMA ZONES X, SHADED X AND AE (4') PER F.E.M.A.
F.I.R.M. MAP NUMBER 3721803200 K, EFFECTIVE DATE
DECEMBER 21, 2018. SUBJECT TO CHANGE BY FEMA

THIS MAP SUMMARIZES STORMWATER MANAGEMENT DESIGN
REQUIREMENTS FOR THE SUBDIVISION AND IS INTENDED TO BE
UTILIZED AS A GUIDANCE DOCUMENT FOR FUTURE DEVELOPMENT OF
THE INDIVIDUAL RESIDENTIAL LOTS. INCLUDED ARE TABLES OF
MINIMUM REQUIRED BUILDING PAD ELEVATIONS (BPE) AND MINIMUM
REQUIRED FIRST FLOOR ELEVATIONS (FFE)



REVISIONS	
NO.	DESCRIPTION

PRELIMINARY PLAT
For Review Purposes
Only

DATE:	12-11-24	SCALE:	1" = 50'
DESIGNED:	BPG	CHECKED:	MDB
DRAWN:	DMK	APPROVED:	BPG
SHEET:	1	OF	1
CAD FILE:	PH 2 & 4	PROJECT:	4018

PROJECT: WATERSIDE VILLAGES OF CURRITUCK - PH 2 & 4
NORTH CAROLINA
CURRITUCK COUNTY
POPLAR BRANCH
RESIDENTIAL LOT
DEVELOPMENT MAP & TABLES
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