ELIJAH'S LANDING APARTMENTS

EARLY NOTICE FLOODPLAIN AND WETLAND MAPS

- **Proposed Project Location Maps and Site Plans**
- **FEMA FIRMs and PFIRM with Parcel Boundary**
- **USFWS NWI Map with Parcel Boundary**
- **Proposed Floodplain and Wetlands Impacts Site Plan *(revised with Building #500 moved outside of 100-year floodplain)***
- **USACE CWA Section 404 General Permit Verification (3/5/21) with Special Conditions, USACE JD (7/24/2018), NCDEQ DWR CWA Section 401 Water Quality General Certification No. 4139 with Additional Conditions**

Proposed Project Location Maps and Site Plans

Elijah's Landing Apartments - Aerial Map

June 21, 2023

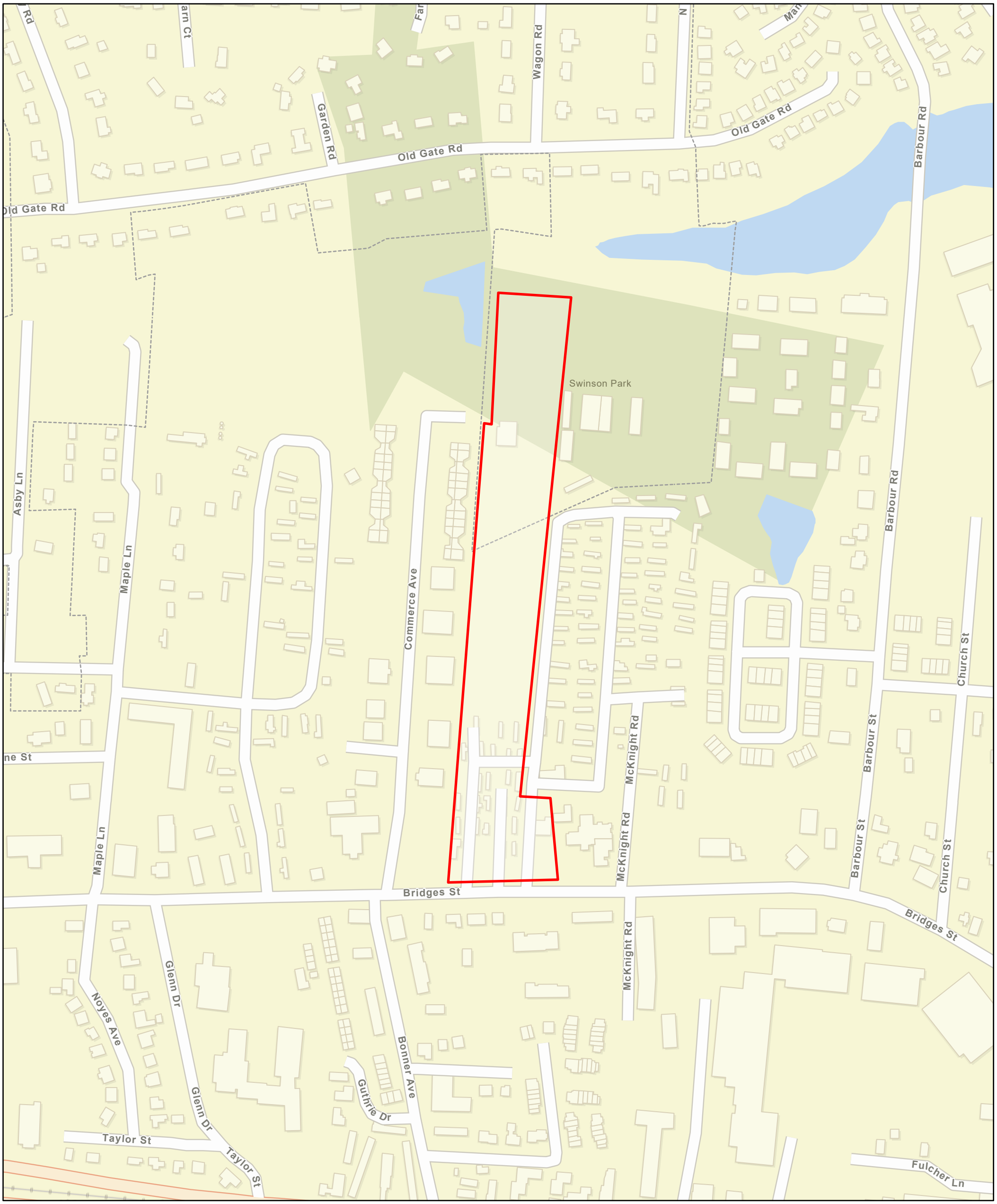
Elijah's Landing Apartments

1:4,514

0 0.04 0.09 0.17 mi

0 0.05 0.1 0.2 km

Elijah's Landing Apartments - Street Map



June 21, 2023

Elijah's Landing Apartments

1:4,514

0 0.04 0.09 0.17 mi

0 0.05 0.1 0.2 km

Elijah's Landing Apartments - Topo Map

June 21, 2023

Elijah's Landing Apartments

1:4,514

0 0.04 0.09 0.17 mi

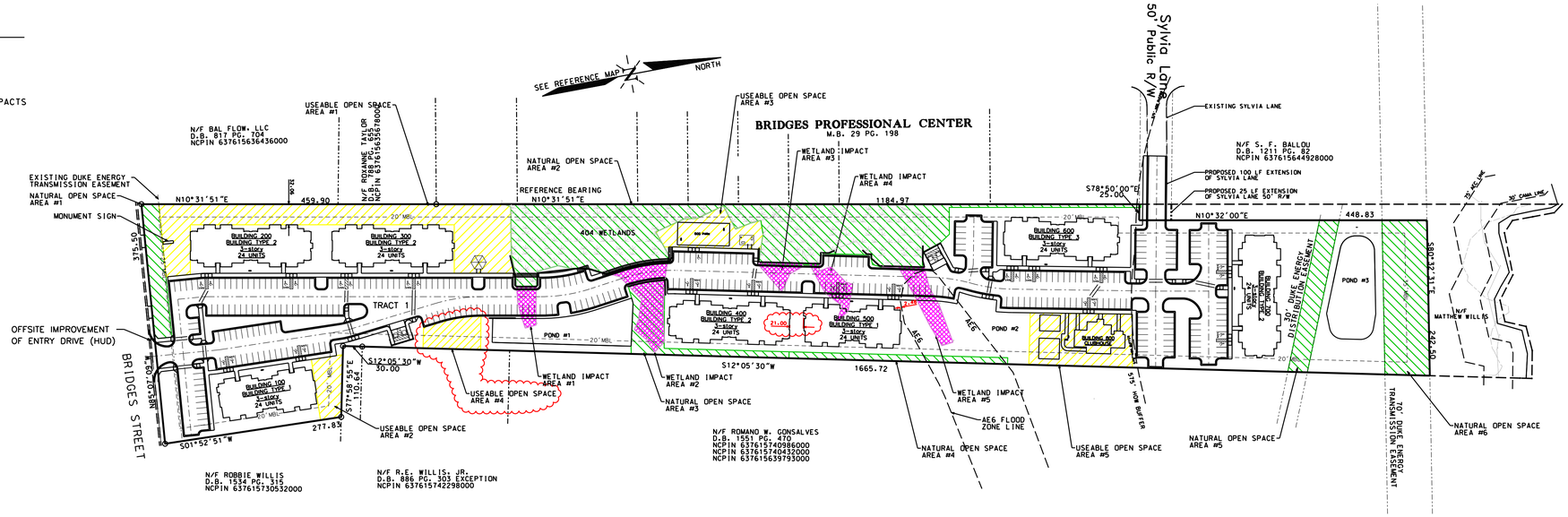
0 0.05 0.1 0.2 km

VICINITY MAP N.T.S.

SHEET INDEX	
SHEET NO.	DESCRIPTION
C1.0	OVERALL SITE PLAN
C2.0	EXISTING CONDITIONS SURVEY
C3.0	ENLARGED SITE PLAN
C4.0	EROSION CONTROL PLAN
C5.0	GRADING & DRAINAGE PLAN
C6.0	UTILITY PLAN
C6.1-6.3	UTILITY PLAN & PROFILES
C7.0	LANDSCAPE PLAN
C8.0	STORMWATER POND #1 DETAILS
C8.1	STORMWATER POND #2 DETAILS
C8.2	STORMWATER POND #3 DETAILS
C8.3	STORMWATER PONDS PLANTING PLAN
C9.0	SITE DETAILS
C10.0	SITE DETAILS
C11.0	EROSION CONTROL DETAILS
C12.0	UTILITY DETAILS
C13.0	BMP DELINEATION PLAN
C14.0	GROUND STABILIZATION
C15.0	SELF INSPECTION

LEGEND

- EXISTING WETLANDS
- PROPOSED WETLAND IMPACTS
- USEABLE OPEN SPACE
- NATURAL OPEN SPACE
- REVISIONS REQUESTED FOR REVIEW



AREA TABULATIONS

USEABLE OPEN SPACE AREAS	
AREA #	AREA (SF)
1	27,686.83
2	3,933.28
3	7,043.94
4	4,020.67
5	12,173.22
TOTAL AREA =	55,858.03 SF

NATURAL OPEN SPACE AREAS	
AREA #	AREA (SF)
1	5,561.79
2	54,784.37
3	7,711.15
4	3,110.77
5	7,259.98
6	16,913.42
TOTAL AREA = 95,341.48 SF	

WETLAND IMPACT AREAS	
AREA #	AREA (AC)
1	0.037
2	0.139
3	0.035
4	0.055
5	0.083
TOTAL AREA = 0.349 AC	

SITE DATA

TRACT AREA = 11.74 AC = 506,966.36 SF

MAXIMUM BUILDING COVERAGE ALLOWED IS 40% OF TRACT AREA = 202,786.54 SF
PROPOSED BUILDING COVERAGE (BUILDINGS 100 THRU 700, CLUBHOUSE, GAZEBO & COVERED PICNIC AREA) = 64,755.28 SF

MINIMUM LOT SIZE PER UNITS = 5,000 SF FOR FIRST UNIT, EACH 2+ BEDROOM UNIT REQUIRES 3,000 SF PER UNIT AND EACH 1 BEDROOM UNIT REQUIRES 2,500 SF PER UNIT.
PROPOSED (30) 1 BEDROOM UNITS, (78) 2 BEDROOM UNITS AND (60) 3 BEDROOM UNITS
REQUIRED AREA = 5,000 SF + [138 UNITS X 3,000 SF] + [29 X 2,500 SF] = 491,500 SF = 11.28 AC
TRACT AREA IS GREATER THAN MINIMUM LOT AREA REQUIRED

OPEN SPACE REQUIREMENTS = 18% OF TRACT MUST BE NATURAL OPEN SPACE AND 10% USEABLE OPEN SPACE
NATURAL OPEN SPACE REQUIRES (18% OF TRACT) = 91,253.94 SF
USEABLE OPEN SPACE REQUIRED (10% OF TRACT) = 50,696.64 SF
NATURAL OPEN SPACE PROVIDED = 94,261.85 SF
USEABLE OPEN SPACE PROVIDED = 55,858.03 SF

MINIMUM SETBACK REQUIREMENTS
FRONT = 25'; 25' PROVIDED
REAR = 25' + 5' PER ADDITIONAL STORY = 35'; 35' PROVIDED
SIDE = 20' AGGREGATE = 5' PER ADDITIONAL STORY = 40' AGGREGATE
SIDE SETBACKS ARE 20' FOR ENTIRE PROPERTY

MAXIMUM BUILDING HEIGHT ALLOWED = 50' ABOVE AVERAGE GRADE
MAXIMUM BUILDING HEIGHT PROPOSED = 34'3"

PARKING DATA

PARKING SPACES REQ'D = 1.75 PARKING SPACES PER RESIDENTIAL UNIT (NCHFA 2020 QAP)
PARKING SPACES REQ'D = 168 UNITS X 1.75 SPACES PER UNIT = 294 SPACES TOTAL

PARKING REQ'D (MOREHEAD CITY) = 2 SPACES PER UNIT PLUS 1 ADDITIONAL SPACE PER 6 UNITS
PARKING SPACES REQ'D = 336 SPACES + 28 SPACES = 364 TOTAL SPACES
PARKING SPACES PROVIDED = 348 SPACES - PLEASE SEE REQUEST FOR 4.4% PARKING REDUCTION PER ORDINANCE SECTION 20-1.4.

HANDICAP(H/C) PARKING REQ'D (NORTH CAROLINA) = 2% OF 364 = 8 SPACES REQ'D

HANDICAP(H/C) PARKING REQ'D (NCHFA) = 1 PER TYPE 'A' UNITS, 2% OF TYPE 'B' UNITS, 1 PER LOCATIONS OF AMENITIES. VAN ACCESSIBLE SPACES REQ'D AT EACH AMENITIES LOCATION AND THE 1ST HANDICAP SPACE PER TYPE 'A' UNIT
TYPE 'A' UNITS = 18, 18 HANDICAP SPACES REQ'D
TYPE 'B' UNITS = 38, 1 HANDICAP SPACES REQ'D
AMENITIES LOCATION = 3, 3 HANDICAP SPACES REQ'D
HANDICAP(H/C) PARKING REQ'D = 21 VAN SPACES + 1 SPACES = 22 HANDICAP SPACES TOTAL
HANDICAP PARKING SPACES PROVIDED = 33 SPACES

100 50 0 100 200
SCALE: 1" = 100'

Elijah's Landing
3140 & 3200 Bridges St.
Morehead City, Careteret County, NC 28557
FHA Project #:053-36291

Elijah's Landing Overall Site Plan

THE CULLIPHER GROUP, P.A.
ENGINEERING & SURVEYING SERVICES
C-4482
181-A NC HIGHWAY 24
MOREHEAD CITY, N.C. 28557
(252) 773-0090

CHARLES M. CULLIPHER PROFESSIONAL SEAL 037378 ENGINEER
9/28/22

100% CONSTRUCTION DRAWINGS

date	9/28/22
drafter	CMC
checked by	CMC
proj. no.	PM858-29
revisions	
1	PER NCFHA
2	PER TOWN
3	PER TITLE/LENDER
4	PER NCDPS

OVERALL SITE PLAN

C1.0

LEGEND

EIR	EXISTING IRON ROD
EIP	EXISTING IRON PIPE
EPK	EXISTING PK NAIL
ECM	EXISTING CONC. MON.
ERRS	EXISTING R/R SPIKE
EX.	EXISTING
EOP	EDGE OF PAVEMENT
SIR	SET IRON ROD
CP	CALCULATED POINT
MHW	MEAN HIGH WATER
N/F	NOW OR FORMERLY
MB	MAP BOOK
DB	DEED BOOK
PG	PAGE
PP	POWER POLE
LP	LIGHT POLE
OE	OVERHEAD ELECTRIC
ELEC	ELECTRICAL PEDESTAL
TRANS	ELEC. TRANSFORMER
TEL	TELEPHONE PEDESTAL
TV	CABLE TV PEDESTAL
WM	WATER METER
CO	CLEAN OUT
SWMH	SINGLE WIDE MOBILE HOME
SD	SHED
DS	DANCE STUDIO
SSMH	SANITARY SEWER MANHOLE
(#)	EXCEPTION ITEMS IDENTIFICATION NUMBER

FENCE
EASEMENT
EXISTING IMPROVEMENTS
UNDERGROUND SEWER
ADJACENT PROPERTY BOUNDARY
FLOOD ZONE
DITCH CENTERLINE
WETLAND
(25) ADJOINING PROPERTY LOT NUMBER

RECORD LEGAL DESCRIPTION

BEGINNING AT A SET IRON ROD IN THE NORTHERN RIGHT OF WAY OF BRIDGES STREET. SAID POINT ALSO BEING LOCATED S77°15'43"E 179.39 FEET AND S85°07'09"E 375.50 FEET FROM AN EXISTING IRON ROD LOCATED IN THE EASTERN RIGHT OF WAY OF COMMERCE AVENUE. THENCE FROM SAID BEGINNING POINT AND ALONG BRIDGES STREET RIGHT OF WAY N85°07'09"W 375.50 FEET TO AN EXISTING IRON ROD. THENCE LEAVING SAID RIGHT OF WAY N10°31'51"E 459.90 FEET TO AN EXISTING IRON LOCATED AT THE NORTHEAST CORNER OF THAT PROPERTY OWNED BY ROXANNE TAYLOR AS RECORDED IN DEED BOOK 788 PAGE 655 OF THE CARTERET COUNTY REGISTRY. THENCE FROM SAID POINT AND CONTINUING ON THE SAME LINE N10°31'51"E 1096.61 FEET TO AN EXISTING IRON ROD. SAID LINE BEING THE EASTERN LINE OF BRIDGES PROFESSIONAL CENTER AS RECORDED IN MAP BOOK 29 PAGE 198. SAID POINT ALSO BEING NEAR THE SOUTHERN RIGHT OF WAY OF SYLVIA LANE. THENCE LEAVING SAID EASTERN LINE AND AN EXTENSION OF THE SOUTHERN LINE OF SYLVIA LANE S78°50'00"E 25.00 FEET TO AN EXISTING IRON ROD. THENCE N10°32'00"E 448.83 FEET TO AN EXISTING IRON ROD NEAR THE NORTHERN RIGHT OF WAY OF A 70 FOOT DUKE ENERGY UTILITY EASEMENT. THENCE WITH SAID NORTH LINE S80°32'31"E 242.50 FEET TO AN EXISTING IRON ROD. THENCE LEAVING SAID NORTHERN LINE S12°05'30"W 1665.72 FEET TO A SET IRON ROD. THENCE S12°05'30"W 30.00 FEET TO A SET IRON ROD. THENCE S77°58'54"E 110.64 FEET TO A SET IRON ROD. THENCE S01°52'51"W 277.83 FEET TO THE POINT AND PLACE OF BEGINNING. BEING ALL OF TRACT 1. MAP BOOK 33. PAGE 993. AND CONTAINING 11.64 ACRES.

ENCROACHMENT/SIGNIFICANT OBSERVATION

THE FOLLOWING ITEMS CONSTITUE ENCROACHMENTS:
1. THE ASPHALT DRIVE THAT LIES ACROSS THE EASTERN BOUNDARY.
2. THE MOBILE HOME THAT LIES ACROSS BOUNDARY LINE RUNNING 110.64' S77°58'55"E AND IS ENLARGED WITHIN DETAIL "A" OF THIS MAP.
3. THE BRICK WALKWAY, ASPHALT DRIVE AND FENCE THAT LIES ACROSS BOUNDARY LINE RUNNING 277.83' S01°52'51"W AND IS ENLARGED WITHIN DETAIL "A" OF THIS MAP.
4. THE CHAIN LINK FENCE AROUND THE WOOD FRAME BUILDING NEAR THE SYLVIA LANE RIGHT-OF-WAY.

REFERENCE MAP

SEE SURVEY FOR WILLIS MOBILE HOME PARK #1 FOR LOIS MATTHEWS C/O HARVELL AND COLLINS, P.A. BY PRESTIGE LAND SURVEYING, P.A. DATED JUNE 29, 2016.

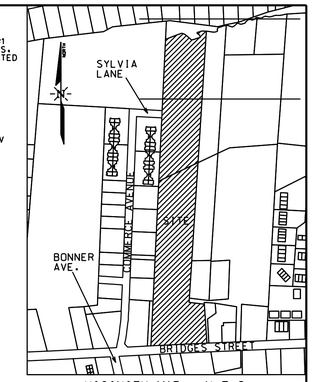
TO: ELIJAH'S LANDING OF MOREHEAD CITY, LLC, CHURCHILL MORTAGE INVESTMENT LLC, A FLORIDA LIMITED LIABILITY COMPANY, CHURCHILL MORTGAGE CONSTRUCTION, LLC, DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT(HUD), CHICAGO TITLE INSURANCE COMPANY AND, COMMUNITY EQUITY FUND XXV LIMITED PARTNERSHIP:

DATE OF PLAT OR MAP: 10/8/2021 AND LAST REVISED: 12/1/21

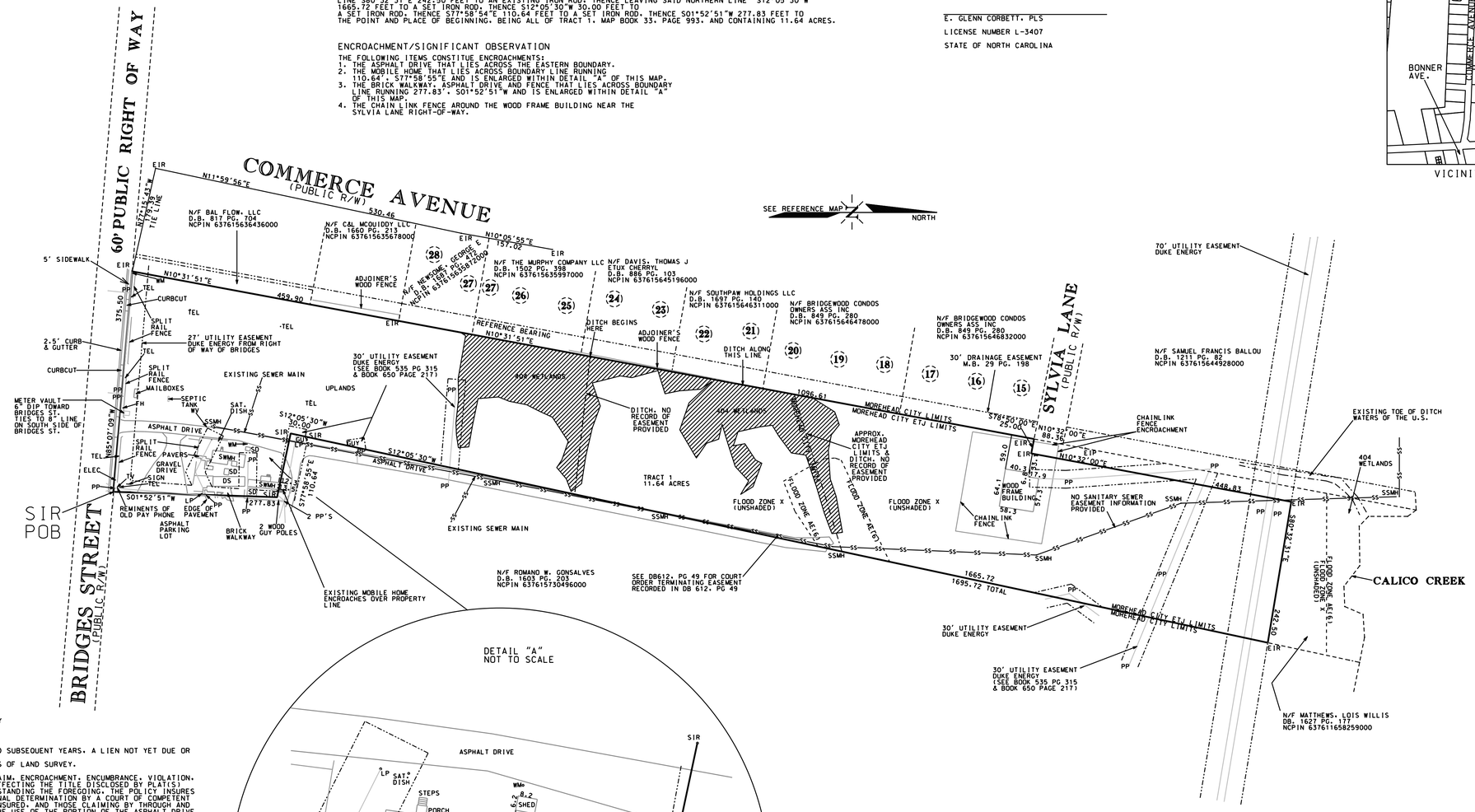
E. GLENN CORBETT, PLS

LICENSE NUMBER L-3407

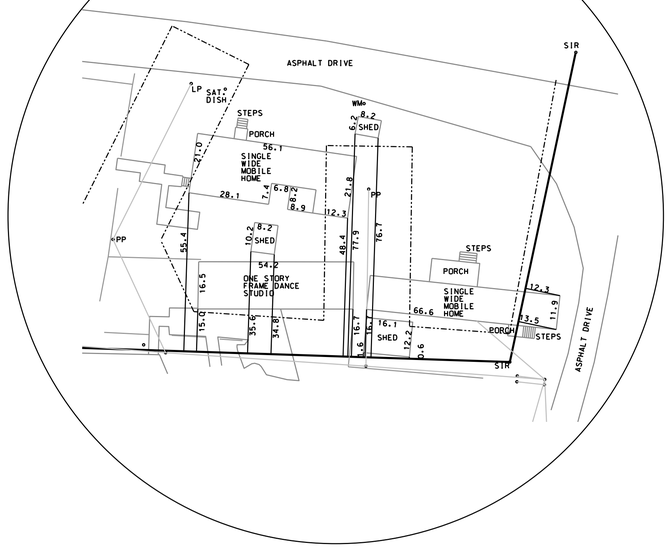
STATE OF NORTH CAROLINA



VICINITY MAP N.T.S.



DETAIL "A"
NOT TO SCALE



SURVEYOR'S COMMENTS - SCHEDULE B, PART II
RELATIVE TO CHICAGO TITLE INSURANCE COMPANY
COMMITMENT NUMBER: 21-20231NB
COMMITMENT DATE: 9/16/21: REVISED 11/23/21

1. TAXES OR ASSESSMENTS FOR THE YEAR 2022, AND SUBSEQUENT YEARS. A LIEN NOT YET DUE OR PAYABLE.
SURVEYOR'S COMMENTS: NOT RELATED TO MATTERS OF LAND SURVEY.

2. ANY RIGHT, EASEMENT, SETBACK, INTEREST, CLAIM, ENCROACHMENT, ENCUMBRANCE, VIOLATION, VARIATIONS OR OTHER ADVERSE CIRCUMSTANCE AFFECTING THE TITLE DISCLOSED BY PLAT(S) RECORDED IN MAP BOOK 33, PAGE 993, NOTWITHSTANDING THE FOREGOING, THE POLICY INSURES AGAINST LOSS OR DAMAGE RESULTING FROM A FINAL DETERMINATION BY A COURT OF COMPETENT JURISDICTION THAT PARTIES OTHER THAN THE INSURED, AND THOSE CLAIMING BY THROUGH AND UNDER THE INSURED, HAVE RIGHTS IN AND TO THE USE OF THE PORTION OF THE ASPHALT DRIVE LOCATED ON THE LAND AND SHOWN THEREON. (LOAN POLICY ONLY)
SURVEYOR'S COMMENTS: SEE CURRENT SURVEY - SHOWN GRAPHICALLY AND LABELED.

3. ANY DISCREPANCY, CONFLICT, MATTERS REGARDING ACCESS, SHORTAGE IN AREA OR BOUNDARY LINES, ENCROACHMENT, ENCUMBRANCE, VIOLATION, VARIATION, OVERLAP, SETBACK, EASEMENT OR CLAIMS OF EASEMENT, RIPARIAN RIGHT, AND TITLE TO LAND WITHIN ROADS, WAYS, RAILROADS, WATERCOURSES, BURIAL GROUNDS, MARSHES, DREDGED OR FILLED AREAS OR LAND BELOW THE MEAN HIGHWATER MARK OR WITHIN THE BOUNDS OF ANY ADJOINING BODY OF WATER, OR OTHER ADVERSE CIRCUMSTANCE AFFECTING THE TITLE THAT WOULD BE DISCLOSED BY A CURRENT INSPECTION AND ACCURATE AND COMPLETE LAND SURVEY OF THE LAND.
UPON RECEIPT OF A CURRENT LAND SURVEY AND SURVEYOR'S REPORT, THIS EXCEPTION WILL BE ELIMINATED OR AMENDED IN ACCORDANCE WITH THE FACTS SHOWN THEREBY.
SURVEYOR'S COMMENTS: SEE CURRENT SURVEY - SHOWN GRAPHICALLY AND LABELED.

4. RIGHTS OF WAY TO CAROLINA POWER AND LIGHT COMPANY RECORDED IN BOOK 535, PAGE 315; BOOK 650, PAGE 217.
SURVEYOR'S COMMENTS: SEE CURRENT SURVEY - SHOWN GRAPHICALLY AND LABELED.

5. TITLE TO ANY PORTION OF THE LAND LYING WITHIN THE RIGHT OF WAY OF BRIDGES STREET.
SURVEYOR'S COMMENTS: SEE CURRENT SURVEY - SHOWN GRAPHICALLY AND LABELED..

6. RIPARIAN AND/OR LITTORAL RIGHTS INCIDENT TO THE LAND; RIGHTS OF OTHERS IN AND TO THE CONTINUOUS AND UNINTERRUPTED FLOW OF THE WATERS BOUNDING OR CROSSING THE LAND; AND TITLE TO ANY PORTION OF THE LAND OWNED BY ANY GOVERNMENTAL ENTITY INCLUDING, BUT NOT LIMITED TO, MARSH, DREDGED AND/OR FILLED AREAS AND LAND BELOW THE MEAN HIGH-WATER MARK.
SURVEYOR'S COMMENTS: NOT RELATED TO MATTERS OF LAND SURVEY.

7. THE LAND SHALL NOT BE DEEMED TO INCLUDE ANY HOUSE TRAILER, MANUFACTURED HOME, MOBILE HOME, OR MOBILE DWELLING ON THE LAND.
SURVEYOR'S COMMENTS: SEE CURRENT SURVEY - SHOWN GRAPHICALLY AND LABELED.

8. ORDINANCE FOR ANNEXATION RECORDED IN BOOK 1671, PAGE 120.
SURVEYOR'S COMMENTS: NOT RELATED TO MATTERS OF LAND SURVEY.

9. EASEMENT FROM ELIJAH'S LANDING OF MOREHEAD CITY, LLC TO DUKE ENERGY PROGRESS, LLC RECORDED JUNE 2, 2021, IN FILE #1724386, CARTERET COUNTY REGISTRY.
SURVEYOR'S COMMENTS: NOT RELATED TO MATTERS OF LAND SURVEY.

NOTES:

1. THIS SURVEY IS OF AN EXISTING PARCEL OF LAND
2. AREA BY COORDINATES.
3. THIS MAP IS NOT FOR RECORDING.
4. TRACT AREA = 11.64 ACRES = 506,964.36 SF
5. NO POINTS SET IN CALICO CREEK.
6. NO TREES LOCATED OR SHOWN.
7. NO EASEMENTS FOR WATER, SEWER, TELEPHONE OR DRAINAGE PROVIDED.
8. FLOOD ZONE LINES SCALED FROM FIRM NUMBER 3720637600J DATED 7/16/03.
9. NO PARKING SPACES OR STRIPING EXIST ON PROPERTY.
10. NO PARTY OR DIVISION WALLS EXIST ON PROPERTY.
11. WETLANDS LINES FIELD APPROVED BY TOM CHARLES OF USACOE ON 3/18/18.
12. PROPERTY IS ZONED: RMF (RESIDENTIAL MULTI-FAMILY) ACCORDING TO THE ZONING VERIFICATION LETTER PROVIDED BY THE TOWN OF MOREHEAD CITY, DATED 10/27/2021.
13. AT TIME OF FIELD WORK, THERE WAS NO EVIDENCE OF EARTH MOVING, CONSTRUCTION, ETC.
14. AT TIME OF FIELD WORK, THERE WAS NO EVIDENCE OF STREET OR RIGHT-OF-WAY CHANGES.
15. PARCEL HAS TWO ADDRESS NUMBERS DUE TO OLD TAX NUMBERS.
16. THE SURVEY CORRECTLY SHOWS THE LOCATION OF ALL BUILDINGS, STRUCTURES, AND OTHER IMPROVEMENTS SITUATED ON THE PROPERTY.
17. EXCEPT AS SHOWN, ALL UTILITIES SERVING THE PROPERTY ENTER THROUGH ADJOINING PUBLIC STREETS AND OR EASEMENTS OF RECORD; THAT, EXCEPT AS SHOWN, THERE ARE NO VISIBLE EASEMENTS OR RIGHTS OF WAY ACROSS SAID PROPERTY; THAT THE PROPERTY IS THE SAME AS THE PROPERTY DESCRIBED IN INVESTORS TITLE INSURANCE COMPANY, COMMITMENT NO. 21-20231NB WITH AN EFFECTIVE DATE OF 09/16/2021 AND A DATE OF SECOND REVISION OF 11/23/2021; AND THAT ALL EASEMENTS, COVENANTS AND RESTRICTIONS REFERENCED IN SAID TITLE COMMITMENT, OR EASEMENTS OF WHICH THE UNDERSIGNED HAS BEEN ADVISED OR HAS KNOWLEDGE, HAVE BEEN PLOTTED HEREON OR OTHERWISE NOTED AS TO THEIR AFFECT ON THE PROPERTY
18. EXCEPT AS SHOWN, THERE ARE NO ENCROACHMENTS ONTO ADJOINING PREMISES, STREETS OR ALLEYS BY ANY BUILDING, STRUCTURES OR OTHER IMPROVEMENTS, AND NO ENCROACHMENTS ONTO SAID PROPERTY BY BUILDINGS, STRUCTURES OR OTHER IMPROVEMENTS SITUATED ON ADJOINING PREMISES.
19. BY GRAPHIC PLOTTING ONLY, THE PROPERTY IS LOCATED IN ZONE X (UNSHADED) AND AE(6) OF THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 3720637600J, WHICH BEARS AN EFFECTIVE DATE OF 07/16/03, AND A PORTION OF THE PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZZARD AREA. THIS COMMUNITY DOES PARTICIPATE IN THE PROGRAM. NO FIELD SURVEYING PERFORMED TO DETERMINE BASE FLOOD ELEVATION OR ESTABLISH BENCHMARK.
20. THE PROPERTY HAS DIRECT PHYSICAL ACCESS TO A PUBLICLY DEDICATED STEET OR HIGHWAY KNOWN AS BRIDGES STEET AND IS A 60' PUBLIC RIGHT OF WAY.
21. THE NUMBER OF STRIPED PARKING SPACES LOCATED ON THE PROPERTY IS INCLUDING HANDICAPPED SPACES AND TO THE EXTENT POSSIBLE ARE GRAPHICALLY SHOWN HEREON. N/A
22. THIS PROPERTY IS A SINGLE TAX PARCEL.

Elijah's Landing
3140 & 3200 Bridges St.
Morehead City, Carereter
County, NC 28557
FHA Project #:053-36291

Elijah's Landing

THE CULLIPHER GROUP, P.A.
ENGINEERING & SURVEYING SERVICES
C-4483
151-A NC HIGHWAY 24
MOREHEAD CITY, N.C. 28557
(252) 773-0090

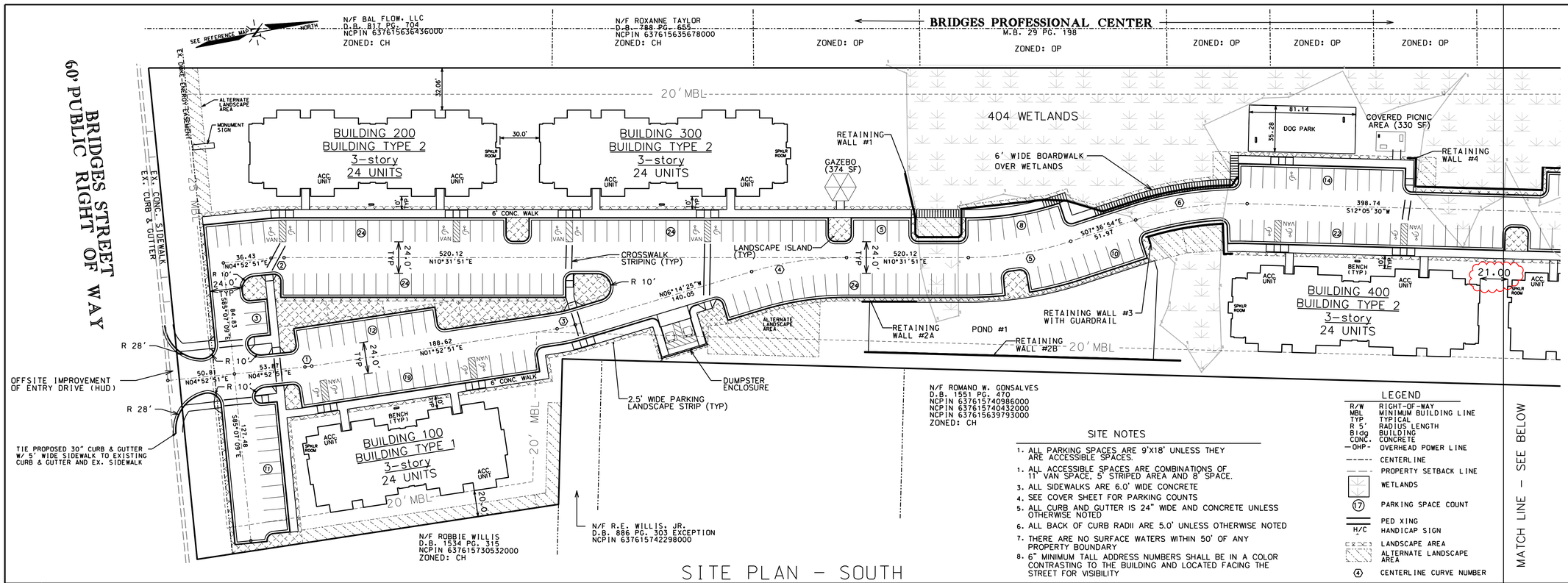
PRELIMINARY PLAT
NOT FOR RECORDATION, CONVEYANCE OR SALE.
FOR REVIEW ONLY!

100% CONSTRUCTION DRAWINGS

date	9/28/22
drafter	CMC
checked by	EGC
proj. no.	PM858-29
revisions	
1	PER NCFHA
2	PER TOWN
3	PER TITLE/LENDER
4	PER NCDPS

ALTA /NSPS LAND TITLE SURVEY

C2.0



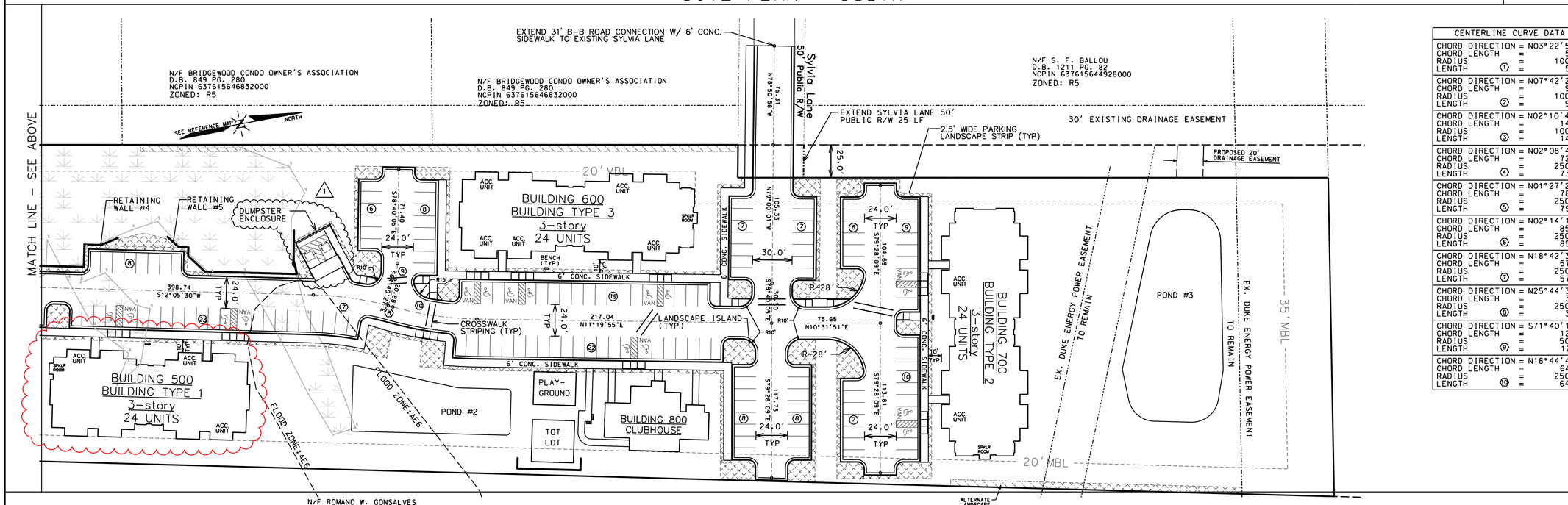
SITE PLAN - SOUTH

SITE NOTES

1. ALL PARKING SPACES ARE 9'X18' UNLESS THEY ARE ACCESSIBLE SPACES.
1. ALL ACCESSIBLE SPACES ARE COMBINATIONS OF 11' VAN SPACE, 5' STRIPED AREA AND 8' SPACE.
3. ALL SIDEWALKS ARE 6.0' WIDE CONCRETE
4. SEE COVER SHEET FOR PARKING COUNTS
5. ALL CURB AND GUTTER IS 24" WIDE AND CONCRETE UNLESS OTHERWISE NOTED
6. ALL BACK OF CURB RADII ARE 5.0' UNLESS OTHERWISE NOTED
7. THERE ARE NO SURFACE WATERS WITHIN 50' OF ANY PROPERTY BOUNDARY
8. 6" MINIMUM TALL ADDRESS NUMBERS SHALL BE IN A COLOR CONTRASTING TO THE BUILDING AND LOCATED FACING THE STREET FOR VISIBILITY

LEGEND

R/W	RIGHT-OF-WAY
MBL	MINIMUM BUILDING LINE
TYP	TYPICAL
R 5'	RADIUS LENGTH
Bldg	BUILDING
CONC.	CONCRETE
-OHP-	OVERHEAD POWER LINE
	CENTERLINE
	PROPERTY SETBACK LINE
	WETLANDS
(17)	PARKING SPACE COUNT
	PED XING
H/C	HANDICAP SIGN
	LANDSCAPE AREA
	ALTERNATE LANDSCAPE AREA
(4)	CENTERLINE CURVE NUMBER



SITE PLAN - NORTH

40 20 0 40 80

SCALE: 1" = 40'

CENTERLINE CURVE DATA

CHORD DIRECTION	=	N03°22'51"E
CHORD LENGTH	=	5.24
RADIUS	=	100.00
LENGTH (1)	=	5.24
CHORD DIRECTION	=	N07°42'21"E
CHORD LENGTH	=	9.86
RADIUS	=	100.00
LENGTH (2)	=	9.86
CHORD DIRECTION	=	N02°10'47"W
CHORD LENGTH	=	14.16
RADIUS	=	100.00
LENGTH (3)	=	14.17
CHORD DIRECTION	=	N02°08'43"E
CHORD LENGTH	=	72.92
RADIUS	=	250.00
LENGTH (4)	=	73.18
CHORD DIRECTION	=	N01°27'29"E
CHORD LENGTH	=	78.85
RADIUS	=	250.00
LENGTH (5)	=	79.18
CHORD DIRECTION	=	N02°14'18"E
CHORD LENGTH	=	85.56
RADIUS	=	250.00
LENGTH (6)	=	85.99
CHORD DIRECTION	=	N18°42'32"E
CHORD LENGTH	=	57.62
RADIUS	=	250.00
LENGTH (7)	=	57.74
CHORD DIRECTION	=	N25°44'35"E
CHORD LENGTH	=	3.64
RADIUS	=	250.00
LENGTH (8)	=	3.64
CHORD DIRECTION	=	S71°40'16"E
CHORD LENGTH	=	12.18
RADIUS	=	50.00
LENGTH (9)	=	12.21
CHORD DIRECTION	=	N18°44'46"E
CHORD LENGTH	=	64.52
RADIUS	=	250.00
LENGTH (10)	=	64.70

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Elijah's Landing

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 037378 CHARLES M. CULLIPHER 9/28/22

100% CONSTRUCTION DRAWINGS

date	9/28/22
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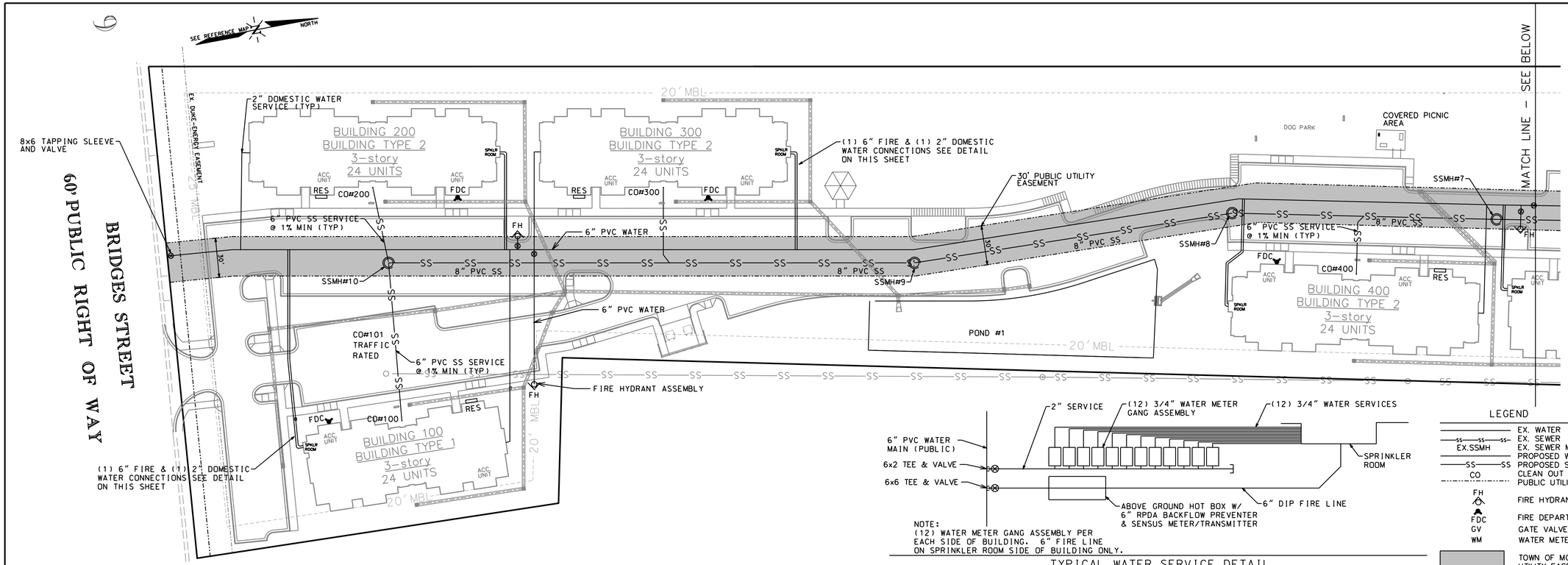
4	PER NCDPS

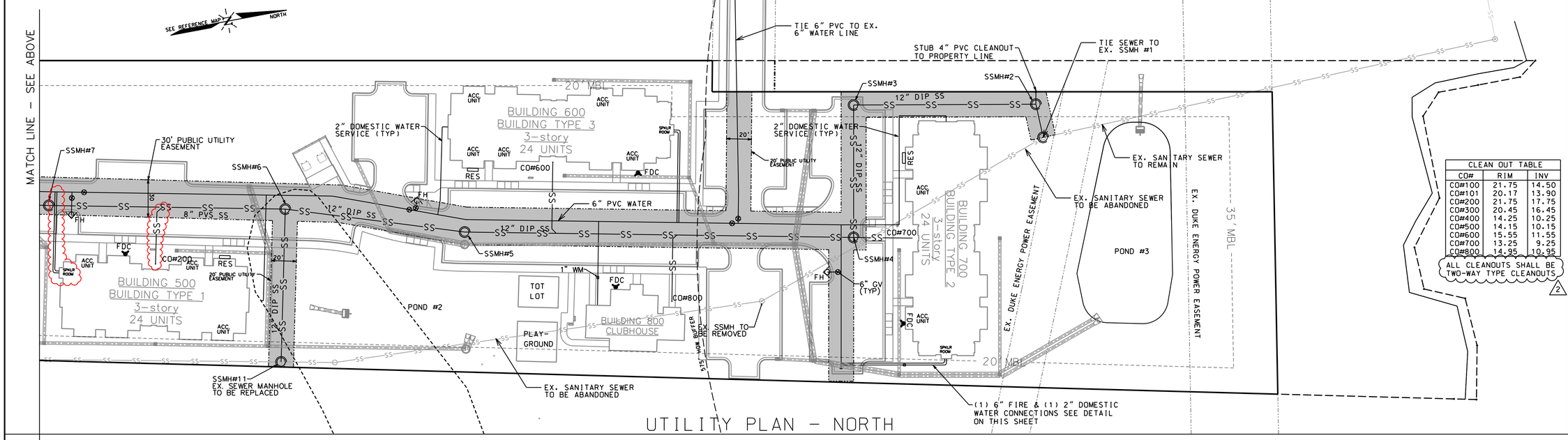
SITE PLAN

C3.0



TYPICAL WATER SERVICE DETAIL

UTILITY PLAN - SOUTH



CLEAN OUT TABLE		
CO#	RIM	INV
CO#100	21.75	14.50
CO#101	20.17	13.90
CO#200	21.75	17.75
CO#300	20.45	16.45
CO#400	14.25	10.25
CO#500	14.15	10.15
CO#600	15.55	11.55
CO#700	13.25	9.25
CO#800	14.95	10.95

ALL CLEANOUTS SHALL BE TWO-WAY TYPE CLEANOUTS

UTILITY PLAN - NORTH

40 20 0 40 80
SCALE: 1" = 40'

UTILITY NOTES:
1. EACH APARTMENT BUILDING SHALL HAVE (12) 3/4" METERS AND DOMESTIC SERVICE LINES ON BOTH SIDES OF BUILDING SERVING THE (12) NEAREST UNITS AND (1) 6" FIRE LINE CONNECTING INTO THE SPRINKLER ROOM AS INDICATED ON THIS PLAN.
2. 1" IRRIGATION LINES SHALL CONNECT TO SEPARATE 1" METER AT CLUBHOUSE. SEE LANDSCAPE PLANS FOR IRRIGATION INFORMATION

Elijah's Landing
3140 & 3200 Bridges St.
Morehead City, Caretteret
County, NC 28557
FHA Project #:053-36291

Elijah's Landing

THE CULLIPHER GROUP, P.A.
ENGINEERING & SURVEYING SERVICES
C-4482
151-A NC HIGHWAY 24
MOREHEAD CITY, N.C. 28557
(252) 773-0090

NORTH CAROLINA PROFESSIONAL SEAL 037378 ENGINEER CHARLES M. CULLIPHER 9/28/22

100% CONSTRUCTION DRAWINGS

date	9/28/22
drafter	CMC
checked by	CMC
proj. no.	PM858-29
revisions	
1	PER NCFHA
2	PER TOWN
3	PER TITLE/LENDER
4	PER NCDPS

UTILITY PLAN

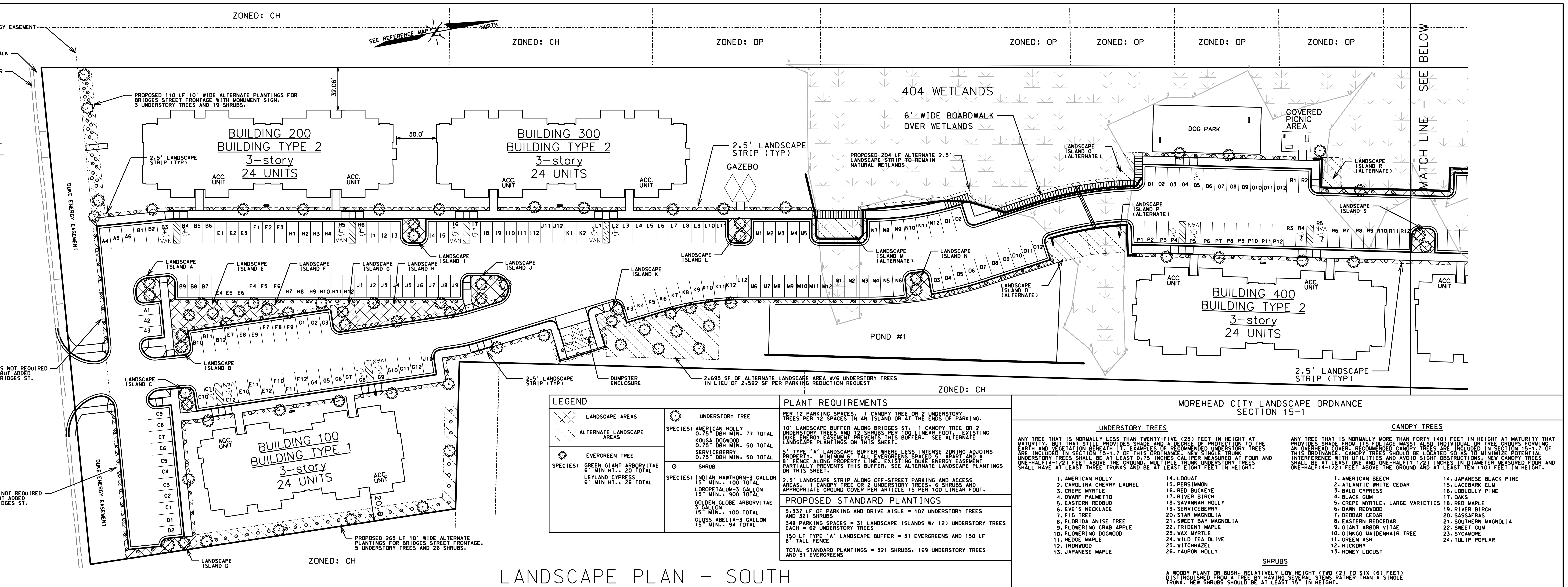
C6.0

LANDSCAPE ISLAND TABLE

ISLAND #	AREA (SF)	NO. OF SPACES
A	290	5
B	223	12
C	204	12
D	258	2
E	517	12
F	669	12
G	361	12
H	896	12
I	295	12
J	546	12
K	438	12
L	285	12
M	489	12
N	307	12
O	565	12
P	671	12
Q	518	12
R	431	12
S	295	12
T	379	12
U	374	12
V	201	12
W	378	9
X	229	9
Y	245	10
Z	420	10
AA	388	8
BB	317	8
CC	278	7
DD	261	7
EE	264	12
FF	429	12
GG	256	8
ADD'L #1	187	0
ADD'L #2	361	0
ADD'L #3	192	0
ADD'L #4	381	0
ADD'L #5	330	0

TOTAL SPACES = 348

THIS ADDITIONAL PLANTING IS NOT REQUIRED PER TOWN OF MOREHEAD CITY BUT ADDED FOR BEAUTIFICATION ALONG BRIDGES ST.



LEGEND

LANDSCAPE AREAS	UNDERSTORY TREE SPECIES: AMERICAN HOLLY 0.75" DBH MIN. 77 TOTAL KOUSA DOGWOOD 0.75" DBH MIN. 50 TOTAL SERVICEBERRY 0.75" DBH MIN. 50 TOTAL
ALTERNATE LANDSCAPE AREAS	
EVERGREEN TREE SPECIES: GREEN GIANT ARBORVITAE 6' MIN HT., 20 TOTAL LEYLAND CYPRESS 6' MIN HT., 26 TOTAL	SHRUB SPECIES: INDIAN HAWTHORN-3 GALLON 15" MIN., 100 TOTAL LOROPETALUM-3 GALLON 15" MIN., 900 TOTAL GOLDEN GLOBE ARBORVITAE 3 GALLON 15" MIN., 100 TOTAL GLOSS ABELIA-3 GALLON 15" MIN., 94 TOTAL

PLANT REQUIREMENTS

PER 12 PARKING SPACES. 1 CANOPY TREE OR 2 UNDERSTORY TREES PER 12 SPACES IN AN ISLAND OR AT THE ENDS OF PARKING.

10' LANDSCAPE BUFFER ALONG BRIDGES ST. 1 CANOPY TREE OR 2 UNDERSTORY TREES AND 12 SHRUBS PER 100 LINEAR FOOT. EXISTING DUKE ENERGY EASEMENT PREVENTS THIS BUFFER. SEE ALTERNATE LANDSCAPE PLANTINGS ON THIS SHEET.

5' TYPE 'A' LANDSCAPE BUFFER WHERE LESS INTENSE ZONING ADJOINS PROPERTY. MINIMUM 6' TALL EVERGREENS SPACED 5' APART AND A 8' FENCE ALONG PROPERTY LINE. EXISTING DUKE ENERGY EASEMENT PARTIALLY PREVENTS THIS BUFFER. SEE ALTERNATE LANDSCAPE PLANTINGS ON THIS SHEET.

2.5' LANDSCAPE STRIP ALONG OFF-STREET PARKING AND ACCESS AREAS. 1 CANOPY TREE OR 2 UNDERSTORY TREES, 6 SHRUBS AND APPROPRIATE GROUND COVER PER ARTICLE 15 PER 100 LINEAR FOOT.

PROPOSED STANDARD PLANTINGS

5.337 LF OF PARKING AND DRIVE AISLE = 107 UNDERSTORY TREES AND 321 SHRUBS

348 PARKING SPACES = 31 LANDSCAPE ISLANDS W/ (2) UNDERSTORY TREES EACH = 62 UNDERSTORY TREES

150 LF TYPE 'A' LANDSCAPE BUFFER = 31 EVERGREENS AND 150 LF 8' TALL FENCE

TOTAL STANDARD PLANTINGS = 321 SHRUBS, 169 UNDERSTORY TREES AND 31 EVERGREENS

MOREHEAD CITY LANDSCAPE ORDNANCE SECTION 15-1

UNDERSTORY TREES

ANY TREE THAT IS NORMALLY LESS THAN TWENTY-FIVE (25) FEET IN HEIGHT AT MATURITY, BUT THAT STILL PROVIDES SHADE AND A DEGREE OF PROTECTION TO THE EARTH AND VEGETATION BENEATH IT. EXAMPLES OF RECOMMENDED UNDERSTORY TREES ARE INCLUDED IN SECTION 15-1.7 OF THIS ORDINANCE. NEW SINGLE TRUNK UNDERSTORY TREES SHALL BE AT LEAST 0.75 INCHES CALIPER MEASURED AT FOUR AND ONE-HALF(4-1/2) FEET ABOVE THE GROUND. MULTIPLE TRUNK UNDERSTORY TREES SHALL HAVE AT LEAST THREE TRUNKS AND BE AT LEAST EIGHT FEET IN HEIGHT.

1. AMERICAN HOLLY
2. CAROLINA CHERRY LAUREL
3. CREPE MYRTLE
4. DWARF PALMETTO
5. EASTERN REDBUD
6. EVE'S NECKLACE
7. FIG TREE
8. FLORIDA ANISE TREE
9. FLOWERING CRAB APPLE
10. FLOWERING DOGWOOD
11. HEDGE MAPLE
12. IRONWOOD
13. JAPANESE MAPLE
14. LOQUAT
15. PERSIMMON
16. RED BUCKEYE
17. RIVER BIRCH
18. SAVANNAH HOLLY
19. SERVICEBERRY
20. STAR MAGNOLIA
21. SWEET BAY MAGNOLIA
22. TRIDENT MAPLE
23. WAX MYRTLE
24. WILD TEA OLIVE
25. WITCHHAZEL
26. YAUPON HOLLY

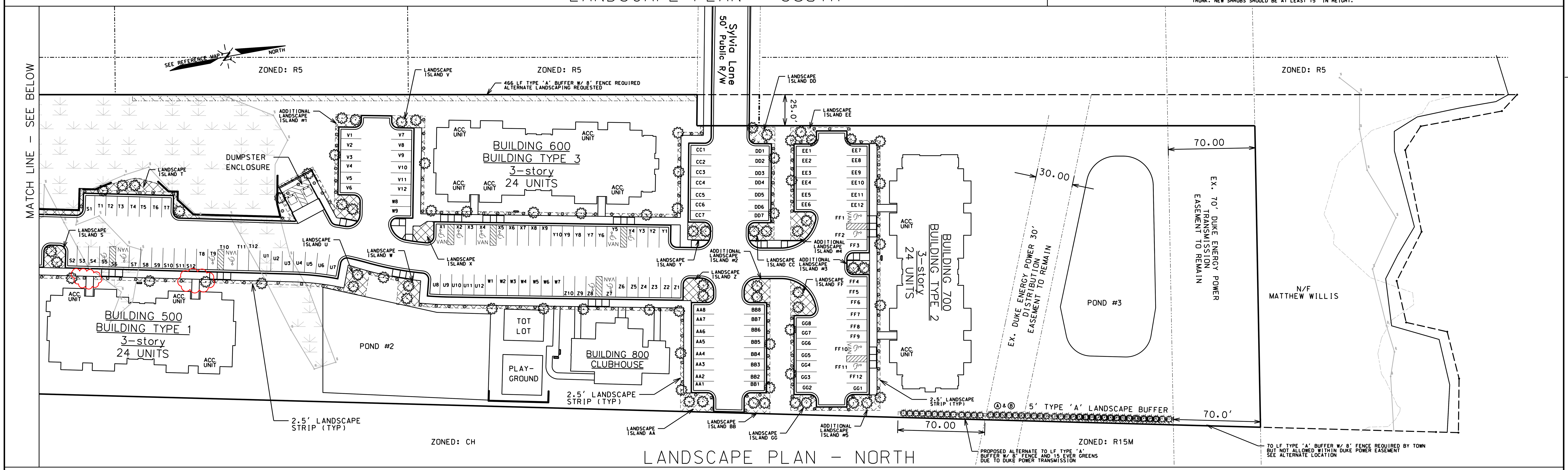
CANOPY TREES

ANY TREE THAT IS NORMALLY MORE THAN FORTY (40) FEET IN HEIGHT AT MATURITY THAT PROVIDES SHADE FROM ITS FOLIAGE MASS; ALSO INDIVIDUAL OR TREE GROUPS FORMING AN OVERHEAD COVER. RECOMMENDED CANOPY TREES ARE INCLUDED IN SECTION 15-1.7 OF THIS ORDINANCE. CANOPY TREES SHOULD BE LOCATED SO AS TO MINIMIZE POTENTIAL INTERFERENCE WITH UTILITIES AND AVOID SIGHT OBSTRUCTIONS. NEW CANOPY TREES SHALL BE AT LEAST ONE AND ONE-HALF(1 1/2) INCHES IN DIAMETER MEASURED FOUR AND ONE-HALF(4-1/2) FEET ABOVE THE GROUND AND AT LEAST TEN (10) FEET IN HEIGHT.

1. AMERICAN BEECH
2. ATLANTIC WHITE CEDAR
3. BALD CYPRESS
4. BLACK GUM
5. CREPE MYRTLE, LARGE VARIETIES
6. DAWN REDWOOD
7. DEODAR CEDAR
8. EASTERN REDCEDAR
9. GIANT ARBOR VITAE
10. GINKGO MAIDENHAIR TREE
11. GREEN ASH
12. HICKORY
13. HONEY LOCUST
14. JAPANESE BLACK PINE
15. LACEBARK ELM
16. LOBLOLLY PINE
17. OAKS
18. RED MAPLE
19. RIVER BIRCH
20. SASSAFRAS
21. SOUTHERN MAGNOLIA
22. SWEET GUM
23. SYCAMORE
24. TULIP POPLAR

SHRUBS

A WOODY PLANT OR BUSH, RELATIVELY LOW HEIGHT (TWO (2) TO SIX (6) FEET) DISTINGUISHED FROM A TREE BY HAVING SEVERAL STEMS RATHER THAN A SINGLE TRUNK. NEW SHRUBS SHOULD BE AT LEAST 15" IN HEIGHT.



PROPOSED ALTERNATE PLANTINGS

ALTERNATE LANDSCAPE REQUEST #1
DUKE ENERGY PROGRESS HAS A TRANSMISSION POWER EASEMENT ALONG BRIDGES STREET AND DOES NOT ALLOW LANDSCAPING WITHIN THIS EASMENT. LANDSCAPING REQUIRED ALONG THE 375 LF OF FRONTAGE BY THE TOWN IS PROPOSED IN THE FOLLOWING ALTERNATE LOCATIONS:
1. 110 LF OF 10' LANDSCAPE BUFFER SOUTH OF BUILDING 200
2. 265 LF OF 10' LANDSCAPE BUFFER EAST AND NORTH OF BUILDING 100

ALTERNATE LANDSCAPE REQUEST #2
PARKING REDUCTION REQUEST REQUIRES REPLACEMENT OF PAVED SURFACES WITH EQUAL AREA OF LANDSCAPED AREA. PARKING REDUCTION REQUEST FOR 16 SPACES TOTALS 2.592 SF. ALTERANT LANDSCAPE AREA OF 2.695 SF REQUESTED SOUTH OF POND #1

ALTERNATE LANDSCAPE REQUEST #3
WETLAND AREAS ON SITE ARE WELL ESTABLISHED WITH VEGETATION AND HEAVILY WOODED. THE SITE DESIGN SIGNIFICANTLY AVOIDS IMPACTING THESE WETLAND AREAS. PROPOSED ALTERNATE LANDSCAPING UTILIZES THESE WETLANDS AS LANDSCAPE ISLANDS AND THE REQUIRED 2.5' LANDSCAPE STRIP AROUND PARKING AS SHOWN ON THIS PLAN. LANDSCAPE ISLANDS M, O, P, Q AND R ARE PROPOSED TO REMAIN NATURAL AND ARE REQUESTED TO BE USED AS MEETING TOWN LANDSCAPE ORDINANCE.

ALTERNATE LANDSCAPE REQUEST #4
DUKE ENERGY PROGRESS HAS A 70' WIDE TRANSMISSION EASEMENT ALONG THE NORTH END OF THIS PROPERTY AND DOES NOT ALLOW LANDSCAPING WITHIN THIS EASEMENT. TOWN REQUIRES A 5' TYPE 'A' BUFFER W/ 8' FENCE IN THIS LOCATION. PROPOSED ALTERNATE IS A 70 LF TYPE 'A' BUFFER W 8' FENCE ON THE EAST SIDE OF BUILDING 700.

ALTERNATE LANDSCAPE REQUEST #5
APPROXIMATELY 466 LF OF ADJOINING PROPERTY BOUNDARY SOUTH OF SILVIA LANE IS CURRENTLY ZONED AS R5. TOWN ORDINANCE REQUIRES A 5' TYPE "A" BUFFER. THIS PLAN REQUESTS A WAIVER FOR THIS REQUIREMENT DUE TO THE FOLLOWING:
1. THE ADJOINING PROPERTY'S EXISTING USE IS TWO MULTIFAMILY BUILDINGS. THE INTENT OF THIS REQUIREMENT IS TO BUFFER LESS INTENSE USES FROM MORE INTENSE USES. WITH BOTH USES BEING MULTIFAMILY, THE INTENSITIES ARE THE SAME.
2. THE ADJOINING PROPERTY IS APPROXIMATELY 6'-8' HIGHER IN ELEVATION AND UTILIZES A RETAINING WALL ALONG THIS SHARED PROPERTY LINE. A BUFFER IN THIS LOCATION DOES NOT CREATE A SIGNIFICANT VISUAL SEPARATION.
3. THIS AREA IS A PRIMARY DRAINAGE OUTLET FOR THE PROPERTIES ON THE EAST SIDE OF COMMERCE DRIVE AND IS PARTIALLY WETLANDS. LIMITING THE GRADING AND LANDSCAPING IN THIS AREA ALLOWS FOR THE NATURAL VEGETATION TO REMAIN IN LIEU OF THE PROPOSED BUFFER.

40 20 0 40 80
SCALE: 1" = 40'

Elijah's Landing
3140 & 3200 Bridges St.
Morehead City, Careteret County, NC 28557
FHA Project #:053-36291

Elijah's Landing
Landscape Plan

THE CULLIPHER GROUP, P.A.
ENGINEERING & SURVEYING SERVICES
C-4460
151-A NC HIGHWAY 24
MOREHEAD CITY, N.C. 28557
(252) 773-0090

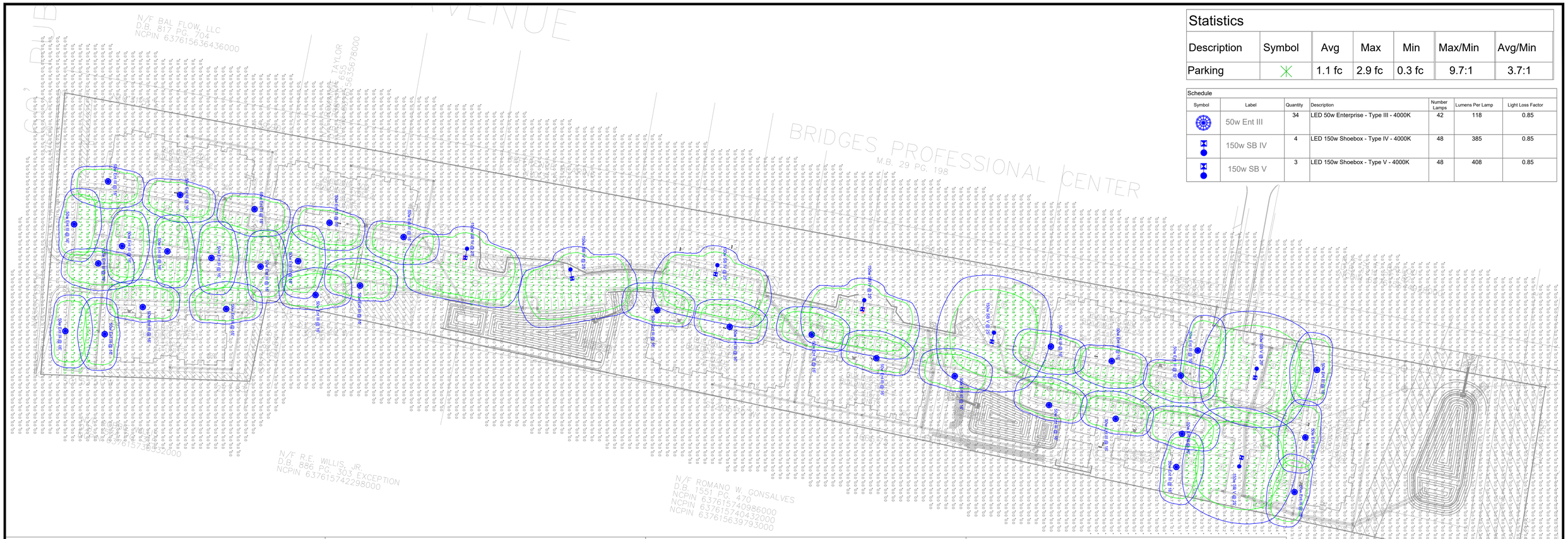
PROFESSIONAL ENGINEER SEAL 037378 CHARLES M. CULLIPHER 9/28/22

100% CONSTRUCTION DRAWINGS

date	9/28/22
drafter	CMC
checked by	CMC
proj. no.	PM858-29
revisions	
1	PER NCFHA
2	PER TOWN
3	PER TITLE/LENDER
4	PER NCDPS

Landscape Plan

C7.0



Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking		1.1 fc	2.9 fc	0.3 fc	9.7:1	3.7:1

Schedule

Symbol	Label	Quantity	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor
	50w Ent III	34	LED 50w Enterprise - Type III - 4000K	42	118	0.85
	150w SB IV	4	LED 150w Shoebox - Type IV - 4000K	48	385	0.85
	150w SB V	3	LED 150w Shoebox - Type V - 4000K	48	408	0.85

DUKE ENERGY. PROGRESS

Outdoor Lighting

Enterprise LED

Illuminate streetscapes and pedestrian areas with the Enterprise LED. This sleek, energy-efficient fixture will add modern appeal to any neighborhood or park.

LED *(Light Emitting Diode)*	50 watts
Mounting heights	12′, 13′, 16′
Color	Black
Poles	Smooth round concrete Fluted concrete Fiberglass Decorative aluminum

For additional information, visit us at duke-energy.com/OutdoorLighting or call us toll free at **866.769.6417**.

DUKE ENERGY. PROGRESS

Outdoor Lighting

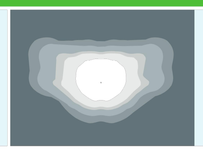
Enterprise LED

Light source: LED *(white)*
Wattage: 50
Lumens: 4,921

BUG Rating: B1-U0-G2

Light pattern: IESNA Type III *(oval)*

Color temperature: 4,000K



light distribution pattern

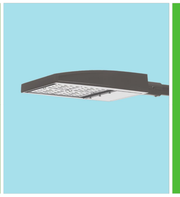
Poles available:

Name	*Mounting height*	*Color*
Smooth concrete	12′, 16′	Black
Fluted concrete	13′	Black
Fiberglass	16′	Black
Decorative aluminum	12′, 16′	Black

Features	Benefits
No installation cost	Frees up capital for other projects
Design services by lighting professionals included	Meets industry standards and lighting ordinances
Maintenance included	Eliminates high and unexpected repair bills
Electricity included	Less expensive than metered service
Warranty included	Worry-free
One low monthly cost on your electric bill	Convenience and savings for you
Turnkey operation	Provides hassle-free installation and service
Backed by over 40 years of experience	A name you can trust today … and tomorrow

Outdoor Lighting

Shoebox LED



The energy-efficient Shoebox LED combines a decorative, contemporary style with versatility and ample lighting effect that is perfect for streets, parking lots, commercial buildings and residential communities. The Shoebox LED provides excellent color rendition along with a controlled light pattern that reduces glare and keeps the light directed only where you want it. Available in black, dark bronze, gray or white with one to four fixtures per pole.

LED *(Light Emitting Diode)*	150, 220, 420, 530 watts
Mounting heights	25′, 30′, 35′
Colors	Black Bronze Gray White
Poles	Fiberglass *(1 or 2 fixtures per pole)* Decorative tapered metal Decorative square metal

Note: 35′ pole available in black or bronze only.

For additional information, visit us at **duke-energy.com/OutdoorLighting** or call us toll free at **866.769.6417**.

DUKE ENERGY. PROGRESS

BUILDING A SMARTER ENERGY FUTURE®

Outdoor Lighting

Shoebox LED

Light source: LED *(white)*

Replacement for:* LED Wattage 150 – 250-watt HPS and metal halide;
LED Wattage 205 – up to 400-watt metal halide;
LED Wattage 530 – 1,000-watt metal halide

Warm-up and restrike time: Instant on *(no warm-up or restrike time)*

Wattage	BUG Rating	Light Pattern	Lumens	Color Temp
LED 150	B5-U0-G3	IESNA Type V *(circular)*	19580	4,000K
LED 150	B3-U0-G4	IESNA Type IV *(forward throw)*	18459	
LED 150	B2-U0-G3	IESNA Type III *(oval)*	19006	
LED 220	B5-U0-G3	IESNA Type V *(circular)*	25870	
LED 220	B3-U0-G4	IESNA Type IV *(forward throw)*	24390	
LED 220	B2-U0-G4	IESNA Type III *(oval)*	25114	
LED 420	B5-U0-G5	IESNA Type V *(circular)*	48514	
LED 420	B3-U0-G5	IESNA Type IV *(forward throw)*	43765	
LED 530	B5-U0-G5	IESNA Type V *(circular)*	60296	
LED 530	B3-U0-G5	IESNA Type IV *(forward throw)*	54395	

light distribution pattern

** These are approximate replacement suggestions; actual conditions could be different.*

Poles available:

Name	*Mounting height*	*Color*
Round tapered decorative metal*	35′	Black Bronze
Decorative square metal*	25′ and 30′	Black Gray Bronze White
Fiberglass	30′	Black *(1 or 2 fixtures per pole)* Gray *(1 or 2 fixtures per pole)*

Features	Benefits
Little or no installation cost	Frees up capital for other projects
Design services by lighting professionals included	Meets industry standards and lighting ordinances
Maintenance included	Eliminates high and unexpected repair bills
Electricity included	Less expensive than metered service
Warranty included	Worry-free
One low monthly cost on your electric bill	Convenience and savings for you
Turnkey operation	Provides hassle-free installation and service
Backed by over 40 years of experience	A name you can trust today … and tomorrow

**2′ raised foundation available when required on metal poles only.*

LIGHTING DESIGN TOLERANCE

The calculated footcandle light levels in this lighting design are predicted values and are based on specific information that has been supplied to Duke Energy Progress. Any inaccuracies in the supplied information, differences in luminaire installation, lighted area geometry including elevation differences, reflective properties of surrounding surfaces, obstructions (foliage or otherwise) in the lighted area, or lighting from sources other than listed in this design may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will also affect results.

Customer approval_____ Date_____

DISTANCE CALIBRATION (INCHES)

0 0.5 1.0 2.0 3.0 4.0

DUKE ENERGY® PROGRESS

PROPRIETARY & CONFIDENTIAL

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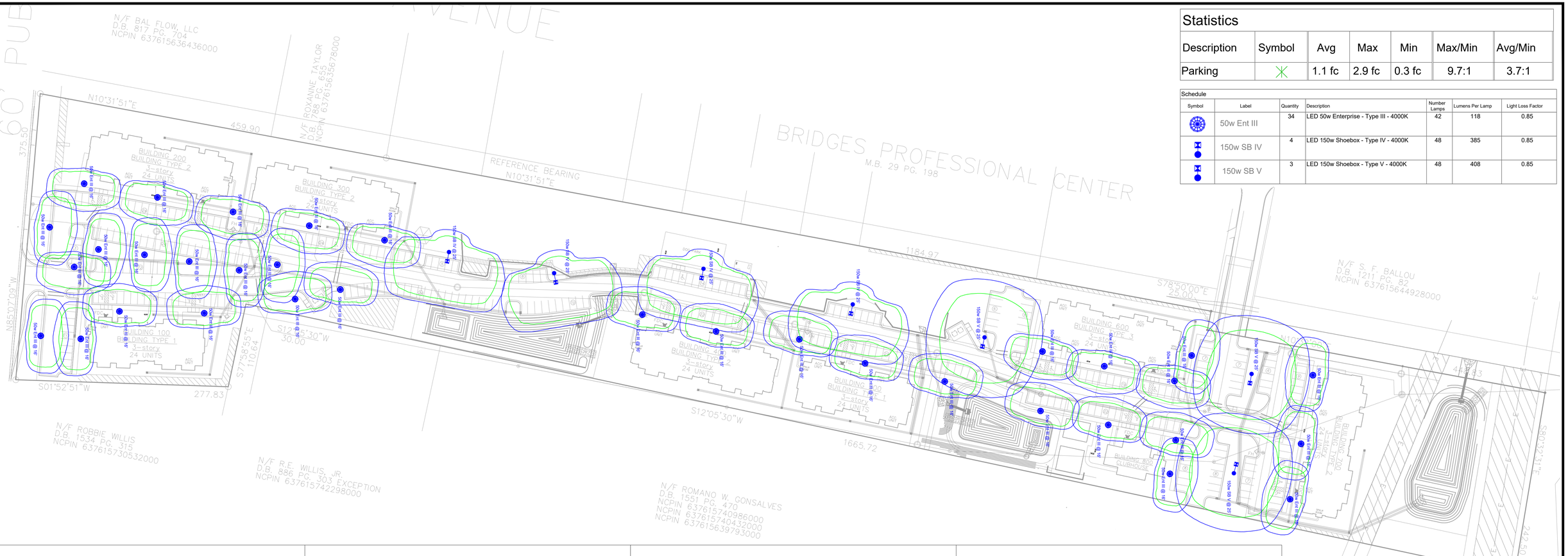
ELIJAH'S LANDING
Morehead City, NC
SITE LIGHTING PLAN

Designed by DEP LIGHTING SOLUTIONS
Reviewed by N. Johnson Scale 1" = 50'
Date 03/23/2021 Size "Arch D"
Description LED 50w Enterprise
Drawing No. 20-0417B Sht. 1 OF 2



Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
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Schedule

Symbol	Label	Quantity	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor
	50w Ent III	34	LED 50w Enterprise - Type III - 4000K	42	118	0.85
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DUKE ENERGY. PROGRESS

Outdoor Lighting

Enterprise LED

Illuminate streetscapes and pedestrian areas with the Enterprise LED. This sleek, energy-efficient fixture will add modern appeal to any neighborhood or park.

LED *(Light Emitting Diode)*	50 watts
Mounting heights	12', 13', 16'
Color	Black
Poles	Smooth round concrete Fluted concrete Fiberglass Decorative aluminum

For additional information, visit us at duke-energy.com/OutdoorLighting or call us toll free at **866.769.6417**.

DUKE ENERGY. PROGRESS

Outdoor Lighting

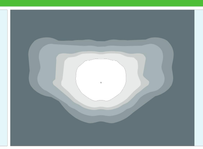
Enterprise LED

Light source: LED *(white)*
Wattage: 50
Lumens: 4,921

BUG Rating: B1-U0-G2

Light pattern: IESNA Type III *(oval)*

Color temperature: 4,000K



light distribution pattern

Poles available:

Name	*Mounting height*	*Color*
Smooth concrete	12', 16'	Black
Fluted concrete	13'	Black
Fiberglass	16'	Black
Decorative aluminum	12', 16'	Black

Features	Benefits
No installation cost	Frees up capital for other projects
Design services by lighting professionals included	Meets industry standards and lighting ordinances
Maintenance included	Eliminates high and unexpected repair bills
Electricity included	Less expensive than metered service
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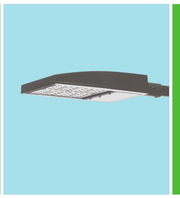
Outdoor Lighting

Shoebox LED



The energy-efficient Shoebox LED combines a decorative, contemporary style with versatility and ample lighting effect that is perfect for streets, parking lots, commercial buildings and residential communities. The Shoebox LED provides excellent color rendition along with a controlled light pattern that reduces glare and keeps the light directed only where you want it. Available in black, dark bronze, gray or white with one to four fixtures per pole.

LED *(Light Emitting Diode)*	150, 220, 420, 530 watts
Mounting heights	25', 30', 35'
Colors	Black Bronze Gray White
Poles	Fiberglass *(1 or 2 fixtures per pole)* Decorative tapered metal Decorative square metal

Note: 35' pole available in black or bronze only.

For additional information, visit us at **duke-energy.com/OutdoorLighting** or call us toll free at **866.769.6417**.

DUKE ENERGY. PROGRESS

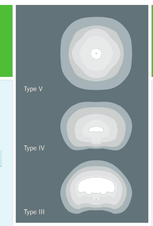
BUILDING A SMARTER ENERGY FUTURE®

Outdoor Lighting

Shoebox LED

Light source: LED *(white)*
Replacement for:* LED Wattage 150 – 250-watt HPS and metal halide;
LED Wattage 205 – up to 400-watt metal halide;
LED Wattage 530 – 1,000-watt metal halide
Warm-up and restrike time: Instant *(no warm-up or restrike time)*

Wattage	BUG Rating	Light Pattern	Lumens	Color Temp
LED 150	B5-U0-G3	IESNA Type V *(circular)*	19580	4,000K
LED 150	B3-U0-G4	IESNA Type IV *(forward throw)*	18459	
LED 150	B2-U0-G3	IESNA Type III *(oval)*	19006	
LED 220	B5-U0-G3	IESNA Type V *(circular)*	25870	
LED 220	B3-U0-G4	IESNA Type IV *(forward throw)*	24390	
LED 220	B2-U0-G4	IESNA Type III *(oval)*	25114	
LED 420	B5-U0-G5	IESNA Type V *(circular)*	48514	
LED 420	B3-U0-G5	IESNA Type IV *(forward throw)*	43765	
LED 530	B5-U0-G5	IESNA Type V *(circular)*	60296	
LED 530	B3-U0-G5	IESNA Type IV *(forward throw)*	54395	



light distribution pattern

** These are approximate replacement suggestions; actual conditions could be different.*

Poles available:

Name	*Mounting height*	*Color*
Round tapered decorative metal*	35'	Black Bronze
Decorative square metal*	25' and 30'	Black Gray Bronze White
Fiberglass	30'	Black *(1 or 2 fixtures per pole)* Gray *(1 or 2 fixtures per pole)*

Features	Benefits
Little or no installation cost	Frees up capital for other projects
Design services by lighting professionals included	Meets industry standards and lighting ordinances
Maintenance included	Eliminates high and unexpected repair bills
Electricity included	Less expensive than metered service
Warranty included	Worry-free
One low monthly cost on your electric bill	Convenience and savings for you
Turnkey operation	Provides hassle-free installation and service
Backed by over 40 years of experience	A name you can trust today … and tomorrow

**2' raised foundation available when required on metal poles only.*

LIGHTING DESIGN TOLERANCE

The calculated footcandle light levels in this lighting design are predicted values and are based on specific information that has been supplied to Duke Energy Progress. Any inaccuracies in the supplied information, differences in luminaire installation, lighted area geometry including elevation differences, reflective properties of surrounding surfaces, obstructions (foliage or otherwise) in the lighted area, or lighting from sources other than listed in this design may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will also affect results.

Customer approval_____ Date_____

DISTANCE CALIBRATION (INCHES)

0 0.5 1.0 2.0 3.0 4.0

DUKE ENERGY® PROGRESS

PROPRIETARY & CONFIDENTIAL

ELIJAH'S LANDING
Morehead City, NC
SITE LIGHTING PLAN

Designed by DEP LIGHTING SOLUTIONS
Reviewed by N. Johnson Scale 1" = 50'
Date 03/23/2021 Size "Arch D"
Description LED 50w Enterprise
Drawing No. 20-0417B Sht. 2 OF 2

LEGEND

EIR	EXISTING IRON ROD
EIP	EXISTING IRON PIPE
EPK	EXISTING PK NAIL
ECM	EXISTING CONC. MON.
ERRS	EXISTING R/R SPIKE
EX.	EXISTING
EOP	EDGE OF PAVEMENT
SIR	SET IRON ROD
CP	CALCULATED POINT
MHW	MEAN HIGH WATER
N/F	NOW OR FORMERLY
MB	MAP BOOK
DB	DEED BOOK
PG	PAGE
PP	POWER POLE
LP	LIGHT POLE
OE	OVERHEAD ELECTRIC
ELEC	ELECTRICAL PEDESTAL
TRANS	ELEC. TRANSFORMER
TEL	TELEPHONE PEDESTAL
TV	CABLE TV PEDESTAL
WM	WATER METER
CO	CLEAN OUT
SWMH	SINGLE WIDE MOBILE HOME
SD	SHED
DS	DANCE STUDIO
SSMH	SANITARY SEWER MANHOLE
(#)	EXCEPTION ITEMS IDENTIFICATION NUMBER

FENCE
EASEMENT
EXISTING IMPROVEMENTS
UNDERGROUND SEWER
ADJACENT PROPERTY BOUNDARY
FLOOD ZONE
DITCH CENTERLINE
WETLAND
(25) ADJOINING PROPERTY LOT NUMBER

RECORD LEGAL DESCRIPTION

BEGINNING AT A SET IRON ROD IN THE NORTHERN RIGHT OF WAY OF BRIDGES STREET. SAID POINT ALSO BEING LOCATED S77°15'43"E 179.39 FEET AND S85°07'09"E 375.50 FEET FROM AN EXISTING IRON ROD LOCATED IN THE EASTERN RIGHT OF WAY OF COMMERCE AVENUE. THENCE FROM SAID BEGINNING POINT AND ALONG BRIDGES STREET RIGHT OF WAY N85°07'09"W 375.50 FEET TO AN EXISTING IRON ROD. THENCE LEAVING SAID RIGHT OF WAY N10°31'51"E 459.90 FEET TO AN EXISTING IRON LOCATED AT THE NORTHEAST CORNER OF THAT PROPERTY OWNED BY ROXANNE TAYLOR AS RECORDED IN DEED BOOK 788 PAGE 655 OF THE CARTERET COUNTY REGISTRY. THENCE FROM SAID POINT AND CONTINUING ON THE SAME LINE N10°31'51"E 1096.61 FEET TO AN EXISTING IRON ROD. SAID LINE BEING THE EASTERN LINE OF BRIDGES PROFESSIONAL CENTER AS RECORDED IN MAP BOOK 29 PAGE 198. SAID POINT ALSO BEING NEAR THE SOUTHERN RIGHT OF WAY OF SYLVIA LANE. THENCE LEAVING SAID EASTERN LINE AND AN EXTENSION OF THE SOUTHERN LINE OF SYLVIA LANE S78°50'00"E 25.00 FEET TO AN EXISTING IRON ROD. THENCE N10°32'00"E 448.83 FEET TO AN EXISTING IRON ROD NEAR THE NORTHERN RIGHT OF WAY OF A 70 FOOT DUKE ENERGY UTILITY EASEMENT. THENCE WITH SAID NORTH LINE S80°32'31"E 242.50 FEET TO AN EXISTING IRON ROD. THENCE LEAVING SAID NORTHERN LINE S12°05'30"W 1665.72 FEET TO A SET IRON ROD. THENCE S12°05'30"W 30.00 FEET TO A SET IRON ROD. THENCE S77°58'54"E 110.64 FEET TO A SET IRON ROD. THENCE S01°52'51"W 277.83 FEET TO THE POINT AND PLACE OF BEGINNING. BEING ALL OF TRACT 1. MAP BOOK 33. PAGE 993. AND CONTAINING 11.64 ACRES.

ENCROACHMENT/SIGNIFICANT OBSERVATION

THE FOLLOWING ITEMS CONSTITUE ENCROACHMENTS:
1. THE ASPHALT DRIVE THAT LIES ACROSS THE EASTERN BOUNDARY.
2. THE MOBILE HOME THAT LIES ACROSS BOUNDARY LINE RUNNING 110.64' S77°58'55"E AND IS ENLARGED WITHIN DETAIL "A" OF THIS MAP.
3. THE BRICK WALKWAY, ASPHALT DRIVE AND FENCE THAT LIES ACROSS BOUNDARY LINE RUNNING 277.83' S01°52'51"W AND IS ENLARGED WITHIN DETAIL "A" OF THIS MAP.
4. THE CHAIN LINK FENCE AROUND THE WOOD FRAME BUILDING NEAR THE SYLVIA LANE RIGHT-OF-WAY.

REFERENCE MAP

SEE SURVEY FOR WILLIS MOBILE HOME PARK #1 FOR LOIS MATTHEWS C/O HARVELL AND COLLINS, P.A. BY PRESTIGE LAND SURVEYING, P.A. DATED JUNE 29, 2016.

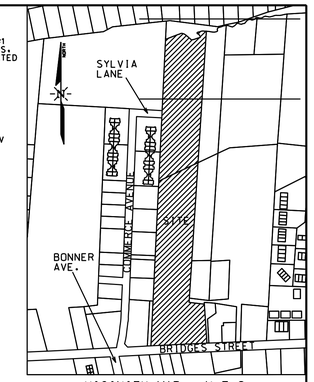
TO: ELIJAH'S LANDING OF MOREHEAD CITY, LLC, CHURCHILL MORTAGE INVESTMENT LLC, A FLORIDA LIMITED LIABILITY COMPANY, CHURCHILL MORTGAGE CONSTRUCTION, LLC, DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT(HUD), CHICAGO TITLE INSURANCE COMPANY AND, COMMUNITY EQUITY FUND XXV LIMITED PARTNERSHIP:

DATE OF PLAT OR MAP: 10/8/2021 AND LAST REVISED: 12/1/21

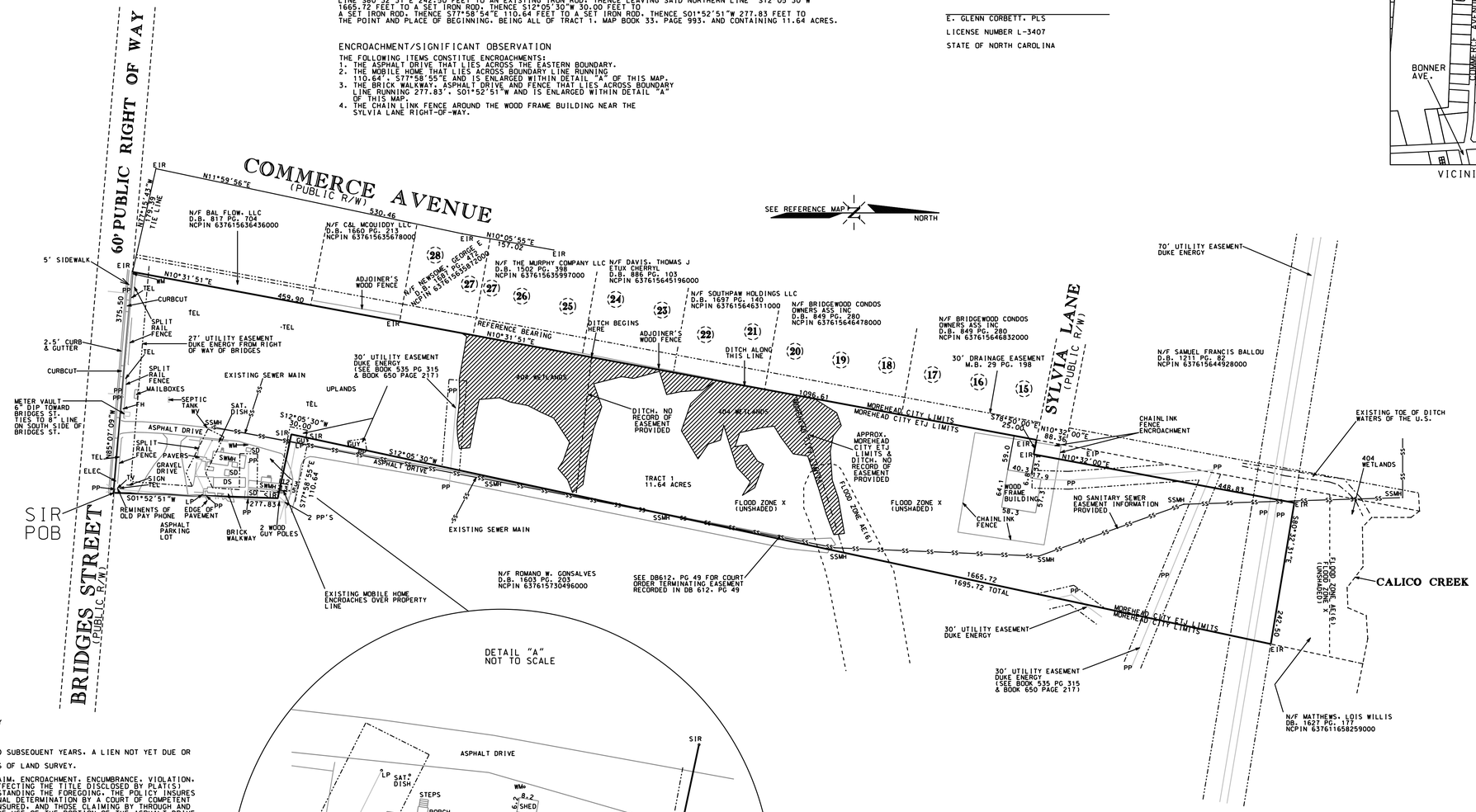
E. GLENN CORBETT, PLS

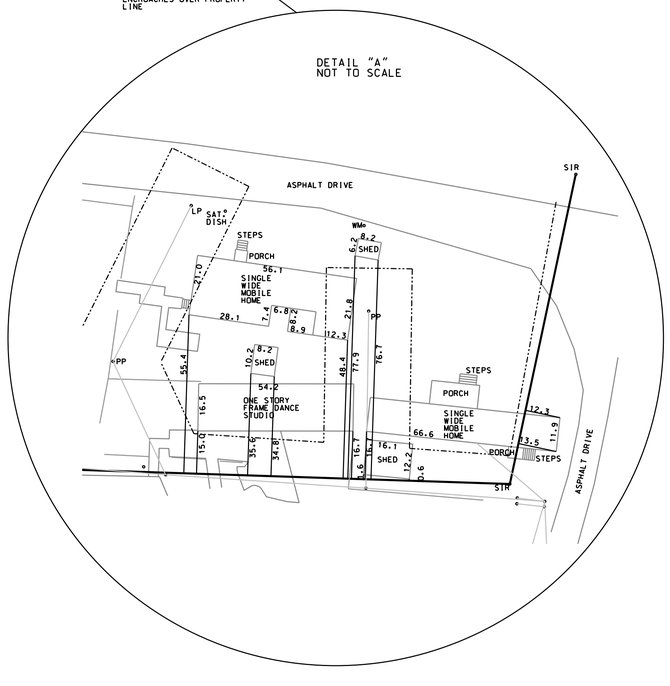
LICENSE NUMBER L-3407

STATE OF NORTH CAROLINA



VICINITY MAP N.T.S.





SURVEYOR'S COMMENTS - SCHEDULE B, PART II
RELATIVE TO CHICAGO TITLE INSURANCE COMPANY
COMMITMENT NUMBER: 21-20231NB
COMMITMENT DATE: 9/16/21: REVISED 11/23/21

1. TAXES OR ASSESSMENTS FOR THE YEAR 2022, AND SUBSEQUENT YEARS. A LIEN NOT YET DUE OR PAYABLE.
SURVEYOR'S COMMENTS: NOT RELATED TO MATTERS OF LAND SURVEY.

2. ANY RIGHT, EASEMENT, SETBACK, INTEREST, CLAIM, ENCROACHMENT, ENCUMBRANCE, VIOLATION, VARIATIONS OR OTHER ADVERSE CIRCUMSTANCE AFFECTING THE TITLE DISCLOSED BY PLAT(S) RECORDED IN MAP BOOK 33, PAGE 993, NOTWITHSTANDING THE FOREGOING, THE POLICY INSURES AGAINST LOSS OR DAMAGE RESULTING FROM A FINAL DETERMINATION BY A COURT OF COMPETENT JURISDICTION THAT PARTIES OTHER THAN THE INSURED, AND THOSE CLAIMING BY THROUGH AND UNDER THE INSURED, HAVE RIGHTS IN AND TO THE USE OF THE PORTION OF THE ASPHALT DRIVE LOCATED ON THE LAND AND SHOWN THEREON. (LOAN POLICY ONLY)
SURVEYOR'S COMMENTS: SEE CURRENT SURVEY - SHOWN GRAPHICALLY AND LABELED.

3. ANY DISCREPANCY, CONFLICT, MATTERS REGARDING ACCESS, SHORTAGE IN AREA OR BOUNDARY LINES, ENCROACHMENT, ENCUMBRANCE, VIOLATION, VARIATION, OVERLAP, SETBACK, EASEMENT OR CLAIMS OF EASEMENT, RIPARIAN RIGHT, AND TITLE TO LAND WITHIN ROADS, WAYS, RAILROADS, WATERCOURSES, BURIAL GROUNDS, MARSHES, DREDGED OR FILLED AREAS OR LAND BELOW THE MEAN HIGHWATER MARK OR WITHIN THE BOUNDS OF ANY ADJOINING BODY OF WATER, OR OTHER ADVERSE CIRCUMSTANCE AFFECTING THE TITLE THAT WOULD BE DISCLOSED BY A CURRENT INSPECTION AND ACCURATE AND COMPLETE LAND SURVEY OF THE LAND.
UPON RECEIPT OF A CURRENT LAND SURVEY AND SURVEYOR'S REPORT, THIS EXCEPTION WILL BE ELIMINATED OR AMENDED IN ACCORDANCE WITH THE FACTS SHOWN THEREBY.
SURVEYOR'S COMMENTS: SEE CURRENT SURVEY - SHOWN GRAPHICALLY AND LABELED.

4. RIGHTS OF WAY TO CAROLINA POWER AND LIGHT COMPANY RECORDED IN BOOK 535, PAGE 315; BOOK 650, PAGE 217.
SURVEYOR'S COMMENTS: SEE CURRENT SURVEY - SHOWN GRAPHICALLY AND LABELED.

5. TITLE TO ANY PORTION OF THE LAND LYING WITHIN THE RIGHT OF WAY OF BRIDGES STREET.
SURVEYOR'S COMMENTS: SEE CURRENT SURVEY - SHOWN GRAPHICALLY AND LABELED..

6. RIPARIAN AND/OR LITTORAL RIGHTS INCIDENT TO THE LAND; RIGHTS OF OTHERS IN AND TO THE CONTINUOUS AND UNINTERRUPTED FLOW OF THE WATERS BOUNDING OR CROSSING THE LAND; AND TITLE TO ANY PORTION OF THE LAND OWNED BY ANY GOVERNMENTAL ENTITY INCLUDING, BUT NOT LIMITED TO, MARSH, DREDGED AND/OR FILLED AREAS AND LAND BELOW THE MEAN HIGH-WATER MARK.
SURVEYOR'S COMMENTS: NOT RELATED TO MATTERS OF LAND SURVEY.

7. THE LAND SHALL NOT BE DEEMED TO INCLUDE ANY HOUSE TRAILER, MANUFACTURED HOME, MOBILE HOME, OR MOBILE DWELLING ON THE LAND.
SURVEYOR'S COMMENTS: SEE CURRENT SURVEY - SHOWN GRAPHICALLY AND LABELED.

8. ORDINANCE FOR ANNEXATION RECORDED IN BOOK 1671, PAGE 120.
SURVEYOR'S COMMENTS: NOT RELATED TO MATTERS OF LAND SURVEY.

9. EASEMENT FROM ELIJAH'S LANDING OF MOREHEAD CITY, LLC TO DUKE ENERGY PROGRESS, LLC RECORDED JUNE 2, 2021, IN FILE #1724386, CARTERET COUNTY REGISTRY.
SURVEYOR'S COMMENTS: NOT RELATED TO MATTERS OF LAND SURVEY.

NOTES:
1. THIS SURVEY IS OF AN EXISTING PARCEL OF LAND
2. AREA BY COORDINATES.
3. THIS MAP IS NOT FOR RECORDING.
4. TRACT AREA = 11.64 ACRES = 506,964.36 SF
5. NO POINTS SET IN CALICO CREEK.
6. NO TREES LOCATED OR SHOWN.
7. NO EASEMENTS FOR WATER, SEWER, TELEPHONE OR DRAINAGE PROVIDED.
8. FLOOD ZONE LINES SCALED FROM FIRM NUMBER 3720637600J DATED 7/16/03.
9. NO PARKING SPACES OR STRIPING EXIST ON PROPERTY.
10. NO PARTY OR DIVISION WALLS EXIST ON PROPERTY.
11. WETLANDS LINES FIELD APPROVED BY TOM CHARLES OF USACOE ON 3/18/18.
12. PROPERTY IS ZONED: RMF (RESIDENTIAL MULTI-FAMILY) ACCORDING TO THE ZONING VERIFICATION LETTER PROVIDED BY THE TOWN OF MOREHEAD CITY, DATED 10/27/2021.
13. AT TIME OF FIELD WORK, THERE WAS NO EVIDENCE OF EARTH MOVING CONSTRUCTION, ETC.
14. AT TIME OF FIELD WORK, THERE WAS NO EVIDENCE OF STREET OR RIGHT-OF-WAY CHANGES.
15. PARCEL HAS TWO ADDRESS NUMBERS DUE TO OLD TAX NUMBERS.
16. THE SURVEY CORRECTLY SHOWS THE LOCATION OF ALL BUILDINGS, STRUCTURES, AND OTHER IMPROVEMENTS SITUATED ON THE PROPERTY.
17. EXCEPT AS SHOWN, ALL UTILITIES SERVING THE PROPERTY ENTER THROUGH ADJOINING PUBLIC STREETS AND OR EASEMENTS OF RECORD; THAT, EXCEPT AS SHOWN, THERE ARE NO VISIBLE EASEMENTS OR RIGHTS OF WAY ACROSS SAID PROPERTY; THAT THE PROPERTY IS THE SAME AS THE PROPERTY DESCRIBED IN INVESTORS TITLE INSURANCE COMPANY, COMMITMENT NO. 21-20231NB WITH AN EFFECTIVE DATE OF 09/16/2021 AND A DATE OF SECOND REVISION OF 11/23/2021; AND THAT ALL EASEMENTS, COVENANTS AND RESTRICTIONS REFERENCED IN SAID TITLE COMMITMENT, OR EASEMENTS OF WHICH THE UNDERSIGNED HAS BEEN ADVISED OR HAS KNOWLEDGE, HAVE BEEN PLOTTED HEREON OR OTHERWISE NOTED AS TO THEIR AFFECT ON THE PROPERTY.
18. EXCEPT AS SHOWN, THERE ARE NO ENCROACHMENTS ONTO ADJOINING PREMISES, STREETS OR ALLEYS BY ANY BUILDING, STRUCTURES OR OTHER IMPROVEMENTS, AND NO ENCROACHMENTS ONTO SAID PROPERTY BY BUILDINGS, STRUCTURES OR OTHER IMPROVEMENTS SITUATED ON ADJOINING PREMISES.
19. BY GRAPHIC PLOTTING ONLY, THE PROPERTY IS LOCATED IN ZONE X (UNSHADED) AND AE(6') OF THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 3720637600J, WHICH BEARS AN EFFECTIVE DATE OF 07/16/03, AND A PORTION OF THE PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZZARD AREA. THIS COMMUNITY DOES PARTICIPATE IN THE PROGRAM. NO FIELD SURVEYING PERFORMED TO DETERMINE BASE FLOOD ELEVATION OR ESTABLISH BENCHMARK.
20. THE PROPERTY HAS DIRECT PHYSICAL ACCESS TO A PUBLICLY DEDICATED STEET OR HIGHWAY KNOWN AS BRIDGES STEET AND IS A 60' PUBLIC RIGHT OF WAY.
21. THE NUMBER OF STRIPED PARKING SPACES LOCATED ON THE PROPERTY IS INCLUDING HANDICAPPED SPACES AND TO THE EXTENT POSSIBLE ARE GRAPHICALLY SHOWN HEREON. N/A
22. THIS PROPERTY IS A SINGLE TAX PARCEL.

Elijah's Landing
3140 & 3200 Bridges St.
Morehead City, Carereter
County, NC 28557
FHA Project #:053-36291

Elijah's Landing

THE CULLIPHER GROUP, P.A.
ENGINEERING & SURVEYING SERVICES
C-4483
151-A NC HIGHWAY 24
MOREHEAD CITY, N.C. 28557
(252) 773-0090

PRELIMINARY PLAT
NOT FOR RECORDATION, CONVEYANCE OR SALE.
FOR REVIEW ONLY!

100% CONSTRUCTION DRAWINGS

date	9/28/22
drafter	CMC
checked by	EGC
proj. no.	PM858-29
revisions	
1	PER NCFHA
2	PER TOWN
3	PER TITLE/LENDER
4	PER NCDPS

ALTA /NSPS LAND TITLE SURVEY

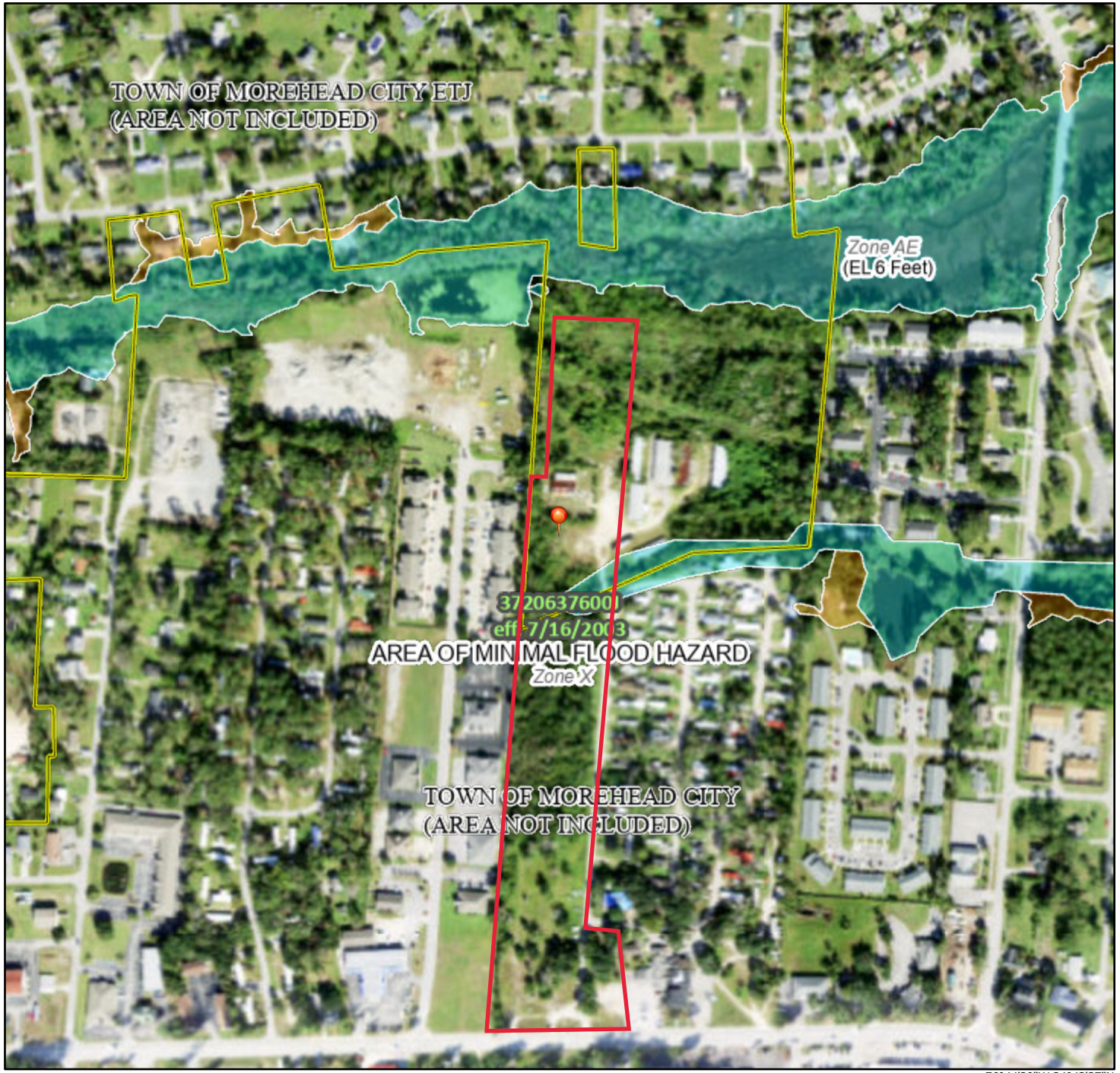
C2.0

FEMA FIRMs and PFIRM with Parcel Boundary

National Flood Hazard Layer FIRMette

FEMA

76°45'8"W 34°44'7"N



76°44'30"W 34°43'37"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/21/2023 at 10:40 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Elijah's Landing Apartments - FEMA FIRM

June 21, 2023

1:4,514

0 0.03 0.06 0.12 mi

0 0.05 0.1 0.2 km

Elijah's Landing Apartments

Flood Hazard Zones

1% Annual Chance Flood Hazard

Regulatory Floodway

Special Floodway

Area of Undetermined Flood Hazard

0.2% Annual Chance Flood Hazard

FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR ZONE DESCRIPTIONS AND INDEX MAP

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT HTTP://FRIS.NC.GOV/FRIS

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A,V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% Annual Chance Flood with Average Depth Less Than One Foot or With Drainage Areas of Less Than One Square Mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee See Notes *Zone X*

OTHER AREAS
- Areas Determined to be Outside the 0.2% Annual Chance Floodplain *Zone X*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Accredited or Provisionally Accredited Levee, Dike, or Floodwall
- Non-accredited Levee, Dike, or Floodwall
- BM5510 North Carolina Geodetic Survey bench mark
- BM5510 National Geodetic Survey bench mark
- BM5510 Contractor Est. NCFMP Survey bench mark
- 012 18.2 Cross Sections with 1% Annual Chance Water Surface Elevation (BFE)
- 8 Coastal Transect
- Coastal Transect Baseline
- Profile Baseline

OTHER FEATURES
- Hydrographic Feature
- Limit of Study
- Jurisdiction Boundary

NOTES TO USERS

For information and questions about this map, available products associated with this FIRM including historic versions of this FIRM, how to order products or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Map Service Center website at http://msc.fema.gov. An accompanying Flood Insurance Study report, Letter of Map Revision (LOMR) or Letter of Map Amendment (LOMA) revising portions of this panel, and digital versions of this FIRM may be available. Visit the North Carolina Floodplain Mapping Program website at http://www.ncfloodmaps.com, or contact the FEMA Map Service Center.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Map Service Center at the number listed above.

For community and countywide map dates refer to the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in the community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on this FIRM was provided in digital format by the North Carolina Floodplain Mapping Program (NCFMP). The source of this information can be determined from the metadata available in the digital FLOOD database and in the Technical Support Data Notebook (TSDN).

ACCREDITED LEVEE NOTES TO USERS: If an accredited levee note appears on this panel check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit the FEMA Website at http://www.fema.gov/business/nfip/index.shtm.

PROVISIONALLY ACCREDITED LEVEE NOTES TO USERS: If a Provisionally Accredited Levee (PAL) note appears on this panel, check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection. To maintain accreditation, the levee owner or community is required to submit the data and documentation necessary to comply with Section 65.10 of the NFIP regulations. If the community or owner does not provide the necessary data and documentation or if the data and documentation provided indicates the levee system does not comply with Section 65.10 requirements, FEMA will revise the flood hazard and risk information for this area to reflect de-accreditation of the levee system. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit the FEMA Website at http://www.fema.gov/business/nfip/index.shtm.

LIMIT OF MODERATE WAVE ACTION NOTES TO USERS: For some coastal flooding zones the AE Zone category has been divided by a Limit of Moderate Wave Action (LiMWA). The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave. The effects of wave hazards between the VE Zone and the LiMWA (or between the shoreline and the LiMWA for areas where VE Zones are not identified) will be similar to, but less severe than those in the VE Zone.

Limit of Moderate Wave Action (LiMWA)

COASTAL BARRIER RESOURCES SYSTEM (CBRS) NOTE

This map may include approximate boundaries of the CBRS for informational purposes only. Flood insurance is not available within CBRS areas for structures that are newly built or substantially improved on or after the date(s) indicated on the map. For more information see http://www.fws.gov/cbra, the FIS Report, or call the U.S. Fish and Wildlife Service Customer Service Center at 1-800-344-WILD.

CBRS Area

Otherwise Protected Area

SCALE

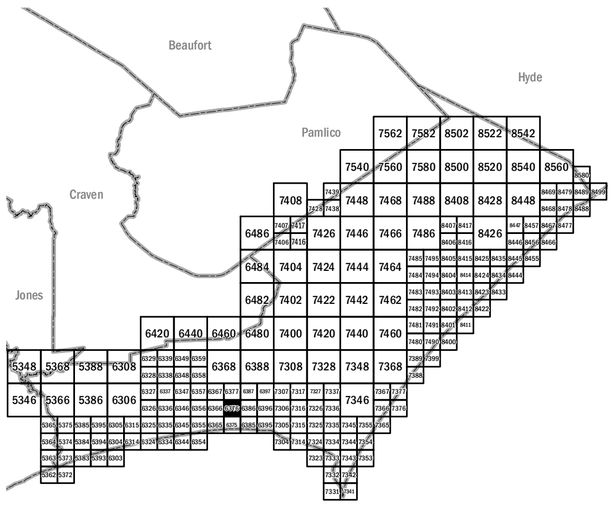
Map Projection:
North Carolina State Plane Projection Feet (Zone 3200)
Datum: NAD 1983 (Horizontal), NAVD 1988 (Vertical)

1 inch = 500 feet 1:6,000

0 250 500 1,000 Feet

0 75 150 300 Meters

PANEL LOCATOR



FEMA National Flood Insurance Program

NORTH CAROLINA FLOODPLAIN MAPPING PROGRAM
NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

NORTH CAROLINA

PANEL 6376

Panel Contains:

COMMUNITY	CID	PANEL	SUFFIX
CARTERET COUNTY	370043	6376	K
MOREHEAD CITY, TOWN OF	370048	6376	K

PRELIMINARY
06/30/2016

MAP NUMBER
3720637600K

USFWS NWI Map with Parcel Boundary

Elijah's Landing Apartments - NWI Map

June 21, 2023

1:4,514

0 0.03 0.06 0.12 mi

0 0.05 0.1 0.2 km

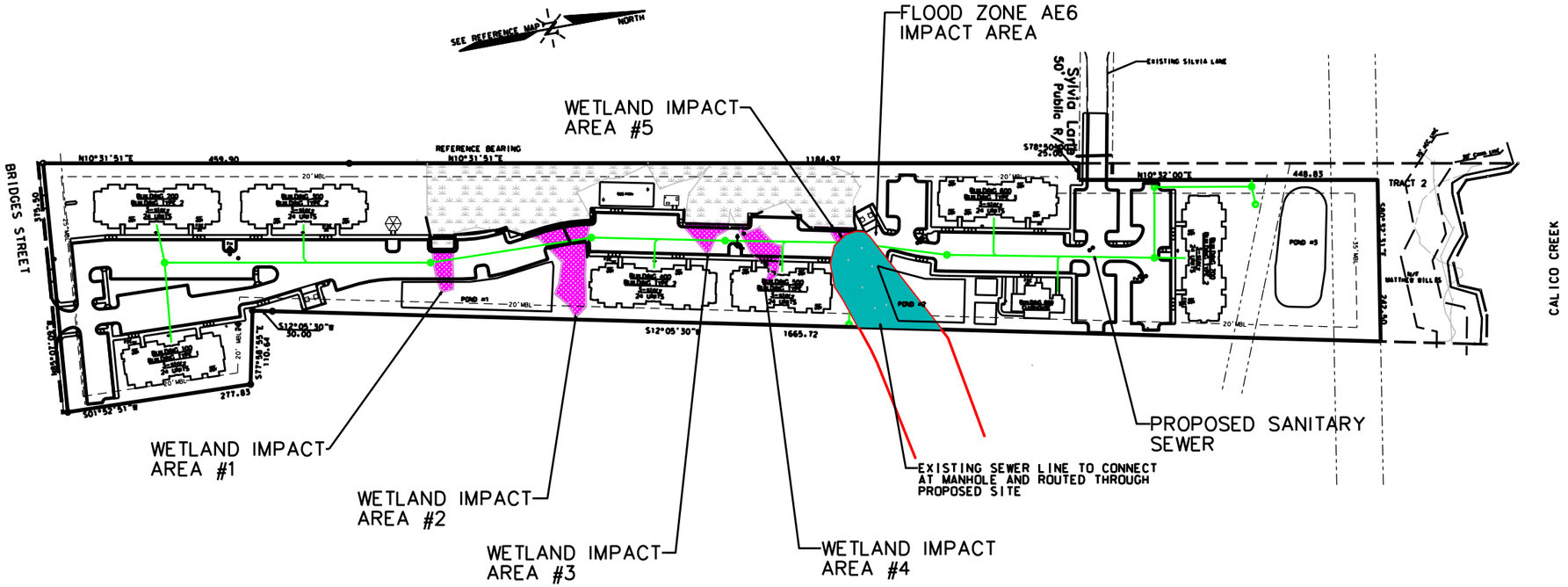
Elijah's Landing Apartments

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Proposed Floodplain and Wetlands Impacts Site Plan *(revised with Building #500 moved outside of 100-year floodplain)*

ELIJAH'S LANDING APARTMENTS
PROPOSED WETLAND AND FLOOD ZONE IMPACTS



IMPACTS TABLE

TOTAL WETLANDS AREA = 64.004.06 SF
WETLAND IMPACT AREA #1 = 1.625.19 SF = 0.037 AC
WETLAND IMPACT AREA #2 = 6.064.18 SF = 0.139 AC
WETLAND IMPACT AREA #3 = 1.542.44 SF = 0.035 AC
WETLAND IMPACT AREA #4 = 2.376.78 SF = 0.055 AC
WETLAND IMPACT AREA #5 = 3.608.10 SF = 0.083 AC

TOTAL PROPOSED WETLANDS IMPACTS = 15.216.69 SF = 0.349 AC

TOTAL AE FLOOD ZONE = 13.511.32 SF = 0.310 AC
PROPOSED IMPACT TO FLOOD ZONE = 0.310 AC

AVOIDANCE AND MINIMIZATION TABLE

WETLAND IMPACT AREA #1	1. REMOVED PARKING SPACES ON WEST SIDE OF DRIVE AISLE 2. ADDED RETAINING WALL ALONG WEST SIDE OF DRIVE AISLE 3. CONVERTED CONCRETE SIDEWALK TO ABOVE GRADE BOARDWALK
WETLAND IMPACT AREA #2	1. REMOVED PARKING SPACES ON BOTH SIDES OF DRIVE AISLE 2. ADDED RETAINING WALL ALONG BOTH SIDES OF DRIVE AISLE 3. CONVERTED CONCRETE SIDEWALK TO ABOVE GRADE BOARDWALK
WETLAND IMPACT AREA #3	1. REMOVED PARKING SPACES ON WEST SIDE OF DRIVE AISLE 2. ADDED RETAINING WALL ALONG WEST SIDE OF DRIVE AISLE 3. MOVED ACCESSIBLE ROUTE TO EAST SIDE OF DRIVE AISLE
WETLAND IMPACT AREA #4	1. REMOVED PARKING SPACES ON WEST SIDE OF DRIVE AISLE 2. ADDED RETAINING WALL ALONG WEST SIDE OF DRIVE AISLE 3. MOVED ACCESSIBLE ROUTE TO EAST SIDE OF DRIVE AISLE
WETLAND IMPACT AREA #5	1. REMOVED PARKING SPACES ON WEST SIDE OF DRIVE AISLE 2. ADDED RETAINING WALL ALONG WEST SIDE OF DRIVE AISLE 3. MOVED ACCESSIBLE ROUTE TO EAST SIDE OF DRIVE AISLE

LEGEND

- EXISTING WETLANDS
- PROPOSED WETLAND IMPACTS
- EXISTING AE FLOOD ZONE
- PROPOSED SEWER

100 50 0 100 200
SCALE: 1" = 100'

USACE CWA Section 404 General Permit Verification (3/5/21) with Special Conditions, USACE JD (7/24/2018), NCDEQ DWR CWA Section 401 Water Quality General Certification No. 4139 with Additional Conditions

U.S. ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT

Action Id. **SAW-2021-00044** County: **Carteret County** U.S.G.S. Quad: **Morehead City**

GENERAL PERMIT (REGIONAL AND NATIONWIDE) VERIFICATION

Owner Information: **Elijah's Landing of Morehead City, LLC**
C/O Keith Walker
108 Professional Park Drive
Beaufort, NC, 28516

Agent/ Consultant: **Kim Williams**
Land Management Group
3805 Wrightsville Avenue; Suite 15
Wilmington, NC 28403

Size (acres)	**13.3 acres**	Nearest Town	**Morehead City**
Nearest Waterway	**Calico Creek**	River Basin	**White Oak**
USGS HUC	**030203010406**	Coordinates	Latitude: **34.730365**
			Longitude: **-76.746681**

Location description: **This project is located off of Bridges Street, Pin#`s 637615648235000 & 6376156499070000, in Morehead City, Carteret County, NC.**

Description of projects area and activity: **This verification authorizes the use of a Nationwide Permit 29 & 18 to impact 0.037 acres of wetland for road crossing & parking site 1, impact 0.139 acres of wetland for road crossing & Grading site 2, impact 0.035 acres of wetland for road & parking site 3, impact 0.055 acres of wetland for road, building & parking site 4 and impact 0.083 acres of wetland for road, parking & grading site 5, total impacts 0.349.**

Applicable Law: ☒ Section 404 (Clean Water Act, 33 USC 1344)
☐ Section 10 (Rivers and Harbors Act, 33 USC 403)

Authorization: Regional General Permit Number and/or Nationwide Permit Number: **29 & 18**
SEE ATTACHED RGP or NWP GENERAL, REGIONAL AND/OR SPECIAL CONDITIONS

Your work is authorized by the above referenced permit provided it is accomplished in strict accordance with the attached conditions and your submitted application and attached information dated 1/6/2021. Any violation of the attached conditions or deviation from your submitted plans may subject the permittee to a stop work order, a restoration order, a Class I administrative penalty, and/or appropriate legal action.

This verification will remain valid until the expiration date identified below unless the nationwide and/or regional general permit authorization is modified, suspended or revoked. If, prior to the expiration date identified below, the nationwide and/or regional general permit authorization is reissued and/or modified, this verification will remain valid until the expiration date identified below, provided it complies with all requirements of the modified nationwide permit. If the nationwide and/or regional general permit authorization expires or is suspended, revoked, or is modified, such that the activity would no longer comply with the terms and conditions of the nationwide permit, activities which have commenced (i.e., are under construction) or are under contract to commence in reliance upon the nationwide and/or regional general permit, will remain authorized provided the activity is completed within twelve months of the date of the nationwide and/or regional general permit's expiration, modification or revocation, unless discretionary authority has been exercised on a case-by-case basis to modify, suspend or revoke the authorization.

Activities subject to Section 404 (as indicated above) may also require an individual Section 401 Water Quality Certification. You should contact the NC Division of Water Resources (telephone 919-807-6300) to determine Section 401 requirements.

For activities occurring within the twenty coastal counties subject to regulation under the Coastal Area Management Act (CAMA), prior to beginning work you must contact the N.C. Division of Coastal Management in Wilmington, NC.

This Department of the Army verification does not relieve the permittee of the responsibility to obtain any other required Federal, State or local approvals/permits.

If there are any questions regarding this verification, any of the conditions of the Permit, or the Corps of Engineers regulatory program, please contact **Thomas Charles at (910) 251-4101 or Thomas.p.charles@usace.army.mil**.

Corps Regulatory Official: Thomas Charles
Digitally signed by Thomas Charles
Date: 2021.03.05 14:50:18 -05'00'
Date: **3/5/2021**
Expiration Date of Verification: **March 18, 2022**

SPECIAL CONDITIONS
SAW-2021-00044

1. The permittee shall employ all sedimentation and erosion control measures necessary to prevent an increase in sedimentation or turbidity within waters and wetlands outside the permit area. This shall include, but is not limited to, the immediate installation of silt fencing or similar appropriate devices around all areas subject to soil disturbance or the movement of earthen fill, and the immediate stabilization of all disturbed areas. Additionally, the project must remain in full compliance with all aspects of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statutes Chapter 113A Article 4).

Action ID Number: SAW-2021-00044 **County:** Carteret County

Permittee: Keith Walker

Project Name: Elijah's Landing of Morehead City, LLC

Date Verification Issued: 3/5/2021

Project Manager: Thomas Charles

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification, and return it to the following address:

US ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT
Attn: Thomas Charles

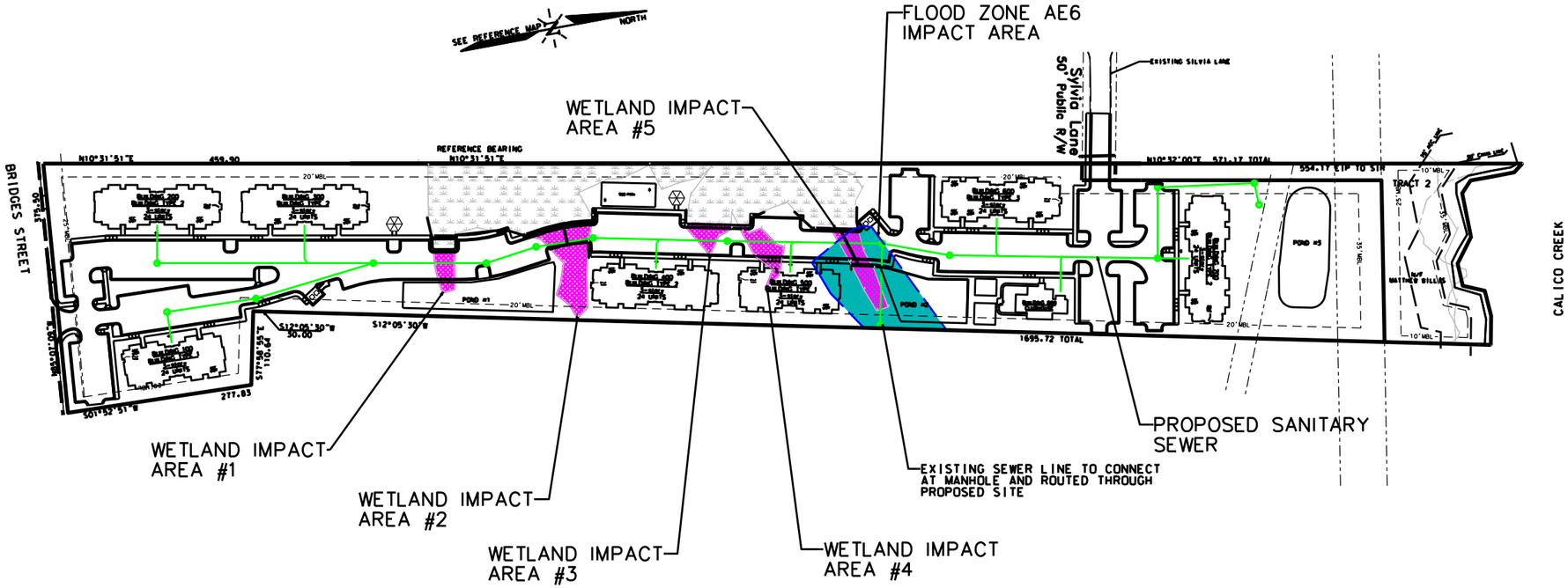
Please note that your permitted activity is subject to a compliance inspection by a U. S. Army Corps of Engineers representative. Failure to comply with any terms or conditions of this authorization may result in the Corps suspending, modifying, or revoking the authorization and/or issuing a Class I administrative penalty, or initiating other appropriate legal action.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and condition of the said permit, and required mitigation was completed in accordance with the permit conditions.

_____ _____

Signature of Permittee **Date**

ELIJAH'S LANDING APARTMENTS
PROPOSED WETLAND AND FLOOD ZONE IMPACTS



IMPACTS TABLE

TOTAL WETLANDS AREA = 64.004.06 SF
WETLAND IMPACT AREA #1 = 1.625.19 SF = 0.037 AC
WETLAND IMPACT AREA #2 = 6.064.18 SF = 0.139 AC
WETLAND IMPACT AREA #3 = 1.542.44 SF = 0.035 AC
WETLAND IMPACT AREA #4 = 2.376.78 SF = 0.055 AC
WETLAND IMPACT AREA #5 = 3.608.10 SF = 0.083 AC

TOTAL PROPOSED WETLANDS IMPACTS = 15.216.69 SF = 0.349 AC

TOTAL AE FLOOD ZONE = 16.953.51 SF = 0.389 AC
PROPOSED IMPACT TO FLOOD ZONE = 0.389 AC

AVOIDANCE AND MINIMIZATION TABLE

WETLAND IMPACT AREA #1	1. REMOVED PARKING SPACES ON WEST SIDE OF DRIVE AISLE 2. ADDED RETAINING WALL ALONG WEST SIDE OF DRIVE AISLE 3. CONVERTED CONCRETE SIDEWALK TO ABOVE GRADE BOARDWALK
WETLAND IMPACT AREA #2	1. REMOVED PARKING SPACES ON BOTH SIDES OF DRIVE AISLE 2. ADDED RETAINING WALL ALONG BOTH SIDES OF DRIVE AISLE 3. CONVERTED CONCRETE SIDEWALK TO ABOVE GRADE BOARDWALK
WETLAND IMPACT AREA #3	1. REMOVED PARKING SPACES ON WEST SIDE OF DRIVE AISLE 2. ADDED RETAINING WALL ALONG WEST SIDE OF DRIVE AISLE 3. MOVED ACCESSIBLE ROUTE TO EAST SIDE OF DRIVE AISLE
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LEGEND

EXISTING WETLANDS

PROPOSED WETLAND IMPACTS

EXISTING AE FLOOD ZONE

PROPOSED SEWER

100 50 0 100 200
SCALE: 1" = 100'

Thomas Charles
Digitally signed by Thomas Charles
Date: 2021.03.05 14:51:03 -05'00'

U.S. ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT

Action Id. SAW-2018-00412 County: Carteret U.S.G.S. Quad: NC- Beaufort

NOTIFICATION OF JURISDICTIONAL DETERMINATION

Property Owner: Lois Matthews et al
Address: 182 Drum Inlet
Morehead City, NC 28557
Phone No. (252) 726-9050

Size (acres) 13.3
Nearest Waterway Bogue Sound
USGS HUC 03020301

Nearest Town Morehead City
River Basin White Oak
Coordinates Latitude: 34.7303
Longitude: -76.7466

Location description: The project area is located at 3200 and 3140 N. Bridges Street in Morehead City, Carteret County, North Carolina. The Parcel ID #s are 637615648235000 and 637615649907000.

Indicate Which of the Following Apply:

A. Preliminary Determination

☐ There appear to be **waters, including wetlands** on the above described project area/property, that may be subject to Section 404 of the Clean Water Act (CWA)(33 USC § 1344) and/or Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403). The **waters, including wetlands** have been delineated, and the delineation has been verified by the Corps to be sufficiently accurate and reliable. The approximate boundaries of these waters are shown on the enclosed delineation map dated. Therefore this preliminary jurisdiction determination may be used in the permit evaluation process, including determining compensatory mitigation. For purposes of computation of impacts, compensatory mitigation requirements, and other resource protection measures, a permit decision made on the basis of a preliminary JD will treat all waters and wetlands that would be affected in any way by the permitted activity on the site as if they are jurisdictional waters of the U.S. This preliminary determination is not an appealable action under the Regulatory Program Administrative Appeal Process (Reference 33 CFR Part 331). However, you may request an approved JD, which is an appealable action, by contacting the Corps district for further instruction.

☐ There appear to be **waters, including wetlands** on the above described project area/property, that may be subject to Section 404 of the Clean Water Act (CWA)(33 USC § 1344) and/or Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403). However, since the **waters, including wetlands** have not been properly delineated, this preliminary jurisdiction determination may not be used in the permit evaluation process. Without a verified wetland delineation, this preliminary determination is merely an effective presumption of CWA/RHA jurisdiction over all of the **waters, including wetlands** at the project area, which is not sufficiently accurate and reliable to support an enforceable permit decision. We recommend that you have the **waters, including wetlands** on your project area/property delineated. As the Corps may not be able to accomplish this wetland delineation in a timely manner, you may wish to obtain a consultant to conduct a delineation that can be verified by the Corps.

B. Approved Determination

☐ There are Navigable Waters of the United States within the above described project area/property subject to the permit requirements of Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403) and Section 404 of the Clean Water Act (CWA)(33 USC § 1344). Unless there is a change in law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

☒ There are **waters, including wetlands** on the above described project area/property subject to the permit requirements of Section 404 of the Clean Water Act (CWA) (33 USC § 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

☐ We recommend you have the **waters, including wetlands** on your project area/property delineated. As the Corps may not be able to accomplish this wetland delineation in a timely manner, you may wish to obtain a consultant to conduct a delineation that can be verified by the Corps.

SAW-2018-00412

☐ The **waters, including wetlands** on your project area/property have been delineated and the delineation has been verified by the Corps. The approximate boundaries of these waters are shown on the enclosed delineation map dated. We strongly suggest you have this delineation surveyed. Upon completion, this survey should be reviewed and verified by the Corps. Once verified, this survey will provide an accurate depiction of all areas subject to CWA jurisdiction on your property which, provided there is no change in the law or our published regulations, may be relied upon for a period not to exceed five years.

☒ The **waters, including wetlands** have been delineated and surveyed and are accurately depicted on the plat signed by the Corps Regulatory Official identified below on **May 16, 2018**. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

☐ There are no waters of the U.S., to include wetlands, present on the above described project area/property which are subject to the permit requirements of Section 404 of the Clean Water Act (33 USC 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

☒ The property is located in one of the 20 Coastal Counties subject to regulation under the Coastal Area Management Act (CAMA). You should contact the Division of Coastal Management in **Morehead City, NC, at (252) 808-2808** to determine their requirements.

Placement of dredged or fill material within waters of the US, including wetlands, without a Department of the Army permit may constitute a violation of Section 301 of the Clean Water Act (33 USC § 1311). Placement of dredged or fill material, construction or placement of structures, or work within navigable waters of the United States without a Department of the Army permit may constitute a violation of Sections 9 and/or 10 of the Rivers and Harbors Act (33 USC § 401 and/or 403). If you have any questions regarding this determination and/or the Corps regulatory program, please contact **Mr. Tom Charles** at **(910) 251-4101** or **Thomas.P.Charles@usace.army.mil**.

C. Basis For Determination: Basis For Determination: See the approved jurisdictional determination form dated 7/24/2018.

D. Remarks: None.

E. Attention USDA Program Participants

This delineation/determination has been conducted to identify the limits of Corps' Clean Water Act jurisdiction for the particular site identified in this request. The delineation/determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are USDA Program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

F. Appeals Information (This information applies only to approved jurisdictional determinations as indicated in B. above)

This correspondence constitutes an approved jurisdictional determination for the above described site. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and request for appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the following address:

US Army Corps of Engineers
South Atlantic Division
Attn: Jason Steele, Review Officer
60 Forsyth Street SW, Room 10M15
Atlanta, Georgia 30303-8801

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by **9/23/2018**.
It is not necessary to submit an RFA form to the Division Office if you do not object to the determination in this correspondence.

Corps Regulatory Official: _____

Date of JD: **7/24/2018** Expiration Date of JD: **7/24/2023**

SAW-2018-00412

The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete the Customer Satisfaction Survey located at http://corpsmapu.usace.army.mil/cm_apex/f?p=136:4:0

Copy furnished:

Agent:	Land Management Group, Inc.
	Mr. Paul Farley
Address:	3805 Wrightsville Ave, Suite 15
	Wilmington, NC 28403
Telephone Number:	(910) 452-0001

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: **Lois Matthews et al,**	File Number: **SAW-2018-00412**	Date: **7/24/2018**

Attached is:		See Section below
☐	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A
☐	PROFFERED PERMIT (Standard Permit or Letter of permission)	B
☐	PERMIT DENIAL	C
☒	APPROVED JURISDICTIONAL DETERMINATION	D
☐	PRELIMINARY JURISDICTIONAL DETERMINATION	E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at or http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits.aspx or the Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the district engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:	If you only have questions regarding the appeal process you may also contact:
District Engineer, Wilmington Regulatory Division **Attn: Mr. Tom Charles** **Wilmington Regulatory Office** **U.S Army Corps of Engineers** **69 Darlington Avenue** **Wilmington, North Carolina 28403**	Mr. Jason Steele, Administrative Appeal Review Officer CESAD-PDO U.S. Army Corps of Engineers, South Atlantic Division 60 Forsyth Street, Room 10M15 Atlanta, Georgia 30303-8801 Phone: (404) 562-5137

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

_____ Signature of appellant or agent.	Date:	Telephone number:

For appeals on Initial Proffered Permits send this form to:

District Engineer, Wilmington Regulatory Division, Attn: Mr. Tom Charles, 69 Darlington Avenue, Wilmington, North Carolina 28403

For Permit denials, Proffered Permits and Approved Jurisdictional Determinations send this form to:

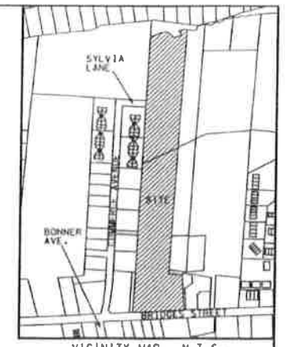
Division Engineer, Commander, U.S. Army Engineer Division, South Atlantic, Attn: Mr. Jason Steele, Administrative Appeal Officer, CESAD-PDO, 60 Forsyth Street, Room 10M15, Atlanta, Georgia 30303-8801
Phone: (404) 562-5137

SEE REFERENCE MAP

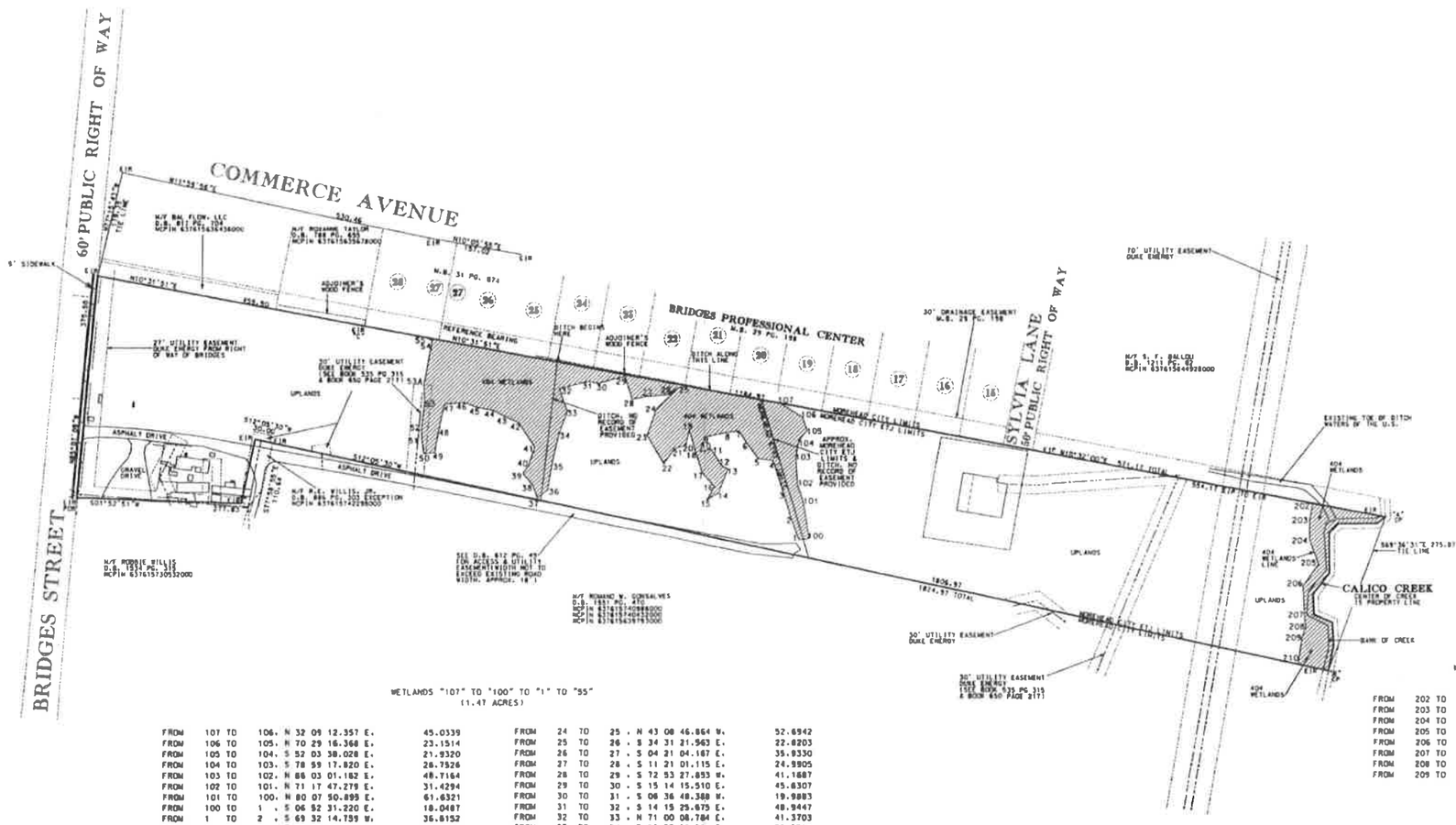
NORTH

NOTES:
1) THIS SURVEY IS OF EXISTING PARCELS OF LAND
2) AREA BY COORDINATES.
3) THIS MAP IS NOT FOR RECORDING.
4) TRACT AREA = 12.76 ACRES
5) NO POINTS SET IN CALICO CREEK.
6) NO TREES LOCATED OR SHOWN.
7) WETLANDS LINES FIELD APPROVED BY TOM CHARLES OF USACOE ON 3/18/18.

REFERENCE MAP
SEE SURVEY FOR WILLIS MOBILE HOME PARK #1 FOR LOIS MATTHEWS C/O HARWELL AND COLLINS, P.A. BY PRESTIGE LAND SURVEYING, P.A. DATED JUNE 29, 2016.



VICINITY MAP N.T.S.



CALICO CREEK CALLS "A" TO "B"

S36°36'48"E		18.00
S00°13'52"E		34.18
S00°07'40"W		33.29
S45°26'43"E		52.85
N89°10'57"E		66.95
S59°37'49"E		44.36
N87°40'22"E		34.23
N23°18'25"E		33.85
N86°19'08"E		58.93
S78°45'16"E		43.41

WETLANDS "107" TO "100" TO "1" TO "55"
(1.47 ACRES)

FROM	107 TO	106. N 32 09 12.357 E.	45.0339		
FROM	106 TO	105. N 70 29 16.368 E.	23.1514		
FROM	105 TO	104. S 52 03 38.028 E.	21.9320		
FROM	104 TO	103. S 78 59 17.820 E.	28.7526		
FROM	103 TO	102. N 86 03 01.182 E.	48.7164		
FROM	102 TO	101. N 71 17 47.279 E.	31.4294		
FROM	101 TO	100. N 80 07 50.895 E.	61.6321		
FROM	100 TO	1 . S 06 52 31.220 E.	18.0487		
FROM	1 TO	2 . S 69 32 14.759 W.	36.8152		
FROM	2 TO	3 . S 73 32 19.590 W.	46.3326		
FROM	3 TO	4 . S 71 25 17.430 W.	57.5455		
FROM	4 TO	5 . S 08 25 38.033 W.	24.8081		
FROM	5 TO	6 . S 83 21 04.953 W.	35.2706		
FROM	6 TO	7 . S 58 29 02.209 W.	21.8799		
FROM	7 TO	8 . S 07 16 00.118 E.	20.3545		
FROM	8 TO	9 . S 12 27 58.460 E.	38.7762		
FROM	9 TO	10 . S 71 41 33.431 E.	25.2529		
FROM	10 TO	11 . N 10 34 38.621 W.	18.9277		
FROM	11 TO	12 . N 56 35 38.105 E.	33.2834		
FROM	12 TO	13 . N 27 30 29.022 E.	11.7660		
FROM	13 TO	14 . S 68 24 57.405 E.	42.8691		
FROM	14 TO	15 . S 31 33 16.904 E.	24.5800		
FROM	15 TO	16 . N 58 57 30.719 W.	26.3892		
FROM	16 TO	17 . S 47 07 14.559 W.	33.4436		
FROM	17 TO	18 . S 72 11 40.373 W.	40.6964		
FROM	18 TO	19 . S 73 08 32.840 W.	34.2277		
FROM	19 TO	20 . S 77 11 00.818 E.	25.6185		
FROM	20 TO	21 . S 18 37 50.673 E.	21.6541		
FROM	21 TO	22 . S 55 10 36.816 E.	30.5135		
FROM	22 TO	23 . S 59 32 10.219 W.	55.4969		
FROM	23 TO	24 . N 71 05 13.133 W.	48.3904		
FROM	24 TO	25 . N 43 08 46.864 W.	52.6942		
FROM	25 TO	26 . S 34 31 21.563 E.	22.8203		
FROM	26 TO	27 . S 04 21 04.167 E.	35.9330		
FROM	27 TO	28 . S 11 21 01.115 E.	24.9905		
FROM	28 TO	29 . S 72 53 27.853 W.	41.1687		
FROM	29 TO	30 . S 15 14 15.510 E.	45.8307		
FROM	30 TO	31 . S 06 36 48.388 W.	19.9883		
FROM	31 TO	32 . S 14 15 29.675 E.	48.9447		
FROM	32 TO	33 . N 71 00 08.784 E.	41.3703		
FROM	33 TO	34 . S 68 53 32.591 E.	39.3316		
FROM	34 TO	35 . S 77 03 07.240 E.	49.8455		
FROM	35 TO	36 . S 81 17 35.390 E.	46.9273		
FROM	36 TO	37 . S 36 37 28.323 E.	22.1886		
FROM	37 TO	38 . S 69 28 22.585 W.	22.9274		
FROM	38 TO	39 . S 49 41 34.950 W.	25.2133		
FROM	39 TO	40 . N 56 14 46.782 W.	15.6851		
FROM	40 TO	41 . N 70 52 53.609 W.	33.1483		
FROM	41 TO	42 . S 58 42 53.467 W.	49.1388		
FROM	42 TO	43 . S 24 41 37.732 W.	25.4590		
FROM	43 TO	44 . S 27 11 52.175 W.	23.2317		
FROM	44 TO	45 . S 11 09 35.636 W.	29.8304		
FROM	45 TO	46 . S 21 44 26.235 W.	19.8129		
FROM	46 TO	47 . S 04 43 32.402 E.	34.7454		
FROM	47 TO	48 . S 78 15 29.866 E.	45.2570		
FROM	48 TO	49 . S 80 03 50.869 E.	38.0879		
FROM	49 TO	50 . S 04 58 28.820 E.	17.8635		
FROM	50 TO	51 . S 81 31 25.493 W.	21.7911		
FROM	51 TO	52 . S 87 13 40.116 W.	20.3391		
FROM	52 TO	53 . N 83 47 04.798 W.	42.3699		
FROM	53 TO	53A. S 88 34 49.269 W.	33.1625		
FROM	53A TO	54 . N 80 06 48.992 W.	74.0551		
FROM	54 TO	55 . S 33 00 12.349 W.	10.4607		

TIE 85 TO EIR "C"
S10°31'51"W 106.52

55 TO 107
N10°31'51"E 607.22

WETLANDS "202" TO "210"
(0.25 ACRES)

FROM	202 TO	203. S 79 20 16.031 E.	27.7242
FROM	203 TO	204. N 89 59 59.387 E.	33.6387
FROM	204 TO	205. N 69 19 34.611 E.	44.7183
FROM	205 TO	206. S 54 55 39.728 E.	45.2735
FROM	206 TO	207. N 86 43 16.550 E.	47.0211
FROM	207 TO	208. N 83 36 55.089 E.	21.9364
FROM	208 TO	209. S 70 38 43.645 E.	19.9893
FROM	209 TO	210. S 82 46 33.055 E.	43.8283

TIE 202 TO "A" CP
N10°32'00"E 126.74

210 TO "B" CP
N12°05'30"E 52.00

LEGEND

EIR	EXISTING IRON ROD
EIP	EXISTING IRON PIPE
EPK	EXISTING PK NAIL
ECM	EXISTING CONC. MON.
ERRS	EXISTING R/R SPIKE
SIR	SET IRON ROD
CP	CALCULATED POINT
MHW	MEAN HIGH WATER
N/F	NOW OR FORMERLY
MB	MAP BOOK
DB	DEED BOOK
PG	PAGE
PP	POWER POLE
LP	LIGHT POLE
OH	OVERHEAD ELECTRIC
ELEC	ELECTRICAL PEDESTAL
TRANS	ELEC. TRANSFORMER
TEL	TELEPHONE PEDESTAL
TV	CABLE TV PEDESTAL
WM	WATER METER
CO	CLEAN OUT
SMH	SINGLE WIDE MOBILE HOME
SC	SHED
DS	DANCE STUDIO
SSMH	SANITARY SEWER MANHOLE

100 50 0 100 200
SCALE: 1" = 100'

PROJECT #: PM858S-29

REGULATORY OFFICIAL: NF
TITLE:
DATE: 7/24/18
USACE ACTION ID NO.: SAW-2018-00412

I, E. GLENN CORBETT, CERTIFY THAT THIS PLAT ... FOR LAND ...

PROFESSIONAL LAND SURVEYOR
L-3407
LICENSE NUMBER

SEAL L-3407

REVISIONS:

No.	BY	DATE	DESCRIPTION

REFERENCES:
OWNER: N/F LOIS WILLIS MATTHEWS
D.B. 876 PG. 585
NCPIN 6376156482350000
ADDRESS: 3200 BRIDGES STREET
NCPIN 6376156495870000
ADDRESS: 3140 BRIDGES STREET

WETLANDS SURVEY

ELIJAH'S LANDING

MOREHEAD TOWNSHIP, CARTERET COUNTY, NORTH CAROLINA

CLIENT: EAST CAROLINA COMMUNITY DEVELOPMENT INC.
ADDRESS: P.O. BOX 2400, BEAUFORT, NC 28516
PHONE: 252-504-3996

THE CULLIPHER GROUP, P.A. C-4488
ENGINEERING & SURVEYING SERVICES
101A HIGHWAY 24
MOREHEAD CITY, N.C 28557
(252) 773-0090

E. GLENN CORBETT, P.L.S.

SURVEYED: JH 03/16/18
DRAWN: EGC
CHECKED: EGC
APPROVED: EGC
DATE: 05/16/18
SCALE: 1" = 100'

APPROVED JURISDICTIONAL DETERMINATION FORM
U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): July 24, 2018

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Wilmington District-WFO, Elijah's Landing, SAW-2018-00412

C. PROJECT LOCATION AND BACKGROUND INFORMATION:
State: North Carolina County/parish/borough: Carteret City: Morehead City
Center coordinates of site (lat/long in degree decimal format): Lat. 34.729263° N, Long. -76.746994° W.
Universal Transverse Mercator: 18 S 340043.65 m E 384411.29 m N
Name of nearest waterbody: unnamed tributary to Calico Creek
Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Newport River
Name of watershed or Hydrologic Unit Code (HUC): 03020106
☒ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
☐ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc…) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):
☐ Office (Desk) Determination. Date:
☒ Field Determination. Date(s): 3/8/18

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "*navigable waters of the U.S.*" within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [*Required*]
☐ Waters subject to the ebb and flow of the tide.
☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.
Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **Are** "*waters of the U.S.*" within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [*Required*]

1. **Waters of the U.S.**
   a. **Indicate presence of waters of U.S. in review area (check all that apply):** [1]
      ☐ TNWs, including territorial seas
      ☐ Wetlands adjacent to TNWs
      ☒ Relatively permanent waters[2] (RPWs) that flow directly or indirectly into TNWs
      ☐ Non-RPWs that flow directly or indirectly into TNWs
      ☒ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
      ☐ Impoundments of jurisdictional waters
      ☐ Isolated (interstate or intrastate) waters, including isolated wetlands

   b. **Identify (estimate) size of waters of the U.S. in the review area:**
      Non-wetland waters: ~ 240 linear feet: 6width (ft) and/or acres.
      Wetlands: ~1.4 acres.

   c. **Limits (boundaries) of jurisdiction** based on: **1987 Delineation Manual**
      Elevation of established OHWM (if known): .

2. **Non-regulated waters/wetlands (check if applicable):**[3]
   ☐ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.
   Explain: .

[1] Boxes checked below shall be supported by completing the appropriate sections in Section III below.
[2] For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
[3] Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. **TNW**
   Identify TNW:

   Summarize rationale supporting determination:

2. **Wetland adjacent to TNW**
   Summarize rationale supporting conclusion that wetland is "adjacent":

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody[4] is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. **Characteristics of non-TNWs that flow directly or indirectly into TNW**

   (i) **General Area Conditions:**
   Watershed size: 0.16 **square miles**
   Drainage area: 0.16 **square miles**
   Average annual rainfall: 52.52 inches
   Average annual snowfall: 13 inches

   (ii) **Physical Characteristics:**
   (a) Relationship with TNW:
   ☐ Tributary flows directly into TNW.
   ☒ Tributary flows through **2** tributaries before entering TNW.

   Project waters are **1-2** river miles from TNW.
   Project waters are **1-2** river miles from RPW.
   Project waters are **1-2** aerial (straight) miles from TNW.
   Project waters are **1-2** aerial (straight) miles from RPW.
   Project waters cross or serve as state boundaries. Explain:

   Identify flow route to TNW[5]: . Rpw on-site flows into a tributary of Calico Creek and from Calico Creek to the Newport River

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[4] Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

[5] Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

Tributary stream order, if known: .

(b) General Tributary Characteristics (check all that apply):

Tributary is: ☐ Natural
☒ Artificial (man-made). Explain: On-site rpw appears to be man made ditch.
☐ Manipulated (man-altered). Explain: .

Tributary properties with respect to top of bank (estimate):
Average width: 5 feet
Average depth: 2 feet
Average side slopes: **Vertical (1:1 or less).**

Primary tributary substrate composition (check all that apply):

☐ Silts	☒ Sands	☐ Concrete
☐ Cobbles	☐ Gravel	☐ Muck
☐ Bedrock	☐ Vegetation. Type/% cover:	
☐ Other. Explain:		

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: appears stable.
Presence of run/riffle/pool complexes. Explain: .
Tributary geometry: **Relatively straight**
Tributary gradient (approximate average slope): 2 %

(c) Flow:
Tributary provides for: **Seasonal flow**
Estimate average number of flow events in review area/year: **20 (or greater)**
Describe flow regime: Professional judgement perennial flow.
Other information on duration and volume: .

Surface flow is: **Confined.** Characteristics: .

Subsurface flow: **Unknown**. Explain findings: .
☐ Dye (or other) test performed: .

Tributary has (check all that apply):
☒ Bed and banks
☒ OHWM[6] (check all indicators that apply):

☒ clear, natural line impressed on the bank	☐ the presence of litter and debris
☐ changes in the character of soil	☐ destruction of terrestrial vegetation
☐ shelving	☐ the presence of wrack line
☐ vegetation matted down, bent, or absent	☐ sediment sorting
☐ leaf litter disturbed or washed away	☐ scour
☐ sediment deposition	☐ multiple observed or predicted flow events
☐ water staining	☐ abrupt change in plant community
☐ other (list):	

☐ Discontinuous OHWM.[7] Explain: .

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

☐ High Tide Line indicated by:	☐ Mean High Water Mark indicated by:
☐ oil or scum line along shore objects	☐ survey to available datum;
☐ fine shell or debris deposits (foreshore)	☐ physical markings;
☐ physical markings/characteristics	☐ vegetation lines/changes in vegetation types.
☐ tidal gauges	
☐ other (list):	

(iii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).
Explain: .
Identify specific pollutants, if known: unknown.

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[6]A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
[7]Ibid.

(iv) Biological Characteristics. Channel supports (check all that apply):

- ☐ Riparian corridor. Characteristics (type, average width): .
- ☐ Wetland fringe. Characteristics: .
- ☐ Habitat for:
  - ☐ Federally Listed species. Explain findings: .
  - ☐ Fish/spawn areas. Explain findings: .
  - ☐ Other environmentally-sensitive species. Explain findings: .
  - ☐ Aquatic/wildlife diversity. Explain findings: .

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

(a) General Wetland Characteristics:

Properties:

Wetland size: acres

Wetland type. Explain: .

Wetland quality. Explain: .

Project wetlands cross or serve as state boundaries. Explain: .

(b) General Flow Relationship with Non-TNW:

Flow is: **Pick List**. Explain: Wetland surface water releases at higher rain events. Wetlands flow into the culvert and then into the tributary.

Surface flow is: **Pick List**

Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .

- ☐ Dye (or other) test performed: .

(c) Wetland Adjacency Determination with Non-TNW:

- ☐ Directly abutting
- ☐ Not directly abutting
  - ☐ Discrete wetland hydrologic connection. Explain: .
  - ☐ Ecological connection. Explain: .
  - ☐ Separated by berm/barrier. Explain: .

(d) Proximity (Relationship) to TNW

Project wetlands are **Pick List** river miles from TNW.

Project waters are **Pick List** aerial (straight) miles from TNW.

Flow is from: **Pick List.**

Estimate approximate location of wetland as within the **Pick List** floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: .

Identify specific pollutants, if known: .

(iii) Biological Characteristics. Wetland supports (check all that apply):

- ☐ Riparian buffer. Characteristics (type, average width): .
- ☐ Vegetation type/percent cover. Explain:Forested/ 100% cover.
- ☐ Habitat for:
  - ☐ Federally Listed species. Explain findings: .
  - ☐ Fish/spawn areas. Explain findings: .
  - ☐ Other environmentally-sensitive species. Explain findings: .
  - ☐ Aquatic/wildlife diversity. Explain findings: .

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **Pick List**

Approximately ( ) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)

Summarize overall biological, chemical and physical functions being performed: Typical depressional/flats function, surface and subsurface water storage, maintence of characteristic vegetation community and varrious biogeochemical functions.

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: .

2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
   - ☐ TNWs: linear feet width (ft), Or, acres.
   - ☐ Wetlands adjacent to TNWs: acres.

2. **RPWs that flow directly or indirectly into TNWs.**
   - ☐ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: .
   - ☒ Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: The tributary is a seasonal RPW at the flow analysis point based on annual rainfall, tributary profile/elevations, topography, soils, and drainage area..

Provide estimates for jurisdictional waters in the review area (check all that apply):
- ☐ Tributary waters: linear feet width (ft).
- ☐ Other non-wetland waters: acres.
  Identify type(s) of waters: .

3. **Non-RPWs[8] that flow directly or indirectly into TNWs.**
   ☐ Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

   Provide estimates for jurisdictional waters within the review area (check all that apply):
   - ☐ Tributary waters: linear feet width (ft).
   - ☐ Other non-wetland waters: acres.
     Identify type(s) of waters: .

4. **Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.**
   ☒ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
   - ☐ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

   - ☒ Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: wetlands connected to the on-site rpw which flows to Calico Creek and eventually to the Newport River.

   Provide acreage estimates for jurisdictional wetlands in the review area: ~ **1.4** acres.

5. **Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.**
   ☐ Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

   Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. **Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**
   ☐ Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

   Provide estimates for jurisdictional wetlands in the review area: acres.

7. **Impoundments of jurisdictional waters.[9]**
   As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
   - ☐ Demonstrate that impoundment was created from "waters of the U.S.," or
   - ☐ Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
   - ☐ Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):[10]
- ☐ which are or could be used by interstate or foreign travelers for recreational or other purposes.
- ☐ from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
- ☐ which are or could be used for industrial purposes by industries in interstate commerce.

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[8]See Footnote # 3.
[9] To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
[10] **Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos.***

☐ Interstate isolated waters. Explain:
☐ Other factors. Explain:

Identify water body and summarize rationale supporting determination:

Provide estimates for jurisdictional waters in the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters:
☐ Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):
☐ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
☐ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
☐ Prior to the Jan 2001 Supreme Court decision in "*SWANCC*," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).
☐ Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:
☐ Other: (explain, if not covered above):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):
☐ Non-wetland waters (i.e., rivers, streams): linear feet width (ft).
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource:
☐ Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):
☐ Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource:
☐ Wetlands: acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):
☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:
☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
☒ Office concurs with data sheets/delineation report.
☐ Office does not concur with data sheets/delineation report.
☐ Data sheets prepared by the Corps:
☐ Corps navigable waters' study:
☐ U.S. Geological Survey Hydrologic Atlas:
☐ USGS NHD data.
☐ USGS 8 and 12 digit HUC maps.
☒ U.S. Geological Survey map(s). Cite scale & quad name: Carteret County GIS Mosaic, 1:800'.
☒ USDA Natural Resources Conservation Service Soil Survey. Citation: NRCS Soil Survey GIS Data.
☐ National wetlands inventory map(s). Cite name:
☐ State/Local wetland inventory map(s):
☐ FEMA/FIRM maps:
☐ 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
☒ Photographs: ☒ Aerial (Name & Date):1998 NAPP and 2012 NC Onemap.
or ☐ Other (Name & Date): Site photographs.
☐ Previous determination(s). File no. and date of response letter:
☐ Applicable/supporting case law:
☐ Applicable/supporting scientific literature:
☒ Other information (please specify): LiDAR Map.

APPROVED JURISDICTIONAL DETERMINATION FORM
U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): July 24, 2018

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Wilmington District-WFO, Elijah's Landing, SAW-2018-00412

C. PROJECT LOCATION AND BACKGROUND INFORMATION:
State:North Carolina County/parish/borough: Carteret City: Morehead City
Center coordinates of site (lat/long in degree decimal format): Lat. 34.729263° N, Long. -76.746994° W.
Universal Transverse Mercator: 18 S 340043.65 m E 384411.29 m N
Name of nearest waterbody: Calico Creek
Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Newport River
Name of watershed or Hydrologic Unit Code (HUC): 03020106
☐ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
☐ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc…) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):
☐ Office (Desk) Determination. Date:
☒ Field Determination. Date(s): 3/8/2018

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are** "*navigable waters of the U.S.*" within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [*Required*]
☐ Waters subject to the ebb and flow of the tide.
☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.
Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **Pick List** "*waters of the U.S.*" within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [*Required*]

1. **Waters of the U.S.**
   a. **Indicate presence of waters of U.S. in review area (check all that apply):** [1]
      ☐ TNWs, including territorial seas
      ☐ Wetlands adjacent to TNWs
      ☒ Relatively permanent waters[2] (RPWs) that flow directly or indirectly into TNWs
      ☐ Non-RPWs that flow directly or indirectly into TNWs
      ☒ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
      ☐ Impoundments of jurisdictional waters
      ☐ Isolated (interstate or intrastate) waters, including isolated wetlands

   b. **Identify (estimate) size of waters of the U.S. in the review area:**
      Non-wetland waters: ~655 linear feet: 8 width (ft) and/or 0.1 acres.
      Wetlands: ~0.2 acres.

   c. **Limits (boundaries) of jurisdiction** based on: **1987 Delineation Manual**
      Elevation of established OHWM (if known): .

2. **Non-regulated waters/wetlands (check if applicable):**[3]
   ☐ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.
   Explain: .

[1] Boxes checked below shall be supported by completing the appropriate sections in Section III below.
[2] For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
[3] Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. **TNW**
   Identify TNW:

   Summarize rationale supporting determination:

2. **Wetland adjacent to TNW**
   Summarize rationale supporting conclusion that wetland is "adjacent":

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody[4] is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. **Characteristics of non-TNWs that flow directly or indirectly into TNW**

   (i) **General Area Conditions:**
   Watershed size: 0.73 **square miles**
   Drainage area: 0.73 **square miles**
   Average annual rainfall: 52.52 inches
   Average annual snowfall: 1.3 inches

   (ii) **Physical Characteristics:**
   (a) Relationship with TNW:
   ☒ Tributary flows directly into TNW.
   ☐ Tributary flows through **Pick List** tributaries before entering TNW.

   Project waters are **1-2** river miles from TNW.
   Project waters are **1-2** river miles from RPW.
   Project waters are **1-2** aerial (straight) miles from TNW.
   Project waters are **1-2** aerial (straight) miles from RPW.
   Project waters cross or serve as state boundaries. Explain:

   Identify flow route to TNW[5]: .Calico Creek flows directly into the Newport River

[4] Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
[5] Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

Tributary stream order, if known:

(b) General Tributary Characteristics (check all that apply):

Tributary is:
- ☒ Natural
- ☒ Artificial (man-made). Explain: approximately 800' is a man made ditch.
- ☐ Manipulated (man-altered). Explain:

Tributary properties with respect to top of bank (estimate):
Average width: 20 feet
Average depth: 2 feet
Average side slopes: **4:1 (or greater).**

Primary tributary substrate composition (check all that apply):

☐ Silts	☒ Sands	☐ Concrete
☐ Cobbles	☐ Gravel	☐ Muck
☐ Bedrock	☐ Vegetation. Type/% cover:	
☐ Other. Explain:		

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: appears stable.
Presence of run/riffle/pool complexes. Explain: not observed, coastal plain stream.
Tributary geometry: **Meandering**
Tributary gradient (approximate average slope): 2 %

(c) Flow:
Tributary provides for: **Seasonal flow**
Estimate average number of flow events in review area/year: **20 (or greater)**
Describe flow regime: Perennial.
Other information on duration and volume:

Surface flow is: **Discrete and confined.** Characteristics:

Subsurface flow: **Unknown**. Explain findings:
- ☐ Dye (or other) test performed:

Tributary has (check all that apply):
- ☒ Bed and banks
- ☒ OHWM[6] (check all indicators that apply):

☒ clear, natural line impressed on the bank	☒ the presence of litter and debris
☐ changes in the character of soil	☐ destruction of terrestrial vegetation
☐ shelving	☒ the presence of wrack line
☐ vegetation matted down, bent, or absent	☐ sediment sorting
☒ leaf litter disturbed or washed away	☐ scour
☒ sediment deposition	☐ multiple observed or predicted flow events
☐ water staining	☐ abrupt change in plant community
☐ other (list):	

- ☐ Discontinuous OHWM.[7] Explain:

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

☐ High Tide Line indicated by:	☐ Mean High Water Mark indicated by:
☐ oil or scum line along shore objects	☐ survey to available datum;
☐ fine shell or debris deposits (foreshore)	☐ physical markings;
☐ physical markings/characteristics	☐ vegetation lines/changes in vegetation types.
☐ tidal gauges	
☐ other (list):	

(iii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).
Explain:
Identify specific pollutants, if known: unknown.

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[6]A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
[7]Ibid.

(iv) Biological Characteristics. Channel supports (check all that apply):

- ☐ Riparian corridor. Characteristics (type, average width): .
- ☒ Wetland fringe. Characteristics: Typical coastal plain floodplain vegetation.
- ☐ Habitat for:
  - ☐ Federally Listed species. Explain findings: .
  - ☐ Fish/spawn areas. Explain findings: .
  - ☐ Other environmentally-sensitive species. Explain findings: .
  - ☐ Aquatic/wildlife diversity. Explain findings: .

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

(a) General Wetland Characteristics:

Properties:

Wetland size: acres

Wetland type. Explain: .

Wetland quality. Explain: .

Project wetlands cross or serve as state boundaries. Explain: .

(b) General Flow Relationship with Non-TNW:

Flow is: **Pick List**. Explain: Wetland surface water releases at higher rain events. Wetlands flow into the culvert and then into the tributary.

Surface flow is: **Pick List**

Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .

- ☐ Dye (or other) test performed: .

(c) Wetland Adjacency Determination with Non-TNW:

- ☐ Directly abutting
- ☐ Not directly abutting
  - ☐ Discrete wetland hydrologic connection. Explain: .
  - ☐ Ecological connection. Explain: .
  - ☐ Separated by berm/barrier. Explain: .

(d) Proximity (Relationship) to TNW

Project wetlands are **Pick List** river miles from TNW.

Project waters are **Pick List** aerial (straight) miles from TNW.

Flow is from: **Pick List.**

Estimate approximate location of wetland as within the **Pick List** floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: .

Identify specific pollutants, if known: .

(iii) Biological Characteristics. Wetland supports (check all that apply):

- ☐ Riparian buffer. Characteristics (type, average width): .
- ☐ Vegetation type/percent cover. Explain:Forested/ 100% cover.
- ☐ Habitat for:
  - ☐ Federally Listed species. Explain findings: .
  - ☐ Fish/spawn areas. Explain findings: .
  - ☐ Other environmentally-sensitive species. Explain findings: .
  - ☐ Aquatic/wildlife diversity. Explain findings: .

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **Pick List**

Approximately ( ) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)

Summarize overall biological, chemical and physical functions being performed: .

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: .

2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
   - ☐ TNWs: linear feet width (ft), Or, acres.
   - ☐ Wetlands adjacent to TNWs: acres.

2. **RPWs that flow directly or indirectly into TNWs.**
   - ☒ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: Large drainage area with substantial local floodplain. .
   - ☐ Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: .

Provide estimates for jurisdictional waters in the review area (check all that apply):
☒ Tributary waters: **1900** linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .

3. **Non-RPWs[8] that flow directly or indirectly into TNWs.**
☐ Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .

4. **Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.**
☒ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
☒ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: **Wetlands fall within floodplain of Calico Creek.**

☐ Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

Provide acreage estimates for jurisdictional wetlands in the review area: **0.2** acres.

5. **Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.**
☐ Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. **Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**
☐ Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. **Impoundments of jurisdictional waters.[9]**
As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
☐ Demonstrate that impoundment was created from "waters of the U.S.," or
☐ Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
☐ Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):[10]
☐ which are or could be used by interstate or foreign travelers for recreational or other purposes.
☐ from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
☐ which are or could be used for industrial purposes by industries in interstate commerce.
☐ Interstate isolated waters. Explain: .
☐ Other factors. Explain: .

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[8] See Footnote # 3.
[9] To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
[10] **Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos.***

Identify water body and summarize rationale supporting determination: .

Provide estimates for jurisdictional waters in the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .
☐ Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):
☐ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
☐ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
☐ Prior to the Jan 2001 Supreme Court decision in "*SWANCC*," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).
☐ Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: .
☐ Other: (explain, if not covered above): .

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):
☐ Non-wetland waters (i.e., rivers, streams): linear feet width (ft).
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource: .
☐ Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that **do not meet the "Significant Nexus"** standard, where such a finding is required for jurisdiction (check all that apply):
☐ Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource: .
☐ Wetlands: acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):
☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: .
☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
☒ Office concurs with data sheets/delineation report.
☐ Office does not concur with data sheets/delineation report.
☐ Data sheets prepared by the Corps: .
☐ Corps navigable waters' study: .
☐ U.S. Geological Survey Hydrologic Atlas: .
☐ USGS NHD data.
☐ USGS 8 and 12 digit HUC maps.
☒ U.S. Geological Survey map(s). Cite scale & quad name: Carteret County GIS Mosaic, 1:800'.
☒ USDA Natural Resources Conservation Service Soil Survey. Citation: NRCS Soils Survey GIS Data.
☐ National wetlands inventory map(s). Cite name: .
☐ State/Local wetland inventory map(s): .
☐ FEMA/FIRM maps: .
☐ 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
☒ Photographs: ☒ Aerial (Name & Date):1998 NAPP and 2012 NC Onemap .
or ☒ Other (Name & Date): Site photographs.
☐ Previous determination(s). File no. and date of response letter: .
☐ Applicable/supporting case law: .
☐ Applicable/supporting scientific literature: .
☒ Other information (please specify): LiDAR map .

B. ADDITIONAL COMMENTS TO SUPPORT JD: .

NC WAM FIELD ASSESSMENT FORM
Accompanies User Manual Version 5.0

USACE AID #	SAW-2018-00412	NCDWR#	
Project Name	Elijah's Landing	Date of Evaluation	8/2/2018
Applicant/Owner Name	East Carolina Community Development Inc	Wetland Site Name	Wetland 1
Wetland Type	Headwater Forest	Assessor Name/Organization	Wes Fryar / Land Management Group
Level III Ecoregion	Middle Atlantic Coastal Plain	Nearest Named Water Body	Calico Creek
River Basin	White Oak	USGS 8-Digit Catalogue Unit	03020301
County	Carteret	NCDWR Region	Wilmington
☒ Yes ☐ No	Precipitation within 48 hrs?	Latitude/Longitude (deci-degrees)	34.729263/-76.746994

Evidence of stressors affecting the assessment area (may not be within the assessment area)
Please circle and/or make note on the last page if evidence of stressors is apparent. Consider departure from reference, if appropriate, in recent past (for instance, within 10 years). Noteworthy stressors include, but are not limited to the following.

- Hydrological modifications (examples: ditches, dams, beaver dams, dikes, berms, ponds, etc.)
- Surface and sub-surface discharges into the wetland (examples: discharges containing obvious pollutants, presence of nearby septic tanks, underground storage tanks (USTs), hog lagoons, etc.)
- Signs of vegetation stress (examples: vegetation mortality, insect damage, disease, storm damage, salt intrusion, etc.)
- Habitat/plant community alteration (examples: mowing, clear-cutting, exotics, etc.)

Is the assessment area intensively managed? ☐ Yes ☒ No

Regulatory Considerations - Were regulatory considerations evaluated? ☒Yes ☐No If Yes, check all that apply to the assessment area.

☐ Anadromous fish
☐ Federally protected species or State endangered or threatened species
☐ NCDWR riparian buffer rule in effect
☐ Abuts a Primary Nursery Area (PNA)
☐ Publicly owned property
☐ N.C. Division of Coastal Management Area of Environmental Concern (AEC) (including buffer)
☒ Abuts a stream with a NCDWQ classification of SA or supplemental classifications of HQW, ORW, or Trout
☐ Designated NCNHP reference community
☐ Abuts a 303(d)-listed stream or a tributary to a 303(d)-listed stream

What type of natural stream is associated with the wetland, if any? (check all that apply)

☒ Blackwater
☐ Brownwater
☐ Tidal (if tidal, check one of the following boxes) ☐ Lunar ☐ Wind ☐ Both

Is the assessment area on a coastal island? ☐ Yes ☒ No

Is the assessment area's surface water storage capacity or duration substantially altered by beaver? ☐ Yes ☒ No

Does the assessment area experience overbank flooding during normal rainfall conditions? ☐ Yes ☒ No

1. Ground Surface Condition/Vegetation Condition – assessment area condition metric

Check a box in each column. Consider alteration to the ground surface (GS) in the assessment area and vegetation structure (VS) in the assessment area. Compare to reference wetland if applicable (see User Manual). If a reference is not applicable, then rate the assessment area based on evidence an effect.

GS	VS	
☐A	☐A	Not severely altered
☒B	☒B	Severely altered over a majority of the assessment area (ground surface alteration examples: vehicle tracks, excessive sedimentation, fire-plow lanes, skidder tracks, bedding, fill, soil compaction, obvious pollutants) (vegetation structure alteration examples: mechanical disturbance, herbicides, salt intrusion [where appropriate], exotic species, grazing, less diversity [if appropriate], hydrologic alteration)

2. Surface and Sub-Surface Storage Capacity and Duration – assessment area condition metric

Check a box in each column. Consider surface storage capacity and duration (Surf) and sub-surface storage capacity and duration (Sub). Consider both increase and decrease in hydrology. A ditch ≤ 1 foot deep is considered to affect surface water only, while a ditch > 1 foot deep is expected to affect both surface and sub-surface water. Consider tidal flooding regime, if applicable.

Surf	Sub	
☐A	☐A	Water storage capacity and duration are not altered.
☒B	☒B	Water storage capacity or duration are altered, but not substantially (typically, not sufficient to change vegetation).
☐C	☐C	Water storage capacity or duration are substantially altered (typically, alteration sufficient to result in vegetation change) (examples: draining, flooding, soil compaction, filling, excessive sedimentation, underground utility lines).

3. Water Storage/Surface Relief – assessment area/wetland type condition metric (skip for all marshes)

Check a box in each column. Select the appropriate storage for the assessment area (AA) and the wetland type (WT).

	AA	WT	
3a.	☐A	☐A	Majority of wetland with depressions able to pond water > 1 deep
	☒B	☒B	Majority of wetland with depressions able to pond water 6 inches to 1 foot deep
	☐C	☐C	Majority of wetland with depressions able to pond water 3 to 6 inches deep
	☐D	☐D	Depressions able to pond water < 3 inches deep

3b. ☐A Evidence that maximum depth of inundation is greater than 2 feet
☐B Evidence that maximum depth of inundation is between 1 and 2 feet
☐C Evidence that maximum depth of inundation is less than 1 foot

4. Soil Texture/Structure – assessment area condition metric (skip for all marshes)

Check a box from each of the three soil property groups below. Dig soil profile in the dominant assessment area landscape feature. Make soil observations within the top 12 inches. Use most recent National Technical Committee for Hydric Soils guidance for regional indicators.

4a.
- ☐A Sandy soil
- ☒B Loamy or clayey soils exhibiting redoximorphic features (concentrations, depletions, or rhizospheres)
- ☐C Loamy or clayey soils not exhibiting redoximorphic features
- ☐D Loamy or clayey gleyed soil
- ☐E Histosol or histic epipedon

4b.
- ☒A Soil ribbon < 1 inch
- ☐B Soil ribbon ≥ 1 inch

4c.
- ☒A No peat or muck presence
- ☐B A peat or muck presence

5. Discharge into Wetland – opportunity metric

Check a box in each column. Consider surface pollutants or discharges (Surf) and sub-surface pollutants or discharges (Sub). Examples of sub-surface discharges include presence of nearby septic tank, underground storage tank (UST), etc.

Surf	Sub	
☐A	☐A	Little or no evidence of pollutants or discharges entering the assessment area
☒B	☒B	Noticeable evidence of pollutants or discharges entering the wetland and stressing, but not overwhelming the treatment capacity of the assessment area
☐C	☐C	Noticeable evidence of pollutants or discharges (pathogen, particulate, or soluble) entering the assessment area and potentially overwhelming the treatment capacity of the wetland (water discoloration, dead vegetation, excessive sedimentation, odor)

6. Land Use – opportunity metric (skip for non-riparian wetlands)

Check all that apply (at least one box in each column). Evaluation involves a GIS effort with field adjustment. Consider sources draining to assessment area within entire upstream watershed (WS), within 5 miles and within the watershed draining to the assessment area (5M), and within 2 miles and within the watershed draining to the assessment area (2M).

WS	5M	2M	
☒A	☐A	☐A	≥ 10% impervious surfaces
☐B	☐B	☐B	Confined animal operations (or other local, concentrated source of pollutants
☐C	☐C	☐C	≥ 20% coverage of pasture
☐D	☐D	☐D	≥ 20% coverage of agricultural land (regularly plowed land)
☐E	☐E	☐E	≥ 20% coverage of maintained grass/herb
☐F	☐F	☐F	≥ 20% coverage of clear-cut land
☐G	☒G	☒G	Little or no opportunity to improve water quality. Lack of opportunity may result from little or no disturbance in the watershed or hydrologic alterations that prevent drainage and/or overbank flow from affecting the assessment area.

7. Wetland Acting as Vegetated Buffer – assessment area/wetland complex condition metric (skip for non-riparian wetlands)

7a. Is assessment area within 50 feet of a tributary or other open water?
☒Yes ☐No If Yes, continue to 7b. If No, skip to Metric 8.
Wetland buffer need only be present on one side of the water body. Make buffer judgment based on the average width of wetland. Record a note if a portion of the buffer has been removed or disturbed.

7b. How much of the first 50 feet from the bank is wetland? (Wetland buffer need only be present on one side of the .water body. Make buffer judgment based on the average width of wetland. Record a note if a portion of the buffer has been removed or disturbed.)
- ☒A ≥ 50 feet
- ☐B From 30 to < 50 feet
- ☐C From 15 to < 30 feet
- ☐D From 5 to < 15 feet
- ☐E < 5 feet or buffer bypassed by ditches

7c. Tributary width. If the tributary is anastomosed, combine widths of channels/braids for a total width.
☒≤ 15-feet wide ☐> 15-feet wide ☐ Other open water (no tributary present)

7d. Do roots of assessment area vegetation extend into the bank of the tributary/open water?
☒Yes ☐No

7e. Is stream or other open water sheltered or exposed?
- ☒Sheltered – adjacent open water with width < 2500 feet and no regular boat traffic.
- ☐Exposed – adjacent open water with width ≥ 2500 feet or regular boat traffic.

8. Wetland Width at the Assessment Area – wetland type/wetland complex condition metric (evaluate WT for all marshes and Estuarine Woody Wetland only; evaluate WC for Bottomland Hardwood Forest, Headwater Forest, and Riverine Swamp Forest only)

Check a box in each column for riverine wetlands only. Select the average width for the wetland type at the assessment area (WT) and the wetland complex at the assessment area (WC). See User Manual for WT and WC boundaries.

WT	WC	
☐A	☒A	≥ 100 feet
☐B	☐B	From 80 to < 100 feet
☐C	☐C	From 50 to < 80 feet
☐D	☐D	From 40 to < 50 feet
☐E	☐E	From 30 to < 40 feet
☐F	☐F	From 15 to < 30 feet
☐G	☐G	From 5 to < 15 feet
☐H	☐H	< 5 feet

9. Inundation Duration – assessment area condition metric (skip for non-riparian wetlands)

Answer for assessment area dominant landform.

☐A Evidence of short-duration inundation (< 7 consecutive days)
☐B Evidence of saturation, without evidence of inundation
☒C Evidence of long-duration inundation or very long-duration inundation (7 to 30 consecutive days or more)

10. Indicators of Deposition – assessment area condition metric (skip for non-riparian wetlands and all marshes)

Consider recent deposition only (no plant growth since deposition).

☒A Sediment deposition is not excessive, but at approximately natural levels.
☐B Sediment deposition is excessive, but not overwhelming the wetland.
☐C Sediment deposition is excessive and is overwhelming the wetland.

11. Wetland Size – wetland type/wetland complex condition metric

Check a box in each column. Involves a GIS effort with field adjustment. This metric evaluates three aspects of the wetland area: the size of the wetland type (WT), the size of the wetland complex (WC), and the size of the forested wetland (FW) (if applicable, see User Manual). See the User Manual for boundaries of these evaluation areas. If assessment area is clear-cut, select "K" for the FW column.

WT	WC	FW (if applicable)	
☐A	☐A	☐A	≥ 500 acres
☐B	☐B	☐B	From 100 to < 500 acres
☐C	☐C	☐C	From 50 to < 100 acres
☐D	☐D	☐D	From 25 to < 50 acres
☐E	☐E	☒E	From 10 to < 25 acres
☐F	☐F	☐F	From 5 to < 10 acres
☒G	☒G	☐G	From 1 to < 5 acres
☐H	☐H	☐H	From 0.5 to < 1 acre
☐I	☐I	☐I	From 0.1 to < 0.5 acre
☐J	☐J	☐J	From 0.01 to < 0.1 acre
☐K	☐K	☐K	< 0.01 acre or assessment area is clear-cut

12. Wetland Intactness – wetland type condition metric (evaluate for Pocosins only)

☐A Pocosin is the full extent (≥ 90%) of its natural landscape size.
☐B Pocosin type is < 90% of the full extent of its natural landscape size.

13. Connectivity to Other Natural Areas – landscape condition metric

13a. **Check appropriate box(es) (a box may be checked in each column).** Involves a GIS effort with field adjustment. This metric evaluates whether the wetland is well connected (Well) and/or loosely connected (Loosely) to the landscape patch, the contiguous naturally vegetated area and open water (if appropriate). Boundaries are formed by four-lane roads, regularly maintained utility line corridors the width of a four-lane road or wider, urban landscapes, maintained fields (pasture and agriculture), or open water > 300 feet wide.

Well	Loosely	
☒A	☐A	≥ 500 acres
☐B	☐B	From 100 to < 500 acres
☐C	☐C	From 50 to < 100 acres
☐D	☐D	From 10 to < 50 acres
☐E	☐E	< 10 acres
☐F	☐F	Wetland type has a poor or no connection to other natural habitats

13b. **Evaluate for marshes only**.

☐Yes ☐No Wetland type has a surface hydrology connection to open waters/stream or tidal wetlands.

14. Edge Effect – wetland type condition metric (skip for all marshes and Estuarine Woody Wetland)

May involve a GIS effort with field adjustment. Estimate distance from wetland type boundary to artificial edges. Artificial edges include non-forested areas ≥ 40 feet wide such as fields, development, roads, regularly maintained utility line corridors, and clear-cuts. Consider the eight main points of the compass. Artificial edge occurs within 150 feet in how many directions? If the assessment area is clear cut, select option "C."

☐A 0
☐B 1 to 4
☒C 5 to 8

15. Vegetative Composition – assessment area condition metric (skip for all marshes and Pine Flat)

☐A Vegetation is close to reference condition in species present and their proportions. Lower strata composed of appropriate species, with exotic plants absent or sparse within the assessment area.
☒B Vegetation is different from reference condition in species diversity or proportions, but still largely composed of native species characteristic of the wetland type. This may include communities of weedy native species that develop after clearcutting or clearing. It also includes communities with exotics present, but not dominant, over a large portion of the expected strata.
☐C Vegetation severely altered from reference in composition, or expected species are unnaturally absent (planted stands of non-characteristic species or at least one stratum inappropriately composed of a single species), or exotic species are dominant in at least one stratum.

16. Vegetative Diversity – assessment area condition metric (evaluate for Non-tidal Freshwater Marsh only)

☐A Vegetation diversity is high and is composed primarily of native species (< 10% cover of exotics).
☐B Vegetation diversity is low or has > 10% to 50% cover of exotics.
☐C Vegetation is dominated by exotic species (> 50 % cover of exotics).

17. Vegetative Structure – assessment area/wetland type condition metric

17a. Is vegetation present?
☒Yes ☐No If Yes, continue to 17b. If No, skip to Metric 18.

17b. Evaluate percent coverage of assessment area vegetation **for all marshes only**. Skip to 17c for non-marsh wetlands.
☐A ≥ 25% coverage of vegetation
☐B < 25% coverage of vegetation

17c. **Check a box in each column for each stratum**. Evaluate this portion of the metric **for non-marsh wetlands**. Consider structure in airspace above the assessment area (AA) and the wetland type (WT) separately.

	AA	WT	
Canopy	☒A	☒A	Canopy closed, or nearly closed, with natural gaps associated with natural processes
	☐B	☐B	Canopy present, but opened more than natural gaps
	☐C	☐C	Canopy sparse or absent
Mid-Story	☐A	☐A	Dense mid-story/sapling layer
	☒B	☒B	Moderate density mid-story/sapling layer
	☐C	☐C	Mid-story/sapling layer sparse or absent
Shrub	☐A	☐A	Dense shrub layer
	☒B	☒B	Moderate density shrub layer
	☐C	☐C	Shrub layer sparse or absent
Herb	☐A	☐A	Dense herb layer
	☒B	☒B	Moderate density herb layer
	☐C	☐C	Herb layer sparse or absent

18. Snags – wetland type condition metric (skip for all marshes)

☐A Large snags (more than one) are visible (> 12 inches DBH, or large relative to species present and landscape stability).
☒B Not A

19. Diameter Class Distribution – wetland type condition metric (skip for all marshes)

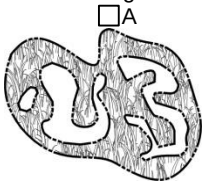
☐A Majority of canopy trees have stems > 6 inches in diameter at breast height (DBH); many large trees (> 12 inches DBH) are present.
☐B Majority of canopy trees have stems between 6 and 12 inches DBH, few are > 12 inch DBH.
☒C Majority of canopy trees are < 6 inches DBH or no trees.

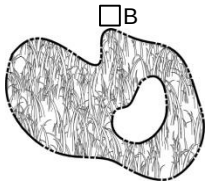
20. Large Woody Debris – wetland type condition metric (skip for all marshes)

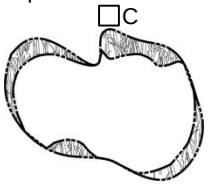
Include both natural debris and man-placed natural debris.
☐A Large logs (more than one) are visible (> 12 inches in diameter, or large relative to species present and landscape stability).
☒B Not A

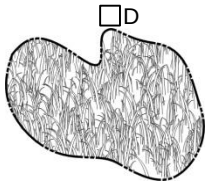
21. Vegetation/Open Water Dispersion – wetland type/open water condition metric (evaluate for Non-Tidal Freshwater Marsh only)

Select the figure that best describes the amount of interspersion between vegetation and open water in the growing season. Patterned areas indicate vegetated areas, while solid white areas indicate open water.

☐A 

☐B 

☐C 

☐D 

22. Hydrologic Connectivity – assessment area condition metric (evaluate for riparian wetlands and Salt/Brackish Marsh only)

Examples of activities that may severely alter hydrologic connectivity include intensive ditching, fill, sedimentation, channelization, diversion, man-made berms, beaver dams, and stream incision. Documentation required if evaluated as B, C, or D.
☐A Overbank and overland flow are not severely altered in the assessment area.
☐B Overbank flow is severely altered in the assessment area.
☐C Overland flow is severely altered in the assessment area.
☒D Both overbank and overland flow are severely altered in the assessment area.

Notes
Wetlands are bound on western side by a large retaining wall. Flow is diverted north and into an unnamed tributary to Calico Creek which has been channelized in the past. Lots of trash and debris were noted in the wetland. Some cloudy water was noted entering the wetland from small ditches entering from the cleared area to the north.

NC WAM Wetland Rating Sheet
Accompanies User Manual Version 5.0

Wetland Site Name	Wetland 1	Date of Assessment	8/2/2018
Wetland Type	Headwater Forest	Assessor Name/Organization	Wes Fryar / Land Management Group

Notes on Field Assessment Form (Y/N)	YES
Presence of regulatory considerations (Y/N)	YES
Wetland is intensively managed (Y/N)	NO
Assessment area is located within 50 feet of a natural tributary or other open water (Y/N)	YES
Assessment area is substantially altered by beaver (Y/N)	NO
Assessment area experiences overbank flooding during normal rainfall conditions (Y/N)	NO
Assessment area is on a coastal island (Y/N)	NO

Sub-function Rating Summary

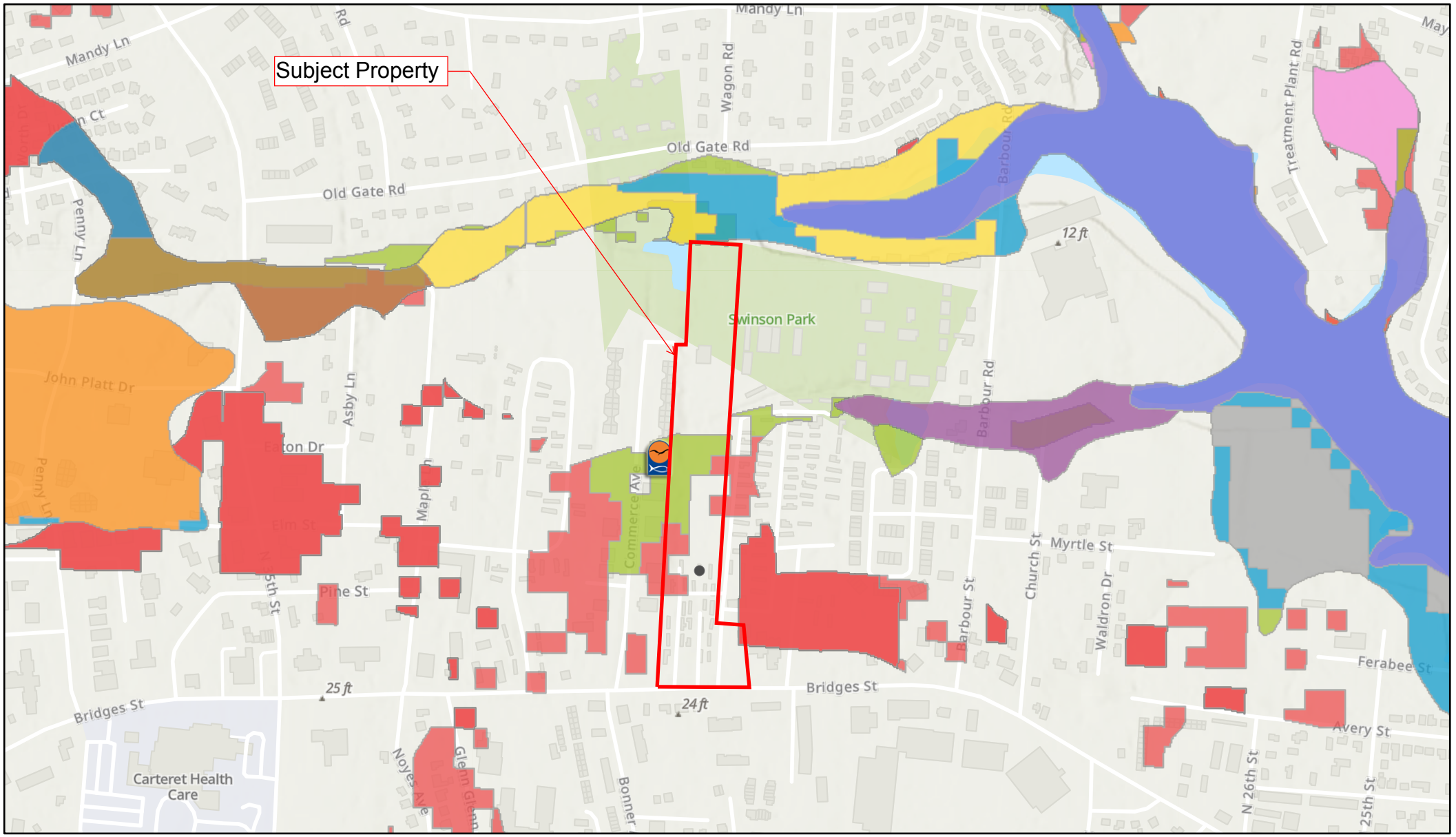
Function	Sub-function	Metrics	Rating
Hydrology	Surface Storage and Retention	Condition	**LOW**
	Sub-surface Storage and Retention	Condition	**HIGH**
Water Quality	Pathogen Change	Condition	**LOW**
		Condition/Opportunity	**LOW**
		Opportunity Presence (Y/N)	**NO**
	Particulate Change	Condition	**LOW**
		Condition/Opportunity	NA
		Opportunity Presence (Y/N)	NA
	Soluble Change	Condition	**LOW**
		Condition/Opportunity	**LOW**
		Opportunity Presence (Y/N)	**NO**
	Physical Change	Condition	**LOW**
		Condition/Opportunity	**LOW**
		Opportunity Presence (Y/N)	**NO**
	Pollution Change	Condition	NA
		Condition/Opportunity	NA
		Opportunity Presence (Y/N)	NA
Habitat	Physical Structure	Condition	**LOW**
	Landscape Patch Structure	Condition	**HIGH**
	Vegetation Composition	Condition	**MEDIUM**

Function Rating Summary

Function	Metrics	Rating
Hydrology	Condition	**MEDIUM**
Water Quality	Condition	**LOW**
	Condition/Opportunity	**LOW**
	Opportunity Presence (Y/N)	**NO**
Habitat	Condition	**LOW**

Overall Wetland Rating **LOW**

Division of Coastal Management



12/22/2020, 2:51:59 PM

DCM Office Locations

DCM

Wetlands

Other

Managed Pineland

Cutover

Cleared

Depressional Swamp Forest

Pine Flat

Bottomland Hardwood

Hardwood Flat

Drained

Freshwater Marsh

Salt/Brackish Marsh

Restoration & Enhancement

Salt/Brackish Marsh

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

NC Department of Environmental Quality

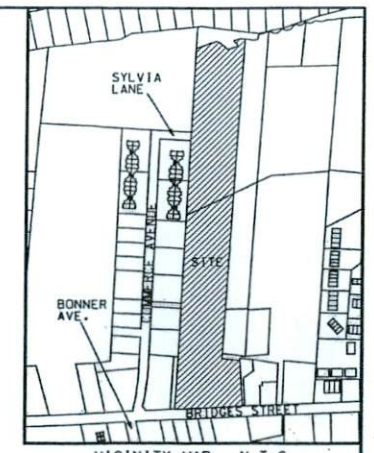
2017

SEE REFERENCE MAP

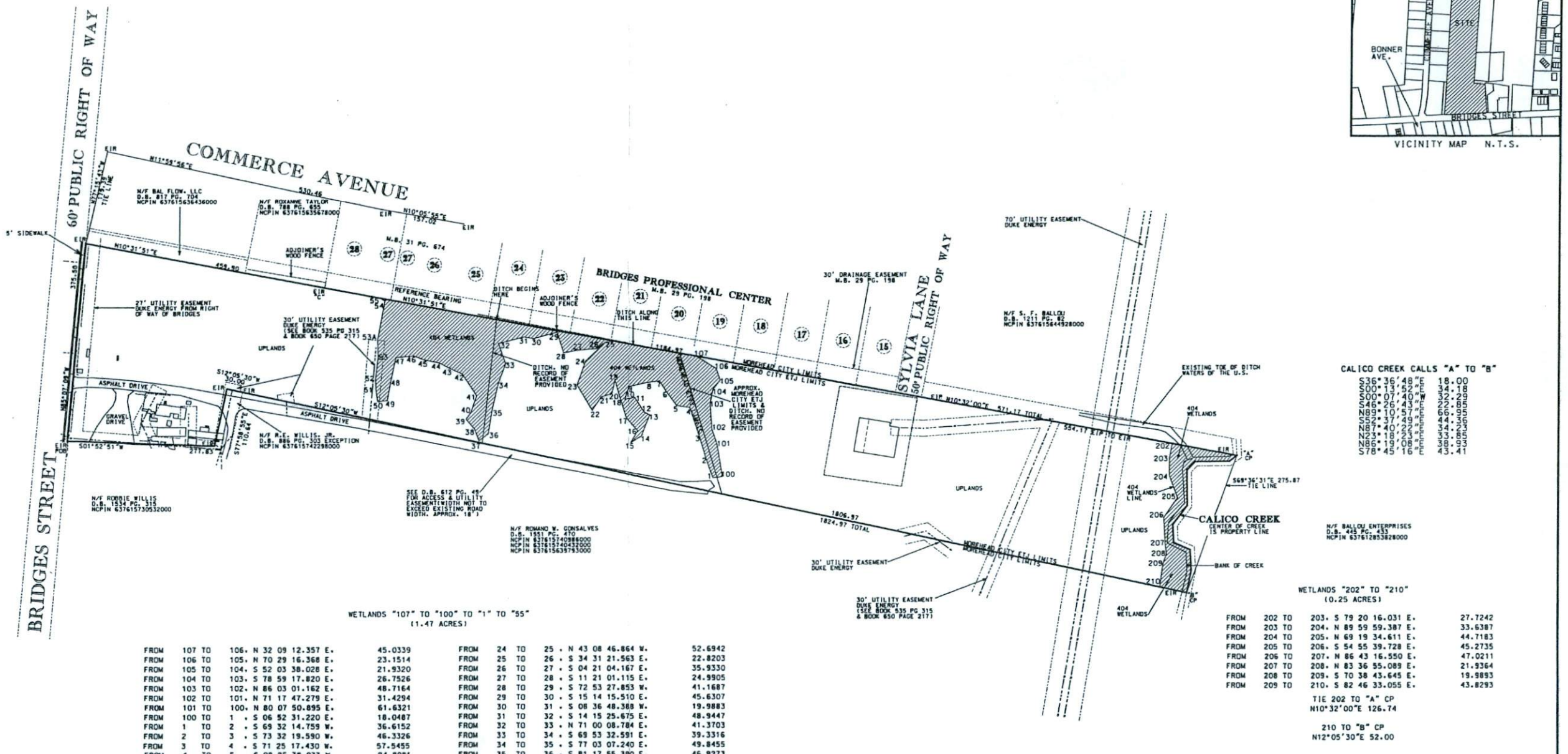
NORTH

REFERENCE MAP
SEE SURVEY FOR WILLIS MOBILE HOME PARK #1 FOR LOTS MATTHEWS C/O HARVELL AND COLLINS, P.A. BY PRESTIGE LAND SURVEYING, P.A. DATED JUNE 29, 2016.

NOTES:
1) THIS SURVEY IS OF EXISTING PARCELS OF LAND
2) AREA BY COORDINATES.
3) THIS MAP IS NOT FOR RECORDING.
4) TRACT AREA = 12.76 ACRES
5) NO POINTS SET IN CALICO CREEK.
6) NO TREES LOCATED OR SHOWN.
7) WETLANDS LINES FIELD APPROVED BY TOM CHARLES OF USACOE ON 3/18/18.



VICINITY MAP N.T.S.



CALICO CREEK CALLS "A" TO "B"

S36°36'48"E		18.00
S00°13'52"E		34.18
S00°07'40"W		32.29
S46°26'43"E		22.65
N89°10'57"E		66.35
S52°37'49"E		44.36
N87°40'22"E		34.23
N29°18'33"E		53.85
N86°19'08"E		38.93
S78°45'16"E		43.41

WETLANDS "107" TO "100" TO "1" TO "55"
(1.47 ACRES)

FROM	107	TO	106.	N 32 09 12.357 E.	45.0339
FROM	106	TO	105.	N 70 29 16.368 E.	23.1514
FROM	105	TO	104.	S 52 03 38.028 E.	21.9320
FROM	104	TO	103.	S 78 59 17.820 E.	26.7526
FROM	103	TO	102.	N 86 03 01.162 E.	48.7164
FROM	102	TO	101.	N 71 17 47.279 E.	31.4294
FROM	101	TO	100.	N 80 07 50.895 E.	61.6321
FROM	100	TO	1	. S 06 52 31.220 E.	18.0487
FROM	1	TO	2	. S 69 32 14.759 W.	36.6152
FROM	2	TO	3	. S 73 32 19.590 W.	46.3326
FROM	3	TO	4	. S 71 25 17.430 W.	57.5455
FROM	4	TO	5	. S 08 25 38.033 W.	24.8081
FROM	5	TO	6	. S 53 21 04.953 W.	35.2206
FROM	6	TO	7	. S 58 29 02.209 W.	21.9799
FROM	7	TO	8	. S 07 16 00.118 E.	20.3545
FROM	8	TO	9	. S 12 27 58.460 E.	38.7762
FROM	9	TO	10	. S 71 41 33.431 E.	25.2529
FROM	10	TO	11	. N 10 34 39.621 W.	19.9277
FROM	11	TO	12	. N 56 35 38.105 E.	33.2834
FROM	12	TO	13	. N 27 30 29.022 E.	11.7660
FROM	13	TO	14	. S 69 24 57.405 E.	42.5691
FROM	14	TO	15	. S 31 33 16.904 E.	24.5800
FROM	15	TO	16	. N 58 57 30.719 W.	26.3892
FROM	16	TO	17	. S 47 07 14.559 W.	33.4436
FROM	17	TO	18	. S 72 11 40.373 W.	40.6964
FROM	18	TO	19	. S 73 08 32.840 W.	34.2277
FROM	19	TO	20	. S 77 11 00.818 E.	25.6185
FROM	20	TO	21	. S 18 37 50.673 E.	21.6541
FROM	21	TO	22	. S 55 10 36.616 E.	30.5135
FROM	22	TO	23	. S 59 32 10.219 W.	55.4969
FROM	23	TO	24	. N 71 05 13.133 W.	48.3904
FROM	24	TO	25	. N 43 08 46.864 W.	52.6942
FROM	25	TO	26	. S 34 31 21.563 E.	22.8203
FROM	26	TO	27	. S 04 21 04.167 E.	35.9330
FROM	27	TO	28	. S 11 21 01.115 E.	24.9905
FROM	28	TO	29	. S 72 53 27.853 W.	41.1687
FROM	29	TO	30	. S 15 14 15.510 E.	45.6307
FROM	30	TO	31	. S 08 36 48.388 W.	19.9883
FROM	31	TO	32	. S 14 15 25.675 E.	48.9447
FROM	32	TO	33	. N 71 00 08.784 E.	41.3703
FROM	33	TO	34	. S 69 53 32.591 E.	39.3316
FROM	34	TO	35	. S 77 03 07.240 E.	49.8455
FROM	35	TO	36	. S 81 17 55.390 E.	46.9273
FROM	36	TO	37	. S 36 37 28.323 E.	22.1886
FROM	37	TO	38	. S 69 28 22.585 W.	22.9274
FROM	38	TO	39	. S 49 41 34.550 W.	25.2133
FROM	39	TO	40	. N 56 14 46.782 W.	15.6651
FROM	40	TO	41	. N 70 52 53.689 W.	33.1483
FROM	41	TO	42	. S 56 42 53.467 W.	49.1388
FROM	42	TO	43	. S 24 41 37.732 W.	25.4590
FROM	43	TO	44	. S 27 11 52.175 W.	23.2317
FROM	44	TO	45	. S 11 09 35.636 W.	29.8304
FROM	45	TO	46	. S 21 44 26.235 W.	19.8129
FROM	46	TO	47	. S 04 43 32.402 E.	34.7454
FROM	47	TO	48	. S 78 15 29.866 E.	45.2570
FROM	48	TO	49	. S 80 03 50.869 E.	38.0879
FROM	49	TO	50	. S 04 58 28.820 E.	17.6635
FROM	50	TO	51	. S 81 31 25.493 W.	21.7911
FROM	51	TO	52	. S 87 13 40.116 W.	20.3391
FROM	52	TO	53	. N 83 47 04.798 W.	42.3699
FROM	53	TO	53A.	S 88 34 49.269 W.	33.1625
FROM	53A	TO	54	. N 80 06 48.992 W.	74.0551
FROM	54	TO	55	. S 33 00 12.349 W.	10.4607

TIE 55 TO EIR "C"
S10°31'51"W 106.52

55 TO 107
N10°31'51"E 607.22

WETLANDS "202" TO "210"
(0.25 ACRES)

FROM	202	TO	203.	S 79 20 16.031 E.	27.7242
FROM	203	TO	204.	N 89 59 59.387 E.	33.6387
FROM	204	TO	205.	N 69 19 34.611 E.	44.7183
FROM	205	TO	206.	S 54 55 39.728 E.	45.2735
FROM	206	TO	207.	N 86 43 16.550 E.	47.0211
FROM	207	TO	208.	N 83 36 55.089 E.	21.9364
FROM	208	TO	209.	S 70 38 43.645 E.	19.9893
FROM	209	TO	210.	S 82 46 33.055 E.	43.8293

TIE 202 TO "A" CP
N10°32'00"E 126.74

210 TO "B" CP
N12°05'30"E 52.00

LEGEND

EIR	EXISTING IRON ROD
EIP	EXISTING IRON PIPE
EPK	EXISTING PK NAIL
ECM	EXISTING CONC. MON.
EMRS	EXISTING R/S SPIKE
SIR	SET IRON ROD
CP	CALCULATED POINT
NHW	NEAR HIGH WATER
N/F	NOW OR FORMERLY
MB	MAP BOOK
DB	DEED BOOK
PG	PAGE
PP	POWER POLE
LP	LIGHT POLE
OE	OVERHEAD ELECTRIC
ELEC	ELECTRICAL PEDESTAL
TRANS	ELEC. TRANSFORMER
TEL	TELEPHONE PEDESTAL
TV	CABLE TV PEDESTAL
WM	WATER METER
CO	CLEAN OUT
SWSH	SINGLE WIDE MOBILE HOME
SD	SHED
DS	DANCE STUDIO
SSMH	SANITARY SEWER MANHOLE

100 50 0 100 200
SCALE: 1" = 100'

PROJECT #: PM858S-29

THIS CERTIFIES THAT THIS COPY OF THIS PLAT ACCURATELY DEPICTS THE BOUNDARY OF JURISDICTION OF SECTION 404 OF PUBLIC LAW 92-500, AS DETERMINED BY THE UNDERSIGNED ON THIS DATE. THIS DETERMINATION IS VALID FOR A PERIOD OF FIVE YEARS FROM THIS DATE UNLESS NEW INFORMATION REQUIRES REVISIONS BEFORE THAT TIME. THIS DELINEATION WAS PERFORMED USING THE METHODOLOGY SPECIFIED IN THE 1987 U.S. ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL.

REGULATORY OFFICIAL: _____

TITLE: RG

DATE: 7/24/18

USACE ACTION ID No.: SAW-2018-00412

I, E. GLENN CORBETT, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN BOOKS AS NOTED; THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN BOOKS AS NOTED; THAT THE RATIO OF PRECISION AS CALCULATED IS 1:10,000+; THAT THIS PLAT MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA(21 NCAC 56, 1600) THIS 24TH DAY OF MAY, 2018

_____
PROFESSIONAL LAND SURVEYOR

L-3407
LICENSE NUMBER

NORTH CAROLINA PROFESSIONAL SEAL L-3407 LAND SURVEYOR E. GLENN CORBETT

REFERENCES:
OWNER: N/F LOIS WILLIS MATTHEWS
D.B. 876 PG. 585
NCPIN 6376156648235000
ADDRESS: 3200 BRIDGES STREET
NCPIN 6376156499070000
ADDRESS: 3140 BRIDGES STREET

REVISIONS:

No.	BY	DATE	DESCRIPTION

WETLANDS SURVEY

ELIJAH'S LANDING

MOREHEAD TOWNSHIP, CARTERET COUNTY, NORTH CAROLINA

CLIENT: EAST CAROLINA COMMUNITY DEVELOPMENT INC.
ADDRESS: P.O. BOX 2400 BEAUFORT, NC 28516
PHONE: 252-504-3996

SURVEYED: JH 03/16/18
DRAWN: EGC
CHECKED: EGC
APPROVED: EGC
DATE: 05/16/18
SCALE: 1" = 100'

THE CULLIPHER GROUP, P.A. C-4482
ENGINEERING & SURVEYING SERVICES
151A HIGHWAY 24
MOREHEAD CITY, N.C. 28557
(252) 773-0090

E. GLENN CORBETT, P.L.S.

ROY COOPER
Governor
MICHAEL S. REGAN
Secretary
S. DANIEL SMITH
Director

NORTH CAROLINA
Environmental Quality

February 15, 2021

DWR # 20201353
Carteret County

Elijah's Landing of Morehead City, LLC
Attn: Keith Walker
108 Professional Park Drive
Beaufort, NC 28516

Subject: **APPROVAL OF 401 WATER QUALITY CERTIFICATION WITH ADDITIONAL CONDITIONS**
Elijah's Landing Apartments – Morehead City

Dear Mr. Walker:

You have our approval for the impacts listed below for the purpose described in your application by the Division of Water Resources on January 6, 2021. These impacts are covered by the attached Water Quality General Certification Number 4139 and the conditions listed below. This certification is associated with the use of Nationwide Permit Number 29 once it is issued to you by the U.S. Army Corps of Engineers. Please note that you should get any other federal, state or local permits before proceeding with your project, including those required by (but not limited to) Sediment and Erosion Control, Non-Discharge, and Water Supply Watershed regulations. **Also, this approval to proceed with your proposed impacts or to conduct impacts to waters as depicted in your application shall expire upon expiration of the 404 or CAMA Permit.**

The Division has determined that the proposed project will comply with water quality requirements provided that you adhere to the conditions listed in the enclosed certification and to the additional conditions itemized below.

The following proposed impacts are hereby approved. No other impacts are approved, including incidental impacts. [15A NCAC 02H .0506(b)]

Type of Impact	**Amount Approved (units) Permanent**	**Amount Approved (units) Temporary**
Stream	N/A	N/A
404/401 Wetlands (see narrative and drawings 1 thru 5)	0.349 acres (approx. 15,202 square feet)	N/A

This approval is for the purpose and design described in your application. The plans and specifications for this project are incorporated by reference as part of this Certification. If you change your project,

you must notify the Division and you may be required to submit a new application package with the appropriate fee. If the property is sold, the new owner must be given a copy of this Certification and is responsible for complying with all conditions. [15A NCAC 02H .0507(d)(2)].

If you are unable to comply with any of the conditions of the attached Water Quality General Certification or with the additional conditions itemized below, you must notify the Wilmington Regional Office within 24 hours (or the next business day if a weekend or holiday) from the time the permittee becomes aware of the circumstances.

The permittee shall report to the Wilmington Regional Office any noncompliance with, and/or any violation of, stream or wetland standards [15A NCAC 02B .0200] including but not limited to sediment impacts to streams or wetlands. Information shall be provided orally within 24 hours (or the next business day if a weekend or holiday) from the time the permittee became aware of the non-compliance circumstances.

Additional Conditions:

1. All mechanized equipment operated near surface waters shall be inspected and maintained regularly to prevent contamination of surface waters from fuels, lubricants, hydraulic fluids, or other toxic materials. Construction shall be staged in order to minimize the exposure of equipment to surface waters to the maximum extent practicable. Fueling, lubrication and general equipment maintenance shall be performed in a manner to prevent, to the maximum extent practicable, contamination of surface waters by fuels and oils. [15A NCAC 02H .0506(b)(3) and (c)(3) and 15A NCAC 02B .0211 (12)]

2. The Permittee shall adhere specifically to 15A NCAC 02B .0221 Tidal Salt Water Quality for Class SA Waters (3)(g) pH: shall be normal for waters in the area, which generally shall range between 6.8 and 8.5 except that swamp waters may have a pH as low as 4.3 if it is the result of natural conditions; (l) Turbidity: the turbidity in the receiving water shall not exceed 25 NTU; **if turbidity exceeds this level due to natural background conditions, the existing turbidity level shall not be increased**. [15A NCAC 02B .0221]

This approval and its conditions are final and binding unless contested. [G.S. 143-215.5]

This Certification can be contested as provided in Chapter 150B of the North Carolina General Statutes by filing a Petition for a Contested Case Hearing (Petition) with the North Carolina Office of Administrative Hearings (OAH) **within sixty (60) calendar days**. Requirements for filing a Petition are set forth in Chapter 150B of the North Carolina General Statutes and Title 26 of the North Carolina Administrative Code. Additional information regarding requirements for filing a Petition and Petition forms may be accessed at http://www.ncoah.com/ or by calling the OAH Clerk's Office at (919) 431-3000.

One (1) copy of the Petition must also be served to the North Carolina Department of Environmental Quality:

William F. Lane, General Counsel
Department of Environmental Quality

1601 Mail Service Center
Raleigh, NC 27699-1601

This letter completes the review of the Division under section 401 of the Clean Water Act and 15A NCAC 02H .0500. Please contact Holley Snider at 910-796-7215 or holley.snider@ncdenr.gov if you have any questions or concerns.

Sincerely,

DocuSigned by:
morella sanchez-king
E3ABA14AC7DC434...

Morella Sanchez-King
Regional Supervisor
Water Quality Regional Operations Section
Division of Water Resources
Wilmington Regional Office

Enclosures: GC 4139

cc: Kimberlee Williams, Land Management Group (via email)
Thomas Charles, USACE Wilmington Regulatory Field Office (via email
DWR 401 & Buffer Permitting Unit file

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WATER RESOURCES

WATER QUALITY GENERAL CERTIFICATION NO. 4139

GENERAL CERTIFICATION FOR PROJECTS ELIGIBLE FOR US ARMY CORPS OF ENGINEERS

- **NATIONWIDE PERMIT NUMBER 18 (MINOR DISCHARGES),**
- **NATIONWIDE PERMIT NUMBER 29 (RESIDENTIAL DEVELOPMENT),**
- **NATIONWIDE PERMIT NUMBER 39 (COMMERCIAL AND INSTITUTIONAL DEVELOPMENTS),**
- **NATIONWIDE PERMIT NUMBER 40 (AGRICULTURAL ACTIVITIES),**
- **NATIONWIDE PERMIT NUMBER 41 (RESHAPING EXISTING DRAINAGE DITCHES),**
- **NATIONWIDE PERMIT NUMBER 42 (RECREATIONAL FACILITIES),**
- **NATIONWIDE PERMIT NUMBER 44 (MINING ACTIVITIES),**
- **NATIONWIDE PERMIT NUMBER 46 (DISCHARGES IN DITCHES),**
- **NATIONWIDE PERMIT NUMBER 51 (LAND BASED RENEWABLE ENERGY GENERATION FACILITIES), AND**
- **NATIONWIDE PERMIT NUMBER 52 (WATER BASED RENEWABLE ENERGY GENERATION PILOT PROJECTS).**

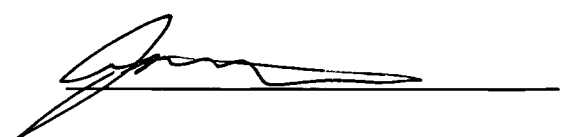
Water Quality Certification Number 4139 is issued in conformity with the requirements of Section 401, Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Regulations in 15A NCAC 02H .0500 and 15A NCAC 02B .0200 for the discharge of fill material to surface waters and wetland areas as described in 33 CFR 330 Appendix A (B) (18, 29, 39, 40, 41, 42, 44, 46, 51 and 52) of the US Army Corps of Engineers regulations.

The State of North Carolina certifies that the specified category of activity will not violate applicable portions of Sections 301, 302, 303, 306 and 307 of the Public Laws 92-500 and 95-217 if conducted in accordance with the conditions hereinafter set forth.

Effective date: December 1, 2017

Signed this day: December 1, 2017

By



for Linda Culpepper
Interim Director

Activities meeting any one (1) of the following thresholds or circumstances require *written approval* for a 401 Water Quality Certification from the Division of Water Resources (DWR):

a) If any of the conditions of this Certification (listed below) cannot be met; or
b) Any impacts to streams from excavation or dredging other than excavation that is conducted as preparation for installing permanent fill or structures; or
c) Total temporary and permanent impacts to streams greater than 150 feet; or
d) Any stream relocation or stream restoration; or
e) Complete dewatering and drawdowns to a sediment layer related to pond/dam maintenance or removal; or
f) Total temporary and permanent impacts to wetlands or open waters equal to or greater than one-tenth (1/10) acre; or
g) Any high-density project, as defined in 15A NCAC 02H .1003(2)(a) and by the density thresholds specified in 15A NCAC 02H .1017, which:
    i. Disturbs one acre or more of land (including a project that disturbs less than one acre of land that is part of a larger common plan of development or sale); and
    ii. Has permanent wetland, stream or open water impacts; and
    iii. Is proposing new built-upon area; and
    iv. Does not have a stormwater management plan reviewed and approved under a state stormwater program[1] or a state-approved local government stormwater program[2].

    Projects that have vested rights, exemptions, or grandfathering from state or locally-implemented stormwater programs and projects that satisfy state or locally-implemented stormwater programs through use of community in-lieu programs **require written approval.**; or
h) Any permanent impacts to waters, or to wetlands adjacent to waters, designated as: ORW (including SAV), HQW (including PNA), SA, WS-I, WS-II, Trout, or North Carolina or National Wild and Scenic River; or
i) Any permanent impacts to coastal wetlands [15A NCAC 07H .0205], or Unique Wetlands (UWL) [15A NCAC 02H .0506]; or
j) Any impact associated with a Notice of Violation or an enforcement action for violation(s) of NC Wetland Rules (15A NCAC 02H .0500), NC Isolated Wetland Rules (15A NCAC 02H .1300), NC Surface Water or Wetland Standards (15A NCAC 02B .0200), or State Regulated Riparian Buffer Rules (15A NCAC 02B .0200); or
k) Any impacts to subject water bodies and/or state regulated riparian buffers along subject water bodies in the Neuse, Tar-Pamlico, or Catawba River Basins or in the Randleman Lake, Jordan Lake or Goose Creek Watersheds (or any other basin or watershed with State Regulated Riparian Area Protection Rules [Buffer Rules] in effect at the time of application) *unless:*
    i. The activities are listed as "EXEMPT" from these rules; or

[1] e.g. Coastal Counties, HQW, ORW, or state-implemented Phase II NPDES
[2] e.g. Delegated Phase II NPDES, Water Supply Watershed, Nutrient-Sensitive Waters, or Universal Stormwater Management Program

ii. A Buffer Authorization Certificate is issued by the NC Division of Coastal Management (DCM); or

iii. A Buffer Authorization Certificate or a Minor Variance is issued by a delegated or designated local government implementing a state riparian buffer program pursuant to 143-215.23.

Activities included in this General Certification that do not meet one of the thresholds listed above do not require written approval.

I. ACTIVITY SPECIFIC CONDITIONS:

1. If this Water Quality Certification is used to access residential, commercial or industrial building sites, then all parcels owned by the applicant that are part of the single and complete project authorized by this Certification must be buildable without additional impacts to streams or wetlands. If required in writing by DWR, the applicant shall provide evidence that the parcels are buildable without requiring additional impacts to wetlands, waters, or state regulated riparian buffers. [15A NCAC 02H .0506(b)(4) and (c)(4)]

2. For road construction purposes, this Certification shall only be utilized from natural high ground to natural high ground. [15A NCAC 02H .0506(b)(2) and (c)(2)]

3. Deed notifications or similar mechanisms shall be placed on all lots with retained jurisdictional wetlands, waters, and state regulated riparian buffers within the project boundaries in order to assure compliance with NC Wetland Rules (15A NCAC 02H .0500), NC Isolated Wetland Rules (15A NCAC 02H .1300), and/or State Regulated Riparian Buffer Rules (15A NCAC 02B .0200). These mechanisms shall be put in place at the time of recording of the property or individual parcels, whichever is appropriate. [15A NCAC 02H .0506(b)(4) and (c)(4)]

4. For all dam removal projects meeting the definition under G.S. 143-215.25 and requirements under G.S. 143-215.27 of a professionally supervised dam removal, the applicant shall provide documentation that any sediment that may be released has similar or lower level of contamination than sediment sampled from downstream of the dam in accordance with Session Law 2017-145.

5. For the North Carolina Department of Transportation, compliance with the NCDOT's individual NPDES permit NCS000250 shall serve to satisfy this condition. All other high-density projects that trigger threshold Item (g) above shall comply with one of the following requirements: [15A NCAC 02H .0506(b)(5) and (c)(5)]

a. Provide a completed Stormwater Management Plan (SMP) for review and approval, including all appropriate stormwater control meàsure (SCM) supplemental forms and associated items, that complies with the high-density development requirements of 15A NCAC 02H .1003. Stormwater management shall be provided throughout the entire project area in accordance with 15A NCAC 02H .1003. For the purposes of 15A NCAC 02H .1003(2)(a), density thresholds shall be determined in accordance with 15A NCAC 02H .1017.

b. Provide calculations to document that the project will not cause degradation of downstream surface waters. Documentation shall include a detailed analysis of the hydrological impacts from stormwater runoff when considering the volume and velocity of stormwater runoff from the project built upon area and the size and existing condition of the receiving stream(s).

Exceptions to this condition require application to and written approval from DWR.

II. GENERAL CONDITIONS:

1. When written authorization is required, the plans and specifications for the project are incorporated into the authorization by reference and are an enforceable part of the Certification. Any modifications to the project require notification to DWR and may require an application submittal to DWR with the appropriate fee. [15A NCAC 02H .0501 and .0502]

2. No waste, spoil, solids, or fill of any kind shall occur in wetlands or waters beyond the footprint of the impacts (including temporary impacts) as authorized in the written approval from DWR; or beyond the thresholds established for use of this Certification without written authorization. [15A NCAC 02H .0501 and .0502]

   No removal of vegetation or other impacts of any kind shall occur to state regulated riparian buffers beyond the footprint of impacts approved in a Buffer Authorization or Variance or as listed as an exempt activity in the applicable riparian buffer rules. [15A NCAC 02B .0200]

3. In accordance with 15A NCAC 02H .0506(h) and Session Law 2017-10, compensatory mitigation may be required for losses of greater than 300 linear feet of perennial streams and/or greater than one (1) acre of wetlands. Impacts associated with the removal of a dam shall not require mitigation when the removal complies with the requirements of Part 3 of Article 21 in Chapter 143 of the North Carolina General Statutes. Impacts to isolated and other non-404 jurisdictional wetlands shall not be combined with 404 jurisdictional wetlands for the purpose of determining when impact thresholds trigger a mitigation requirement. For linear publicly owned and maintained transportation projects that are not determined to be part of a larger common plan of development by the US Army Corps of Engineers, compensatory mitigation may be required for losses of greater than 300 linear feet per perennial stream.

Compensatory stream and/or wetland mitigation shall be proposed and completed in compliance with G.S. 143-214.11. For applicants proposing to conduct mitigation within a project site, a complete mitigation proposal developed in accordance with the most recent guidance issued by the US Army Corps of Engineers Wilmington District shall be submitted for review and approval with the application for impacts.

4. All activities shall be in compliance with any applicable State Regulated Riparian Buffer Rules in Chapter 2 of Title 15A.

5. When applicable, all construction activities shall be performed and maintained in full compliance with G.S. Chapter 113A Article 4 (Sediment and Pollution Control Act of 1973). Regardless of applicability of the Sediment and Pollution Control Act, all projects shall incorporate appropriate Best Management Practices for the control of sediment and erosion so that no violations of state water quality standards, statutes, or rules occur. [15A NCAC 02H .0506 (b)(3) and (c)(3) and 15A NCAC 02B .0200]

   Design, installation, operation, and maintenance of all sediment and erosion control measures shall be equal to or exceed the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*, or for linear transportation projects, the *NCDOT Sediment and Erosion Control Manual*.

   All devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) sites, including contractor-owned or leased borrow pits associated with the project. Sufficient materials required for stabilization and/or repair of erosion control measures and stormwater routing and treatment shall be on site at all times.

   For borrow pit sites, the erosion and sediment control measures shall be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*. Reclamation measures and implementation shall comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act and the Mining Act of 1971.

   If the project occurs in waters or watersheds classified as Primary Nursery Areas (PNAs), SA, WS-I, WS-II, High Quality Waters (HQW), or Outstanding Resource Waters (ORW), then the sedimentation and erosion control designs shall comply with the requirements set forth in 15A NCAC 04B .0124, *Design Standards in Sensitive Watersheds*.

6. Sediment and erosion control measures shall not be placed in wetlands or waters except within the footprint of temporary or permanent impacts authorized under this Certification. Exceptions to this condition require application to and written approval from DWR. [15A NCAC 02H .0501 and .0502]

7. Erosion control matting that incorporates plastic mesh and/or plastic twine shall not be used along streambanks or within wetlands. Exceptions to this condition require application to and written approval from DWR. [15A NCAC 02B .0201]

8. An NPDES Construction Stormwater Permit (NCG010000) is required for construction projects that disturb one (1) or more acres of land. The NCG010000 Permit allows stormwater to be discharged during land disturbing construction activities as stipulated in the conditions of the permit. If the project is covered by this permit, full compliance with permit conditions including the erosion & sedimentation control plan, inspections and maintenance, self-monitoring, record keeping and reporting requirements is required. [15A NCAC 02H .0506(b)(5) and (c)(5)]

   The North Carolina Department of Transportation (NCDOT) shall be required to be in full compliance with the conditions related to construction activities within the most recent version of their individual NPDES (NCS000250) stormwater permit. [15A NCAC 02H .0506(b)(5) and (c)(5)]

9. All work in or adjacent to streams shall be conducted so that the flowing stream does not come in contact with the disturbed area. Approved best management practices from the most current version of the *NC Sediment and Erosion Control Manual*, or the *NC DOT Construction and Maintenance Activities Manual*, such as sandbags, rock berms, cofferdams, and other diversion structures shall be used to minimize excavation in flowing water. Exceptions to this condition require application to and written approval from DWR. [15A NCAC 02H .0506(b)(3) and (c)(3)]

10. If activities must occur during periods of high biological activity (e.g. sea turtle nesting, fish spawning, or bird nesting), then biological monitoring may be required at the request of other state or federal agencies and coordinated with these activities. [15A NCAC 02H .0506(b)(2) and 15A NCAC 04B .0125]

    All moratoriums on construction activities established by the NC Wildlife Resources Commission (WRC), US Fish and Wildlife Service (USFWS), NC Division of Marine Fisheries (DMF), or National Marine Fisheries Service (NMFS) shall be implemented. Exceptions to this condition require written approval by the resource agency responsible for the given moratorium. A copy of the approval from the resource agency shall be forwarded to DWR.

    Work within a designated trout watershed of North Carolina (as identified by the Wilmington District of the US Army Corps of Engineers), or identified state or federal endangered or threatened species habitat, shall be coordinated with the appropriate WRC, USFWS, NMFS, and/or DMF personnel.

11. Culverts shall be designed and installed in such a manner that the original stream profiles are not altered and allow for aquatic life movement during low flows. The dimension, pattern, and profile of the stream above and below a pipe or culvert shall not be modified by widening the stream channel or by reducing the depth of the stream in connection with the construction activity. The width, height, and gradient of a proposed culvert shall be such as to pass the average historical low flow and spring flow without adversely altering flow velocity. [15A NCAC 02H .0506(b)(2) and (c)(2)]

Placement of culverts and other structures in streams shall be below the elevation of the streambed by one foot for all culverts with a diameter greater than 48 inches, and 20% of the culvert diameter for culverts having a diameter less than or equal to 48 inches, to allow low flow passage of water and aquatic life.

If multiple pipes or barrels are required, they shall be designed to mimic the existing stream cross section as closely as possible including pipes or barrels at flood plain elevation and/or sills where appropriate. Widening the stream channel shall be avoided.

When topographic constraints indicate culvert slopes of greater than 5%, culvert burial is not required, provided that all alternative options for flattening the slope have been investigated and aquatic life movement/connectivity has been provided when possible (e.g. rock ladders, cross vanes, etc.). Notification, including supporting documentation to include a location map of the culvert, culvert profile drawings, and slope calculations, shall be provided to DWR 60 calendar days prior to the installation of the culvert.

When bedrock is present in culvert locations, culvert burial is not required provided that there is sufficient documentation of the presence of bedrock. Notification, including supporting documentation such as, a location map of the culvert, geotechnical reports, photographs, etc. shall be provided to DWR a minimum of 60 calendar days prior to the installation of the culvert. If bedrock is discovered during construction, then DWR shall be notified by phone or email within 24 hours of discovery.

If other site-specific topographic constraints preclude the ability to bury the culverts as described above and/or it can be demonstrated that burying the culvert would result in destabilization of the channel, then exceptions to this condition require application to and written approval from DWR.

Installation of culverts in wetlands shall ensure continuity of water movement and be designed to adequately accommodate high water or flood conditions. When roadways, causeways, or other fill projects are constructed across FEMA-designated floodways or wetlands, openings such as culverts or bridges shall be provided to maintain the natural hydrology of the system as well as prevent constriction of the floodway that may result in destabilization of streams or wetlands.

The establishment of native woody vegetation and other soft stream bank stabilization techniques shall be used where practicable instead of rip-rap or other bank hardening methods.

12. Bridge deck drains shall not discharge directly into the stream. Stormwater shall be directed across the bridge and pre-treated through site-appropriate means to the maximum extent practicable (e.g. grassed swales, pre-formed scour holes, vegetated buffers, etc.) before entering the stream. -Exceptions to this condition require application to and written approval from DWR. [15A NCAC 02H .0506(b)(5)]

13. Application of fertilizer to establish planted/seeded vegetation within disturbed riparian areas and/or wetlands shall be conducted at agronomic rates and shall comply with all other Federal, State and Local regulations. Fertilizer application shall be accomplished in a manner that minimizes the risk of contact between the fertilizer and surface waters. [15A NCAC 02B .0200 and 15A NCAC 02B .0231]

14. If concrete is used during construction, then all necessary measures shall be taken to prevent direct contact between uncured or curing concrete and waters of the state. Water that inadvertently contacts uncured concrete shall not be discharged to waters of the state. [15A NCAC 02B .0200]

15. All proposed and approved temporary fill and culverts shall be removed and the impacted area shall be returned to natural conditions within 60 calendar days after the temporary impact is no longer necessary. The impacted areas shall be restored to original grade, including each stream's original cross sectional dimensions, planform pattern, and longitudinal bed profile. For projects that receive written approval, no temporary impacts are allowed beyond those included in the application and authorization. All temporarily impacted sites shall be restored and stabilized with native vegetation. [15A NCAC 02H .0506(b)(2) and (c)(2)]

16. All proposed and approved temporary pipes/culverts/rip-rap pads etc. in streams shall be installed as outlined in the most recent edition of the *North Carolina Sediment and Erosion Control Planning and Design Manual* or the *North Carolina Surface Mining Manual* or the *North Carolina Department of Transportation Best Management Practices for Construction and Maintenance Activities* so as not to restrict stream flow or cause dis-equilibrium during use of this Certification. [15A NCAC 02H .0506(b)(2) and (c)(2)]

17. Any rip-rap required for proper culvert placement, stream stabilization, or restoration of temporarily disturbed areas shall be restricted to the area directly impacted by the approved construction activity. All rip-rap shall be placed such that the original stream elevation and streambank contours are restored and maintained. Placement of rip-rap or other approved materials shall not result in de-stabilization of the stream bed or banks upstream or downstream of the area or in a manner that precludes aquatic life passage. [15A NCAC 02H .0506(b)(2)]

18. Any rip-rap used for stream or shoreline stabilization shall be of a size and density to prevent movement by wave, current action, or stream flows and shall consist of clean rock or masonry material free of debris or toxic pollutants. Rip-rap shall not be installed in the streambed except in specific areas required for velocity control and to ensure structural integrity of bank stabilization measures. [15A NCAC 02H .0506(b)(2)]

19. Applications for rip-rap groins proposed in accordance with 15A NCAC 07H .1401 (NC Division of Coastal Management General Permit for construction of Wooden and Rip-rap Groins in Estuarine and Public Trust Waters) shall meet all the specific conditions for design and construction specified in 15A NCAC 07H .1405.

20. All mechanized equipment operated near surface waters shall be inspected and maintained regularly to prevent contamination of surface waters from fuels, lubricants, hydraulic fluids, or other toxic materials. Construction shall be staged in order to minimize the exposure of equipment to surface waters to the maximum extent practicable. Fueling, lubrication and general equipment maintenance shall be performed in a manner to prevent, to the maximum extent practicable, contamination of surface waters by fuels and oils. [15A NCAC 02H .0506(b)(3) and (c)(3) and 15A NCAC 02B .0211 (12)]

21. Heavy equipment working in wetlands shall be placed on mats or other measures shall be taken to minimize soil disturbance. [15A NCAC 02H .0506(b)(3) and (c)(3)]

22. In accordance with 143-215.85(b), the applicant shall report any petroleum spill of 25 gallons or more; any spill regardless of amount that causes a sheen on surface waters; any petroleum spill regardless of amount occurring within 100 feet of surface waters; and any petroleum spill less than 25 gallons that cannot be cleaned up within 24 hours.

23. If an environmental document is required under the State Environmental Policy Act (SEPA), then this General Certification is not valid until a Finding of No Significant Impact (FONSI) or Record of Decision (ROD) is issued by the State Clearinghouse. If an environmental document is required under the National Environmental Policy Act (NEPA), then this General Certification is not valid until a Categorical Exclusion, the Final Environmental Assessment, or Final Environmental Impact Statement is published by the lead agency [15A NCAC 01C .0107(a)]

24. This General Certification does not relieve the applicant of the responsibility to obtain all other required Federal, State, or Local approvals before proceeding with the project, including those required by, but not limited to Sediment and Erosion Control, Non-Discharge, Water Supply Watershed, and Trout Buffer regulations.

25. The applicant and their authorized agents shall conduct all activities in a manner consistent with State water quality standards (including any requirements resulting from compliance with §303(d) of the Clean Water Act), and any other appropriate requirements of State and Federal Law. If DWR determines that such standards or laws are not being met, including failure to sustain a designated or achieved use, or that State or Federal law is being violated, or that further conditions are necessary to assure compliance, then DWR may revoke or modify a written authorization associated with this General Water Quality Certification. [15A NCAC 02H .0507(d)]

26. The permittee shall require its contractors and/or agents to comply with the terms and conditions of this permit in the construction and maintenance of this project, and shall provide each of its contractors and/or agents associated with the construction or maintenance of this project with a copy of this Certification. A copy of this Certification, including all conditions shall be available at the project site during the construction and maintenance of this project. [15A NCAC 02H .0507 (c) and 15A NCAC 02H .0506 (b)(2) and (c)(2)]

27. When written authorization is required for use of this Certification, upon completion of all permitted impacts included within the approval and any subsequent modifications, the applicant shall be required to return a certificate of completion (available on the DWR website https://edocs.deq.nc.gov/Forms/Certificate-of-Completion). [15A NCAC 02H .0502(f)]

28. Additional site-specific conditions, including monitoring and/or modeling requirements, may be added to the written approval letter for projects proposed under this Water Quality Certification in order to ensure compliance with all applicable water quality and effluent standards. [15A NCAC 02H .0507(c)]

29. If the property or project is sold or transferred, the new permittee shall be given a copy of this Certification (and written authorization if applicable) and is responsible for complying with all conditions. [15A NCAC 02H .0501 and .0502]

III. GENERAL CERTIFICATION ADMINISTRATION:

1. In accordance with North Carolina General Statute 143-215.3D(e), written approval for a 401 Water Quality General Certification must include the appropriate fee. An applicant for a CAMA permit under Article 7 of Chapter 113A of the General Statutes for which a Water Quality Certification is required shall only make one payment to satisfy both agencies; the fee shall be as established by the Secretary in accordance with 143-215.3D(e)(7).

2. This Certification neither grants nor affirms any property right, license, or privilege in any waters, or any right of use in any waters. This Certification does not authorize any person to interfere with the riparian rights, littoral rights, or water use rights of any other person and this Certification does not create any prescriptive right or any right of priority regarding any usage of water. This Certification shall not be interposed as a defense in any action respecting the determination of riparian or littoral rights or other rights to water use. No consumptive user is deemed by virtue of this Certification to possess any prescriptive or other right of priority with respect to any other consumptive user regardless of the quantity of the withdrawal or the date on which the withdrawal was initiated or expanded.

3. This Certification grants permission to the Director, an authorized representative of the Director, or DWR staff, upon the presentation of proper credentials, to enter the property during normal business hours. [15A NCAC 02H .0502(e)]

4. This General Certification shall expire on the same day as the expiration date of the corresponding Nationwide Permit and/or Regional General Permit. The conditions in effect on the date of issuance of Certification for a specific project shall remain in effect for the life of the project, regardless of the expiration date of this Certification. This General Certification is rescinded when the US Army Corps of Engineers reauthorizes any of the corresponding Nationwide Permits and/or Regional General Permits or when deemed appropriate by the Director of the Division of Water Resources.

5. Non-compliance with or violation of the conditions herein set forth by a specific project may result in revocation of this General Certification for the project and may also result in criminal and/or civil penalties.

6. The Director of the North Carolina Division of Water Resources may require submission of a formal application for Individual Certification for any project in this category of activity if it is deemed in the public's best interest or determined that the project is likely to have a significant adverse effect upon water quality, including state or federally listed endangered or threatened aquatic species, or degrade the waters so that existing uses of the water or downstream waters are precluded.

History Note: Water Quality Certification (WQC) Number 4139 issued December 1, 2017 replaces WQC 4092 issued March 3, 2017; WQC 3890 issued March 19, 2012; replaces WQC Number 3821 issued April 6, 2010; WQC Number 3631 issued March 19, 2007; WQC 3402 issued March 28, 2003; WQC Number 3362, issued March 18, 2002; WQC 3287, issued June 1, 2000; WQCs 3106 and 3108 issued February 11, 1997.